

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1.A New Boost for Jobs, Growth and Investment																		
1.1 Agriculture and Rural Development																		
1.1.a Monitor and analyse agricultural resources and farm systems, and prepare forward-looking assessments of alternative scenarios and good farming practices towards sustainable agriculture. Assess the performance of the common agricultural policy (CAP), including work on indicators, in particular regarding land use and land changes (LUCAS). Develop methods and tools to carry out an integrated assessment of rural development, environment and agriculture to allow CAP																		
109 - PURE Pesticide Use-and-risk Reduction in European farming systems with Integrated Pest Management	To meet both, worldwide demand for food security and new environmental needs, agriculture must increase food production and quality while decreasing its ecological footprint. PURE works towards facilitating the adoption of sustainable and competitive innovations against a background of European economic diversity, helping reduce human health and environmental risks through reduced dependence on pesticides and overall facilitating the implementation of the pesticides package legislation (SANCO).	JRC.J.4 Sergio GOMEZ Y PALOMA	1.1.a	AGRI	RTD	Hans-Georg Lutzeyer DG RTD F.3	SANTE		01/03/2011 28/02/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	1	Final Report	Summary of the project findings. Cost-Benefit Analysis of the Integrated Pest Management Directives for selected crops	28/02/2015	Scientific and policy reports
112 - SOLID Sustainable Organic and Low Input Dairying	This FP7 project aims to improve the technical performance and economic competitiveness of organic and lowinput dairy systems in Europe, while maximising their potential to deliver environmental goods and enhance biodiversity. The JRC contributes with model-based assessment of the economic impacts of these novel dairy systems.	JRC.J.4 Robert MBAREK	1.1.a	AGRI	RTD	Daniele TISSOT (RTD.E.4)	CLIMA		01/04/2011 31/03/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	795 - AGRITRADE Agrifood Trade and Market Policies - data, scenarios & model integration		COM-IA	1	Scenarios of novel dairy sector strategies (CAPRI)	To determine the wider impact of more widespread adoption of novel strategies developed within SOLID with a particular focus on the modelling of low-input and organic dairy systems in contrast to further intensification of milk production within the EU. Policy recommendations to be provided for the promotion and development of improved low input dairy farming systems within resource constraints and product markets. The CAPRI model is further developed for this analysis.	30/06/2015	Scientific and policy reports
														2	Final Report	Summary of the project results	29/03/2016	JRC Technical reports
611 - GLOBCAST 3 Global Crop Monitoring and Forecasting - phase 3	Objective is to prepare for operational monitoring of the impact of weather on the World's main grain producing areas and issue short-term forecasts. The pre-operational extension of the MARS Crop Yield Forecasting System will be implemented with focus on EU Neighbourhood countries (Eastern and Southern EU) for pre-operational bulletin production; Asia (China, India) and the Southern hemisphere (Argentina, Brazil) for experimental crop yield bulletins.	JRC.H.4 Bettina BARUTH	1.1.a	AGRI	AGRI	M. El Aydam, E. Willems (Deputy HoU), AGRI C4			15/05/2014 14/11/2015	2-Information systems & services (50%) 5-Monitoring, verification and surveillance (50%)			COM-AA	1	Final report	Final report of the implementation of a pre-operational MARS Crop Yield Forecasting System extended to GLOBCAST zone 1 (European Neighbourhood) and preparation for zones 2 (Asia) and 3 (Latin America).	31/10/2015	Scientific and policy reports
														2	Status reporting	Status reporting on the implementation of the extension of the MARS Crop Yield Forecasting System to GLOBCAST zone 1 (European Neighbourhood) and preparation for zone 2 (China, India), and zone 3 (Argentina, Brazil).	30/06/2015	Scientific and policy reports
922 - AGRI FARM Agricultural economics and policy. Micro/Regional Scales	Analysing the economic and environmental effects of agricultural policies on farming sector and rural areas in EU and non-EU countries. This is performed using farm level models, IFM-CAP and CAPRI-FARM. Both models include a set of agri-environmental indicators developed in cooperation with JRC-IES. The analysis studies the effects of the 2013 CAP reform and country-level agricultural policies of non-EU regions, such as the Black sea Region, EU neighbour countries, and other areas.	JRC.J.4 Sergio GOMEZ Y PALOMA	1.1.a	AGRI	n/a	Pierluigi Londero, HoU AGRI.E.2	DEVCO		29/06/2013 01/06/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	2210 - ENV4AGRI Environmental Evaluation and Indicators for Agriculture		INS-RS	1	Paper on EU farmers expected investment decisions	The paper will provide new results on the patterns of investment in EU farms, based on the responses of 780 farmers in 6 EU countries. It will highlight the role of several determinants such as farm characteristics, CAP payments (including not only direct payments but also rural development policy subsidies), prospects on agricultural markets, off-farm income, the risk perception and preferences of farmers.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														2	EU-wide Individual Farm Model for CAP (IFM-CAP)	This report describes the first EU-wide individual farm level model (IFM-CAP) in terms of design, mathematical structure, data preparation, calibration process and application. The IFM-CAP is based on Positive Mathematical Programming and seeks to improve the quality of policy assessment upon existing aggregate models. This report is delivered with the different IFM-CAP components (GAMS programming codes, database, GUI and simulation results).	31/05/2015	Scientific and policy reports
														3	Farm level Modelling of CAP "Greening" (CAPRI-FARM)	The 2013 CAP reform introduced significant changes to the implementation of direct payments by making a stronger linkage to "agricultural practices beneficial to the climate and environment" (so called "CAP greening"). This report will apply the farm type layer of CAPRI model (CAPRI-FARM) for improving the modelling of CAP "greening". Income effects as well as environmental and market impacts will be analysed and compared for different farm typologies and size classes across Member States.	31/05/2015	Scientific and policy reports
1016 - AGRI4CAST Crop Production Monitoring and Forecasting	The objective is to undertake operational crop monitoring and yield forecasting at European level and for the main producing regions of the world based on the MARS Crop Yield Forecasting System (MCYFS). This activity responds to the needs of DG AGRI as given in Regulation 1306/2013, Articles 6c and 22. The MCYFS incorporates the Crop Growth Monitoring System (CGMS) as well as the Bio-physical Models Application platform (BioMA).	JRC.H.4 Stefan NIEMEYER	1.1.a	AGRI	n/a	J.-J. Jaffrelot, HoU C4, P. Londero, HoU E2	ENER ESTAT	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EU MS Agriculture - EU Member States Competent Authorities for Agriculture EU MS Agriculture - EU Member States Competent Authorities for Agriculture GEO - The Group on Earth Observations GEO - The Group on Earth Observations	01/01/2014 31/12/2016	2-Information systems & services (30%) 5-Monitoring, verification and surveillance (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (30%)			INS-RS	1	MARS Bulletins	Each year AGRI4CAST will produce and publish [a minimum of 10] MARS Bulletins on crop yield monitoring and forecasting for major crops at European level and for European Neighbourhood countries. MoU JRC-AGRI, Annex 1, Key Priority Support to the CAP, 4th bullet. Draft MoU JRC-ESTAT, Annex 1.A Key Priority Cooperation in the area of resource efficiency, environment and agriculture, 8th bullet.	31/12/2015	Scientific and policy reports
														2	MARS Bulletins	Each year AGRI4CAST will produce and publish [a minimum of 10] MARS Bulletins on crop yield monitoring and forecasting for major crops at European level and for European Neighbourhood countries. MoU JRC-AGRI, Annex 1, Key Priority Support to the CAP, 4th bullet. Draft MoU JRC-ESTAT, Annex 1.A Key Priority Cooperation in the area of resource efficiency, environment and agriculture, 8th bullet.	31/12/2016	Scientific and policy reports
														3	Ad-hoc analyses on adverse weather situations	Ad-hoc analyses of adverse weather situations and their impact on crop yield and production at European level, based on specific requests from DG AGRI. MoU JRC-AGRI, Annex 1, Key Priority Food Security, 1st bullet: "Supporting the European Food security policies by giving scientific advice and providing early warning and objective assessments on agricultural production. (...)"	31/12/2015	Scientific and policy reports
														4	Ad-hoc analyses on adverse weather situations	Ad-hoc analyses of adverse weather situations and their impact on crop yield and production at European level, based on specific requests from DG AGRI. MoU JRC-AGRI, Annex 1, Key Priority Food Security, 1st bullet: "Supporting the European Food security policies by giving scientific advice and providing early warning and objective assessments on agricultural production. (...)"	31/12/2016	Scientific and policy reports
														5	Crop modelling systems maintenance and development	Maintenance, operation, and spatial extension of the MARS Crop Yield Forecasting System, and maintenance, refinement and training on the Biophysical Models Application (BioMA) platform. MoU JRC-AGRI, Annex 1, Key Priority Food Security, 1st bullet. MoU JRC-AGRI, Annex 1, Key Priority Support to the CAP, 6th bullet. Draft MoU JRC-ESTAT, Annex 1, Key Priority Cooperation in the area of resource efficiency, environment and agriculture, 8th bullet.	31/12/2015	Scientific information systems and databases
														6	MARS Hot-spot Bulletins outside Europe	MARS Bulletins on crop yield monitoring and crop yield forecasting including alerts on hot spots and ad-hoc agro-meteorological analysis upon request of DG AGRI in main producing regions of the world. MoU JRC-AGRI, Annex 1, Key Priority Food Security, 1st bullet: "(...) Extension of the biophysical modelling platform to other areas of the world of particular interest of DG AGRI: main producing areas and EU27 neighbourhood."	31/12/2016	Scientific and policy reports
														7	Operational yield forecasting with remote sensing	A newly developed and tested methodology for quantitative crop yield estimation based on remote sensing data will be implemented in the MARS Crop Yield Forecasting System in order to improve the operational crop yield forecasts performed for DG AGRI. The methodology will be based on biophysical parameters such as IAPAR as derived from COPERNICUS services.	31/10/2015	Scientific and policy reports
														8	Crop modelling systems maintenance and development	Maintenance, operation, and spatial extension of the MARS Crop Yield Forecasting System, and maintenance, refinement and training on the Biophysical Models Application (BioMA) platform. MoU JRC-AGRI, Annex 1, Key Priority Food Security, 1st bullet. MoU JRC-AGRI, Annex 1, Key Priority Support to the CAP, 6th bullet. Draft MoU JRC-ESTAT, Annex 1, Key Priority Cooperation in the area of resource efficiency, environment and agriculture, 8th bullet.	31/12/2016	Scientific information systems and databases
														9	Impact of extreme weather on crop yields	Report on the testing and pre-operational implementation of a methodology incorporating specifically the non-linear impacts of extreme weather events on crop and yield development within the MARS Crop Yield Forecasting System for operational crop monitoring in Europe.	31/10/2015	Scientific and policy reports
1060 - SIGMA Stimulating Innovation for Global Monitoring of Agriculture and its Impact on the Environment	SIGMA is a FP7 Project supporting the GEO- Global Agricultural Monitoring (GEOGLAM). It combines agricultural monitoring (crop land mapping and Land use change) and modeling approaches (present yield and yield gap) to assess the potential impacts in various regions of the world of various scenarios and agricultural production increase, by intensification and/or crop land expansion.	JRC.H.4 Olivier LEO	1.1.a	AGRI	RTD	E. Willems, Deputy HoU C5; G. Genovese, Deputy HoU L2	DEVCO ENV GROW		22/11/2013 31/05/2017	4-Methods and testing (50%) 5-Monitoring, verification and surveillance (50%)			COM-IA	1	Agricultural Area Monitoring validation	Technical report defining the methods, process and data collection requirement for the assessment or validation of Agricultural area monitoring products, elaborated by SIGMA on various Pilot sites of the globe. Related to deliverable 3.3.2 of SIGMA	31/05/2015	JRC Technical reports
														2	Global Agriculture area monitoring	Synthesis report on the monitoring of agricultural area, and characterisation of cropping systems around the world. Elaborated on a number of JECAM sites with SIGMA partners. Methodology, results and recommendations, including scientific paper on this subject (jointly with UCL, VITO, IIASA...) Related to deliverables 3.3.3-3.3.4 of SIGMA	31/08/2016	JRC Technical reports
														3	Global Agricultural Yield monitoring / assessment	Technical report on the methods and modeling approaches to assess agricultural productivity and yield gap (actual / potential yield) based on different pilot sites monitored by SIGMA - GEOGLAM with a focus in Africa. Including Scientific papers related to this issue (jointly with CIRAD, ALTEIRA...) Related to deliverable 4.3 of SIGMA proposal	20/12/2016	JRC Technical reports

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2210 - ENV4AGRI Environmental Evaluation and Indicators for Agriculture	Develop methods and tools for the evaluation of the agricultural effects on the environment including providing indicators at different levels (regional, farm). Work includes bio-physical criteria follow-up concerning rules for designation of Areas of Natural Constraints (ANC) and development of nitrogen budget tools.	JRC.H.4 Jean TERRES	1.1.a	AGRI	n/a	PL Londero (HoU AGRI.E2), M Scheele (HoU H1), J Loriz-Hoffmann (HoU H4)	CLIMA ENV ESTAT	EEA - European Environment Agency	01/01/2015 31/12/2018	2-Information systems & services (20%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)			INS-RS	1	Areas with Natural Constraints (ANC)	Technical assessment of Member States new delimitation of Areas with Natural Constraints (Rural Development portfolio). Running process (until 2017) of Member States submitting their delineation of Areas with Natural Constraints. 8 MS estimated for 2015.	15/12/2015	Scientific and policy reports
														2	Areas with Natural Constraints	Art 32 of EU regulation No 1305/2013 of the European Parliament and of the Council on support for rural development by the European Agricultural Fund for Rural Development (EAFRD). Running process (until 2017) of Member States submitting their delineation of Areas with Natural Constraints. 6 MS estimated for 2016.	15/12/2016	Scientific and policy reports
														3	Agri-Environmental Indicators	Agri-Environmental Indicators for assessing the integration of environmental concerns into the Common Agricultural Policy. Review and contribution to streamlining the elaboration of agri-environmental indicators (MoU with ESTAT + COM(2006)508) Feasibility study on monitoring agricultural impacts based on detailed farm statistics and administrative data to develop agri-environmental indicators.	30/07/2016	Scientific and policy reports
														4	Tools for farm level environmental assessment	Literature review on farm level environmental indicators relevant for CAP impact assessment, data requirement analysis Integrating core modules to calculate indicators for farm-level models Assessment of the Low Carbon Farm level calculator based on sample of farm data	31/10/2015	Scientific and policy reports
														5	Improved targeting of rural development measures	Performance evaluation of Areas with Natural Constraints to provide Ecosystem Services (spatial assessment) Development and Assessment of N-budget tools for Agriculture and Climate change, also in support of the JRC/ENV MoU (JRC.BXL.MOU No 32799-2012), section on Agriculture. Contribution to regional Nitrogen balance method harmonisation from national estimates Drafting the annex of the guidelines for Integrated N budget document	30/06/2015	Scientific and policy reports
														6	Nitrogen-budget tools for Agriculture		31/10/2015	Scientific and policy reports
1.1.b Perform an economic analysis of the competitiveness of the European agro-food sector, the performance of European agro-food systems, and their contribution to global food security. This includes active support for the development of agricultural market projections, and of uncertainty and scenario analyses. Analytical tools include models on the iMAP platform.																		
113 - FOODSECURE Exploring the future of global food and nutrition security	The FOODSECURE project aims to design effective and sustainable strategies for assessing and addressing the short- and long-term challenges of food and nutrition security. The project provides a variety of analytical tools to experiment, analyse, and coordinate policies to address tight and volatile food markets. The Agrifile unit contributes with its research on farm models in Africa, new technologies, price volatility, global data and modeling tools	JRC.J.4 Robert MBAREK	1.1.b	AGRI	RTD	Marie RAMOT, RTD.B	DEVCO FISMA RTD TRADE		01/03/2012 28/02/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-HA	1	Short term forecast of price volatility	• Conceptual framework on price volatility and its impact on FNS in the short term • Information base for short term modelling • To prepare toolbox for short term forecasting of FNS • To forecast price volatility and FNS	30/12/2015	Scientific and policy reports
														2	Pooling resources: models and data	• Storing of primary and secondary data for use in multiple packages • Data comparison between different sources and models • User orientation & documentation of scenarios, models and results	30/12/2016	Scientific information systems and databases
174 - ULYSSES Food markets and price volatility - linking crop (BioMA) and economic (AGLINK, CAPRI) models	The FP7 project ULYSSES assesses causes and drivers of prices volatility of food, feed and non-food commodities. The project involves also the JRC, IPTS-J.4 (economic models) and IES-H.4 (bio-physical models), which develops and analyses scenarios of supply shocks, demand changes and climate change impacts on agricultural production to improve understanding of volatile markets.	JRC.J.4 Robert MBAREK	1.1.b	AGRI	RTD	Patrik Kolar, DG RTD.F.3, Johanna Trieb DG RTD.F.3	FISMA RTD		01/06/2012 31/05/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-HA	1	Policy briefing	Long-term drivers of commodity markets volatility and preparing for the future	29/05/2015	JRC contributions to policy documents
683 - IMPRESA Impact of Research on EU Agriculture	The overall aim of IMPRESA is to measure, assess and comprehend the impact of all forms of European Scientific Research on Agriculture (SRA) on key policy goals, including farm level productivity but also environmental enhancement and the efficiency of agri-food supply chains.	JRC.J.4 Sergio GOMEZ Y PALOMA	1.1.b	AGRI	RTD	Hans-Jörg Lutzeyer,	RTD		01/09/2013 31/08/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-HA	1	Interim Report	Interim status towards measuring, assessing and understanding the impact of all forms of European Scientific Research on Agriculture (SRA) on key policy goals	30/06/2015	JRC Technical reports
														2	Final report	Final report explaining all research results towards, measuring, assessing and analysing the impact of all forms of European Scientific Research on Agriculture (SRA) on key policy goals. This included the assessment of farm level productivity but also environmental enhancement and the efficiency of agri-food supply chains.	31/08/2016	Scientific and policy reports
795 - AGRITRADE Agrifood Trade and Market Policies - data, scenarios & model integration	AGRITRADE assesses the impacts of agricultural market and trade policies based on comprehensive databases, advanced economic modelling tools and statistical methods, supporting in particular the main customer DG AGRI. It connects the different JRC priorities on Agriculture, Energy, Environment, Climate Change and Development by linking economic analysis with bio-physical modelling hosting and using the tools of the agro-economic platform iMAP (mainly CAPRI, AGLINK-COSIMO, MAGNET).	JRC.J.4 Robert MBAREK	1.1.b	AGRI	n/a	P. Londero, AGRIL.2	CLIMA DEVCO ENER RTD	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	1	Develop iMAP models (CAPRI, AGLINK, MAGNET, other)	The integrated Agro-Economic Modelling Platform (iMAP) is co-financed through an AA with DG AGRI since 2007 and covers the main pan-European agricultural sector models (CAPRI, AGLINK, ESIM) and widely used general equilibrium models (GLOBE, MAGNET). iMAP constitutes a key modelling platform for the JRC and delivers input to several JRC projects. Apart from updating the tools, the continuing development of these large-scale economic modelling tools and software infrastructure is crucial.	31/12/2016	Scientific information systems and databases
														2	Agro-food baseline (10 years) for EU Member States	The model-based impact assessment of agriculture related policies needs a reference scenario as basis for comparing different policy options. The iMAP modelling group provides to different users within the JRC, other EC services as well as modelling groups in Europe a yearly reference scenario (baseline). This baseline is prepared with the CAPRI model and provides a complete set of supply, demand and prices for agricultural products on EU Member State level for a time horizon of 10 years.	31/12/2016	Scientific and policy reports
														3	Analysis of uncertainty and trade in global market	The prospective analysis of global food security and markets is subject to manifold uncertainties concerning crop yields and other key market drivers like economic growth, exchange rate and energy prices as well as trade policies. The successful work (JRC Reference Report, contribution to EC and OECD/FAO market outlooks) on quantifying the uncertainties and risk associated with these factors using partial stochastic analysis will be continued and further improved.	31/12/2016	Scientific and policy reports
														4	Common Agricultural Policy impact analysis	The Common Agricultural Policy (CAP), representing the second largest share of the EU budget, is an evolving policy area. Further reforms responding to internal and external challenges are necessary, in particular in the context of the multiannual financial framework 2014-2020. Continued impact analysis of different policy options with iMAP tools is carried out to feed the political debate.	31/12/2016	Scientific and policy reports
														5	Scenarios for EU agri food sector 2030	The AgriFood2030 project, building on initiatives analysing these questions at global scale, draws on narrative stories for the European agri-food system describing coherent future development paths which are mapped into quantitative scenarios for (bio)-economic simulation modelling using tools of the iMAP platform.	31/12/2015	Scientific and policy reports
														6	Global Economic Model Intercomparison (AGMIP)	The Agricultural Model Intercomparison and Improvement Project (AgMIP) is a major international effort linking the climate, crop, and economic modeling communities. The goals of AgMIP are to improve substantially the characterization of world food security due to climate change and to enhance adaptation capacity in both developing and developed countries. The CAPRI and MAGNET models (both in iMAP) are part of different economic modeling tools for long-term scenarios comparison.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	Integrating models sustainability eco-assessments	Assessments of policies linked to agriculture, climate change and environment require integrated modelling approach. This deliverable gathers several contributions to JRC activities such as DANUBE-water nexus and PESETA-climate change modelling; incorporation of bio-physical data and calculation of scenarios in particular with the CAPRI model.	31/12/2016	Scientific information systems and databases
														8	Open agricultural data and analysis for Africa	JRC data system DataM Web Portal to be made available for majority of African countries in collaboration with the African Bank of Development. The data work is linked to research on food price volatility and market outlook in Africa.	31/12/2016	Scientific information systems and databases
														9	Bioeconomy: observe & analyse diverse biomass uses	Further development of databases such as AgroSAMS and the DataM tool as well the CGE model MAGNET to analyze the bioeconomy and its different biomass uses (including biofuels and other biomass sectors) and its interlinkages with the rest of the economy and patterns of trade with different regions in the world. These contributions feed into the European Bioeconomy Observatory (BISO). Other tools (AGLINK, CAPRI) contribute to the analysis in particular of the impacts of biofuel policies on global	31/12/2016	Scientific and policy reports

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826 - AGRI-CIS-TRADE Agricultural and biomass trade with Eastern EU Neighbourhood countries and Russia	The FP7 project AGRICISTRADE analyses the potential impact of free trade agreements with the EU and delivers insights into the potential developments of the food, feed and biomass sectors in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Moldova, Russia and Ukraine. The JRC is contributing in particular with its economic modelling tools AGMEMOD and MAGNET.	JRC.J.4 Robert MBAREK	1.1.b	AGRI	RTD	B. Kovacs, RTD.3.E	TRADE		01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		795 - AGRITRADE Agrifood Trade and Market Policies - data, scenarios & model integration	COM-IA	1	Model link between MAGNET, AGMEMOD and GLOBIOM	Development of a methodology to allow the inclusion of bilateral trade changes derived by MAGNET as exogenous variables into AGMEMOD to reflect different trade policies. This work includes the implementation of a formal link between MAGNET and AGMEMOD. Policy instruments will be refined to better reflect trade policies and market response parameters of GLOBIOM consistent with the AGMEMOD econometric estimates.	30/06/2015	Scientific information systems and databases
														2	Extension and update of AGMEMOD for CIS countries	Regional extension of AGMEMOD to Kazakhstan and if feasible to Belarus (depending on data availability); estimates of medium-term developments of the major agricultural sectors (cereals, oilseeds, meat, dairy) and validation of parameter values. This extension work also includes the regional presentation of agri-food production in the Russian Federation, Ukraine and Kazakhstan.	30/06/2015	Scientific information systems and databases
														3	Assessing the impact of policy scenarios	A particular focus will be on assessing the consequences of changes in the renewable energy policies on the agricultural production, use and trade positions of the CIS. Implications for bilateral trade relations of the EU with each CIS country will be addressed.	30/06/2016	Scientific and policy reports
2048 - IMAP-8 Integrated Modelling Platform for Agro-economic Commodity and Policy Analysis	iMAP contributes to the development of the Agro-Economic Modelling Platform which allows the maintenance, development and use of the main modelling tools which are currently used by DG AGRI and gradually the quantitative tools which may become necessary to DG AGRI in the management, evaluation and analysis of the CAP (e.g. for towards 2020 reform, market, trade and rural development analysis).	JRC.J.4 Robert MBAREK	1.1.b	AGRI	AGRI	DG AGRI E.2	CLIMA ENV ESTAT		01/06/2015 31/05/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		2210 - ENV4AGRI Environmental Evaluation and Indicators for Agriculture 795 - AGRITRADE Agrifood Trade and Market Policies - data, scenarios & model integration 922 - AGRI FARM Agricultural economics and policy. Micro/Regional Scales	COM-AA	1	Report "maintenance, development & use of models"	Maintenance of the models will include the updating of the database, updating the models functions, calibrating the models, setting-up the validation procedures, and the maintenance of the relevant interface(s). This includes the following models: CAPRI (including CAPRI-FARM), AGMEMOD, AGLINK-COSIMO, IFM-CAP and CGE models.	31/05/2016	Scientific information systems and databases
														2	Baseline for AGLINK-COSIMO, CAPRI, AGMEMOD models	A yearly baseline for all three models is prepared to include new projections on agricultural markets and recent changes of agricultural policies. The AGLINK baseline delivers the main tendencies on EU15 and EU13 aggregated level. To depict impacts on different regional levels (MS, NUTS2) and to simulate policies in more detail, the AGMEMOD and CAPRI models are then calibrated to AGLINK.	31/05/2016	Scientific information systems and databases
														3	Report based on policy simulations	Economic assessment of policies related to agriculture	31/05/2016	Scientific and policy reports
														4	Organisation of a seminar in Brussels	The meeting on "Commodity Market Development in Europe - Outlook" will be organised by JRC-IPTS after agreement with DG Agriculture and Rural Development on the topics and experts and will take place in Brussels in October 2015.	31/12/2015	Scientific and policy reports
														5	Training activities for DG AGRI	The modelling platform needs to be accompanied by i) technical support and cooperation with the modelling groups using the key models implemented in the modelling platform and ii) an advisory or reference group on the strategic orientation of the modelling platform.	31/05/2016	Training
														6	Agri-Environmental Indicators development	Technical integration of environmental indicators for regional (CAPRI) and farm level (IFM-CAP) models (coding and technical documentation).	15/12/2015	Scientific and policy reports
														7	CAP2020 environmental performance assessment	CAP scenario environmental impact assessment with CAPRI / IFM-CAP models	31/12/2016	Scientific and policy reports
2141 - IMAP-7 Integrated Modelling Platform for Agro-economic Commodity and Policy Analysis	iMAP contributes to the development of the Agro-Economic Modelling Platform which allows the maintenance, development and use of the main modelling tools which are currently used by DG AGRI and gradually the quantitative tools which may become necessary to DG AGRI in the management, evaluation and analysis of the CAP (e.g. for towards 2020 reform, market, trade and rural development analysis).	JRC.J.4 Robert MBAREK	1.1.b	AGRI	AGRI	DG Agri L.2		03/06/2014 31/05/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	1	Final Report	The report shall summarize the activities of the Modelling Platform with clear reference to maintenance, development and use of models	31/05/2015	JRC Technical reports	
1.1.c Model soil, water and ecosystem dynamics in order to improve their sustainable management in agricultural systems. Integrate biophysical models and economic modelling. Study the impacts and effects of climate change on agriculture, prices, income, market and trade. Assess the mitigation options for EU agriculture and possible measures for adapting to climate change.																		
188 - QuESSA Quantification of Ecosystem Services for Sustainable Agriculture	Quantification of Ecosystem Services for Sustainable Agriculture. The QUESSA project aims to quantify the key semi-natural habitats (SNH) providing essential ecosystem services (ES) across economically important cropping systems, farming intensities and four European agro-climatic zones.	JRC.H.4 Maria-Luisa PARACCHINI	1.1.c	AGRI	RTD	P.L. LONDERO (AGRI.E2), M. SCHEELE (AGRI.H1), I. SEOANE (AGRI H.4)	ENV		01/02/2013 31/01/2017	4-Methods and testing (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			COM-IA	1	Spatially explicit ecosystem mapping	Interim report on spatially explicit ecosystem mapping with focus on pollination and biological control at European scale	30/09/2015	Scientific and policy reports
														2	"heat maps" for biological control	Report on spatially explicit "heat maps" for biological control at farm and landscape level	30/09/2016	Scientific and policy reports
														3	"heat maps" for pollination services	Report on spatially explicit "heat maps" for pollination services at farm and landscape level	30/09/2016	Scientific and policy reports
														4	Spatially explicit "heat maps" for ES in Europe	Report on spatially explicit "heat maps" for ecosystem services across Europe	30/12/2016	Scientific and policy reports
1.1.d Develop efficient and innovative tools for CAP implementation, including: i) technical and scientific support to the Integrated Administration and Control System and the Land Parcel Identification System, in particular the various greening instruments of the CAP; and ii) the science-based assessment of Areas of Natural Constraint (ANC) delimitations proposed by MS.																		
496 - GTCAP Guidance and Tools for CAP implementation	To provide DG AGRI and Member State administrations with technical guidance, tools and support to correctly administer the inter-related schemes of the post-2013 CAP conditioned by farmer's direct payments. This particularly concerns the new 'greening' measures of the CAP's Pillar I and making appropriate links to harmonise with Pillar II such as with cross compliance. Where possible, investigation will also be made concerning monitoring CAP impacts upon the environment.	JRC.H.4 Philippe LOUDJANI	1.1.d	AGRI	n/a	DG AGRI Head of Units D3, D2, D1 and J3	CLIMA ENV GROW NEAR REGIO	CAP-AG - CAP subsidy paying agencies EU CC Agriculture - EU Candidate countries Competent Authorities for Agriculture EU MS Agriculture - EU Member States Competent Authorities for Agriculture	01/01/2014 31/12/2016	4-Methods and testing (50%) 5-Monitoring, verification and surveillance (30%) 7-Scientific, technical & policy consultancy (20%)			INS-RS	1	GTCAP workshops, training and reporting	GTCAP will organize three (a fourth is subject to credits being available) technical workshops and one annual conference targeted at CAP implementation by MS authorities. They will be co-hosted and planned together with DG AGRI and will cover such items as LPIS, CwRS, GAEC, OTSC, and FAS. A training course concerning IACS technical implementation will be given to DG AGRI staff. Technical summary reports are issued after each event.	14/12/2015	Scientific and policy reports
														2	Technical support for On-The-Spot checks	GTCAP will work on the production of methods and technical fiches for MS in order to ensure consistent and robust measurements of on-the-spot checks in the frame of CAP direct aids. These fiches will form part of the guidelines released by DG AGRI, with the whole documents subject to joint review. The Wikicap will be reviewed and up-dated, where necessary, in line with corresponding guidance (guidelines) and technical sections (technical fiches).	15/10/2015	Validated methods, reference methods and measurements
														3	LPIS technical support, including LPIS data model	The LPIS is a cornerstone of the IACS of Member States to manage and control CAP direct aids. JRC will support the LPIS Quality Assessment process, including the performance of the screening, and also technical issues regarding direct payments, greening and rural development. The revised LPIS data model will be published, with all documents subject to joint review. The Wikicap will be maintained and up-dated, where necessary, with corresponding guidance and technical sections.	30/06/2015	Scientific and policy reports
														4	Technical support to CAP 'greening'	Provide technical support to the characterisation, quantification, management and On-The-Spot Checks of the Greening obligations (Ecological Focused Areas, Permanent Grassland protection, Crop diversification) and their links with the GAEC (Good agricultural and environmental condition). New satellite image sources and methods will be implemented. A technical report will be issued, with the whole documents subject to joint review.	15/12/2015	Scientific and policy reports
														5	R&D in the field of CAP implementation	JRC will pursue R&D activities to deliver relevant practical advisory solutions to foster sustainable farming or sustainable management of rural areas. These may include the use of drones, GNSS authentication date stamping, crowd sourcing methods, use of advisory tools, precision farming techniques.	15/12/2015	Scientific and policy reports
														6	GTCAP workshops, training and reporting	GTCAP will organize three technical workshops and one annual conference targeted at CAP implementation by MS authorities. They will be co-hosted and planned together with DG AGRI and will cover such items as LPIS, CwRS, GAEC, OTSC, and FAS. A training course concerning IACS technical implementation will be given to DG AGRI staff. Technical summary reports are issued after each event.	15/12/2016	Scientific and policy reports
														7	Technical support for On-The-Spot checks	GTCAP will work on the production of methods and technical fiches for MS in order to ensure consistent and robust measurements of on-the-spot checks in the frame of CAP direct aids. These fiches will be included in the guidelines released by DG AGRI, with the whole documents subject to joint review.	15/10/2016	Validated methods, reference methods and measurements
														8	LPIS technical support including LPIS data model	The LPIS is a cornerstone component of the Integrated Administration and Control System of Member States to manage and control CAP direct aids. JRC work will support the LPIS Quality Assessment process and also LPIS technical issues regarding direct payments, greening and rural development. The revised LPIS data model will be published. The Wikicap will be maintained with corresponding guidance and technical sections.	30/06/2016	Scientific and policy reports
														9	Technical support to CAP 'greening'	Provide technical support to the characterisation, quantification, management and On-The-Spot Checks of the Greening obligations (Ecological Focused Areas, Permanent Grassland protection, Crop diversification) and their links with the GAEC (Good agricultural and environmental condition). New satellite image sources and methods will be implemented. A technical report will be issued, with the whole documents subject to joint review.	15/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
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1057 - simsEC Satellite Image Management Services for the European Commission	The Project supports DG AGRI in its satellite image management for the Common Agricultural Policy (CAP). It will foster compliance with user requirements, perform quality control, new sensors benchmarking, develop web based workflow management and communication tools. It takes in consideration long term data preservation, contributes to standardisation and promotes Copernicus.	JRC.H.6 Paer AASTRAND	1.1.d	AGRI	n/a	DG AGRI - J3 P. Coenjaerts, and D3 C Borchmann	ENV GROW	- EUROPEAN SPACE AGENCY EEA - European Environment Agency EU MS Agriculture - EU Member States Competent Authorities for Agriculture	01/01/2014 31/12/2016	2-Information systems & services (20%) 4-Methods and testing (20%) 5-Monitoring, verification and surveillance (60%)	JRC.H.4	92 - MACC II Monitoring Atmospheric Composition and Climate - Interim Implementation 404 - GEMMA Geospatial Emergency Mapping and Copernicus Validation 750 - EOSS Earth Observation Support to Copernicus Climate and Marine Services 900 - SPACE Space Policy and the Copernicus Programme 993 - CCCMS Copernicus Climate Change Monitoring Service 1025 - Copernicus4Agri Supporting Copernicus implementation in the Agricultural domain 495 - GTCAP Guidance and Tools for CAP	INS-RS	1	Image specifications for the CAP Campaign 2015	The Very High Resolution and High Resolution image specifications will be issued before each Common Agricultural Policy (CAP) image acquisition Campaign and will determine the rules governing an efficient, innovative, and secure image acquisition workflow for the CAP area-based subsidies and LPIS quality assurance.	28/02/2015	Scientific and policy reports
														2	Geometric benchmark of new satellite sensors	Geometric benchmarking of a new sensor to be introduced in the CAP image acquisition Campaigns (e.g. Kompsat3, SPOT7, WorldView3, Sentinel2 etc.). This means ensuring that accuracy thresholds can be achieved according to standards. The methodology will follow JRC Guidelines for geometric benchmarking of new sensors, but will also take into account any improvements or other foresight techniques deemed necessary.	31/10/2015	Article contribution to conference proceedings published in other periodicals
														3	Yearly update of the CID portal	Long term data preservation: the CID portal will be populated with DG AGRI CAP subsidy checks source data acquired in 2015 and orthorectified data of 2014. Data needs archiving for dissemination, and audit purposes.	22/12/2015	Scientific information systems and databases
														4	Image specifications for the CAP Campaign 2016	The Very High Resolution and High Resolution image specifications will be issued before each Common Agricultural Policy (CAP) image acquisition Campaign and will determine the rules governing an efficient, innovative, and secure image acquisition workflow for the CAP area-based subsidies and LPIS quality assurance.	28/02/2016	Scientific and policy reports
														5	Yearly update of the CID portal	Long term data preservation: the CID portal will be populated with DG AGRI CAP subsidy checks source data acquired in 2016 and orthorectified data of 2015. Data needs archiving for dissemination, and audit purposes.	22/12/2016	Scientific information systems and databases
														6	Summary of the CAP image acquis	After three Campaigns (2014-2016) this report will summarise the running of the Framework Contracts signed for the image acquisition for the Common Agricultural Policy (CAP) profile tender. It will detail the problems encountered and give recommendations for the future of the programme. Special emphasis will be given to Copernicus (e.g. whether a move into the Copernicus infrastructure and services could be an option after 2017 when the FWC ends).	22/12/2016	Scientific and policy reports
1.1.e Run the European Reference Centre for control in the wine sector and the Board of Experts in monitoring content in poultry meat. Carry out research and development, including on ways of controlling food authenticity and quality, and on detecting fraud.																		
729 - ERC-CWS European Ref Centre for Control in the Wine Sector; Expert board in monitoring water in poultry meat	Regulation (EC) No 555/2008 mandates JRC to host and manage the EU Wine Databank. To complement this duty an inventory of analytical methods currently developed for the determination of geographical origin or varietal identification of wine will be drawn up and their performance evaluated. In addition, JRC will chair the AGRI experts board in monitoring water content in poultry meat.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.1.e	AGRI	AGRI	Antoine Michotte Renier, AGRI DDG2.C.2	MS EU - Member states EU	01/01/2014 31/12/2016	4-Methods and testing (100%)				COM-AA	1	2015 Yearly report	The 2015 activity report will summarise the outcome of the annual workprogramme, which include the final list of tools to be developed in order to facilitate the exploitation of EU Wine Databank data, technical specifications for the upgrade of the Wine Databank IT system and related processes and procedures, minutes of the meetings, strategic plan to develop and validate and submit to OIV analytical methods suitable to identify the geographical origin of wine and the variety identification.	31/12/2015	JRC Technical reports
														2	2016 Yearly report	A report summarising all the activities carried out in 2016.	31/12/2016	JRC Technical reports
														3	EU Wine Databank on-line	At the end of the period the EU Wine Databank will available on-line for all the member states.	31/12/2016	Scientific information systems and databases
1.1.f Coordinate the Commission presence at the Expo Milano 2015, around the theme of Feeding the Planet: Energy for Life.																		
3000 - EU@EXPO2015 The EU's participation at Expo Milano 2015	The JRC is coordinating the EU's participation at Expo Milano 2015. We would like to use this platform to communicate on the activities, achievements and future goals of the EU related to food security, establish synergies between European and International agri-business and contribute to the global policy debate.	JRC.A.TF Giancarlo CARATTI DI LANZACCO	1.1.f	AGRI	n/a	Patricia LIBERT, AGRI DDG2.E5; Geraldine BARRY, JRC A.6		01/05/2015 31/10/2015	2-Information systems & services (100%)				INS-RS	1	Communication and Information Dissemination	Communicate with citizens on the work already done in the EU on the fight against poverty and hunger and highlight how individual food choices can affect the sustainability of our food systems. Our communication deliverables include: • 10% of the overall Expo visitors to visit the EU pavilion • 500.000 visitors to our website • 10.000 Facebook fans • 20.000 Twitter followers	31/10/2015	Public information documents
														2	Substantive contribution to global policy debate	A scientific steering committee, chaired by Franz Fischler, produced a discussion paper on The Role of EU Research in Global Food and Nutrition Security. On 8 May an Official Launch Event is planned in order to present the discussion paper by the SC and discuss its 7 Themes with an international audience. A final event on 15 October 2015 to present answers that have come up during the Expo, and to present a recommendation document that sets the scene for actions to be taken after the Expo.	31/10/2015	Public information documents
														3	Growth and Jobs	In the context of Expo the EU will organise many events, activities and conferences with and between European and non-European business to try and foster synergies between them, which may eventually lead to enhanced collaboration and growth and jobs.	31/10/2015	Oral presentations
1.2 Education, Culture, Youth and Sport																		
1.2.a Centre for Research on Education and Life Long Learning (CRELL); Contribution to the monitoring the evolution of education and training systems, based on indicators and benchmarks that are part of the Europe 2020 strategy and the strategic framework for European cooperation in education and training (ET 2020). Research and analysis in areas such as education investment and its efficiency, teaching and learning practices and employability.																		
1078 - CRELL VII Centre for Research on Lifelong Learning VII	The Centre for Research on Lifelong Learning (CRELL) provides expertise in the field of indicator-based evaluation and monitoring of education and training systems and their contribution to the achievement of the objectives specified in EU2020 and previously in the Lisbon Agenda concerning education. CRELL combines expertise in the fields of economics, econometrics, education, social sciences and statistics in an interdisciplinary approach.	JRC.DDG.01 Andrea SALTELLI	1.2.a	EAC	EAC	Jan Pakulski	EMPL	20/05/2014 30/09/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)				COM-AA	2	Adult skills for employability	CRELL will study adult skills and employability following different avenues of research, different econometric methodologies and using several datasets available. By combining the International Adult Literacy Survey (IALS), the Adult Literacy and Life Skills Survey (ALLS) and the Survey of Adult Skills (PIAAC), CRELL will study the evolution of skills over time with a cross-country comparison. It will explore the issue of drivers of skills change. Attention will be paid to low-skill adults.	30/04/2015	Monographs with JRC editorship
														3	Teaching and learning practices	This technical report aims at strengthening the research base on effective teaching characteristics at several levels of education for the EU countries. Among other issues, the report will also investigate the impact of teacher mobility. This research is expected to contribute further quantitative evidence to the concern already raised in the Education and Training Monitor 2013 about the importance of teaching staff on learning outcomes of students.	31/03/2015	Monographs with JRC editorship
														4	Education Investment	It will take stock of the work of the Indicator Expert Group on education investment, in which CRELL participates actively, further analysing the issues discussed in the group and its outcomes. The technical report will integrate the conclusions of the Indicator Expert Group, potentially even including the short analytical discussion papers that CRELL will prepare for the meetings of the Indicator Expert Group.	31/03/2015	Monographs with JRC editorship
														5	Foreign language skills and employability	CRELL will explore the data from the Adult Education Survey (AES) in order to investigate possible relationships between work status and (self-reported) foreign language skills. Specifically, CRELL will investigate the effect of foreign language skills on employability, taking into account one's highest level of education attained and field of study.	30/06/2015	Monographs with JRC editorship
														8	Vocational education and training (VET)	Technical briefing on orientation of study (new LFS addition for which Q1 data will be available June 2014) and possible impact on the JAF approach for the employability benchmark. This report could also assess the potential impact on previous/on-going CRELL analysis of skills mismatch.	31/01/2015	Monographs with JRC editorship
														10	European Quality Assurance in VET	It will undergo analysis of the ten indicators of the EQAVET recommendation with the operational definition of indicators that has been agreed within the EQAVET network. This could include the possible analysis of these ten indicators in light of a composite indicator – and be complemented with a validation analysis.	31/05/2015	Monographs with JRC editorship
														11	Learning mobility in IVET and higher education	This research will summarise country performance as regards outbound international student mobility and IVET mobility. It will also suggest some avenues for further research to follow.	30/09/2015	Monographs with JRC editorship

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2254 - KNOW - Institutional KNOW - Human Capital for prosperity and sustainable growth in Europe	KNOW - It has widely been acknowledged that education, skills, research and innovation are major sources of economic prosperity. To achieve a better understanding of the importance of human capital for growth, KNOW - Institutional uses the multidisciplinary expertise of a team of researchers within the Centre for Research on Education and Lifelong Learning (CRELL) to undergo empirical analysis on human capital formation over the life-cycle across EU countries.	JRC.DDG.01 Andrea SALTELLI	1.2.a	EAC	n/a	Jan Pakulski	EAC EMPL HOME JUST	CoE - Council of Europe Tech Serv - Member States and their Technical Services/type approval authorities	01/01/2015 31/12/2016	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			INS-RS	1	Predictors of performance (early childhood)	Research conducted with pre-school and school-aged children that examine how different cognitive abilities can predict their performance and growth in distinct aspects of numerical competence and mathematical attainment will be delivered. These studies could serve as a starting point for a larger scale study where comparisons across countries could be conducted with the aim of identifying key factors that contribute to achieve effective educational systems in mathematics.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														2	Teacher quality and student performance	This study contributes to previous works and provides evidence of the impact of teachers' skills, as a proxy of teacher quality, on the performance of students across a number of OECD countries.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Instruction time in low achieving schools	This research investigates the short term effects of a large scale intervention, funded by the European Social Fund, that provides additional instruction time to students in low achieving lower secondary schools	31/07/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Gender differences in instruction time	This paper studies the short term effects on achievement, study behaviors and attitude of an intervention providing extra instruction time to students in lower secondary schools	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														5	Theoretical perspectives of university rankings	In the paper we apply Pierce's theory of sign and ethical matrixes to the issue of university rankings. These perspectives allow us to approach the topic of university rankings by including all the relevant stakeholders involved: rankings are addressed to a generic recipient, a sort of one-size-fits-all. The research analyzes the needs and expectations of each interest group with respect to university ranking and already existing university rankings on the basis of the information they provide.	28/02/2015	Article contribution to a monograph
														6	Students' questions and gender	Considering the relevance of student questioning in the teaching, learning and assessment processes, this research proposal was developed, to investigate and characterize feminine and masculine students' questioning profiles, in higher education, in different situations, such as traditional classes and online interactions.	31/05/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	Occupational mismatch in Europe	This research provides evidence on the extent of different, measures of overeducation and overskilling among working age population already used in the literature in an attempt to provide a comprehensive understanding of the relationship between overeducation and overskilling within the broader definition of occupational mismatch.	31/05/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														8	Differences in career trajectories of young people	This research aims at analyzing whether and how employment trajectories of young people vary among four selected different European countries (Italy, The Netherlands, UK and Norway, each one representing different welfare and employment regimes) and investigates differences before and just after the crisis.	31/01/2015	Article contribution to other peer-reviewed periodicals
														9	Education, Skills and Social Outcomes	The purpose of this research is to provide empirical evidence on the association between formal education, directly observed skills among the working age population and different aspects of social well-being, including interpersonal trust, volunteering, individuals' sense of having influence on the political process and health.	31/07/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														10	Restructuring Secondary Education	This project aims at investigating how the new curriculum of secondary education in East Timor is being implemented, through its monitoring and short-term exploratory evaluation. At its core, this project seeks to provide constructive feedback both to the Portuguese authors of the curriculum, as well as to Timorese stakeholders. This project constitutes an opportunity to closely follow, in the context of international cooperation, the process of the restructuring of an education system	31/05/2015	Article contribution to a monograph
														11	Tolerance through Education	Special topic for the JRC conference: Lessons learned for Understanding Civic and Citizenship Education. The conference aims to investigate the ways in which tolerance can be improved through education by examining the existing empirical evidence on the topic, documenting new methodological developments, exploring new research areas and future avenues for evidence-based policies and practices. It follows up of the successful similar event of 2013 (http://ipsc.jrc.ec.europa.eu/index.php?id=849)	31/07/2015	Oral presentations
														12	Literacy and social capital	This study investigates the impact of parental engagement in literacy activities such as storybook reading during the preschool years on fourth graders reading achievement in PIRLS, the Program for International Reading Literacy Study; this study will add to our understanding of how literacy practices are related to socio-economic status and whether a lower social condition coupled with a high level of reading activities can contribute to higher achievement.	29/02/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														13	Ethnic diversity/segregation - student achievement	This research project aims to identify the relationship between school ethnic composition and student mathematics achievement using PISA data and addressing the following research questions: (1) what is the relationship between school ethnic composition and student achievement across European countries? (2) is this relationship different depending on the group of students and the size of the immigrant group? And (3) are these relationships consistent across European countries?	30/04/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														14	Processes of differentiation in Higher Education	In this paper we discuss the processes of internal differentiation that have characterized European Higher Education systems (HEs) in the last fifty years. We argue that these processes have gone through two main stages and in two different directions. We suggest that we are currently facing a third stage, widely different from the two previous ones.	30/04/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														15	Persistency of occupational mismatch	This paper focuses on educational mismatch, defined as the condition of having a different level of education than the one required to perform a specific job. Currently, empirical evidence on whether educational mismatch has a stepping-stone effect on future jobs is mixed. We focus on the effect of being overeducated on future short-term labour market outcomes, and we investigate whether this kind of mismatch results in a temporary or a permanent condition for individuals.	30/04/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														16	Retirement decisions in Europe and the USA	The project analyses older workers' retirement decisions and their complex set of determinants in nine European countries and the U.S. In a first phase, nation-specific case-studies will reconstruct relevant 'framework conditions' of older workers retirement decisions, considering macro- (e.g. nation-state policies), and meso-level factors (e.g. workplace practices). Given these framework conditions, a second phase will focus on the empirical investigation of retirement decisions at country level	24/07/2016	Article contribution to a monograph
														17	Economic context and occupational mismatch	This study uses macroeconomic indicators at country-level to proxy for the economic context specific during the graduation time in order to estimate the relation between early career mismatch and late career mismatch. We use PIAAC and/or the latest AES in order to gauge the degree of the mismatch at individual level, accounting for the choice of field of study. We estimate different models by industry sector assuming that different degrees of study and skills pertain to diff. occupations.	24/07/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														18	Immigrant integration policies and practices	The purpose of this project is to explore the extent to which inclusive educational policies and school practices aimed at the integration of immigrant groups are associated with tolerant attitudes among native youth and desirable civic attitudes (trust in civic institutions, positive attitudes toward their resident country, and positive attitudes toward civic engagement with their resident country) among immigrant youth.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														19	Measurement of civic values in youth	The measurement of attitudes in cross-cultural comparative settings is cumbersome due to several sources of cultural bias. This applies also to the measurement of civic values of youth resulting in unjustified country comparisons due to lack of measurement invariance. Having that the comparability of such measures is highly informative to educational policies and practices, the purpose of this project is to detect and illustrate the causes of non-invariance of attitudinal measures.	31/05/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index

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1.2.b Research on the use and impact of ICT and Open Educational Resources (OER) and Practices (OEP) in modernising, innovating and opening up education and training as well as the contribution of digital technologies to the development and assessment of key competences.																		
260 - EC2E2N2 European Chemistry and Chemical Engineering Education Network 2	The Erasmus network for chemistry and chemical engineering education aims to support the Europe 2020 strategy, the 'Erasmus+' programme, further development of the European Higher Education Area and issues raised by the chemical industry. The network will provide e.g. best practice examples of science teaching, self-evaluation tests, expertise databases, a survey and needs analysis for training of professional chemists, training modules, and a virtual learning community. (training survey)	JRC.D.3 Josephine MCCOURT	1.2.b	EAC	EAC	Mrs Monika HOLIK (EACEA)	EMPL GROW		01/10/2012 30/09/2015	7-Scientific, technical & policy consultancy (100%)		427 - MSCAPACITY Measurements and standards in accreditation: capacity building for key policy areas	COM-AA	2	Project report	This activity provides expertise for the ERASMUS network. The network will provide e.g. best practice examples of science teaching, self-evaluation tests, expertise databases, a survey and needs analysis for training of professional chemists, training modules, and a virtual learning community.	30/09/2015	JRC Technical reports
1730 - Open Education Open Education	Strategies for Opening up Education to support the 2013 Communication. 7 workpackages, main goals are (a) explore existing mechanisms for the recognition of learning through open education initiatives; (b) propose a framework for opening up practices at postsecondary education institutions covering: content, technology, pedagogy, leadership, accreditation, business models; (c) seek understanding of the role of OER, OpenCourseWare, the supply and demand of MOOCs in European Universities.	JRC.J.3 Yves PUNIE	1.2.b	EAC	EAC	Jan Pakulski	CNECT		01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	3	Strategic framework on Open Education	Proposal for a strategic framework for opening up education practices for higher education institutions	03/12/2015	Scientific and policy reports
2277 - Innovative Edu Furthering Innovative Education in Europe (FIE)	Provide policy support on Furthering Innovative Education and digital transformation of Education and Training systems. The project will focus (i) on developing a conceptual framework for innovative educational organisations; (ii) on developing a digital competence framework for educators intended to be compatible to the European Qualifications Framework; (iii) on analysing effective policy models for ICT-enabled innovation in education; (iv) on providing research evidence on learning analytics.	JRC.J.3 Yves PUNIE	1.2.b	EAC	EAC	Jan Pakulski	EMPL		01/01/2015 30/06/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		1730 - Open Education Open Education	COM-AA	1	Framework for innovative educational organisations	Research and validation of a conceptual model that helps educational organisations understand their level of engagement in ICT-enabled innovation	10/08/2015	JRC Technical reports
														2	A framework for teacher digital competences	Development of a digital competence framework for teachers/educators in Europe, based on the more generic digcomp framework for all citizens.	10/03/2016	Scientific and policy reports
														3	Report on policy models for ICT-enabled innovation	Report analysing the existing reforms and initiatives in Europe and beyond and identify the effective policy models which bring sustainable ICT-enabled innovation into educational practice.	10/10/2016	Scientific and policy reports
														4	Learning analytics report	final report on learning analytics and its implication for education policy.	15/12/2016	Scientific and policy reports
1.3 Environment																		
1.3.1 Protecting and enhancing our natural capital																		
1.3.1.a Implement the Water Framework Directive and related directives. This includes a modelling-based assessment of water resources and demand in the EU and globally, chemicals prioritisation, monitoring and assessment methods for chemicals and microbiological elements, drinking and bathing water parameters, intercalibration of ecological status, flood risk assessment and forecasting, drought monitoring and forecasting, and information systems. Develop standards and																		
59 - GMOS Global Mercury Observation System	Development of a global monitoring system to predict spatial distribution of atmospheric mercury deposition loads to and fluxes from terrestrial and aquatic receptors under scenarios of economic development strategies. Twelve master sites (mercury speciation units) and twenty secondary sites (total gaseous mercury) will be established. JRC will underpin the collected information with mercury and other measurements on receiving environmental compartments.	JRC.H.1 Bernd GAWLIK	1.3.1.a	ENV RTD	RTD	Pavlos Mouratidis (ENV), Ethimios ZAGORIANAKOS (RTI 14 D)			01/11/2010 31/10/2015	5-Monitoring, verification and surveillance (100%)			COM-IA	3	2015 Mid-term Progress Report	Technical report with ground-based measurement data set from Nov 2014 to May 2015 of the Mexican Station as part of the Global Mercury Observation System with all data for measurement.	31/05/2015	JRC Technical reports
														4	Final project report	Final technical report with all ground-based measurement data set from Nov 2010 to Nov 2015 of the Mexican Station as part of the Global Mercury Observation System with all data for measurement	30/11/2015	Scientific and policy reports
89 - REFORM REFORM - Restoring rivers for effective catchment management	The overall aim of REFORM is to provide a framework for improving the success of hydromorphological restoration measures to reach, in a cost-effective manner, target ecological status or potential of rivers. It will develop protocols and procedures to monitor the biological response to hydromorphological change with greater precision, to support the design of programmes of restoration and mitigation measures for the WFD.	JRC.H.1 Wouter VAN DE BUND	1.3.1.a	ENV RTD	RTD	RODRIGUEZ ROMERO Jorge (ENV.C.1)			01/11/2011 31/10/2015	5-Monitoring, verification and surveillance (100%)			COM-IA	2	REFORM report on restoration options	Report on risks associated with different restoration strategies and options analysis	31/05/2015	Scientific and policy reports
														3	Guidelines:cost-effective restoration & mitigation	Guidelines for the planning process and design of cost-effective and hydromorphological relevant restoration and mitigation measures	31/10/2015	Scientific and policy reports
905 - Water4you Water quality for human consumption	Deals with microbial quality of water for human use and biological based risk assessment for the revision of the Water Framework Directive. Provides input to the implementation of alternative methods for the microbiological monitoring for the Drinking Water Directive (DWD) and related directives. Contributes to the identification of priority substances and revision of the list. It explores innovative and existing bioassays as bio-analytical tools for future guidance on monitoring of chemicals	JRC.H.1 Teresa LETTIERI	1.3.1.a	ENV	n/a	Pavel Misiga, Jorge Rodriguez Romero, Helen Clayton (ENV C1), Joachim D'Eugenio, Jeroen Casar (ENV C2)	SANTE	- WORLD HEALTH ORGANIZATION REGIONAL OFFICE FOR EUROPE ECHA - European Chemicals Agency (ECHA) EEA - European Environment Agency EFSA - European Food Safety Authority EMA - European Medicines Agency (EMA) ENV EU - Environmental authorities of the Member States and Candidate Countries	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		1754 - RoPS Review of the Priority Substances list and setting of Environmental Quality Standard under the WFD 959 - MICROCCKIT Microbial Community-based sequencing linked to anthropogenic pressures to address water quality	INS-RS	1	Priority Substance list revision of the WFD	The policy documents Annex II and III of the Drinking Water Directive will be revised to adapt the monitoring (Annex II) and the microbiological and chemical parameter specification (Annex III) to the scientific development. JRC contributes by coordinating the meetings with Member State scientific expert groups - drafting the text of the Annexes; presenting the outcome to the DWD Committee, finalizing the documents and contributing to draft the questionnaire on drinking water quality	31/03/2015	Scientific and policy reports
														2	Revision of the Drinking Water Directive (DWD)	The policy documents Annex II and III of the Drinking Water Directive will be revised to adapt the monitoring (Annex II) and the microbiological and chemical parameter specification (Annex III) to the scientific development. JRC contributes by coordinating the meetings with Member State scientific expert groups - drafting the text of the Annexes; presenting the outcome to the DWD Committee, finalizing the documents and contributing to draft the questionnaire on drinking water quality	31/07/2015	JRC contributions to policy documents
														3	Comparability of innovative and existing bioassay	The scientific paper will show the results of the EU-wide campaign exercise for the comparability of innovative and existing bioassay in support to the future needs of water directives. The deliverable will contribute to the harmonization of biological-based tools with a view to developing guidance for and considering the potential impacts of chemical mixtures.	30/09/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	EQS for the new priority substances of the WFD	Report providing key steps and criteria to derive concentrations of the Environmental Quality Standards (EQS) for the new priority substances of the Water Framework Directive (WFD). The report will include risk assessment data and chemical monitoring data to set up the EQS. The data will be used to draft the list for a potentially new Priority Substances Directive to be finalised in 2016.	30/06/2016	Scientific and policy reports
														5	Report on new methods for pathogen detection	The report will summarise the most advanced technologies and their advantages for application in the detection of pathogens for the future implementation in the Drinking Water and related water Directives. The report will be prepared in collaboration with the European Microbiology Expert Group (EMEG) and World Health Organization (WHO). It will contribute to one of the EMG tasks on scientific inputs on the new methods for the microbiological quality of drinking water.	31/12/2015	Scientific and policy reports
														6	Proposal List for the new priority substances	Final report on the outcome of the prioritization exercise process which will include the proposal of candidate substances for the new priority substances list.	30/09/2016	Scientific and policy reports
959 - MICROCCKIT Microbial Community-based sequencing linked to anthropogenic pressures to address water quality	MicroCokit, a close collaboration of academic groups with pan-European governmental laboratories and leading private enterprise, has been conceived to foster the transfer of knowledge among the partners with the final goal to bring to market faster, more sensitive and robust tools as bioindicators of water quality. The indicators will be developed as 1) Microbial community based bioindicator; ii) Pathogen indicator; iii) Early warning bioindicators for bacteria, cyanobacteria and diatoms.	JRC.H.1 Teresa LETTIERI	1.3.1.a	ENV RTD	RTD	Giuliana DONINI (REA)		- RESEARCH EXECUTIVE AGENCY - AGENCE	01/06/2013 31/05/2017	5-Monitoring, verification and surveillance (100%)	905 - Water4you Water quality for human consumption	COM-IA	1	Workshop: "From idea to Entrepreneurship"	Report on workshop organised by JRC on "From idea to Entrepreneurship" to stimulate the interests of young generation to research and entrepreneurship. Speakers from academia and industries will explain how a conceived idea can then contribute to the market.MICROCCKIT will be one of this example.	31/10/2015	Scientific and policy reports	
													2	Microbial community based indicators for water	Report describes the characterisation of microbial communities of the river Tiber chosen as pilot study. Water samples are collected from agricultural, industrial and urban areas, differently influenced by anthropogenic pressure. The microbial communities will be analyzed to generate microbial signature profile linked to chemical pollutants.	31/12/2016	JRC Technical reports	
													3	Verification of indicators for water quality	Description of the verification for the microbial community-based indicators by analyzing their presence in different water samples such as those from the Joint Danube Survey campaign (JDS3).	30/10/2017	JRC Technical reports	

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1053 - EURO-FRESHWATERS Futures of European Freshwaters	Supports the Implementation Strategy of the Water Framework Directive and related Directives. It focuses on the development, harmonisation and intercalibration of assessment methods for ecological quality of water bodies and their hydromorphological characterisation. It will assess the economic benefits of water policies and economic losses of non-implementation by carrying out hydro-economic modelling based analyses of current and future water demand, availability, scarcity and quality.	JRC.H.1 Arie DE ROO	1.3.1.a	ENV	n/a	Pavel Misiga (ENV.C.1); Claudia Olazabal (ENV.B.1); Joachin D'Eugenio (ENV.C.2)	REGIO	EEA - European Environment Agency ENV EU - Environmental authorities of the Member States and Candidate Countries	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	1	WFD Ecological Status and intercalibration	Summary report on JRC scientific and technical activities related to ecological status in support of the Water Framework Directive (co-chairing of the Ecological Status working group; intercalibration of ecological status and potential; surface water typologies; web-based information system on ecological assessment methods); outlook on the role of JRC in the WFD CIS work for 2016 onwards. (EX Del 2 +5+6 Project 1061-ECOWATER)	31/12/2015	Scientific and policy reports
														3	Economic analyses of pressures & water allocation	Estimate the economic costs/benefits of alternative water allocation scenarios across various sectors (agriculture, energy, industry, domestic, environment) including ecosystem requirements and valuation of ecosystem services. Support the WG on Economics of the Water Framework Directive and to macro-economic analyses of the European Semester based on river basin case studies and EU-wide assessments	31/12/2015	JRC contributions to policy documents
														4	Integrated nutrient assessment	Report on the modelling-based assessment of integrated nutrient management in European macro-regions. Quantify nitrogen and phosphorus emission pathways to waters under different socio-economic scenarios and determine areas at risk of not achieving environmental objectives set by the various EU policies. Contribute to a strategy for resource-efficient management of the nitrogen and phosphorus cycles including an assessment of cost-effective options and socio-economic costs	30/11/2015	Scientific and policy reports
														5	Intercalibration Exercise Technical Reports	Reports of the technical work of the intercalibration exercise for the assessment of the ecological status and potential of surface waters. (EX Del 3 Project 1061 ECOWATER)	30/06/2016	Scientific and policy reports
														6	Hydromorphology assessment for river management	Report and publication(s) on the development and testing in regional case studies of new methodologies for describing hydromorphological state and impact on ecological status of rivers, as a supportive element in the implementation of the WFD river basin management plans and the development of guidelines.	30/06/2016	Scientific and policy reports
														7	Hydro-economic analyses of water supply and demand	Assessment of water allocation for European river basins, evaluating the balance between sectoral water demand and supply in light of increasing water scarcity & climate adaptation options, accounting for ecosystem requirements and including modelling of provisioning of freshwater ecosystem services. Contributes to the assessment of the second cycle of Water Framework Directive River Basin Management Plans. Link established with the EEA water accounts.	31/07/2016	Scientific and policy reports
														8	Annex to Commission Decision on intercalibration	Draft Annex to Commission Decision on intercalibration: WFD Intercalibration Exercise: Annex for an updated Commission Decision establishing, pursuant to Directive 2000/60/EC of the European Parliament and of the Council, the values of the Member State monitoring system classification as a result of the intercalibration exercise. (EX Del. 4 Project 1061 ECOWATER)	31/12/2016	JRC contributions to policy documents
														1720 - EARTH2OBSERVE Global Earth Observation for integrated water resource assessment	Earth2Observe will integrate available global earth observations (EO), in-situ datasets and models and will construct a global water resources re-analysis dataset of significant length (at least 30 years). The resulting data will be made available through an open Water Cycle Integrator data portal and will allow for improved insights on the full extent of available water and existing pressures on global water resources in all parts of the water cycle.	JRC.H.1 Arie DE ROO	1.3.1.a	ENV RTD
42	Report on precipitation error modelling	Report on precipitation error modelling	30/06/2016	Scientific and policy reports														
52	Tier2 version global 0.1 hydrological reanalysis	Tier2 version of JRC global 0.1 degree hydrological model reanalysis 1950-2012	28/02/2018	Scientific information systems and databases														
1727 - MARS Managing Aquatic ecosystems and water Resources under multiple Stress	Supporting managers and policy makers in implementing the Water Framework Directive (WFD), related legislation and the Blueprint to Safeguard Europe's Water Resources by conducting new research and synthesising existing knowledge on effects and management of multiple stressors in surface water and groundwater bodies; by advising the 3rd River Basin Management Programme (RBMP) cycle and the revision of the WFD and by developing new integrated tools for diagnosing and predicting multiple stressors	JRC.H.1 Ana CARDOSO	1.3.1.a	ENV RTD	RTD	Federico NOGARA (RTD I3)			01/02/2014 31/01/2018	7-Scientific, technical & policy consultancy (100%)			COM-IA	21	Cook-book for ecosystem service assessment	Cook-book for ecosystem service assessment and valuation in European water resource management	01/02/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														51	Impact of multi-stressors on ecosystem services	Effects of multi-stressors on ecosystem services and on their monetary value	01/08/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1734 - SOLUTIONS Solutions for present and future emerging pollutants in land and water resources management	Aims to produce consistent solutions for the large number of legacy, present and future emerging chemicals posing a risk to European water bodies with respect to ecosystems and human health. It will deliver a conceptual framework for evidence-based development of environmental & water policies. JRC will coordinate the development of an Integrated Data Portal (IDPS) to identify links between exposure and epidemiological data, to explore potential biological effects and lead to improved health.	JRC.H.1 Bernd GAWLIK	1.3.1.a	ENV RTD	RTD	Pavel MISIGA (ENV.C.1)	SANTE		01/10/2013 30/09/2018	2-Information systems & services (100%)			COM-IA	2	Integrated Data Portal for SOLUTIONS	The Integrated Data Portal hosts the knowledge-base of the entire consortium and ensures the linkage between compound and structure-specific (UJZ), site-specific geo-referenced (EI), receptor-specific (species traits, species interactions), and spatial data (population and demography, land-use pattern, geology, soil types, hydrology, climate etc.) (Deltares). While sectorial aspects need to be embedded into a database, it is key to obtain an infrastructure allowing also sub-structure searches.	30/09/2018	Scientific information systems and databases
1742 - BEWATER Making society an active participant in water adaptation to climate change	BeWater uses an iterative process of mutual learning, participatory techniques and a bottom-up approach to ensure that stakeholders play an active role in determining appropriate strategies for management of river basins. It involves society in discussions on current water uses and their related problems, raising public awareness of the importance of sustainable water management, with particular focus on the expected climate change impacts at River Basin scale.	JRC.H.1 Cesar CARMONA MORENO	1.3.1.a	ENV RTD	RTD	Birgit de BOISSEZON (RTD I.3.); Pavel MISIGA (ENV.C.1)	ECHO ENV		01/09/2013 28/02/2017	1-Foresight studies & techniques (60%) 2-Information systems & services (20%) 7-Scientific, technical & policy consultancy (20%)			COM-IA	1	Final report	Final evaluation of the methodology and implementation process: This report will include the in depth evaluation of the project methodology and implementation process with the contributions of all the actors involved in the project. (WP8 D8.1)	31/05/2017	Scientific and policy reports
														4	Third report of the internal observer	Third report of the internal observer: 3rd annual interim report to the partners (WP8 D8.4)	31/12/2015	Scientific and policy reports
														5	Data compilation and harmonization protocol	Protocol for data compilation and harmonization to guarantee spatial and temporal homogeneity emphasising the compulsory data necessary to define water management options. This data includes thematic cartography, metadata and climatic projections, hydrological and water quality information, demography, water uses, socio-economy, agriculture and natural systems, global change impacts, legislation and gender. (WP2 D2.3)	31/03/2015	JRC Technical reports
1754 - RoPS Review of the Priority Substances list and setting of Environmental Quality Standard under the WFD	Article 16 of the Water Framework Directive (WFD) requires the establishment of a list of Priority Substances (PS) and Priority Hazardous Substances (PHS) presenting a significant risk to the health of the aquatic organisms as well to human health via aquatic route (e.g. drinking water sea food consumption). Review of the Priority Substances list and setting of Environmental Quality Standards (EQSs) under the WFD (RoPS) will provide scientific expertise to coordinate the process.	JRC.H.1 Teresa LETTIERI	1.3.1.a	ENV	ENV	Helen CLAYTON, Helen.CLAYTON@ec.europa.eu; Jorge RODRIGUEZ ROMERO, Jorge.RODRIGUEZ-ROMERO@ec.europa.eu	GROW SANTE	ECHA - European Chemicals Agency (ECHA) EEA - European Environment Agency EFSA - European Food Safety Authority	15/12/2013 14/06/2016	7-Scientific, technical & policy consultancy (100%)			COM-AA	3	Revision of the substance dossiers for EQS	The substance dossiers containing EQS will be revised following collaboration and consultation with experts under WG Chemical and particularly taking into account the Opinion of the Scientific Committee on Health and Environmental Risks (SCHER).	30/09/2015	Scientific and policy reports
														4	Report on the review of the EQS of existing PS	The designation of existing PS/PHS and their EQS will be reviewed on the basis of new scientific information including new risk assessments under the Chemicals, Biocidal Products and Plant Protection Product legislation	31/12/2015	Scientific and policy reports
														5	Summary report of the outputs from the work	the report will provide a summary of the overall project highlighting the strategy, results and outcome.	30/06/2016	Scientific and policy reports

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1756 - GLOBAQUA Managing the effects of multiple stressors on aquatic ecosystems under water scarcity	GLOBAQUA is seeking the understanding of stressors interactions, species interactions, species-stressor relationships and impacts on the ecological functioning, stability and resilience of the aquatic ecosystems in order to implement water policy and optimal decision making in water resources management under complex multiple stress conditions.	JRC.H.1 PETER ANDREAS BUREK	1.3.1.a	ENV RTD	RTD	Peter GAMMELTOFT (ENV)	CLIMA		01/02/2014 31/01/2019	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	111	Calibrated integrated dynamic model	D11.1 Subdeliverable (JRC) Calibrated integrated dynamic model for four case studies (Ebro, Sava, Evrotas, Adige) in deliverable: 004 Importance of ecosystem services to the economy and socio-economic development	31/01/2016	Scientific information systems and databases
														112	Evaluation of uncertainties and hydro. indicators	D11.2 Qualitative evaluation of uncertainties and hydrological indicators in 007 Ecosystems valuation and stakeholders perception	31/01/2017	Scientific information systems and databases
														113	Indicators	D11.3 Indicators which are sensitivity and correlation to biodiversity and water scarcity on different scales communicated as maps and tables In: 011 Linking the effects of chemical quality and environmental stressors on biodiversity	31/07/2017	Scientific information systems and databases
														114	Optimum of alternative management strategies	D11.4 Optimum of alternative management strategies communicated as maps and tables In: 012 Policy recommendations	31/01/2018	Scientific information systems and databases
														115	Evaluation and upscaling	D11.5 Evaluation of indicators of biodiversity and water scarcity as results of a 5x5km resolution upscale to a pan-European scale in comparison with results from the case study basins In: 016 Final integrated models at the basin scale	31/07/2018	Scientific information systems and databases
1981 - IMEP Marine International Measurement Evaluation Program	The International Measurement Evaluation program (IMEP) organises interlaboratory comparisons (ILCs) in support to EU policies. Measurements need to be reliable, traceable and comparable in order to support legislation and regulations, establish international trade conditions and to secure quality. IMEP enables laboratories to assess their measurement performance and demonstrate their competence on a high quality level to accreditation, authorisation and inspection bodies and to their customers.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.3.1.a	ENV	n/a	Helen Clayton (ENV C.1)		APLAC - Asia Pacific Laboratory Accreditation Co-operation EA - European co-operation for Accreditation IAAC - IAAC-Inter American Accreditation Co-operation	01/01/2015 31/12/2015	5-Monitoring, verification and surveillance (100%)			INS-RS	1	IMEP-42: Brominated flame retardants in sediment	Report to the participants in a proficiency test for the determination of brominated flame retardants in sediments in support to the Water Framework Directive (WFD).	31/12/2015	Scientific and policy reports
2321 - PL: FATE-Nitrates Planned: Implementation of the Nitrates Directive and associated Vulnerable Zones	Implementation of the Nitrates Directive and associated Vulnerable Zones [in progress]	JRC.H.1 Faycal BOURAOUI	1.3.1.a	ENV	ENV	Alia Attar de la Fuente; Andrea Vettori (ENV B1)	RTD		01/01/2015 31/12/2017	7-Scientific, technical & policy consultancy (100%)			COM-AA	n/a	n/a	n/a	n/a	n/a
1.3.1.b Develop the knowledge base for assessing oceans and coastal environments for marine policy, in particular the Marine Strategy Framework Directive.																		
82 - PERSEUS Policy-oriented marine Environmental Research in the Southern European Seas	The overall scientific objectives of PERSEUS are to identify the interacting patterns of natural and human-derived pressures on the Mediterranean and Black Seas, assess their impact on marine ecosystems and, using the objectives and principles of the Marine Strategy Framework Directive as a vehicle, to design an effective and innovative research governance framework based on solid scientific knowledge. This research governance framework will engage scientists, policy-makers and the public.	JRC.H.1 Georg HANKE	1.3.1.b	ENV RTD	RTD	Astrid SCHOMAKER (ENV); Joachim DEUGENIO (ENV)			01/01/2012 31/12/2015	4-Methods and testing (15%) 5-Monitoring, verification and surveillance (15%) 7-Scientific, technical & policy consultancy (70%)			COM-IA	3	Assessment elements for promotion of MSFD	The aim of this task is the application of the common methodological standards defined by the synthesis of outcomes from Tasks 5.1.2 and 5.2 on the data of the selected non-EU case studies compiled under Task 5.2 for an initial environmental status assessment in these areas.	31/10/2015	JRC Technical reports
														5	Policy Brief issued and presented to policy-makers	The core sections of the policy brief include the Evidence and Analysis section which essentially sets out what new knowledge PERSEUS brings and on this basis, states the policy implications & recommendations in clear, simple language.	31/12/2015	Scientific and policy reports
141 - DEVOTES Innovative tools for understanding marine biodiversity & assessing good Environmental Status	The project will test indicators proposed by the Marine Strategy Framework Directive and develop new ones for the assessment of Good Environmental Status (GES) at the species, habitat and ecosystem level. A classification scheme of European marine waters will be developed, integrating the indicators into a unified assessment of the biodiversity, taking into account the cost-effective implementation of these indicators (i.e. by defining monitoring and assessment strategies).	JRC.H.1 Nicolas HOEPEFFNER	1.3.1.b	ENV RTD	RTD	Astrid SCHOMAKER (ENV); Joachim DEUGENIO (ENV)			01/11/2012 31/10/2016	4-Methods and testing (25%) 7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (25%)			COM-IA	4	Key barriers of achieving GES	Report on the key barriers of achieving GES: Based on tasks 2.3.1 and 2.3.2, this deliverable will identify the social, economic and legislative barriers to the achievement of GES.	30/04/2015	Public information documents
														6	Criteria for good indicators selection	Report on the criteria for good indicators selection: Related to Objective 3.2, the report will contain analysis of the reproducibility, range and responsiveness to anthropogenic pressures, linearity, spatial and temporal scale of the proposed biodiversity GES indicators. Good indicators need to specify known spatial/temporal changes in the biodiversity along a known pressure gradient. These indicators also require other attributes which will be revisited and agreed.	31/01/2015	Public information documents
														7	Report describing spatial ecosystem models	This deliverable addresses the likely need for Member States to monitor a subarea of a much larger regional sea. It will build on work done in WP3. Methodological assessments will be investigated with particular focus to understand how WFD assessments can be taken up at larger scales in marine waters; and also to explore assessment methods based on systems rather than geographical units. Additionally, approaches like the Biological Traits Analysis and ecosystem connectivity will be addressed.	31/08/2015	Public information documents
														8	Analysis of reference levels for indicators	Report on the analysis of reference levels for indicators of biodiversity for selected pilot areas: This deliverable is related to task 4.2.2 and will be conducted where suitable ecosystem models exist (e.g. North Sea, Mediterranean Sea). The potential reference / target levels will be modelled based on the present ecosystem state, human pressure (e.g. fishing effort by fleet) and climate. Model forecasts will then be analysed according to different scenarios.	31/10/2015	Public information documents
268 - MSFD 2013 -14 Implementation of Good Environmental Status of the seas and other aspects of the EU MSFD	Support and coordination of the Working Group on Good Environmental Status, contribution to assessing Member States' reports, guidance on monitoring requirements linking the assessment framework between Marine Strategy Framework and Water framework Directives, identification of emerging pressures to the marine environment, development of a marine model toolbox and of methodological standards that must contribute to the revision of Commission's Decision and specific tasks on certain descriptors	JRC.H.1 Francesca SOMMA	1.3.1.b	ENV	ENV	Astrid SCHOMAKER; Joachim DEUGENIO	RTD		01/01/2013 01/04/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	7	Draft recommendations to amend COM Dec	Draft recommendations to amend Commission Decision of 1 September 2010 on criteria and methodological standards on good environmental status of marine waters (2010/477/EU).	01/04/2015	Scientific and policy reports
														10	Final report	Detailed final report of all the activities completed	01/04/2015	Scientific information systems and databases

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1081 - SEACOAST Monitoring, modelling and assessment of environmental status of marine and coastal waters	The project assists in implementing the environmental objectives of the Marine Strategy Framework Directive. It will contribute to the development of Marine Knowledge through the implementation of the Marine Competence Centre on Good Environmental Status. It will assess the marine environment through targeted modelling and monitoring activities, including modelling impacts e.g. from Blue Growth industries and from multi-stressors, and the deployment of ocean information systems.	JRC.H.1 Ana CARDOSO	1.3.1.b	ENV	n/a	Joachim D'Eugenio, DG ENV-C2	DEVCO RTD	BSC - COMMISSION ON THE PROTECTION OF THE BLACK SEA AGAINST POLLUTION EEA - European Environment Agency HELCOM - Baltic Marine Environment Protection Commission/ Helsinki Commission (HELCOM) OSPAR - Commission for the Protection of the North-East Atlantic Oslo-Paris Convention (OSPAR) UNEP MAP - Barcelona Convention for the Protection of the Mediterranean Sea Against Pollution (United Nations Environment Programme for the Barcelona Convention)	01/01/2014 31/12/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)		1007 - LUISA Application of the LUISA Modelling Platform to Regional Policies and Territorial Cohesion 977 - OpenData Open Data, Knowledge & Information Management 2147 - BES Biodiversity and Ecosystem Services 2300 - ASBIO Global Biomass Assessment	INS-RS	1	Marine Competence Centre follow-up report	Follow-up report on progress achieved in the implementation of the Competence Centre for research and scientific support on criteria and methodological standards of Good Environmental Status (GES) and their interregional coherence supporting the Marine Strategy Framework Directive (MSFD), building on existing knowledge and ensuring coherence in relation to other policies.	31/12/2015	Scientific and policy reports
														2	Progress report on modelling toolbox	Report on the development of models to inform policy makers on future changes of marine ecosystem functioning, in support to implementation of the MSFD.	28/02/2015	Scientific and policy reports
														3	Criteria for assessment of the marine environment	Scientific and technical advice to the revision of the COM Decision on GES in the context of the JRC MSFD Competence Centre in collaboration with ICES.	31/10/2015	Scientific and policy reports
														4	Report on scenarios for the Mediterranean Sea	Coupling of hydrodynamic, ecosystem lower models to sustain multi-year simulations of future socio-economic and climate scenarios and their impacts on the Good Environmental Status and on the provision of ecosystem services at different scales. Including recommendations for development of the MSFD Competence Centre modelling toolbox.	31/12/2015	Scientific and policy reports
														5	MSFD Competence Centre: knowledge brokerage	Report on development achieved on a module for knowledge brokerage providing targeted advice to the MSFD implementation, monitoring and assessment with consideration to emerging pressures, regional seas, particularly sensitive areas (e.g. Arctic), environmental descriptors.	31/12/2015	Scientific and policy reports
														6	MSFD Competence Centre tools	Implementation and documentation of new modules and tools in EMIS and GMIS to improve their capacity to deliver marine environmental indicators.	31/12/2015	Scientific information systems and databases
														7	Assessment of Marine Pollution and Litter	Technical report to the Marine Directors on the work conducted within the MSFD Competence Centre on Descriptors 8 + 9 regarding chemical contaminants and Descriptor 10 as co-chair of the MSFD technical group on marine litter. The report includes the development of strategic assessment approaches for the marine environment including the European Arctic and the identification of relevant marine contaminant (ex DEL 104+108 Project 1012_CHEMERA)	30/06/2016	Scientific and policy reports
														8	MSFD Competence Centre: Modelling Toolbox	The coupled hydrodynamic, ecosystem lower and higher trophic levels models for multi-year simulations of past and future socio-economic and climate scenarios in the Mediterranean Sea will be delivered. This tool will allow evaluating the impact of policy measures on the Good Environmental Status and on the provision of ecosystem services at different time scales.	31/12/2016	Scientific and policy reports
														9	Review on emerging pressures in European seas	Systematic review of emerging pressures, their expected environmental impacts and implications to the MSFD implementation.	31/12/2016	Scientific information systems and databases
1921 - SAiMaS Scientific Advice on the Implementation of the Marine Strategy Framework Directive	With this project the JRC supports European Commission services to guide the implementation process of the Marine Strategy Framework Directive (MSFD; Directive 2008/56/EC), which is linked to the Common Fisheries Policy. The activity will be pursued under the remit of the Commission Working Group on Good Environmental Status (WG GES) and in close collaboration with the JRC Institute for Environmental Sustainability.	JRC.G.3 Jann MARTINSOHN	1.3.1.b	ENV	n/a	Ms. Anna Cheilari (DG ENV.C.2)	MARE	ICES - International Council for the Exploration of the Sea	01/01/2015 18/12/2015	1-Foresight studies & techniques (40%) 7-Scientific, technical & policy consultancy (60%)		007 - Salmon 2014 - 10 Managing Scientific Advice and Monitoring Fisheries Data (2014/2015) 301 - BluFo5 Blue Growth and Food Security in Fisheries and Aquaculture 302 - SuFiMa Sustainable Fisheries	INS-RS	19211	MSFD Monitoring Program Evaluation	In collaboration with the JRC IES, a final report on the evaluation of the MSFD monitoring programs established by the Member States will be delivered with emphasis on descriptor D3 'Commercially exploited fish and shellfish'.	29/09/2015	Scientific and policy reports
2203 - PL: MSFD 2015-2017 Planned: Implementation of Good Environmental Status of the seas and other aspects of the MSFD [in progress]	The project will contribute to the implementation of Good Environmental Status of the seas and other aspects of the MSFD [in progress]	JRC.H.1 Ana CARDOSO	1.3.1.b	ENV	ENV	Joachim D'EUGENIO	RTD		02/04/2015 01/04/2017	7-Scientific, technical & policy consultancy (100%)			COM-AA	n/a	n/a	n/a	n/a	n/a
2750 - RIMMEL Riverine and Marine floating macro litter Monitoring and Modelling of Environmental Loading	The RIMMEL project will quantify floating macro-litter loads through rivers to marine waters, by collecting existing data, developing a European observation network, deploying a camera system and using the resulting data to build a statistical inverse model of litter loading based on the characteristics (flows, population, economic factors) of the catchments upstream of the observation points. This is the first-ever European-scale quantification of loads of floating litter to the European seas.	JRC.H.1 Georg HANKE	1.3.1.b	ENV	n/a	Joachim D'EUGENIO (ENV.C.2)	RTD	ICPDR - International Commission for the Protection of the Danube River BSC - COMMISSION ON THE PROTECTION OF THE BLACK SEA AGAINST POLLUTION HELCOM - Baltic Marine Environment Protection Commission/ Helsinki Commission (HELCOM) ICPER - International Commission for the Protection of the Elbe River ICPOR - International Commission for the Protection of the Odra River against Pollution (ICPO) OSPAR - Commission for the Protection of the North-East Atlantic Oslo-Paris Convention (OSPAR) UNEP - United Nations Environment Programme (UNEP) UNEP MAP - Barcelona Convention for the Protection of the Mediterranean Sea Against Pollution (United Nations Environment Programme for the Barcelona Convention)	01/01/2015 31/12/2016	5-Monitoring, verification and surveillance (50%) 6-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)	JRC.J.5		INS-ER	1	Interim project report	The report describes the technical development of the riverine litter observation network and the Riverlittercam. It provides the methodologies in detail for use in harmonization work.	18/12/2015	JRC Technical reports
														2	Dataset riverine floating litter input to E. seas	Database of monitoring results after 1 year of data collection. Available data from dams and gates, data from the observation network through the tablet computer application and includes consideration of variability estimates through the Riverlittercam.	16/09/2016	Scientific information systems and databases
														3	Monitoring riverine litter input to marine env.	Scientific publication of the European scale monitoring system set-up and the quantification of riverine macro litter emission into the European Seas.	16/09/2016	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	European Maps of FML emission factors and loads	Raster maps (indicative resolution 1 km ²) relating emission of FML to land use, population, socioeconomic indicators etc. as identified by the model. Raster maps of the loads along the stream network and to the seas estimated with these emission factors. Maps are described in the scientific paper on FML model and will be available for visualization and download and will be disseminated through the Water Portal of Unit H01 and/or JRC data portals and spatial data infrastructure.	15/12/2016	Scientific information systems and databases
														5	Inverse modelling of riverine litter in Europe	A scientific journal paper describing the model concept, parameterization, and verification against the pan-European datasets derived from the monitoring activities of the project.	15/12/2016	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														6	Riverine Litter in Europe - Proposed Guidance for	Riverine Litter in Europe - Proposed Guidance for EU Member States The report compiles the findings of the project and provides a proposal guidance for EU Member States on the monitoring and implementation of measures against the emission of riverine litter for submission to the MSFD CIS.	15/12/2016	Scientific and policy reports
1.3.1.c Support the implementation of the EU 2020 Biodiversity Strategy, including the mapping and assessment of ecosystem services and related pressures, the deployment of a green infrastructure and the development of an invasive alien species information system. Monitor and model biodiversity in the EU and globally, including with regard to restoration targets.																		
90 - BESAFE BESAFE - Biodiversity and Ecosystem Services: Arguments for Our Future Environment	In order to protect biodiversity, policy makers increasingly require demonstration of its value. BESAFE will use case studies to investigate how much importance people attribute to alternative arguments for the protection of biodiversity and in particular how this relates to ecosystem services. It will focus on the arguments used by policy makers at different governance levels and in different ecological, socio-economic, spatial and temporal contexts.	JRC.H.8 JOACHIM MAES	1.3.1.c	ENV RTD	RTD	Birgit de BOISSEZON (RTD I.3.), Patrick Murphy, Anne Teller (ENV.B.2); Arnoldas Milukas (HoU RTD.I.3)			01/09/2011 31/08/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	22	Arguments: establishment of Natura 2000 network	Arguments surrounding the establishment of the Natura 2000 network and the designation of Natura 2000 sites. A multi scale analysis.	01/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
546 - OPENNESS Operationalisation of natural capital and ecosystem services from concepts to real-world application	OpenNESS aims to translate the concepts of Natural Capital (NC) and Ecosystem Services (ES) into operational frameworks that provide tested, practical and tailored solutions for integrating ES into land, water and urban management and decision-making. It examines how the concepts link to, and support, wider EU economic, social and environmental policy initiatives and scrutinizes the potential and limitations of the concepts of ES and NC.	JRC.H.1 JOACHIM MAES	1.3.1.c	ENV RTD	RTD	Birgit de BOISSEZON (RTD I.3.), Patrick Murphy, Anne Teller (ENV.B.2); Arnoldas Milukas (HoU RTD.I.3)	REGIO		01/01/2013 31/12/2016	4-Methods and testing (25%) 7-Scientific, technical & policy consultancy (25%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			COM-IA	101	Guidelines describing the set of methods	Guidelines describing the set of methods for mapping and modelling ecosystem services supply	01/12/2015	JRC Technical reports
														102	Synergies and conflicts	Synergies and conflicts between ecosystem service supply and biodiversity conservation objectives to inform sustainable management practices	01/03/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														103	Wetland construction and restoration case study	Paper reporting results of the case study and the practical advantages and limitations of Ecosystem Service assessment from the practitioners' perspective. The JRC will act as coordinator of the OpenNESS case study cluster on Integrated River Basin Management and lead the case study on wetland restoration.	30/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														104	Development of the OpenNESS Clearinghouse	Clearinghouse gathering information at different regional and administrative levels; provides access to Ecosystem Service users and decision-makers to a tool for designing and testing possible policy implementations in a simulation environment for impact assessment. The JRC will ensure links with the Water Portal of WISE (Water Information System for Europe) and EASIN (European Alien Species Information Network).	30/11/2016	Scientific information systems and databases
1743 - EASIN 2 Strengthening the policy support capacity of the European Alien Species Information Network	Aim 1) ensuring continuity of on-going work for further development of EASIN; 2) ensuring high quality standards in alien species information through establishing and managing an Editorial Board; 3) implementing the INSPIRE rules and protocols to expose geo spatial data; 4) supporting the EU policy in promptly tackling IAS by implementing an Early Warning System; 5) supporting the exchange of information on status, distribution and other relevant information on IAS; 6) enlarging the network	JRC.H.1 Ana CARDOSO	1.3.1.c	ENV	ENV	Valentina Bastino			13/12/2013 12/03/2015	7-Scientific, technical & policy consultancy (100%)		2147 - BES Biodiversity and Ecosystem Services	COM-AA	12	Final Report	Project final report.	15/03/2015	Scientific and policy reports
														41	Early Warning Rapid Response system	online operational platform to support the Early Warning - Rapid Notification system of the new Regulation on IAS, including the sharing of information on the status, distribution and other relevant information on IAS (management techniques, action plans), and supporting the reporting required under the IAS Regulation.	15/03/2015	Scientific information systems and databases
														51	Status of the EASIN network	a section of the interim and the final reports devoted to tackling stock of the partners (data providers, Members States) and their status	15/03/2015	Scientific and policy reports
														52	Data brokers software	data brokers software to allow indexing data resources of each new partner	15/03/2015	Technical systems
														53	Functionality to receive spatial data	functionality to receive spatial data from MS	15/03/2015	Technical systems

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
2147 - BES Biodiversity and Ecosystem Services	Biodiversity loss and ecosystem service degradation are critical threats to economic, social, cultural and physical wellbeing. Halting such loss is central to the EU biodiversity strategy to 2020. The project assesses, monitors and forecasts biodiversity and ecosystem services. Project results will provide direct access to information with which to judge progress in EU biodiversity 2020 targets at European and global scales and will contribute to the mid-term review of the strategy.	JRC.H.5 Gregoire DUBOIS	1.3.1.c	ENV	n/a	Francois Wakenhut, DG ENVIRONMENT, Biodiversity Unit. Francois.wakenhut@ec.europa.eu	AGRI CLIMA DEVCO ECHO REGIO	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EEA - European Environment Agency UN CBD - UN Convention on Biological Diversity UNEP - United Nations Environment Programme (UNEP)	01/01/2015 31/12/2015	2-Information systems & services (60%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)	JRC.H.1 JRC.H.3 JRC.H.4 JRC.H.6 JRC.H.8		INS-RS	1	Web-services for Biodiversity & Ecosystem Services	Web-services for assessing, monitoring and forecasting biodiversity and ecosystems are developed according to the standards of the Common OpenData Catalogue and MIDAS. This includes databases, analytical and processing tools that support marine ecosystem assessment, reporting of invasive species, protected area management and mapping and assessing ecosystem services. Web services will be interoperable for reuse by third parties (i.e. EEA and BISE, CBD, ...). Lead unit: H.05	31/12/2015	Scientific information systems and databases	
														2	Digital Observatory for Protected Areas V1.5	Access to information on current status of biodiversity and ecosystem services in the context of Protected Areas (incl. Natura 2000 in the EU) is provided via a web-based GIS. Information includes quantitative analysis of biodiversity loss, threats to protected areas (current and planned) and evolution under different environmental scenarios. Lead unit: H.05	31/12/2015	Scientific information systems and databases	
														3	Services for Invasive Species: EASIN	EU-wide inventories from the European Alien Species Information Network will be supported through the development and establishment of reporting protocols and associated databases (EASIN catalogue, received data). An early warning and rapid notification system prototype will be built also exploring the possibility of re-engineering using the JRC developed technology that underpins DOPA (see deliverable 2 above). Links with BISE will be reinforced. Lead unit: H.01	31/12/2015	Scientific information systems and databases	
														4	Services for Mapping and Assessment of Ecosystems	The analytical framework for the mapping and assessment of ecosystems and their services will be tested and further developed with regard to broad ecosystem types: agro-ecosystems (cropland and grassland), forest ecosystems, freshwater ecosystems (rivers, lakes and wetlands), and marine ecosystems, and urban. Lead Unit: H.08	31/12/2015	Scientific information systems and databases	
														5	Services for marine biodiversity	To further support the development of web services for characterizing, mapping and collecting information about biodiversity and their associated ecosystems with a focus on marine environment. Much of the information about the marine environment is distributed across units and institutes and a new data portal would allow to make the scattered information accessible through one entry point. [EU Biodiversity Strategy Action 18, Target 11, CBD]	31/12/2015	Scientific information systems and databases	
														6	Fragmentation and Connectivity of Ecosystems and G	Enhancing connectivity within any given ecosystem will help maintain its services and biodiversity. This service will document current levels of connectivity and fragmentation within a defined range of ecosystems. Contribution to target 2, action 6 of EU Biodiversity Strategy. Lead unit: H.03	31/12/2015	Scientific information systems and databases	
														7	Agricultural lands and Green Infrastructure	EU wide assessment of the contribution of agricultural lands to the establishment of the Green Infrastructure. Contribution to Target 3 of the EU Biodiversity Strategy to 2020. Lead unit: H.04	31/12/2015	Scientific information systems and databases	
														8	Global Atlas of Soil Biodiversity	The need for a better understanding of the role of soil biology in sustaining vital soil functions and ecosystems is increasingly recognised. A Global Atlas of Soil Biodiversity will be produced through a network of experts and through synthesize existing knowledge of soil organisms, to map potential/likely spatial occurrence of soil biodiversity. Lead unit: H.05	30/10/2015	Scientific information systems and databases	
														9	Benefits-costs: investing in ecosystem restoration	This deliverable aims at providing an assessment of the 15% restoration target under the EU Biodiversity strategy. Restoration brings also costs, which will be quantified. Based on an assessment of benefits and costs, the objective is to prioritize cost effective restoration in Europe. This deliverable mainly contributes to Action 6 of the biodiversity strategy. Lead unit: H.08	30/09/2015	Scientific and policy reports	
														10	Mapping and assessment of urban ecosystem services	This deliverable will provide guidance to Member States on mapping urban ecosystem services. The work will be developed with partners of the MAES working group and will test the MAES analytical framework for cities and peri-urban areas in line with Action 5 of the EU Biodiversity Strategy. Lead unit: H.08	31/12/2015	Scientific and policy reports	
3061 - PL: EASIN 3 PLANNED: Technical support to the implementation of the European Regulation on Invasive Alien Species	The project will: 1) provide scientific support and tools assisting DG ENV and MS in handling relevant notifications (species detection, eradication measures and effectiveness of measures) as required by the new regulation on IAS; 2) further develop mechanisms for exchanging information; 3) generate knowledge required for the proper implementation of the Regulation, e.g. knowledge on eradication and management measures and their effectiveness, in collaboration with relevant partners.	JRC.H.1 Ana CARDOSO	1.3.1.c	ENV	ENV	Valentina BASTINO (ENV.B.2)		01/12/2015 30/11/2016	7-Scientific, technical & policy consultancy (100%)				COM-AA	1	Final Report	Project final report	30/11/2016	Scientific and policy reports	
1.3.1.d Further develop information systems on forests and forest fires. Analyse and model forest resources to promote their sustainable management and use. Implement the EU Forest Strategy.																			
83 - INTEGRAL INTEGRAL-Future-oriented integrated management of European forest landscapes	Objectives To identify and understand ecological, socioeconomic and political factors (barriers and drivers) and links as regards integrated forest management at landscape level; 2.To explore alternative future developments of the aforementioned factors and their interplay, then to quantify and evaluate their implications for nature and society; 3. To propose recommendations for new coherent policy and socioeconomic frameworks, consistent policy instruments and management strategies.	JRC.H.3 Jesus SAN-MIGUEL-AYANZ	1.3.1.d	ENV RTD	RTD	Ciaran MANGAN (RTD F3)	CLIMA ECHO		01/11/2011 31/10/2015	2-Information systems & services (100%)				COM-HA	n/a	n/a	n/a	n/a	n/a
136 - TREES4FUTURE Designing trees for the future	Large-Scale Forestry Infrastructure aims at establishing a clearing house with GIS functionalities for forestry research data and Improving the compatibility of four existing European forest dynamics models. Models are made compatible as far as possible, and are developed in such a way that they are able to use the databases resulting from network activities and research activities from earlier phases of the project. The further development will also allow cross validation of models.	JRC.H.3 Jesus SAN-MIGUEL-AYANZ	1.3.1.d	ENV RTD	RTD	Ciaran MANGAN (RTD F3)			01/12/2011 30/11/2015	2-Information systems & services (100%)			COM-HA	1	Deliverable 1	Report of WP9 on Establish a Clearinghouse with GIS functionality for research data	28/02/2015	Scientific and policy reports	
														2	Deliverable 2	Final report WP10 on Developing modes of compatibility of modeling tools	15/11/2015	Scientific and policy reports	
234 - EU HFI EU HARMONISED FOREST INFORMATION	The project will focus on: 1. Development of a 3-year work plan for a pilot data collection scheme for forestry; 2. Selection of relevant variables on the basis of the "Final report of the Adhoc WG of the Standing Forestry Committee on Forest Information in the EU" and establishment of a database of physical variables; 3. Development of specific modules for forest biodiversity, forest carbon balance and climate, and forest biomass, and 4. Prototyping a European forest information system.	JRC.H.3 Jesus SAN-MIGUEL-AYANZ	1.3.1.d	ENV	ENV	Ernst Schulte ENV B1	AGRI CLIMA ENER GROW RTD		19/12/2012 18/12/2015	2-Information systems & services (35%) 4-Methods and testing (35%) 7-Scientific, technical & policy consultancy (30%)			COM-AA	11	Deliverable 1.1. Work plan for the collection of c	Deliverable 1.1. Work plan for the collection of climate change related forest information in Europe, development of a comprehensive database and applications.	15/12/2015	Scientific and policy reports	
														21	Deliverable 2.1. Gap analysis on the availability	Deliverable 2.1. Gap analysis on the availability of essential data in the existing European databases.	16/12/2015	Scientific and policy reports	
														22	Deliverable 2.2. Database of physical variables re	Deliverable 2.2. Database of physical variables related to selected forest-related applications (e.g. forest health and vitality, forest biomass, forest biodiversity, etc.)	16/12/2015	Scientific information systems and databases	
														31	Deliverable 3.1. Report and database of a specific	Deliverable 3.1. Report and database of a specific module on forest biodiversity, and forest health and vitality.	18/12/2015	Scientific information systems and databases	
														32	Deliverable 3.2. Report and database of a specific	Deliverable 3.2. Report and database of a specific module on forest carbon balance, climate impacts on forests and adaptation.	18/12/2015	Scientific information systems and databases	
														33	Deliverable 3.3 Report and database of a specific	Deliverable 3.3 Report and database of a specific module on forest biomass, forest products and bio-economy related variables	15/12/2015	Scientific information systems and databases	
														41	Deliverable 4.1. JRC/ENV Technical report on the i	Deliverable 4.1. JRC/ENV Technical report on the impact of changes on forest species distribution and forest suitability according to climate change on European forests.	31/10/2015	JRC Technical reports	
														42	Deliverable 4.2. JRC/ENV Technical report on the a	Deliverable 4.2. JRC/ENV Technical report on the assessment of potential changes on biomass availability under foreseen climate change scenarios.	31/10/2015	JRC Technical reports	
														43	Deliverable 4.3. JRC/ENV Technical report assessin	Deliverable 4.3. JRC/ENV Technical report assessing the potential spread of most critical forest pest species in Europe under climate change scenarios.	15/11/2015	JRC Technical reports	
														44	Deliverable 4.4. Prototype of an European Forest I	Deliverable 4.4. Prototype of an European Forest Information System (EFIS) including web application systems and services that would enable the interoperability with other relevant EC services (e.g. EFDAC).	16/12/2015	Scientific information systems and databases	

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927 - FISE Forest Information System for Europe	The overall goal of FISE is: (i) to generate harmonized European-wide information on the state and services of forests ecosystems, including forest resources, health and vitality, biomass, fragmentation and fires; (ii) to coordinate and integrate diverse information systems and data platforms into a dynamic modular system combining data and models into applications. Together, these will provide accurate forest information and applications for policy decision makers and the European citizen.	JRC.H.3 Jesus SAN-MIGUEL-AYANZ	1.3.1.d	ENV	n/a	Ernst Schulte (ENV.B1), Juha Auvinen (ECHO.B1)	AGRI CLIMA ECHO ENER GROW RTD	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) Civil Protection EU - Civil Protection Services in Member States EEA - European Environment Agency EFSA - European Food Safety Authority Fo Fi Serv - Forest and forest fire services in the MS MCPFE - Ministerial Conference for the Protection of Forests in Europe (MCPFE) UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE	01/01/2014 31/12/2016	2-Information systems & services (30%) 7-Scientific, technical & policy consultancy (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)	JRC.G.2		INS-RS	23	Analysis: selected cases of abiotic forest damages	Report on the analysis of current and potential spread of selected forest tree pests in Europe as case studies for the implementation of the FISE Forest Disturbances Module.	15/10/2015	Scientific information systems and databases
														24	EFDM non-even aged forest module	European Forestry Dynamics Model for the analysis and modeling of non-even aged forests in Europe	22/12/2015	Scientific information systems and databases
														25	European Forest Bureau Network	Feasibility analysis of a European Forest Bureau Network (EFBN) supporting the establishment of the Forest Information System for Europe and the collaboration with the national forest services in the countries.	18/12/2015	Scientific and policy reports
														26	Integration of EFFIS and Copernicus Early Warning	Integration of EFFIS and Copernicus Early Warning Systems and Services	31/12/2015	Scientific information systems and databases
														27	Scientific Publications	Scientific Publications	15/12/2015	Article contribution to other periodicals
														31	Prototype FISE-Forests & Climate Change module	This module will integrate data and models related to the assessment of effects of climate change (cc) on forests, including potential changes in forest fire regimes and shifts of tree species distribution and species suitability. Models in the module will analyse the environmental impacts of cc, the potential for cc adaptation as well as the effects of cc on the sustainable provision of forest ecosystem services.	24/11/2016	Technical systems
														32	Prototype FISE-Forest Bioeconomy module	Prototype of the FISE-Forest Bioeconomy module supporting the study of on the long-term sustainability of EU forests and their contribution to the development of the EU Bio-economy. The module will include all the required models and datasets that enable the assessment of impact of forest related policies in European forests as well as the elaboration of forest sector outlook studies.	01/12/2016	Scientific information systems and databases
														33	Prototype FISE-Ecosystem Services module	The FISE-Ecosystem Services module will incorporate data, systems and models that permit the assessment and valuation of ecosystem services as well as the assessment of the sustainable production of these services by forests; work will be performed in close collaboration with European and international partners such as the US Forest Service.	15/12/2016	Technical systems
														34	FISE Forest Disturbances Module	Prototype of the FISE Forest Disturbances Module	30/11/2016	Scientific information systems and databases
														35	Forest fire emergency service module	Integration of high resolution products from Copernicus into EFFIS.	31/12/2016	Scientific information systems and databases
36	Scientific publications	Scientific publications	15/12/2016	Article contribution to other periodicals														
1351 - SIMWOOD Sustainable Innovative Mobilisation of Wood	To promote a combined approach to multifunctional forestry and collaborative wood mobilization across European forest types & model regions a pan-European monitoring and policy support system (SIMWOOD MOBILISER) will be developed, which 1) evaluates the impact of accomplished novel technologies, initiatives and support programs in the regions for their relevance within the broader EU context, and 2) ensures a successful adaptation, transfer and uptake of integrated wood mobilization solutions	JRC.H.3 Jesus SAN-MIGUEL-AYANZ	1.3.1.d	ENV RTD	RTD	Astrid GUIFFART (RTD)		01/11/2013 31/10/2016	2-Information systems & services (85%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (15%)			COM-IA	1	SIMWOOD Mobilizer	SIMWOOD Mobilizer. The 'SIMWOOD MOBILISER' (SM) is a prototype of a European information system built of a knowledge base that integrates the relevant information and findings of the case studies and flagship initiatives. It includes an expert system capable of performing a cross-regional evaluation, comparison of results and simulation of the impacts of the proposed integrated wood mobilisation solutions (IWMS).	30/06/2016	Scientific information systems and databases	
1750 - FOREST PROTECTION V Forest Protection V	The project has been established to support the activities of DG ENV through the development of harmonized information on forest resources in Europe and the operation of environmental modules in EFFIS. In particular the work will focus on the analysis of impact of forest fires in the Natura2000 network and the estimation of forest fire emissions; furthermore, the work around EFFIS is complemented by the support in the organization of the meetings of the Expert Group on Forest Fires	JRC.H.3 Jesus SAN-MIGUEL-AYANZ	1.3.1.d	ENV	ENV	SCHULTE Ernst	AGRI ENER GROW RTD SANTE		01/03/2014 31/08/2015	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)			COM-AA	11	EFFIS maintenance and EGFF meetings	EFFIS maintenance and EGFF meetings	31/08/2015	Technical systems
														13	Forest Fires & Natura2000	Forest Fires & Natura2000 report	31/08/2015	JRC Technical reports
														14	Report on 2013 emissions from forest fires	Report on 2013 emissions from forest fires	31/08/2015	JRC Technical reports
														21	FISE prototype	Development and testing of a first prototype web interface for the Forest Information System for Europe (FISE)	31/08/2015	Technical systems
														22	Annual biomass increment	Specific JRC/ENV Technical Report on annual increment of forest biomass in Europe	31/08/2015	JRC Technical reports
23	Forest tree pest risk analysis	Specific JRC/ENV Technical Report on the analysis and use of forest tree species information for pest risk analysis	31/08/2015	JRC Technical reports														
2022 - PL:Forest Protec VI Planned: Forest Protection VI	Further elaboration of the FISE, creation of the EFB, i.e. further development of the Preparatory Action of the future harmonised forest information system, re-structuring of the Commission expert group on forest fires towards a Commission expert group on forest information and possible organisation of an expert group on forest health Cooperation with the Member States to find common grounds as regards collection and harmonization of data and forest information in several fields	JRC.H.3 Jesus SAN-MIGUEL-AYANZ	1.3.1.d	ENV	ENV	Schulte, E.		15/01/2015 15/01/2016	2-Information systems & services (100%)		927 - FISE Forest Information System for Europe	COM-AA	n/a	n/a	n/a	n/a	n/a	
1.3.1.e Measure, model and monitor land and soil degradation and desertification in the EU and globally, including through the Global Soil Partnership. Support the Land Communication and the impact assessment of new legislative proposals. Implement the EU soil thematic strategy. Further develop the soils information system to include analysis of the LUCAS 2015 soil samples, soil quality assessment, spatial modelling of soil properties, soil ecosystem services, and biodiversity.																		
80 - CASCADE CAtastrophic Shifts in drylands: how CAN we prevent ecosystem DEgradation?	Aims to obtain a better understanding of sudden ecosystem shifts that may lead to major losses in biodiversity & ecosystem services and defines measures that can be used to prevent such shifts. CASCADE focus on drylands (most threatened ecosystems in Europe). CASCADE investigates the historical evolution of dryland ecosystems in 6 Mediterranean study sites and improve understanding of the biogeochemical mechanisms underlying sudden and catastrophic shifts through experimentation and modelling.	JRC.H.5 Panagiotis PANAGOS	1.3.1.e	ENV RTD	RTD	Birgit de BOISSEZON (RTD I.3.), Patrick WEGERDT (ENV E1)	AGRI	- STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK	01/01/2012 30/06/2017	2-Information systems & services (25%) 4-Methods and testing (50%) 5-Monitoring, verification and surveillance (25%)			COM-IA	31	CASCADE Database	Management and storage of all the CASCADE field data in a central database to be hosted at the JRC. The JRC will develop an inventory of the land cover/land use, soil, vegetation and rainfall data, as well as administrative datasets for the six European Mediterranean sites. The JRC will develop data protocols to be followed for correct insertion of data from the data providers into a central CASCADE database.	30/06/2016	Scientific information systems and databases

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
899 - SRA Soil Resource Assessments	Healthy soils underpin global economies, food security, water and nutrient cycles. This project analyses data from the EU and beyond to assess soil functions (e.g. fertility, organic carbon cycles) and pressures (e.g. erosion, contamination), develops soil resource indicators and maintains the European Soil Data Centre. The project supports the Commission's commitment to the Rio +20 Action Plan, the Global Soil Partnership and the milestones on land and soil in the Resource Efficiency Roadmap.	JRC.H.5 Luca MONTANARELLA	1.3.1.e	ENV	n/a	Jacques Delsalle (ENV B.1)	AGRI CLIMA DEVCO ESTAT GROW SANTE	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EEA - European Environment Agency EFSA - European Food Safety Authority ISRIC - World Data Centre for Soils OECD - Organisation for Economic Co-operation and Development (OECD) UN CBD - UN Convention on Biological Diversity UNCCD - United Nations Convention to Combat Desertification (UNCCD)	01/01/2014 31/12/2016	2-Information systems & services (40%) 7-Scientific, technical & policy consultancy (50%) 9-Education & training (10%)	JRC.A.2 JRC.H.4 JRC.H.6 JRC.H.8			INS-RS	1	Soil indicator development	Indicators on soil quality and soil erosion by water and wind will be provided to monitor the integration of environmental concerns into the CAP and as scoreboard indicators of the roadmap to a resource efficient Europe. Existing methods will integrate information derived from the LUCAS Topsoil Survey to improve indicator performance and to enable regular monitoring applications. Updated assessments will be provided to related DGs and the OECD on an annual basis.	18/12/2015	Scientific information systems and databases
															2	Soil data collection LUCAS	New topsoil sampling in all EU-28 is foreseen in the 2015 LUCAS. The final deliverable will be a fully updated LUCAS soil survey for 2015 allowing a comparative analysis with the previous survey of 2009. This includes support to the LUCAS-Soil Surveys set up, field material implementation and evaluation of results, its extension to candidate countries and the development of next generation survey.	16/12/2016	Validated methods, reference methods and measurements
															3	European Soil Data Centre	Maintenance of permanent repository of EU soil data and information through the EU Soil Data centre & EU Soil Portal: data collection, specification, data harmonization, quality control and distribution to Commission services & other parties. Coordination of formal data requests to Member States will be carried out through the EIONet-Soil. Metadata and access to data will be ensured through the Common OpenData Catalogue and RDSI facility.	18/12/2015	Scientific information systems and databases
															4	Sino-EU Panel on Land and Soil	The Sino-EU Panel on Land and Soil, as part of the EU-China sectorial dialogues, will re-address efficient and degradation-free land use in 2015. Policy recommendations, based on comparative assessment, will be delivered for China and the EU focusing on resource use efficiency in agriculture with special focus on land quality. Optimization of land resource use, amelioration/restoration measures and degradation threats will be among policy recommendations delivered.	29/06/2015	Scientific and policy reports
															5	Communication on Land as a Resource	The Commission plans a Communication "Land as a Resource" for 2015. This will address the consequences of pressures on land quality and availability covering EU and global scales. This work will deliver texts, technical annexes and maps to the Communication and its Impact Assessment based on related research at JRC and contributions from expert working groups.	19/12/2015	Scientific and policy reports
															6	Implementing the Global Soil Partnership (GSP)	The FAO Council, backed by the EC, has endorsed the establishment of the GSP to highlight the critical role of soils for food security and ecosystem services. In 2015 the JRC will coordinate the Regional Soil Partnership for Europe as established in 2014. This will develop targeted reports that outline recommendations, priorities and implementation mechanisms for EU and national soil-related policies to the Intergovernmental Technical Panel on Soils.	18/12/2015	Scientific and policy reports
															7	Soil resources of Africa	Competition for soil across Africa is intensifying due to population growth, food security, agriculture and climatic variability. Our understanding of these issues and associated soil degradation is limited by a lack of sub-continental scale information. A french language edition of the soil atlas and a new dataset describing soils of Northern Africa will be released.	04/12/2015	Scientific information systems and databases
															8	Improving soil awareness and outreach	The Commission wishes to improve the communication of science to society. This is a fundamental pillar of the EU Soil Thematic Strategy. The JRC has taken the lead in organizing the EU's contribution to EXPO 2015. In this framework, and the UN International Year of Soils 2015 a series of public information documents and Soil Atlases will be released and dedicated soil survey summer school in the Danube region will take place.	05/12/2015	Public information documents
															9	Landslide inventories	Landslide inventories of Spain, Cyprus and Andorra and their integration in a new model to update the European Landslide Susceptibility Map (ELSUS1000) Version 1 in collaboration with the JRC-coordinated European Landslide Expert Group and the European Centre on Geomorphological Hazards (CERG).	30/12/2015	Public information documents
12	Soil Contamination	To develop and manage the European and Global data flows related to contaminated sites and their remediation in the framework of the European Soil Data Centre and the Global Soil Partnership, and to compile the EU inventory of diffuse contamination by heavy metals, particularly cadmium in support of the conception and development of the EU fertilizer Regulation.	18/12/2015	Scientific and policy reports															
1693 - RECARE Preventing and Remediating degradation of soils in Europe through Land Care	Develops effective prevention, remediation and restoration measures using an innovative trans-disciplinary approach, actively integrating and advancing knowledge of stakeholders and scientists in 17 Case Studies, covering a range of soil threats in different bio-physical and socio-economic environments. The current state of degradation and conservation will be assessed using a new methodology based on the World Overview of Conservation Approaches and Technologies (WOCAT) mapping procedure.	JRC.H.5 Panagiotis PANAGOS	1.3.1.e	ENV RTD	RTD	Birgit de BOISSEZON (RTD I.3.), Jacques Delsalle (ENV B.1)			01/11/2013 31/10/2018	2-Information systems & services (100%)			COM-HA	1	Web interface in the European Soil Data Centre	The deliverable includes the data infrastructure for the project (Relational Database Management System in ORACLE) and a software interface for accessing data	30/10/2015	Scientific information systems and databases	
														2	Quality check manual	Well defined data protocol describing the rules on the data collection and the data quality check methods for the RECARE database.	30/10/2017	JRC Technical reports	
1.3.2 A resource-efficient, green and competitive low-carbon economy																			
1.3.2.a Develop criteria for the ecolabel, green public procurement and the energy label, and implementing measures for ecodesign, through an integrated approach to EU product policy implementation, including the evidence base. Develop methodologies to support EU product policy and the single market for green products, including durability and material efficiency assessment. Further develop life-cycle data and footprint methodologies to support sustainable consumption and																			
257 - Footprint_MatEff_AA ENV. FOOTPRINT AND MATERIAL EFFICIENCY	The Resource Efficiency flagship initiative of the Europe 2020 Strategy foresees actions to support sustainable consumption and production. Both will be supported by this AA by establishing methods to enable MS and private sector to assess and benchmark the environmental performance of products and organisations and by setting requirements under the Ecodesign directive, to boost the material resource efficiency (e.g. reusability/recoverability, recycled content, durability).	JRC.H.8 Rana PANT	1.3.2.a	ENV	ENV	Hugo-Maria Schally, Michele Galatola, Ferenc Pekar, (ENV.A1)	ENER	- EUROPEAN COPPER INSTITUTE ACE AISBL - THE ALLIANCE FOR BEVERAGE CARTONS AND ENVIRONMENT AISBL L ALLIANCE CARTON ET L'ENVIRONNEMENT ACE CEMBUREAU - European Cement Association EAA - European Aluminium Association EUROFER - European Confederation of Iron and Steel Industries (EUROFER) Food SCP - European Food Sustainable Consumption and Production Round Table PlasticsEurope - Association of Plastics Manufacturers (PlasticsEurope) TBE - Tiles and Bricks of Europe (TBE) WBCSD - World Business Council for Sustainable Development (WBCSD)	29/11/2012 28/11/2015	4-Methods and testing (85%) 7-Scientific, technical & policy consultancy (15%)	JRC.J.5	937 - ESA-EFME Environmental Sustainability Assessments - Footprints and Material Efficiency	COM-AA	7	D5c Review of Final Draft PEFCR	Review of draft Product Environmental Footprint Category Rules (PEFCRs) on a limited number of cases. PEFCRs are essential for more robust and consistent assessments, especially if results are intended to be used for comparisons in a policy context or for communication to consumers.	29/08/2015	JRC Technical reports	
														8	D5d Review of Final Draft OEFSR	Review of draft Organisation Environmental Footprint sector Rules (OEFSRs) on a limited number of cases. OEFSRs are essential for more robust and consistent assessments, especially if results are intended to be used for comparisons in a policy context or for communication to consumers.	29/08/2015	JRC Technical reports	
														9	D5e Final PEFCR	Final Product Environmental Footprint Category Rules (PEFCRs) after stakeholder consultation on a limited number of cases. PEFCRs are essential for more robust and consistent assessments, especially if results are intended to be used for comparisons in a policy context or for communication to consumers.	28/10/2015	Scientific and policy reports	
														10	D5f Final OEFSR	Final Organisation Environmental Footprint Sector Rules (OEFSRs) after stakeholder consultation on a limited number of cases. OEFSRs are essential for more robust and consistent assessments, especially if results are intended to be used for comparisons in a policy context or for communication to consumers.	29/10/2015	Scientific and policy reports	
														12	D7 Technical input to other footprint activities	The work under this task will be able to cover only limited scientific and technical support activities. The interactions and contributions will consist of providing scientific/technical input to major developments (e.g. draft guides) and participation in selected core meetings. Up to four European and, as far as feasible, two international missions outside the EU are covered within this task (respecting internal limitations of EC services on e.g. international travel).	20/11/2015	Oral presentations	
														13	D8 Material efficiency (ME) for ecodesign/label	Report on benefits and impacts/costs of options for different potential material efficiency (ME) requirements for 3 prioritised products in new Eco-Design/energy labelling measures/revisions.	28/02/2015	Scientific and policy reports	
														14	D9b Material efficiency for Ecolabel and GPP	Report on benefits and impacts/costs of options for different potential material efficiency requirements for 1 prioritised product in new Ecolabel/GPP measures/revisions. Calculation (together with JRC-IPTS, as agreed with DG ENV) of benefits and impacts/costs of options for different potential material efficiency criteria for 1 prioritised product in new measures/revisions.	28/02/2015	Scientific and policy reports	
														15	D10 Input to draft standard on dismantlability	Input that could be used as the backbone of a draft standard to measure consistently and repeatedly the dismantlability of key component or a product.	30/04/2015	Scientific and policy reports	
														16	D11 Analysis of Ecodesign requirements typologies	Report on analysis of Ecodesign requirements typologies. JRC-IES will analyse further possible typologies of Ecodesign requirements (as considered in previous Administrative Arrangements and beyond) to be considered in the material efficiency assessment methodology, in particular those facilitating/setting standards for communication between manufacturers and recyclers as well as other information type of requirements (e.g. the marking of plastics).	30/04/2015	Scientific and policy reports	
17	D12 Stakeholder consultation and event on D8-11	JRC-IES will organise a stakeholder consultation on the outcome of D 8 to 11. For specific tasks such as 8 and 9, JRC-IES will feed in to already planned stakeholder events.	28/05/2015	Scientific and policy reports															

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267 - SUSTIM Sustainable Production and Consumption Policies - Implementing Measures	This project provides technoeconomic analysis and scientific support for the development and implementation of environmental product policies. More specifically, IPTS develops new Ecolabel criteria for 1 product group, revise existing Ecolabel criteria for 4-6 product groups, develop new GPP criteria for 1-2 product groups, revise existing Ecolabel+GPP criteria for 2-3 product groups, develop 2 Ecodesign/Energy Label preparatory studies, and develop 3 EMAS sectoral reference documents.	JRC.J.5 Oliver WOLF	1.3.2.a	ENV	ENV	Hugo Schally, HoU DG ENV A.1	ENER GROW		19/12/2012 18/12/2016	7-Scientific, technical & policy consultancy (100%)		169 - PPS 2011 Product Policy Support 2011	COM-AA	2	Ecolabel criteria for wooden floor coverings	Draft legal proposal for 'Ecolabel criteria for Wooden Floor Coverings' for interservice consultation and regulatory committee voting, together with the accompanying scientific background report.	07/11/2016	Scientific and policy reports														
														4	Ecolabel criteria for tourist accommodation	Draft legal proposal for 'Ecolabel criteria for Tourist Accommodation and Camp Sites' for interservice consultation and regulatory committee voting, together with the accompanying scientific background report.	06/06/2016	Scientific and policy reports														
														6	Ecolabel+GPP criteria for cleaning services	Draft legal proposal for 'Ecolabel criteria for Cleaning Services' for interservice consultation and regulatory committee voting, draft 'Green Public Procurement product sheet for Cleaning Services', together with the accompanying scientific background report.	07/11/2016	Scientific and policy reports														
														7	Background report for Ecolabel+GPP product group	The background report will reflect the findings of the collection of background information regarding the environmental performance of a product group to be defined, which will serve in the following as basis for the development of Ecolabel and Green Public Procurement criteria.	31/12/2015	Scientific and policy reports														
														8	Ecolabel+GPP criteria for product group (tbd)	For a product group to be determined: Draft legal proposal for Ecolabel criteria for interservice consultation and regulatory committee voting, draft 'Green Public Procurement product sheet' for interservice consultation, together with the accompanying scientific background report.	07/11/2016	Scientific and policy reports														
														9	Background report for Ecolabel+GPP product group	The background report will reflect the findings of the collection of background information regarding the environmental performance of a product group to be defined, which will serve in the following as basis for the development of Ecolabel and Green Public Procurement criteria.	31/12/2015	Scientific and policy reports														
														10	Ecolabel+GPP criteria for product group (tbd)	For a product group to be determined: Draft legal proposal for Ecolabel criteria for interservice consultation and regulatory committee voting, draft 'Green Public Procurement product sheet' for interservice consultation, together with the accompanying scientific background report.	07/11/2016	Scientific and policy reports														
														11	Background report for GPP product group (tbd)	The background report will reflect the findings of the collection of background information regarding the environmental performance of a product group to be defined, which will serve in the following as basis for the development of Green Public Procurement criteria.	31/12/2015	Scientific and policy reports														
														12	GPP criteria for product group (tbd)	Draft 'Green Public Procurement product sheet' for interservice consultation for a product group to be determined in fall 2013, together with the accompanying scientific background report.	04/07/2016	Scientific and policy reports														
														13	Background report for GPP product group (tbd)	The background report will reflect the findings of the collection of background information regarding the environmental performance of a product group to be defined, which will serve in the following as basis for the development of Green Public Procurement criteria.	31/12/2015	Scientific and policy reports														
														14	GPP criteria for product group (tbd)	Draft 'Green Public Procurement product sheet' for interservice consultation for a product group to be determined in fall 2013, together with the accompanying scientific background report.	04/07/2016	Scientific and policy reports														
														15	Background report for toilets	The background report will reflect the findings of the collection of background information regarding the environmental performance of toilets and urinals, which will serve in the following as basis for deciding on a favourable policy mix for this product group.	31/12/2015	Scientific and policy reports														
														16	Preparatory study for toilets	Techno-economic and environmental assessment of the product group 'Toilets and Urinals' following the MEErP approach for Ecodesign preparatory studies. The resulting evidence base will enable Commission services to decide whether and how to implement a mix of product policies.	04/07/2016	Scientific and policy reports														
														17	Ecodesign IM: revision of washing machines	Full preparatory study, working documents of measures prior to Consultation Forum, website and stakeholder engagement process according to the task and processes set out in Article 15 and Annex VII of the Ecodesign Directive and the most updated version of the MEErP methodology.	31/12/2015	Scientific and policy reports														
														18	Ecodesign IM: revision of dishwashers	Full preparatory study, working documents of measures prior to Consultation Forum, website and stakeholder engagement process according to the task and processes set out in Article 15 and Annex VII of the Ecodesign Directive and the most updated version of the MEErP methodology.	31/12/2015	Scientific and policy reports														
														19	Interim report fabricated metal products	The interim report will reflect the findings of the collection of background information carried out by external contractors regarding best environmental management practice in the manufacturing of electronic and electrical equipment (except machinery and equipment).	31/12/2015	Scientific and policy reports														
														20	Reference document fabricated metal products	Reference document on best environmental management practice in the manufacturing of electronic and electrical equipment (except machinery and equipment).	19/12/2016	Scientific and policy reports														
														21	Interim report waste management	The interim report will reflect the findings of the collection of background information carried out by external contractors regarding best environmental management practice in the waste management sector.	31/12/2015	Scientific and policy reports														
														22	Reference document waste management	Reference document on best environmental management practice in the waste management sector.	19/12/2016	Scientific and policy reports														
														23	Interim report telecommunications	The interim report will reflect the findings of the collection of background information carried out by external contractors regarding best environmental management practice in the telecommunications sector.	31/12/2015	Scientific and policy reports														
														24	Reference document telecommunications	Reference document on best environmental management practice in the telecommunications sector.	19/12/2016	Scientific and policy reports														
														937 - ESA-EFME Environmental Sustainability Assessments - Footprints and Material Efficiency	Support to Single Market for Green Products. Recommendations for applications of life-cycle analysis JRC impact assessment tool and LC methods to policies for EU industries and product groups. Supports (pre-)standardization activities on resource efficiency of products, the implementation of recyclability and durability criteria in product policies (ecolabel, eco-design, GPP). Sectors: food & bio-products, new-tech (innovative energy products, renewables), building products.	JRC.H.8 FABRICE MATHIEUX	1.3.2.a	ENV	n/a	Hugo-Maria SCHALLY (HoU A1) DG ENV, hugo-maria.schally@ec.europa.eu	ENER GROW SANTE SG		01/01/2014 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (30%) 9-Education & training (20%)		1738 - EFME2 Environmental Footprint and Material Efficiency 2 257 - Footprint_MatEff_AA ENV - FOOTPRINT AND MATERIAL EFFICIENCY	INS-RS	201501	Sustainable management of EU food waste with LCA	Guide for policy makers, providing guidance on how to - apply LCA to quantify the environmental performance of key European food waste management - identify food waste prevention options - set-up a framework approach for the consideration of costs (Life Cycle Costing and Cost-Benefit Analysis) and of social implications (Social LCA), incl. the analysis of shifts in employment Produce an article ISI (SSCI) on how food waste is currently addressed in LCA (example for Sec Gen LCA [A tool])	20/12/2015	Scientific and policy reports
																												201502	Environmental Assessment low carbon technologies	The development and implementation of low carbon technologies in the EU has been pushed by several EU policies. However the environmental assessment of innovative technologies is still under debate. The deliverable will investigate how to conduct an assessment of such technologies based on the analysis of a case-study product group (e.g. within renewable energy sources), including phases and aspects not generally included in the assessments.	30/12/2015	Article contribution to a monograph
																												201601	Contribution of components to building performance	Buildings are complex products that are composed of many individual components/plants. Sustainable building is the overarching goal, and it can be potentially achieved with association of differently performing components. This analysis, based on an LCA case study, will focus on the contribution of environmentally conscious building components (e.g. a window) to the overall performances of buildings.	30/03/2016	Scientific and policy reports
201602	Methodological and data developments for REAPro	Report on the methodological developments and on the use of underlying data of the REAPro (Resource Efficiency Assessment of Products) method, to identify relevant recyclability/re-usability/recoverability, hazardous substances and durability criteria in product policies. This analysis will be based on the results of various case studies and on the analysis of the practices of the industry that handle the recycle waste. Further needs for use in product policies will be identified.	31/03/2016	Scientific and policy reports																												
201603	Cross-comparison of product and waste policies	Product policies and waste policies have different aims and scope but they share a common objective, i.e. to improve resource efficiency. Recently, there has been a call for better consistency between these two types of policies. This analysis, based on some case studies (e.g. EuP products), will cross-compare the environmental benefits achieved by respective policies (e.g. Ecodesign Directive and WEEE Directive) and define how they are comparable and synergetic.	30/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index																												
201604	Ensuring coherence of product policy instruments	The sustainable product policies (Ecodesign, Ecolabel, GPP, Energy Labelling) contribute to improved environmental performances at the product level (e.g. Taps/showers, boilers). However, benefits at system level (e.g. water supply for domestic use) are rarely analysed. This analysis aims at testing coherence and synergies between product policies instruments, to ensure best environmental performances at the system level (composed of several products), based on case studies.	31/10/2016	Scientific and policy reports																												
201605	Standards for products access to the Single Market	The need of new standards for the definition of clear and shared measurement methods and benchmarks for resource efficiency of products. Based on the contributions of JRC to the on-going standardisation work (Task Force 4 on Resource Efficiency of the Ecodesign Coordinating Group of CEN/CENELEC), to be led in coordination with industry. It should help Member States and their market surveillance authorities to check conformity of products entering the Single Market concerning resource efficiency.	30/11/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index																												
201606	LC based assessment of bio-products	Bio-based materials are increasingly used in industrial products, because of their particular technical performances (e.g. low specific density, high acoustic and thermal performances). This could have various contrasting impacts on various environmental aspects (lower emissions when transported, land use change, higher use of chemicals in agriculture, lower recyclability of products, etc.). This analysis will focus on a case study using LCA and REAPro to better understand the trade-offs.	30/11/2016	Scientific and policy reports																												

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1738 - EFME2 Environmental Footprint and Material Efficiency 2	As further development of the AA on Footprint and Material Efficiency (070307/2012/ENV.C1/635340), the overall objective of this AA (33446) is: to further improve the PEF and OEF methods by updating some LCIA methods; to finalise the work on the PEFCR and OEFSRs; to develop Weighting method for EF; to further develop the EPLCA in relation to EF; and to further develop/apply the REAPro method for the setting of potential requirements on material and resource efficiency within EU product policies.	JRC.H.8 Rana PANT	1.3.2.a	ENV	ENV	Maria-Hugo SCALLY, ENV.A.1; Desk Officers: Michele Galatola, Ferenc Pekar			12/12/2013 11/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		937 - ESA-EFME Environmental Sustainability Assessments – Footprints and Material Efficiency	COM-AA	2	D2 Updates of recommended LCIA methods	JRC IES will evaluate the necessity for updates looking at the life cycle impact categories: Water use, Resource depletion, Land use, Respiratory Inorganics; and update according to the findings. New characterisation and normalisation factors will be provided.	30/09/2016	Scientific and policy reports
														3	D3 EF data quality indicators for 150 ELCD dataset	Further test and calculate the semi quantitative data quality indicators, as required by the Environmental Footprint of a sample of around 150 core data sets that fulfil the LCD Data Network entry level criteria and are currently in the ELCD.	31/03/2016	JRC Technical reports
														4	D4 Continued support to the food related pilots	For mid 2014 the start of the food related pilots is foreseen, however their finalisation will take ~12 month longer than the previous AA 33406 that ends in November 2015. This task covers the continuation of the 3 food related PEFCR and OEFSR pilots for which JRC-IES has a direct involvement.	30/11/2016	JRC Technical reports
														5	D5 Evaluation of pilots and revision of EF guides	Evaluation of the 6 PEFCR or OEFSR pilots for which JRC-IES has the function as the lead of the Technical Secretariat and the revision of the PEF and OEF methods based on the learnings from the other pilots for which the evaluation – as far as finished - was conducted by the technical helpdesk established by DG ENV.	30/11/2016	Scientific and policy reports
														6	D6 Weighting method and data for EF	Starting from the work on weighting in the life cycle indicators, a method for weighting of the Environmental Footprint Impact Assessment categories will be developed. It will be based on an evaluation of existing weighting methods, other multi-criteria decision making tools and of approaches to deal with external environmental costs.	30/11/2016	Scientific and policy reports
														7	D7 Material efficiency requirements for Eco-design	The REAPro method will be applied to identify and assess new requirements for material efficiency for 3 relevant products in the context of new or revised implementing measures. The analysis will also focus on developing new criteria (and/or revising existing ones) for resource efficiency, based on analysed case-studies and stakeholder feedbacks.	30/11/2016	Scientific and policy reports
														8	D8a Develop potentially standardized methods on ME	(Task 8.a) To develop two new feasibility studies on potentially standardized methods on Material Efficiency (ME) for durability (e.g. lifetime measurement of washing machine; method for reversible disassemblability of key parts for repairing/substitution).	30/11/2016	Scientific and policy reports
														9	D8b Assessment of environmental/economic aspects	(Task 8.b) Assess the potential life-cycle environmental impacts/benefits and economic benefits/burdens related to the requirements on durability of vacuum cleaners (hose and operation motor) according to the Commission Regulation (EU) No 666/2013.	30/06/2016	Scientific and policy reports
														10	Interim Technical Report	The concise Interim Technical Report (around 4 pages) describes major achievements and actions to be taken.	30/06/2015	JRC Technical reports
														11	Final Technical Report	The concise Final Technical Report (around 4 pages) describes major achievements and potential follow up actions to be taken.	11/12/2016	JRC Technical reports
														2051 - Efficient Buildings Resource Efficiency Assessment in the Building Sector	The project is framed by the Communication (2014) 445 on Resource Efficiency Opportunities in the Building Sector and aims at: 1. Identifying a set of macro-objectives and targets for resource efficiency. 2. Developing a set of indicators and benchmarks of resource efficient buildings. 3. Implementing & disseminating a resource efficient buildings toolkit.	JRC.J.5 Oliver WOLF	1.3.2.a	ENV
2	Cross analysis of preselected case studies	B.2.1 - Cross analysis performed jointly by SPC and ELSA on a sort list of preselected case studies (month 17)	30/11/2016	JRC Technical reports														
3	Deployment of the developed framework	• D.1.1 – A guidance manual on the hands-on implementation of the proposed assessment methodology (month 30) • D.1.2 – The projects Final Report (month 30)	30/07/2017	JRC Technical reports														
2052 - PPS 2015 Product Policy Support 2015	PPS2015 will provide environmental, techno-economic analysis and scientific support for the development and implementation of environmental product policies. Based upon #169 IPTS will develop new or revise existing Ecolabel criteria for a number of product groups, supporting ENV in preparing the draft legal proposals for interservice consultation and voting in regulatory committee, and give scientific support to ENV during interservice consultation and regulatory committee.	JRC.J.5 Oliver WOLF	1.3.2.a	ENV	ENV	Silvia Ferratini (Ecolabel), Bettina Lorz (EMAS) (ENV A1)			01/01/2015 30/06/2018	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		267 - SUSTIM Sustainable Production and Consumption Policies - Implementing Measures 169 - PPS 2011 Product Policy Support 2011	COM-AA	1	Status report on a agreed product family	IPTS will provide a status report on a agreed product family with DG ENV, towards the preparation of a Draft legal proposal for interservice consultation and regulatory committee voting, together with the accompanying scientific background report and user manual.	31/12/2015	JRC Technical reports
2921 - GPP 2015 Green Public Procurement 2015	This project will provide environmental, techno-economic analysis and scientific support for the development and implementation of environmental product policies. Based upon previous work (#169), IPTS will develop new or revise existing Green Public Procurement criteria for a number of product groups, supporting DG ENV in preparing the draft legal proposals for interservice consultation.	JRC.J.5 Oliver WOLF	1.3.2.a	ENV	ENV	Robert Kaukewitsch (ENV F1)			01/06/2015 31/05/2018	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		267 - SUSTIM Sustainable Production and Consumption Policies - Implementing Measures	COM-AA	1	Product scope for up to 5 GPP product groups	Scope and definition of a range of product groups agreed on with DG ENV (or one cross-cutting issue).	31/12/2015	JRC Technical reports
														2	Market & technical analysis (up to 5 product group)	Analysis of markets as well as technical and functional assessment of the respective product groups agreed on with DG ENV and proposal for criteria areas.	31/12/2016	JRC Technical reports
														3	1st version of draft criteria (up to 5 product gro)	A first version of potential criteria to be discussed with stakeholders for the respective product groups agreed on with DG ENV (incl. updates of the technical report).	31/12/2016	JRC Technical reports
														4	2nd version of draft criteria (up to 5 product gro)	A second version of potential criteria to be discussed with stakeholders for the respective product groups agreed on with DG ENV (incl. updates of the technical report).	31/12/2017	JRC Technical reports
														5	Stakeholder written consultation	Updated version of criteria and report to be sent to stakeholders and reaction to comments	31/12/2017	JRC Technical reports
														6	Final criteria for up to 5 GPP product groups	Final criteria including a background report for the respective product groups agreed on with DG ENV.	31/12/2018	JRC Technical reports
3060 - PL: EFME3 PLANNED: Environmental Footprint and Material Efficiency 3	Further improvement of the PEF and OEF methods by updating some LCIA methods; to further develop LCI data availability and quality via the ELCD and LCDN; to further develop/apply the REAPro method for the setting of requirements on material and resource efficiency within EU product policies.	JRC.H.8 Rana PANT	1.3.2.a	ENV	ENV	Maria-Hugo SCHALLY, ENV.A.1; Desk Officers: Michele GALATONA, Ferenc PEKAR			01/12/2015 30/11/2018	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		1738 - EFME2 Environmental Footprint and Material Efficiency 2 937 - ESA-EFME Environmental Sustainability Assessments – Footprints and Material Efficiency 257 - Footprint, MatEff, AA ENV, FOOTPRINT AND MATERIAL EFFICIENCY	COM-AA	1	Life Cycle Impact Assessment - LCIA	The JRC-IES will review and evaluate some of the 10 EF recommended Impact Assessment categories and methods not covered in the ongoing EFME2 AA. The review will lead to the identification of necessary updates of the recommended LCIA methods and the provision of characterization and normalisation factors in line with ILCD format requirements.	30/10/2018	Scientific and policy reports
														2	Evaluation and support to Policy Impact Assessment	Evaluate the overall results of all EF pilots and the learnings from the independent review of the pilot process (experts managed and paid by DG ENV) and support DG ENV in preparing the policy Impact Assessment.	30/12/2017	Scientific and policy reports
														3	Material Efficiency	In the context of the Material Efficiency part, further work will be conducted to support the technical implementation and harmonization/standardization of measures regarding inclusion of aspects of dismantlability and durability of key components of a selected product or technical support for preparatory studies under the Eco-design Directive and/or for Ecolabel support purposes. The choice of products will be made in close cooperation with DG ENV.	30/10/2018	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
1.3.2.b Further develop environmental indicators, in support of the roadmap to a resource-efficient Europe, the GDP-and-beyond roadmap, the European Semester and the integration of environment into other policies.																			
1083 - MONSCEN_REFF Indicators, Data, Scenarios for JRC LCA IA tool	Development of the JRC LCA policy impact assessment tool (social, environmental, economic) to facilitate policy impact assessment. Further development of the underlying knowledge base supporting this tool, including the ELCD, ILCD, Resource Directory, EPLCA website, indicators, and guidelines. Development of associated indicators and policy scenarios up to 2050, with options for relevant policy fields. Development of associated guidances for policy impact assessment.	JRC.H.8 David PENNINGTON	1.3.2.b	ENV	n/a	Carina Vopel – Head of Unit F1 DG ENV, Hugo-Maria Schaly – Head of Unit A1 DG ENV,	BEPA ESTAT GROW SG TRADE	EEA - European Environment Agency	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (20%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (80%)		1030 - COIN_International Audits on Composite Indicators - External collaborations 1738 - EFME2 Environmental Footprint and Material Efficiency 2 1062 - RAW-MAT Supply chains and critical raw materials - towards a circular economy 1007 - LUISA Application of the LUISA Modelling Platform to Regional Policies and Territorial Cohesion 257 - Footprint_MatEff_AA ENV - FOOTPRINT AND MATERIAL EFFICIENCY 2307 - PL- LCIND RE2 Planned: Life Cycle Indicators for Resource Efficiency Targets	INS-RS		3	Land-use related environmental indicators	Analysis of land-use related indicators used for assessment in the life cycle based EU indicators and footprint of the JRC LCA policy impact assessment tool, taking into account the potential to use LUISA for generic and geo-spatial analysis of land use associated with goods and services.	30/06/2015	Scientific and policy reports
															4	LCA-based resource impact indicator for EU MS	Methodology for assessing the sustainability footprint of EU28 and MS based on the life cycle thinking, used in computing resource efficiency indicators. The work is extending the life-cycle inventory and the country coverage of the JRC LC indicators in the context of the REE Roadmap (links with basket of products from LCIND project). It will provide a plan for data requirements to operationalize the indicators or further monitoring and policy support analysis (Collaboration JRC DDG.1)	22/12/2015	JRC Technical reports
															5	Social life cycle sustainability indicators	Social life cycle sustainability indicators for production, consumption, and trade. Extension of prototype social life cycle sustainability indicators and analysis for extra-territorial imported commodities (2013 Work Programme) to include production, consumption, inter- and extra-territorial trade, and net social sustainability assessment for the EU-28 and all Member States.	31/12/2015	Scientific and policy reports
															6	New version of the web-based EPLCA LC Data Network	Release of Version 2.0 of the EU web-based Platform on LCA's Life Cycle Data Network with improved networking capabilities; supporting the knowledge base required for the JRC's LCA policy impact assessment tool. Output to include revised recommendations towards international agreements for entry-level requirements, incl. nomenclature and data quality methods.	30/11/2015	Scientific information systems and databases
															7	New versions of LC Resource Directory and Database	Release of version 3.0 of Resource Directory with new features to support knowledge base on existing LC studies. Analyses to be conducted for key sectors of relevant background data/capacity building needs, to achieve a critical mass via the Network for supporting policy and indicators.	21/12/2015	Scientific information systems and databases
															8	Scenarios for Resource Efficiency and Productivity	Identification of scenarios for Resource Productivity based on Cambridge E3ME model. Focus on trends and developments relevant for Europe and its regions, to serve as inputs for the JRC spatial integrated modelling platform (LUISA). Life cycle based resource indicators are used as impact assessment-related model variables.	31/12/2015	Scientific and policy reports
															9	Analysis of policy scenarios for RE in Europe 2050	Further analysis and integration of selected policy scenarios for resource efficiency (RE) in Europe towards 2050, using running JRC-accessible models. Sensitivity analysis and integration of selected policy scenarios for resource efficiency in Europe and its regions into the framework of Integrated regional Modelling Platform (LUISA). The output will serve to better specify policy variables related to the EC Baseline Scenario, used as an impact assessment tool.	15/12/2016	JRC Technical reports
															10	JRC LCA Policy IA Illustrated Guidelines	Case study to support the JRC LCA policy impact assessment tool – The European Sustainability Footprint. The goal is to facilitate consideration of social, environmental, and economic dimensions in analysis of future-orientated scenarios accounting for life cycle considerations. Analysis for selected future-orientated scenarios in the context of e.g. policy impact assessment. Results of an analysis using the sustainability footprint based on the life cycle approach for EU and majority of MS.	31/12/2016	Scientific and policy reports
															11	LC Impact Assessment Recommendations- Version 2.0	Update the recommendations via the European Platform on Life Cycle Assessment for methods to be used in the impact assessment phase of Life Cycle Assessments, taking into account analyses for chemical emissions, land use, water use, as well as material/energy resources	25/11/2016	Scientific and policy reports
															2307 - PL- LCIND RE2 Planned: Life Cycle Indicators for Resource Efficiency Targets	Life Cycle Indicators further development for three groups of consumer goods/products: housing/shelter, food and transportation. Targets to be set for environmental impact categories as defined by LCA. Exports and imports treated in a life cycle approach. Support to policies envisaging consumer goods and products at EU and member states level.	JRC.H.8 MALGORZATA GORALCZYK	1.3.2.b	ENV
1.3.2.c Implement the infrastructure for spatial information in the European Community (INSPIRE), the shared environmental information system, including data from Copernicus as a contribution towards integrating environmental information systems including the Global Earth Observation System of Systems (GEOSS) and its data management practices.																			
265 - MORSE INSPIRE Maintenance and Operational Setting (33090)	The subject matter of this AA is the operations of the INSPIRE Geoportal and the maintenance of the INSPIRE IR. The objectives of the project are as follows: - To migrate the Geoportal versions into a single operational Geoportal ready to be hosted in a dedicated environment; - Set-up of the Geoportal Operation Environment; - To prepare the integration of new developments such as the INSPIRE Download and SDS. - To extend the Geoportal capacity as needed - To initiate the maintenance of INSPIRE.	JRC.H.6 Freddy FIERENS	1.3.2.c	ENV	ESTAT	Hugo De Groof ENV D.4	ENV		17/12/2012 16/12/2015	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)			COM-AA	220	D2.2 2nd report on operat. maintenance activities	Update of report D 1.1 (210) to reflect the situation after three years of Geoportal operations	16/12/2015	Scientific and policy reports	
														310	D3.1 Technical specs for access to MS SDS	Technical specifications for the implementation of access to the Member States' Spatial Data Services	16/12/2015	Scientific and policy reports	
														320	D3.2 Report on add. functionality for geoportal	Report on additional functionality needed or implemented in the Geoportal. The deliverable will cover: - Drafting of the technical specifications for the integration of Spatial Data Services. - Continuing the monitoring of emerging requirements in the Member States related to authentication, e-business, digital rights management and assessing their integration in the Geoportal.	16/02/2015	Scientific and policy reports	
														420	D4.2 Evolution of use & capacity of the Geoportal	Report on the evolution of use and capacity of the Geoportal. This includes monitoring the performance of the operational Geoportal in terms of - Amount of metadata harvested - Volume of traffic both harvested and generated by user requests - Use profile of the Geoportal (evolution of number of users, type of user activity, geographical distribution of users, etc.) - Usage of the informatics environment (CPU use, response times, storage...)	16/12/2015	Scientific and policy reports	
1052 - INSPIRE INSPIRE Implementation and Evolution	The project will develop reusable approaches and tools to facilitate cross-border and cross-sector interoperability of information exchange between Member States' public administrations, in support of the Digital Single Market. In particular, it supports the implementation and evolution of INSPIRE, including the maintenance of the INSPIRE legal framework, technical guidelines and infrastructure components as well as the re-use of INSPIRE in other policies and the promotion of INSPIRE globally.	JRC.H.6 Michael LUTZ	1.3.2.c	ENV	n/a	Mr Hugo DE GROOF, ENV.D.4: Governance, Information and reporting, E-mail: hugo.de-groof@ec.europa.eu	AGRI CNECT DIGIT ESTAT GROW MARE MOVE NEAR REGIO SANTE	CC EU - Candidate Countries EU EEA - European Environment Agency MS EU - Member states EU	01/01/2015 31/12/2016	2-Information systems & services (60%) 7-Scientific, technical & policy consultancy (20%) 9-Education & training (20%)			INS-RS	201501	Updated Technical Guidelines for Download Services	Updated Technical Guidelines based on implementation experiences in the Member States, including implementation guidance for download services for observation and gridded data.	15/12/2015	JRC contributions to policy documents	
														201502	Updated central INSPIRE infrastructure components	Updated software and operational services for central INSPIRE infrastructure components (e.g. the INSPIRE Geoportal, validation tools and/or INSPIRE registry), to meet requirements identified during their operation, to add content and/or functionality and (if applicable) requirements from updated Technical Guidelines.	21/12/2015	Scientific information systems and databases	
														201503	Testbed on access control for INSPIRE	Report on the results of a testbed with Member States' organizations for interoperable solutions for authentication, authorization and accounting (AAA) of INSPIRE data and services. Based on the outcomes of the testbed, the report will provide recommendations for updates of INSPIRE Technical Guidelines. [Supported by the Interoperability Solutions for European Public Administrations (ISA) programme]	21/12/2015	JRC Technical reports	
														201504	INSPIRE and the Intelligent Transport System	This report summarizes the activities conducted in support of the alignment of ITS Directive with INSPIRE (MoU JRC-DG MOVE). It will provide recommendations for future tasks focusing both on the technical aspects such as location referencing, specifications and standardisation, as well as the alignment of the ITS, INSPIRE, and PSI Directives. These activities are expected to become an incubator for a new project on a location framework for transport in line with INSPIRE. [Supported by ISA]	30/06/2015	Scientific and policy reports	
														201505	INSPIRE Pilot for Marine Strategy	Report on a pilot to support the process of e-reporting regarding the Marine Strategy Framework Directive (MSFD). Involving Member States' organizations, the European Environment Agency and DG ENV. The pilot aims to streamline the monitoring and reporting in compliance with INSPIRE and in support of the implementation of SEIS.	15/12/2015	Scientific and policy reports	
														201506	INSPIRE-WFD Pilot for WFD reporting – Phase 1	Report on the first phase of a pilot which will demonstrate the integration of the data requirements of INSPIRE and of the Water Framework Directive (WFD) to support the process of e-reporting during the 2016 WFD reporting cycle. The pilot involves Member States' organizations, the European Environment Agency and DG ENV. The first phase will analyse the data requirements of both Directives and propose an update of the WFD reporting guidelines to ensure INSPIRE compatibility.	30/06/2015	Scientific and policy reports	
														201507	Methodology to represent INSPIRE as linked data	This report will provide recommendations on the coherent representation across the EU of INSPIRE resources as linked data (supported by the Interoperability Solutions for European Public Administrations – ISA – programme). This work will facilitate cross-sector interoperability of INSPIRE resources and their connection to Open Data portals. This delivery is part of a sub-delegation of DG DIGIT.	15/12/2015	Scientific and policy reports	
														201601	Updated Technical Guidelines & Implementing Rules	Updated Technical Guidelines and/or draft amendments to Implementing Rules based on implementation experiences in the Member States and in the thematic pilots, as well as the priority issues identified in the Maintenance and Implementation Work Programme agreed between the Commission and the MS.	31/05/2016	JRC contributions to policy documents	
														201602	Updated central INSPIRE infrastructure components	Updated software and operational services for central INSPIRE infrastructure components (e.g. the INSPIRE Geoportal, validation tools and/or INSPIRE registry), to meet requirements identified during the operation, to add content and/or functionality.	20/12/2016	Scientific information systems and databases	
														1703 - INSPIRE SEIS & SIIFS INSPIRE SEIS & SIIFS	INSPIRE, Shared Environmental Information System (SEIS) and the Structured Implementation and Information Frameworks (SIIF) Supports the evaluation of INSPIRE Directive, the INSPIRE Maintenance and Implementation Framework, and the INSPIRE EU geo-portal. It contributes to the SEIS and SIIFS initiatives by developing INSPIRE/SEIS compliant reporting pilots for environmental acquis areas and further investigates the role of INSPIRE in supporting the implementation of the SIIF.	JRC.H.6 Maria NUNES DE LIMA	1.3.2.c	ENV	ENV
20152	Status report on the INSPIRE-SEIS pilot	Report on the results achieved and further recommendations on streamlining the environmental policies' reporting with INSPIRE and e-reporting. This is based on the selected pilots and operational applications, contributing to the establishment of INSPIRE-based environmental eReporting. INSPIRE supporting development, monitoring and implementation across almost the whole environmental acquis, is as such a fundamental pillar of the SEIS, which priorities as considered on selecting the pilots.	31/10/2015	JRC contributions to policy documents															
20161	Final management report	Report on the results and management of the entire project	31/10/2016	JRC contributions to policy documents															

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1740 - GEOPS INSPIRE Geoport Operations	The subject matter of this Administrative Arrangement is the daily operation of the INSPIRE Geoport. Objectives: 1. To host the INSPIRE Geoport in a fully operational environment. 2. To continuously adapt the Geoport and its infrastructure in order to optimize performance, and allow for growth scenarios. 3. To provide technical support to Member States and other service providers that want to link their services to the Geoport.	JRC.H.6 Freddy FIERENS	1.3.2.c	ENV	ESTAT	Hugo De Groof ENV D.4			29/11/2013 28/11/2016	2-Information systems & services (100%)			COM-AA	201501	Operational service of the INSPIRE EU Geoport	Operational service offering the EU INSPIRE Geoport, allowing Member States to publish their INSPIRE metadata and services in a central portal and allowing users to discover and access Member States' INSPIRE data through a single point of access	20/12/2015	Technical systems
														201502	INSPIRE Technical Help Desk	Support to Member States in aligning their INSPIRE services and metadata with the EU INSPIRE Geoport.	20/12/2015	Technical systems
														201601	Operational service of the INSPIRE EU Geoport	Operational service offering the EU INSPIRE Geoport, allowing Member States to publish their INSPIRE metadata and services in a central portal and allowing users to discover and access Member States' INSPIRE data through a single point of access	20/12/2016	Scientific information systems and databases
														201602	INSPIRE Technical Help Desk for 2016	Support to Member States in aligning their INSPIRE services and metadata with the EU INSPIRE Geoport.	20/12/2016	Scientific information systems and databases
2123 - INSPIRE SEIS EREP INSPIRE SEIS AND E-REPORTING	The subject matters of this Administrative Arrangement are INSPIRE, the Shared Environmental Information System (SEIS), support to the INSPIRE e-reporting pilots, and the Structured Implementation and Information Frameworks (SIIFs). Specific objectives of the AA are to operate the EU geo-portal, to ensure that INSPIRE continues to meet requirements on environmental acquis, and to improve efficiency of reporting to EC by developing INSPIRE-based eReporting pilots.	JRC.H.6 Paul SMITS	1.3.2.c	ENV	ENV	Hugo DE GROOF			27/05/2014 26/05/2017	2-Information systems & services (25%) 7-Scientific, technical & policy consultancy (65%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (10%)		1703 - INSPIRE SEIS & SIIFS INSPIRE SEIS & SIIFS 1052 - INSPIRE INSPIRE Implementation and Evolution	COM-AA	1	D1.1 Updated version of the INSPIRE Geoport	This is a report on the operation and maintenance of the INSPIRE EU geo-portal – including support to Member States and assessment of their performance in complying with article 15, and follows seamlessly Task 1 of Administrative Arrangement JRC 33353/DG ENV 070307/2013/658394/SER/D4.	27/11/2015	Scientific information systems and databases
														2	D2.1 INSPIRE Maintenance and Implementation WP	The INSPIRE Maintenance and Implementation work programme 2015-2016 is the outcome of JRC ensuring that INSPIRE infrastructure, rules and legislation continue to meet requirements on environmental acquis and remain up-to-date with technological evolution. The MIG is composed of representatives nominated by Member States' following the Terms of Reference agreed with the INSPIRE Committee Members and it is coordinated by JRC on behalf of the Commission.	27/11/2015	Scientific and policy reports
														4	D4.2 State of Play report 2015	Based on the terms of reference developed in JRC 33353/DG ENV 070307/2013/658394/SER/D4 (INSPIRE, SEIS, and SIIFS), a call for tender will be launched for an external contract to assess implementation progress of INSPIRE in the MS. This task involves the preparation and launch of the tender, the evaluation of the offers, and the launch of the contract.	27/05/2016	JRC Technical reports
														5	D5.1 Report on INSPIRE policy evaluation follow-up	Based on the outcome of the INSPIRE policy evaluation project, this task will support DG ENV in the planning and execution of the follow-up action plan. Such may cover supporting public consultation and impact assessments on policy initiatives related to SIIFS, and on possible amendments to INSPIRE and Public Access to Environmental Information Directives. This may require the setting up (in collaboration with DG ENV) of a dedicated expert group to help in preparing new policy proposals.	27/05/2016	Scientific and policy reports
														6	D 6.1 Guidance for SIIFS	The new concept of Structured Implementation Information Frameworks (SIIFS) requires further assessment to define the role INSPIRE can play in supporting their implementation, and where possible amendments to INSPIRE legislation or guidelines would be appropriate.	27/11/2015	Scientific and policy reports
														7	D 7.1 Recommendations for directive on inspections	In synergy with Task 5 of Administrative Arrangement JRC 33353/DG ENV 070307/2013/658394/SER/D4, this task will define guidance to SIIF development in the areas of Urban Waste Water Treatment (UWWT) and Nature-related legislation.	27/11/2015	Scientific and policy reports
														8	D8.2 INSPIRE websites and communication platform	The Council Conclusions of 11 June 2012 also called for improving inspections regimes on the basis of experience with existing provisions and avoiding unnecessary administrative burdens. It is in this context that the DG ENV is drafting a new legal framework on inspections. This deliverable supports DG ENV for the drafting of the preparatory guidance by providing recommendations on INSPIRE/SEIS-related technical aspects relevant to the proposal for a directive on inspections.	27/11/2015	Scientific and policy reports
														8	D8.2 INSPIRE websites and communication platform	Now that INSPIRE's focus is more on the implementation of the Implementing Rules' legal acts, it is paramount that a number of communication-related activities are undertaken to successfully implement INSPIRE in the context of SEIS. These activities are 1) the INSPIRE Forum and websites, and 2) to organize the INSPIRE Conference 2014. With the INSPIRE MIF, the requirements for the official EC INSPIRE website and INSPIRE/SEIS Forum are changing. This will be reflected in the INSPIRE websites.	27/11/2015	Technical systems
3062 - PL: INSPIRE-SEIS Imp Planned: INSPIRE: improvement of performance of data and information infrastructures	To improve performance of data and information infrastructures and contribute to 2013 SEIS outlook SWD and 2012 communication on implementation (deliverables defined in negotiation phase) 1) EU INSPIRE geo-portal (operation and maintenance) 2) Ensure that INSPIRE infrastructure and legislation remain up-to-date with environmental acquis and technological change 3) Develop in collaboration with EEA INSPIRE compliant reporting systems to improve efficiency 4) INSPIRE/SEIS Communication	JRC.H.6 Paul SMITS	1.3.2.c	ENV	ENV	DE GRROOF Hugo (ENV.D.4)			01/04/2015 31/03/2018	2-Information systems & services (25%) 7-Scientific, technical & policy consultancy (65%) 9-Education & training (10%)		1703 - INSPIRE SEIS & SIIFS INSPIRE SEIS & SIIFS 1052 - INSPIRE INSPIRE Implementation and Evolution 2123 - INSPIRE SEIS EREP INSPIRE SEIS AND E-REPORTING	COM-AA	1	Integration of INSPIRE Community, Users & Industry	Report on integration of INSPIRE Community, Users and Industry in support of the INSPIRE-Global World Forum Conference	31/05/2015	JRC Technical reports
														2	EEA INSPIRE compliant reporting systems	Report for the design of EEA INSPIRE compliant reporting systems	31/10/2015	JRC Technical reports
														3	Central INSPIRE infrastructure components	Report on operation of central INSPIRE infrastructure components	31/12/2015	JRC Technical reports
1.3.2.d Carry out integrated impact and sustainability assessment of EU policies based on land-use modelling.																		
55 - VOLANTE Visions Of LAND use Transitions in Europe	The aim is to develop a new EU land management paradigm, providing an integrated conceptual and operational platform allowing policy makers to develop pro-active and context-sensitive solutions to the future challenges, rather than react on external land systems developments. It couples the delivery of selected ecosystem services to land use change which will increase the understanding of how initiatives under the biodiversity strategy such as green infrastructure, no net loss can be implemented.	JRC.H.8 Carlo LAVALLE	1.3.2.d	ENV RTD	RTD	Frederico NOGARO (RTD I3) Jacques Delsalle (ENV.B.1), Anne Teller (ENV.B.2)	CLIMA		01/11/2010 30/04/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	1	Integrated modelling system	the new insights using the integrated modelling system	29/04/2015	Article contribution to a monograph
														3	Contribution to the VOLANTE roadmap	Contribution to the VOLANTE roadmap	30/04/2015	Scientific and policy reports
1753 - AELUM YEAR 1 Environmental impact assessments using integrated land-use modelling	The objective of the Administrative Arrangement "Assessments of environmental impacts of EU policies using integrated land use modelling" (AELUM) is for the JRC to support DG Environment with the application of the Land Use Integrated Sustainability Assessment Modelling Platform, applied to relevant policy initiatives of the EC.	JRC.H.8 Carlo LAVALLE	1.3.2.d	ENV	ENV	ANDRE' Viviane	CLIMA ENER REGIO		12/12/2013 30/04/2015	7-Scientific, technical & policy consultancy (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (70%)			COM-AA	1	Report on model runs	The Land Use Integrated Sustainability Assessment Modelling Platform is applied to relevant policy initiatives of the EC. This AA covers applications related to: climate-energy package, resource efficiency (focus on the support to the Communication on LAND) and related fields.	30/04/2015	Scientific and policy reports
2309 - PL: AELUM Yr2 Planned: Environmental indicators and assessments using land-use modelling	Land using modelling and other technical support: modelling support by linking different models related to land use and running, policy scenarios for impact assessments relevant to ENV policies (including for energy purposes and resource efficiency issues), and for prospective work (also in line with the new EC Roadmap).	JRC.H.8 Carlo LAVALLE	1.3.2.d	ENV	ENV	Carina VOPEL (ENV F1); Viviane ANDRE (ENV F1)			01/05/2015 31/12/2016	7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (60%)		1007 - LUISA Application of the LUISA Modelling Platform to Regional Policies and Territorial Cohesion	COM-AA	201501	Report on model runs	The Land Use Integrated Sustainability Assessment Modelling Platform is applied to policy initiatives of relevance for DG ENV. Report on policy scenario runs.	01/12/2015	Scientific and policy reports
														201601	Report on model runs	The Land Use Integrated Sustainability Assessment Modelling Platform is applied to policy initiatives of relevance for DG ENV. Report on policy scenario runs.	31/12/2016	Scientific and policy reports

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1.3.2.e Implement the eco-innovation action plan, in particular the pilot environmental technology verification programme.																		
235 - ETV II ETV Pilot Programme	Provide DG Environment with scientific and technical assistance to support the implementation of the pilot programme of Environmental Technology Verification (ETV), which links with the EU eco-innovation action plan adopted in December 2011, through initiating and running technical groups on water treatment, energy and materials; setting up and running a technical registry for the Statements of Verification that will be issued; and supporting DG ENV in the coordination and dissemination of ETV.	JRC.F.6 Evangelos TZIMAS	1.3.2.e	ENV	ENV	HENRY Pierre (ENV)			01/09/2012 31/10/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Minutes of TWG meetings	The JRC coordinates the ETV Technical Working Groups. This co-ordination includes preparing, hosting and chairing the meetings. At least two meetings per year are planned for each TWG, with additional meetings convened if required. This deliverable will contain the minutes of those meetings.	30/10/2015	JRC Technical reports
														2	Guidance and other relevant documents	One main role of the TWGs is to provide guidance on the application of ETV procedures, and in particular the screening of potential environmental impacts associated with the use of technologies in the scope of the ETV pilot programme, throughout their life cycle, and identification of relevant key environmental aspects and technical factors influencing these impacts. The corresponding guidance documents are one of the key outputs of the ETV programme.	31/08/2015	Scientific and policy reports
														3	List and summary of received complaints	Complaints related to specific technology verifications under ETV are addressed to the relevant Verification Body. In case of disagreement between the Verification Body and another party, an opinion may be asked to the relevant TWG. This deliverable will list the complains received by the TWGs and will provide an outline of their outcome.	31/10/2015	JRC Technical reports
														4	Central registry of Statements of Verification	This deliverable describes the setting-up and running by the JRC of a registry of the Statements of Verification that are issued by the ETV Verification Bodies. The registry should allow wide access to the underlying documents (subject to GVP rules on access to documents and in line with data protection rules) via an appropriate search facility.	31/01/2015	Scientific information systems and databases
														5	Presentations (Steering Group meetings)	The tasks of the JRC include the liaison between the TWGs and the ETV Steering Group chaired by DG ENV. This deliverable will present the inputs (presentations) provided by the JRC to the Steering Group.	31/10/2015	Oral presentations
														6	Contributions to technical documents	JRC has to provide support to DG ENV in the general co-ordination of the ETV pilot programme. This includes contributions or reviews on various documents and topics. This deliverable will outline the inputs provided by JRC in this context.	31/10/2015	JRC Technical reports
														7	Preparation and outcome of communication events	The AA foresees the JRC participation in (selected) information events and forums, to present ETV. This deliverable will provide a description of these activities.	31/10/2015	JRC Technical reports
														8	Newsletters and other communication documents	This deliverable will contain the communication documents (such as newsletters) that will be prepared by JRC in the context of this AA.	31/10/2015	JRC Technical reports
														9	Mission reports (IWG/ISO meetings)	The JRC will carry out missions to support DG ENV in international activities under ETV, and in particular will participate in meetings/events of the International Working Group (IWG) and in meetings of the International Standards Organisation (ISO) related to ETV. This deliverable will highlight the outcome of those meetings.	31/10/2015	Scientific and policy reports
														10	Written contributions to standardisation activity	This deliverable will outline the JRC contributions to the ISO work related ETV.	31/10/2015	JRC Technical reports
														11	ETV final report	This is the final report with recommendations on the follow-up to the ETV pilot programme, as a contribution to the evaluation of the pilot programme and its follow-up.	31/10/2015	Scientific and policy reports
1019 - INNO-WATER Innovation Support for Water-related Eco-industries and Monitoring	INNO-WATER supports the deployment of measures of the European Innovation Partnership on Water (EIP Water) and of the Water Framework Directive. It contributes to innovative solutions in EIP priorities such as water reuse, water and wastewater treatment and monitoring considering key enabling technologies for urban, industrial, rural, coastal and marine environments, thus supporting Blue and Green Growth.	JRC.H.1 Berni GAWLIK	1.3.2.e	ENV	n/a	MISIGA Pavel, SCHROEDER Robert (ENV C.1); DEUGENIO Joachim, CAESAR Jeroen (ENV C.2)	CNECT DEVCO GROW REGIO RTD	EIB - European Investment Bank GEO - The Group on Earth Observations OECD - Organisation for Economic Co-operation and Development (OECD) WSSTP - Water supply and sanitation Technology Platform	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			INS-RS	1	Guidance for water reuse practices	Following the adoption of the Commission Proposal on Water Reuse (expected by the end of 2015) establish guidance on water reuse, by determining the microbiological and chemical indicators to be applied and developing limits for microbiological and chemical parameters for each use, taking into account health and environmental impacts. The guidance will be drafted as an outcome of consultation with experts and stakeholders and will directly be coordinated with DG ENV.	30/12/2015	Scientific and policy reports
														2	Chemical indicators for water reuse	Technical report on the application of the JRC sampling device (MARIANI-Box) on the characterization of reused water at 9 pilot sites of the European Innovation Partnership Water in Spain, Germany, United Kingdom, France, Belgium, Italy and Israel among which the Olympic Park in London. The results will be used to establish the basis for a selection of guidance substances, e.g. for WSSTP.	30/08/2015	Scientific and policy reports
														3	Innovation for Urban Water- Practitioners Workshop	Proceedings of a Workshop on Urban Water Management with stakeholders of the EIP-Water with special focus on training and exchange of best practices, in collaboration with NETWORKH2O and the WSSTP.	30/09/2015	Scientific and policy reports
														4	Unconventional gas and water risks	Technical report from a scientific workshop on the current European knowledge base on chemical threats to water quality induced by exploitation of unconventional fuels and gases. Support to the JRC Shale Gas Platform.	31/12/2015	Scientific and policy reports
														5	Water-scanning for chemical threats	Technical report on chemical water risks with focus on wastewater, its re-use and sanitation and delivery of good quality drinking water in Latin America and Africa through monitoring collaboration with the Group on Earth Observation and the respective Community of Practice on Health and Environment (EX Del 106 Project 1012 CHEMERA).	30/06/2016	Scientific and policy reports
														6	Knowledge base industrial water reuse	Report on industrial water reuse technologies and pollutants abatement technologies for wastewater linked to the eMarketPlace of the European Innovation Partnership on Water and the Action Group on Industrial Water Reuse.	31/10/2016	Scientific and policy reports
														7	905 - Water4you Water quality for human consumption 2002 - SUL Sustainable and resilient			
1716 - DEMOWARE Innovation Demonstration for a Competitive and Innovative European Water Reuse Sector	DEMOWARE is an FP 7 project dealing with the promotion of water reuse technologies in the context of the European Innovation Partnership on Water. JRC is leading the WP on Dissemination in order to shape market opportunities for European water reuse solution providers. JRC promotes actively the validation and benchmarking of water reuse technologies and tools. The activity is closely linked to the INNO-WATER Project (1019).	JRC.H.1 Berni GAWLIK	1.3.2.e	ENV RTD	RTD	Luisa PRISTA (RTD I.2), Robert Schroder (ENV C1), Dagmar KALJARIKOVA (ENV C1)			01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			COM-IA	1	Water Reuse Safety Plans - a manual (WP 3)	Elaborating an innovative assessment framework to ease decision-making in water reuse. The task will combine the different assessment methods elaborated in the previous tasks of DEMOWARE to provide a holistic framework for decision making. Combination of LCA, RA and water resource impact indicators to identify tipping-points in decision-making for different use categories and boundary conditions, elaboration of decision trees for required source water quality, minimum technological performance.	31/12/2016	Scientific and policy reports
														3	Policy-makers workshops proceedings	All partners envisage participation in dedicated scientific seminars and conferences at national, EU and international level to present the project results and their applicability and marketability, and also to discuss the needs for future investigation. Project results will be disseminated through publications in relevant scientific journals and presentations in specialized conferences such as IWA. This task will involve the management of the knowledge generated through the project.	01/06/2016	Monographs with JRC editorship
1737 - DEMEAUMED Demonstrating Integrated Innovative technologies for an optimal and safe closed water cycle in Medit	The aim of demEAUMed project is the involvement of industry representatives, stakeholders, policy-makers and diverse technical and scientific experts in demonstrating and promoting innovative technologies, for an optimal and safe closed water cycle in Euro-Mediterranean tourist facilities, leading to their eventual market uptake. JRC contributes to the dissemination of project results as well as the identification of pivotalstakeholders/customers with focus at the SP Interface.	JRC.H.1 Berni GAWLIK	1.3.2.e	ENV RTD	RTD	Birgit de BOISSEZON (RTD I.3), Robert Schroder (ENV C1), Dagmar KALJARIKOVA (ENV C1)			01/01/2014 30/06/2017	7-Scientific, technical & policy consultancy (100%)			COM-IA	2	Policy-makers workshop proceedings	Final Conference (open doors) when all results and objectives are achieved. The conference will be addressed in particular to the main stakeholders and target users with a special focus on cooperation in defining the needed plans for enhancing technology transfer between research and industries, both SMEs and Large enterprises.	30/06/2017	Monographs with JRC editorship

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1.3.2.f Implement waste legislation, including by developing criteria for end-of-waste and determining best available techniques for waste management.																		
1749 - MiningWasteBREF Review of the mining waste BREF	The Mining Waste BREF will be revised because techniques have evolved since the first version was finalised, new activities like shale gas exploration are gaining importance and certain techniques require new assessment (e.g. cyanide gold mining). This BREF is different from other BREFs as it falls under the Mining Waste Directive and not the Industrial Emissions Directive. Nonetheless, its structure is very similar to other BREFs and it has been established according to the "Sevilla Process".	JRC.J.5 Peter EDER	1.3.2.f	ENV	ENV	Michel Sponar (DG ENV.A.2)			01/12/2013 30/11/2016	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Draft revised BREF	Formal draft of the revised mining waste BREF	29/05/2015	Scientific and policy reports
														2	Final revised BREF	Final version of the revised mining waste BREF	30/11/2016	JRC Reference reports
2460 - EoW4-INST End-of-Waste 4 (Institutional)	The main objectives are - to continue providing the necessary technical support to the setting up of end-of-waste criteria for both biodegradable waste and plastic waste; - to help evaluate the impacts of Regulation EU 333/2011 on Al and Fe metal scrap through a monitoring mechanism in line with recital (5) of the Regulation; and - to evaluate ad hoc notifications for national end-of-waste criteria notified by Member States in accordance with Article 6 (4) of the WFD.	JRC.J.5 Peter EDER	1.3.2.f	ENV	n/a	Diaz del Castillo Jose Jorge (ENV)			19/02/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)		263 - EoW4-COMP End-of-Waste 4 (Competitive)	INS-RS	2	Support with legal proposals and comitology	Assistance to DG ENV throughout the inter-service and comitology procedures for the adoption of end-of-waste criteria for plastic and biodegradable waste	31/12/2015	Scientific and policy reports
1.3.2.g Carry out integrated resource analyses as input to the green economy (bio-economy, eco-innovation, sustainable food, and sustainable buildings). Analyse resource efficiency and environment policies and their impact on industrial competitiveness. Analyse changes in consumption, production and trade patterns and how they affect emissions and resource use within and outside the EU.																		
195 - EMAS III Reference documents on best environmental management for two priority sectors	The project develops the sectoral reference documents on best environmental management practice for car manufacturing and the manufacture of electronic and electric equipment. The reference documents will include sector specific reporting indicators, performance benchmarks and best practice guidance. This work implements Article 46 of the Eco-management and Audit Scheme (EMAS) Regulation (EC/1221/2009).	JRC.J.5 Peter EDER	1.3.2.g	ENV	ENV	Betina Lorz (ENV.A.1)			13/12/2011 12/12/2015	7-Scientific, technical & policy consultancy (100%)		267 - SUSTIM Sustainable Production and Consumption Policies - Implementing Measures 704 - EMAS II Reference documents on best environmental management practice for 3 priority sectors	COM-AA	3	Reference document car manufacturing	Reference document on best environmental management practice in the car manufacturing sector	12/12/2015	Scientific and policy reports
														4	Reference document EEE manufacturing	Reference document on best environmental management practice in the manufacturing of electrical and electronic equipment	12/12/2015	Scientific and policy reports
552 - S2BioM Delivery of sustainable supply of non-food biomass	Analyses and modelling investigating the delivery of sustainable supply of non-food biomass to support a resource-efficient bioeconomy in Europe.	JRC.H.8 Boyan KAVALOV	1.3.2.g	ENV	RTD	Thomas SCHLEKER (RTD G.3.), Andrea Vettori (ENV.B.1)	AGRI CLIMA GROW RTD SANTE		01/09/2013 31/08/2016	1-Foresight studies & techniques (100%)			COM-IA	51	Environmental Footprint methods	D5.1: Report on final version of Environmental Footprint methods (Task 5.1, month 18)	28/02/2015	JRC Technical reports
														54	Consistent sustainability requirements	D5.4: Report on consistent sustainability requirements for bioeconomy value chains, including guidelines for harmonized methodologies to determine sustainability performance (M24)	31/08/2015	JRC Technical reports
														55	Bioeconomy value chain sustainability performance	D5.5: Guidelines on assessing bioeconomy value chain sustainability performance (M36)	31/08/2016	JRC Technical reports
902 - CARBON CAP Carbon Emission mitigation by consumption based accounting and policy	"Carbon emission mitigation by consumption-based accounting and policy" is a FP7 project on the quantification of consumption-based emissions of greenhouse gases and assessment of policy options. The JRC will carry out structural decomposition analysis and apply the FIDELIO model to the assessment of the effectiveness, efficiency and equity of consumption-based policies (including related transformations in the international flows of trade and investment).	JRC.J.5 Peter EDER	1.3.2.g	ENV	RTD	Andrea Tilche DG RTD, Carina Vopel DG ENV	CLIMA ENER		01/10/2013 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	2	Global drivers of change in emissions	Report on global drivers of change in emissions from a consumption perspective	31/12/2015	Scientific and policy reports
														3	Results of scenario modeling	Report with the results from the baseline and policy scenario modeling with FIDELIO	30/06/2016	Scientific and policy reports
2746 - GreenImpact-E2KLEMS Toward Green Competitiveness: Explaining and Predicting Productivity Impacts of Environmental Policy	This project builds a multi-industry framework for modelling & analysis of international competitiveness and environmental efficiency of EU industries. It integrates in a seamless manner the analysis of the industry production technology and its environmental effects in the form of the environmental output production function. It will include environmental effects into Total Factor Productivity for the same sectors as the EU-KLEMS database	JRC.J.5 Ruslan LUKACH	1.3.2.g	ENV	n/a	Francisco Caballero, Peder Kristensen, DG ENTR	ECFIN ENER ESTAT GROW RTD	ENV gov - Government organisations for environment, forestry, river and catchments, land use and environmental impact MIN Eco Energy EU - Ministries of Economy and Energy, Energy Authorities EU	01/01/2015 30/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	JRC.DDG.01		INS-ER	1	Environmentally extended E2KLEMS & indicators	Environmentally extended E2KLEMS database of relevant economic and environmental indicators In this deliverable we provide a statistical database of indicators used for estimation and validation of the environmentally extended E2KLEMS model for the period from the earliest possible date for which all variables are available.	31/12/2015	Scientific information systems and databases
														2	Environmentally extended KLEMS calibration results	Environmentally extended E2KLEMS: calibration results In this deliverable we provide an extended description of methodology and contents of the E2KLEMS growth and productivity accounting model and the underlying database. It will also contain the results of data quality assessment, gap analysis, sensitivity analysis and calibration results. This deliverable also provides a full report (prepared by DDG01) on the statistical properties of the composite indicator for environmental extension of t	31/12/2015	JRC Technical reports
														3	Apply E2KLEMS to environment & industrial policies	Application of E2KLEMS modelling framework to assessment of environmental and industrial policies In this report we will present the results of pilot policy assessment exercises using the new E2KLEMS analytical framework. The policy assessment case reports will contain: the description of the policy programme; detailed quantitative analysis of the policy effects on economic and environmental productivity; qualitative discussion and policy implication. DDG01 will contribute a section and on us	31/12/2016	JRC Technical reports
														4	E2KLEMS growth accounting framework	Policy assessment with environmentally extended E2KLEMS growth accounting framework This deliverable contains one or more less technical documents for wider audience of researchers, policy makers and practitioners presenting the results of pilot policy analysis cases.	31/12/2016	Scientific and policy reports
														5	Analyse Sustainable Productivity & Competitiveness	Environmentally Extended KLEMS Model for Analysis of Sustainable Productivity and Competitiveness One or more presentations at the economic and environmental policy research related conferences, where the description and the results of the project (in particular the results of policy cases) are presented to a wider audience of researchers, policy makers and practitioners.	31/12/2016	Oral presentations
1.3.3 Protection from environment-related risks to human health and wellbeing																		
1.3.3.a Implement the chemicals legislation and support policy development in cross-cutting areas such as mixture toxicity, endocrine disruptors and nanomaterials. Develop and implement a toxicology knowledge base for risk assessment. Assess pressures on the environment and pollution levels. Develop an information platform for chemical monitoring. Develop, validate and promote alternatives to animal testing and the regulatory acceptance of these alternatives, including																		
245 - ChemSafe Scientific and technical support to SAFETY ASSESSMENT OF CHEMICALS	REACH implementation: Scientific and technical support; Endocrine disruptors: Development of guidance and tools to support the assessment of EDs, including leading of an expert group, application of computer modelling, and content provision for the Endocrine Active Substances Information System (EASIS). Combination effects of chemicals - chemical mixtures: Targeted in vitro experiments and modelling to characterise and predict interactions of chemicals due to combined exposure / mixture effect													2	Updated content for EASIS	Extension and update of datasets in the Endocrine Active Substances Information System (EASIS)	31/12/2014	Scientific information systems and databases
														3	In silico modelling for identification of EDs	Report on the identification of potential EDs based on in silico modelling and mechanistic considerations.	30/06/2015	JRC Technical reports
														4	Report on mixtures survey	Development of a survey including a questionnaire for Member States authorities, stakeholder and interest groups to map activities and priorities related to combined exposure; assessment of the survey's outcome.	30/06/2015	Scientific and policy reports
														5	Mixtures case studies summary	Summary of available case studies and identification of the most suitable case studies to be further investigated for the development of technical guidelines	30/06/2015	JRC Technical reports
														6	Final project report	Final report summarising all activities and papers produced under all the project's tasks after 24 months	30/06/2015	Scientific and policy reports
264 - IPCHEM Information Platform for Chemical Monitoring (33080)	The subject matter of this Administrative Arrangement is the Design and further Development of the "Information Platform for Chemical Monitoring". The objectives of the project are the design, development and implementation of a web based platform for: - Facilitating an "integrated" approach for collecting, discovering, storing, accessing and exporting chemical monitoring data; - Hosting data currently not readily accessible; - Providing chemical monitoring information of defined quality.	JRC.H.6 Anders FRIIS-CHRISTENSEN	1.3.3.a	ENV	ENV	Peter Korytar, DG ENV A3	ESTAT RTD SANTE	ECHA - European Chemicals Agency (ECHA) EEA - European Environment Agency EFSA - European Food Safety Authority	20/12/2012 19/12/2015	2-Information systems & services (60%) 4-Methods and testing (10%) 7-Scientific, technical & policy consultancy (30%)			COM-AA	520	D5.2 Vision document of 2nd generation IPCheM	Evolutionary maintenance based on continuous feedback of user's requirements and preparation of a second generation IPCheM platform vision document	19/12/2015	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
805 - ED-SCREEN Endocrine disruptors – non-animal methodologies for screening and prioritisation	Development and evaluation of methodology for the screening of chemicals for endocrine disrupting properties using integrated high throughput in vitro and computational methods for prioritisation and assessment.	JRC.I.5 SHARON MUNN	1.3.3.a	ENV	n/a	ENV.A.3, Peter KORYTAR	GROW SANTE	ECHA - European Chemicals Agency (ECHA)	01/01/2014 31/12/2016	4-Methods and testing (100%)		245 - ChemSafe technical support to SAFETY ASSESSMENT OF CHEMICALS	INS-RS	1	Scoping study on available tools for ED screening	Reviewing available in vitro silico biokinetic and biodynamic models and decision tree tools for integrated assessment of endocrine activity	31/01/2015	JRC Technical reports
														3	AOPs for reproductive toxicity (male and female)	Developed AOPs on selected modes of action related to PPAR activation leading to reproductive toxicity, to be provided to OECD	30/12/2016	Scientific and policy reports
														4	AOPs for DNT via thyroid disruption	Developed Adverse Outcome Pathways (AOPs) on developmental neurotoxicity via thyroid disruption, to be provided to OECD. This includes the development of case studies and implementation of assays to further elucidate the pathways.	30/12/2016	Scientific and policy reports
807 - MixtureTox Toxicity assessment of combined exposures and chemical mixtures	Targeted in vitro experiments and mathematical modelling to characterise and predict toxicokinetic and toxicodynamic interactions of chemicals due to combined exposure or mixture effects.	JRC.I.5 Andrew WORTH	1.3.3.a	ENV	n/a	ENV.A.3, Peter KORYTAR		ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority	01/01/2014 31/12/2016	4-Methods and testing (100%)		245 - ChemSafe technical support to SAFETY ASSESSMENT OF CHEMICALS 694 - FOODSAFETOOL	INS-UR	3	Modelling of mixture toxicity	Application of scientific methodologies for the combined effects of chemicals	30/06/2015	Scientific and policy reports
														4	Mixtures cases studies	Case studies providing guidance on the toxicity assessment of mixtures, including the application of in vitro and computational methods	30/06/2016	Scientific and policy reports
809 - IATA-SkinSens Integrated testing strategies to predict skin sensitisation potential of chemicals	Development of integrated approaches based on non-animal methods for the identification and classification of skin sensitisation hazard. The main objectives are to develop OECD guidance on the evaluation of Integrated Approaches to Toxicity Assessment (IATA) for skin sensitisation, and specific solutions for ECHA to meet the 2018 REACH registration deadline.	JRC.I.5 Andrew WORTH	1.3.3.a	ENV	n/a	ENV.A.3, Karin KILIAN	GROW SANTE	ECHA - European Chemicals Agency (ECHA) OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2014 31/12/2016	4-Methods and testing (100%)		COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity of cosmetics 47 - DETECTIVE DETECTIVE - Detection of endpoints and biomarkers of repeated dose toxicity using in	INS-RS	3	Draft OECD Guidance on IATA for skin sensitisation	Draft of an OECD Guidance document on integrated approaches for testing and assessment (IATA) for skin sensitisation as delivered to OECD	31/12/2015	Scientific and policy reports
														4	Skin sensitisation IATA for ECHA	Tailor-made integrated approach for testing and assessment (IATA) for the European Chemicals Agency (ECHA) in support of REACH & CLP implementation	31/12/2016	Scientific and policy reports
														5	Report on QRA methodology	Report on the evaluation of the robustness of the quantitative risk assessment (QRA) methodology and its applicability to fragrance allergens	31/08/2015	Scientific and policy reports
814 - Data2Knowledge Data, information & knowledge platforms supporting chemical safety assessment & alternative methods	Management of the Endocrine Active Substances Information System (EASIS); contribution to the OECD Adverse Outcome Pathway Knowledge Base (AOP-KB) used to manage mechanistic knowledge on toxicological Modes of Action; management of the ChELIST database being a cross-referenceable lists of chemicals tested in various research projects or present on regulatory inventories; develop and monitor adoption of OECD Harmonised Templates (OHT); collaboration in the OECD eChemPortal Project.	JRC.I.5 Clemens WITTEWEHR	1.3.3.a	ENV	n/a	ENV.A.3, HANSEN Bjorn	SANTE	ECHA - European Chemicals Agency (ECHA) OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2014 31/12/2016	2-Information systems & services (100%)		165 - DIXA DIXA - Data infrastructure for chemical safety 816 - BioALM-Dissemination Dissemination of evaluated information on alternative methods in biomedical sciences and toxicology	INS-RS	2	AOP Knowledge Base - Report on Effectopedia	Report on collaboration with OECD and US-EPA for the creation and roll-out of Effectopedia, the graphical tool; part of the Adverse Outcome Pathway Knowledge Base (AOP-KB). An intermediate deliverable will be the publication of the AOP-KB requirements.	02/11/2015	Scientific information systems and databases
														3	Stand-alone Intermediate Effects DB	Use of IUCLID6 for the Intermediate Effects DB to be later integrated as part of the Adverse Outcome Pathway Knowledge Base (AOP-KB); for scientific community to capture and share knowledge on chemicals (documented through a report)	20/07/2016	Scientific information systems and databases
														4	Report on eChemPortal design activities	Report on the collaboration with OECD in the areas of analysis, design and contractual documents of the eChemPortal, a cross-referenceable lists of chemicals tested in various research projects or present on regulatory inventories	09/10/2015	JRC Technical reports
														6	ChELIST Update	Update of the ChELIST database, which provides searchable lists of chemicals (and associated identifiers and structures) tested in various research projects or present on regulatory inventories (e.g. REACH). The deliverable will be documented through a report.	14/04/2016	Scientific information systems and databases
														7	AOP-KB: OECD Harmonised Template 201	Report on a quantitative tool as part of the Adverse Outcome Pathway Knowledge Base (AOP-KB), for scientific community to capture and share knowledge on chemicals.	19/06/2015	Scientific information systems and databases
														8	Integrated AOP-KB	Report on collaboration with OECD and US-EPA for the creation and roll-out of the AOP-KB hub, the integration between all elements (without Intermediate Effects DB that will be integrated in a second step).	21/03/2016	Scientific information systems and databases
														9	XLS2OHT	IT application which can handle adequately formatted Excel files and migrate them into OECD Harmonised Template files. The deliverable will be documented through a report/description.	06/02/2015	Scientific information systems and databases
														1	Public launch of the new TSAR application	Provision to the public of a new Tracking System for Alternative methods towards Regulatory acceptance (TSAR). It will provide full transparency about methods submitted to EURL ECVAM for validation by tracking any step the method undergoes, including the decisions taken until the method reaches regulatory acceptance	31/01/2015	Scientific information systems and databases
														3	New policy areas covered by DB-ALM	Provision of new DB-ALM data sectors that cover additional policy areas, such as endocrine disruption, nanotoxicology or safety evaluations of medical devices.	15/12/2015	Scientific information systems and databases
816 - BioALM-Dissemination Dissemination of evaluated information on alternative methods in biomedical sciences and toxicology	Provision of ready-to-use standardised and evaluated descriptions of in vitro and in silico methods for regulatory and research purposes in toxicology and biomedical sciences via: i) web-accessible platforms and ii) search guidance to facilitate their uptake by end-users. This includes the EURL ECVAM's DataBase service on Alternative Methods (DB-ALM) and the QSAR Model Database, the Tracking System for Alternative methods towards Regulatory acceptance (TSAR) and the EURL ECVAM Search Guide.	JRC.I.5 Annett JANUSCH ROI	1.3.3.a	ENV	n/a	ENV.A.3, Satu Susanna LOUHIMIES	GROW RTD SANTE	ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority EP - European Parliament	01/01/2014 31/12/2016	2-Information systems & services (100%)		165 - DIXA DIXA - Data infrastructure for chemical safety 814 - Data2Knowledge Data, information & knowledge platforms supporting chemical safety assessment & alternative methods	INS-RS	4	Alternative methods from EU Integrated Projects	Provision of open access to alternative methods as a result from Commission sponsored projects in biomedical sciences via one access point by using JRC's specialised dissemination platforms. This will be achieved by: i) establishing an improved systematic approach via an agreement with JRC's partner DG RTD and/or related entities, and ii) subsequently updating the respective database formats and/or contents as appropriate	31/12/2015	Scientific information systems and databases
														5	EURL ECVAM Search Guide – 3rd edition	Publication of a revised edition of the EURL ECVAM Search Guide that will include a comprehensive update to the state-of-the-art of suggested data retrieval procedures including advices and guidance as well as resources relevant for biomedical sciences	30/06/2016	Scientific and policy reports
														6	Web portal on alternative approaches	The portal shall provide access to selected specialised databases in the various policy and/or subject areas of alternative approaches for regulatory and research purposes.	15/12/2016	Scientific information systems and databases
														7	Second DB-ALM Report on mechanistic information	Updated status report providing an overall view of mechanistic information on key events for adverse outcome pathways made available by the DB-ALM information content	15/12/2016	Scientific and policy reports
														8	DB-ALM (Q)SAR model and TSAR database updates	Provision (through continuous revisions) of: i) new and/or updated standardised and evaluated descriptions of in vitro techniques and QSAR models and related information ii) updated reporting formats to new upcoming international standards, such as by the OECD, or similar requirements; iii) maintained and further developed databases (e.g. optimisations/upgrades of data management, display and retrieval approaches, technical compliance insurance etc).	30/12/2016	Scientific information systems and databases
														3	EURL ECVAM Recommendation on the EpiOcular assay	EURL ECVAM Recommendation on the EpiOcular assay, an alternative method for eye irritation testing	31/03/2015	Scientific and policy reports
														6	EURL ECVAM Recommendation on CYP induction assays	EURL ECVAM Recommendation on two assays measuring the induction of liver enzymes (cytochrome P450) and using human liver cells (HepaRG cell line and cryopreserved hepatic cells)	31/03/2015	Scientific and policy reports
														8	2015 Status report on alternative methods	EURL ECVAM status report on the development, validation and regulatory acceptance of alternative methods (2015)	31/05/2015	Scientific and policy reports
817 - Trans2Standards Translation of validated alternative methods into internationally recognised standards	Implementation of the post-validation workflow including the peer review of validated methods by ESAC, the issuing of EURL ECVAM Recommendations, the submission of Test Guideline (TG) project proposals to the OECD, the drafting and progressing of new TGs at OECD, and provision of support for the adoption within EU legislation. This project also includes assessment of test submissions, their prioritisation and the engagement with EU regulators, stakeholders and ICATM.	JRC.I.5 Valerie ZUANG	1.3.3.a	ENV	n/a	ENV.A.3, Karin KILIAN	GROW SANTE	ECHA - European Chemicals Agency (ECHA) EDQM - European Directorate for the Quality of Medicines and HealthCare (EDQM, Council of Europe) EFSA - European Food Safety Authority EMA - European Medicines Agency (EMA) ICATM - International Cooperation on Alternative Test Methods (ICATM) ICH - International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH) OECD - Organisation for Economic Co-operation and Development (OECD) VICH - International Conference on Harmonisation of Technical Requirements for Registration of Veterinary Products (VICH)	01/01/2014 31/12/2016	4-Methods and testing (100%)		603 - HARNs Harmonisation and standardization for testing chemical substances including nanomaterials 818 - VAL-INVITRO Validation of in vitro methods towards regulatory acceptance 820 - NOVEL-INVITRO Identification, analysis and characterisation of promising in vitro methods 821 - GUIDE&TRAIN-INVITRO Development of guidance and training materials supporting validation activities	INS-RS	9	EURL ECVAM Recommendation on ARTA	EURL ECVAM Recommendation on androgen receptor transactivation assays (ARTA)	30/11/2016	Scientific and policy reports
														10	2016 Status report on alternative methods	EURL ECVAM status report on the development, validation and regulatory acceptance of alternative methods (2016)	31/05/2016	Scientific and policy reports
														11	Draft PBGT on ARTA	Draft Performance Based Test Guideline (PBGT), submitted to OECD, on androgen receptor transactivation assays (ARTA)	15/12/2016	Scientific and policy reports
														12	Draft OECD Test Guideline on the EpiOcular EIT	Draft OECD Test Guideline, submitted to the OECD, on the EpiOcular Eye Irritation Test (EIT)	31/01/2015	JRC Technical reports
														13	EURL ECVAM Recommendation on ZFET	EURL ECVAM Recommendation on the zebrafish embryo acute toxicity test (ZFET)	31/01/2015	Scientific and policy reports
														14	Draft VICH GL on waiving of vaccines testing	Draft VICH guideline on the Harmonization of Criteria to Waive Target Animal Batch Safety Testing for Live Vaccines for Veterinary Use	30/06/2015	Scientific and policy reports
														15	Vaccines QC 3Rs Report	JRC Scientific report on 3Rs activities in the quality control for vaccines	01/03/2015	Scientific and policy reports
														16	EURL ECVAM Recommendation on the MELN assay	EURL ECVAM Recommendation on the MELN oestrogen receptor transactivation assay identifying endocrine disruptor activity of chemicals	30/09/2015	Scientific and policy reports

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JRC WORK PROGRAMME 2015 - 2016																																
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category														
818 - VAL-INVITRO Validation of in vitro methods towards regulatory acceptance	This project delivers validated in vitro methods that are urgently needed in the EU and international regulatory environment. The project uses a stepwise approach by assessing if the in vitro methods are robust, reliable within and between laboratories, can run under formal quality standards and give indications of being a relevant, predictive method that have the potential to be implemented for regulatory uses.	JRC.I.5 Sandra COECKE	1.3.3.a	ENV	n/a	ENV.A.3, Satu Susanna LOUHIMIES	GROW SANTE	ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2014 31/12/2016	4-Methods and testing (100%)		817 - Trans2Standards Translation of validated alternative methods into internationally recognised standards 820 - NOVEL-INVITRO Identification, analysis and characterisation of promising in vitro methods 821 - GUIDE&TRAIN-INVITRO Development of guidance and training materials supporting validation activities	INS-RS	2	Clearance in vitro method GLP final report	Based on the metabolic clearance in vitro method data generated in the EURL ECVAM GLP test facility a decision is made to continue with a between laboratory EU-NETVAL ring trial	31/12/2015	JRC Technical reports														
														3	Metabolic profiling method GLP final report	Based on the Chemical metabolic profiling in vitro method data generated in the EURL ECVAM GLP test facility a decision is made to continue with a between laboratory EU-NETVAL ring trial	31/12/2016	JRC Technical reports														
														4	First set of STANDARDS Clearance in vitro method	Based on the Chemical metabolic profiling in vitro method data generated in the EURL ECVAM GLP test facility a decision is made to continue with a between laboratory EU-NETVAL ring trial	30/06/2016	JRC Technical reports														
														5	EU-NETVAL Study Reports AR-CALUX in vitro method	These reports describe the result of the coded testing of the AR-CALUX in vitro method in the EU-NETVAL test facilities	30/09/2016	JRC Technical reports														
														6	EU-NETVAL transfer report Clearance method	This report concludes on the outcome of the training and transfer of the Metabolic Clearance in vitro method to the EU-NETVAL test facilities.	31/12/2016	JRC Technical reports														
														7	EU-NETVAL Study Reports Clearance in vitro method	These reports describe the result of the coded testing of the Metabolic Clearance in vitro method in the EU-NETVAL test facilities	15/09/2017	JRC Technical reports														
														9	Trial report FINAL STANDARDS AR-CALUX method	Report on the completed validation trial of the AR-CALUX in vitro method concluding on the outcome of a EU-NETVAL validation ring trial comprising a series of studies focusing on different aspects of the trial including its application in the EU and international regulatory environment and defining the final EURL ECVAM reference standards based on the input of the EU-NETVAL test facilities	30/12/2016	Validated methods, reference methods and measurements														
														10	AR-CALUX in vitro method DB-ALM protocols	DB-ALM Protocols, forms and e-learning module on in vitro methods for androgen receptor transactivation assays (ARTAs) feeding into project #816	31/12/2016	Validated methods, reference methods and measurements														
														11	Trial report FINAL STANDARDS Clearance method	Report on the completed validation trial of the Metabolic Clearance in vitro method concluding on the outcome of a EU-NETVAL validation ring trial comprising a series of studies focusing on different aspects of the trial including its application in the EU and international regulatory environment and defining the final EURL ECVAM reference standards based on the input of the EU-NETVAL test facilities	31/12/2017	Validated methods, reference methods and measurements														
														12	Clearance in vitro method DB-ALM protocols	DB-ALM Protocols, forms and e-learning module of in vitro method related to the metabolic clearance feeding into project #816	31/12/2017	Validated methods, reference methods and measurements														
														13	First set of STANDARDS AR-CALUX in vitro method	Report describing the acceptance criteria of the essential elements (biological test system, measurement methods, etc.) of the ARTA AR-CALUX in vitro methods and first set of EURL ECVAM reference standards	01/06/2015	JRC Technical reports														
														14	EU-NETVAL transfer report AR-CALUX in vitro method	This report concludes on the outcome of the training and transfer of the AR-CALUX in vitro method to the EU-NETVAL test facilities	30/06/2015	JRC Technical reports														
														15	EURL ECVAM SOP Clearance in vitro methods	After transfer of the selected metabolic clearance in vitro method carry out a study with reference chemicals to produce a EURL standard operating procedure necessary for ADME method standard setting	01/06/2015	JRC Technical reports														
														16	EURL ECVAM SOP metabolic profiling in vitro method	After transfer of the selected chemical metabolic profiling in vitro method carry out a study with reference chemicals to produce a EURL standard operating procedure necessary for ADME method standard setting	01/06/2016	JRC Technical reports														
														17	Report on biokinetic in vitro methods	Compilation of biokinetic in vitro methods on key biokinetic properties of chemicals, including metabolic clearance and metabolite identification of chemicals, as the outcome of an expert workshop	01/06/2015	Scientific and policy reports														
														821 - GUIDE&TRAIN-INVITRO Development of guidance and training materials supporting validation activities	The project promotes Good In Vitro Method Practices with focus on the chemicals and the biological models used to validate in vitro methods. Furthermore, it aims to increase trust in validated in vitro methods, avoid duplication efforts and obtain international harmonised approaches by developing international guidance documents. The establishment of training materials, collaboration tools and specific platforms will facilitate interaction and cooperation of validation and end-user labs	JRC.I.5 Sandra COECKE	1.3.3.a	ENV	n/a	ENV.A.3, Satu Susanna LOUHIMIES	SANTE	OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		817 - Trans2Standards Translation of validated alternative methods into internationally recognised standards 818 - VAL-INVITRO Validation of in vitro methods towards regulatory acceptance 820 - NOVEL-INVITRO Identification, analysis and characterisation of promising in vitro methods	INS-RS	2	Good In Vitro Method (GIVIM) Practice Guidance	The GIVIM Practice Guidance combines aspects of Good Laboratory Practices (GLP) and Good Cell Culture Practice (GCCP) to combine it in a Good In vitro Methods Practice (GIVIM) aiming to increase, if followed, the trust in validated in vitro methods for regulatory purposes. The guidance will be developed in collaboration with partners such as OECD, EU-NETVAL, ICATM, EPA and SEURAT-1	30/11/2015	Scientific and policy reports
																												3	Technical guidance on test system characterisation	Technical guidance describing the characterisation of test systems used for in vitro methods in regulatory testing.	15/12/2015	JRC Technical reports
4	Strategic training plan uptake of in vitro methods	This training plan maps the specific training needs of end-users such as EU-NETVAL test facilities.	31/12/2015	JRC Technical reports																												
5	Tech. procedures on in vitro test item solubility	Technical guidance describing the characterisation of test items for the use in in vitro assays for the purpose of regulatory testing	31/10/2016	JRC Technical reports																												
6	Training material & collaboration tools	Training material responding to the specific training needs of end-users. Collaboration tools facilitating the wider use and uptake of in vitro methods by end-users	30/11/2016	Training																												
2122 - EDEXIM PART II Scientific and Technical support to the implementation of Regulation (EC) 649/2012 (PIC) - Part II	Regulation (EC) 649/2012 concerning export and import of dangerous chemicals requires ECHA to operate a database and a web interface to this databank from 01/03/2014. The interface shall with various restrictions be available to MS authorities, industry, Commission services, and the public. ECHA is developing new software for this task but the new software will only become operational in 2nd half 2014. IHCP will therefore continue the operation of the existing software as support to ECHA.	JRC.I.3 Alexandre PATAK DENNSTEDT	1.3.3.a	ENV	n/a	DG ENV/A.3 Jürgen Helbig, juergen.helbig@ec.europa.eu	SANTE	- EUROPEAN CHEMICALS AGENCY*	01/09/2014 28/02/2015	2-Information systems & services (100%)		COM-TW	1															Export of data content	Hand-over of task including full transfer of data contained in the database to ECHA	28/02/2015	Scientific information systems and databases	
2184 - PROSAFE Promoting the Implementation of Safe by Design	Coordination of EU and international efforts in safety assessment and management of nanomaterials at the EU and Global level. This will contribute to the coordination among OECD WP/MN, ISO/CEN, NANOREG II and other projects in order to ensure that they deliver appropriate tools to support the regulations. Datasets will be shared, combined and jointly exploited; it will also provide harmonisation of test methods and standardisation of measurement techniques by networking of experts.	JRC.I.4 Juan RIEGO SINTES	1.3.3.a	ENV RTD	RTD	Georgios KATALAGARANIAKIS (RTD.G.4); Andrej Kobe (ENV.A.3)	GROW SANTE	CEFIC - European Chemical Industry Council (CEFIC) Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry	01/01/2015 31/12/2016	7-Scientific, technical & policy consultancy (100%)		1470 - NANODEFINE Development of methods and standards supporting the implementation of the Commission 812 - NanoComput Computational approaches in the safety assessment of nanomaterials 646 - NanoRep Repository of representative	COM-IA	1	PROSAFE Annual Report	JRC contribution to the 12-months Project Report (December 2015)	31/12/2015	JRC Technical reports														
														2	PROSAFE Final Report	JRC contribution to the final Project Report (December 2016)	31/12/2016	JRC Technical reports														
1.3.3.b Develop harmonised methodologies, standards and reference materials for the measurement and hazard assessment of nanomaterials and emerging and priority pollutants. Set up a nano database and repository.																																
70 - QualityNano A pan-European infrastructure for quality in nanomaterials safety testing	The aim of QualityNano is a Research Infrastructure Project for the creation of a 'neutral' scientific and technical space in which scientists from all stakeholder groups can engage, develop, and share the scientific best practices in the field. One of the 'pillars' of QualityNano is the provision of Transnational Access to unique facilities for EU researchers. The IHCP provides access to its cyclotron facility for NP radiolabelling, and is also involved in a research WP on this subject.	JRC.I.4 Peter GIBSON	1.3.3.b	ENV RTD	RTD	Andrej Kobe (ENV.A.3), Nicholas SEGBARTH (RTD.D.3)	ENER SANTE	Reg Aut R&D - Candidate Countries / Members States regulatory authorities on Research	01/02/2011 31/01/2015	4-Methods and testing (100%)		593 - NanoTrace (Radio)labelling of nanomaterials for tracing in biological systems 595 - NanoUptake Biokinetics of nanomaterials: Barrier crossing and uptake	COM-IA	1	Project final report contribution	This deliverable consists of the IHCP contribution to the QualityNano final report. It will summarise all the technical and scientific developments over the project lifetime of 4 years regarding the development of novel radiolabelling methods. It will also provide an overview of the work performed at the JRC cyclotron facility by EU researchers accessing the cyclotron under the Transnational Access programme.	31/01/2015	JRC Technical reports														
78 - MARINA Managing Risks of Nanomaterials	Develop a strategy for Risk Management for NMs by addressing the four themes in the classical paradigm: Materials, Exposure, Hazard and Risk. Develop referential tools from each of them: reference NMs with referential characterisation methods; strategies for monitoring exposure; harmonised, standardised reference methods for hazard assessment and methods to further understand the properties, interaction, exposure, and fate. Integrate them, both for human health and environment.	JRC.I.4 Juan RIEGO SINTES	1.3.3.b	ENV RTD	RTD	Georgios KATALAGARANIAKIS (RTD.D.3); Andrej Kobe (ENV.A.3)	GROW SANTE	CEFIC - European Chemical Industry Council (CEFIC) Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry	01/11/2011 31/10/2015	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		612 - NANOREG A common European Approach to the Regulatory Testing of Nanomaterials 373 - NanoAssess Regulatory approaches for the assessment of nanomaterials 824 - WOKS Nanomaterial-surface area based occupational exposure strategy	COM-IA	2	Reference Nanomaterials Dossiers	Reference Nanomaterials Dossiers (June 2015)	30/06/2015	JRC Technical reports														
														3	MARINA Final Project Report	JRC contribution to the MARINA Final Project Report	31/10/2015	JRC Technical reports														
178 - NANOMILE Engineered nanomaterial mechanisms of interactions with living systems	The NanoMILE project is aiming at establishing a fundamental understanding of the mechanisms of nanomaterial interactions with living systems and the environment, and uniquely to do so across the entire life cycle of nanomaterials and in a wide range of target species. Identification of critical properties (physico-chemical descriptors) that confer the ability to induce harm in biological systems is key to allowing these features to be avoided in nanomaterial production ("safety by design").	JRC.I.4 Douglas GILLILAND	1.3.3.b	ENV RTD	RTD	Georgios KATALAGARANIAKIS (RTD.D.3); Andrej Kobe (ENV.A.3)	GROW SANTE	ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority	01/03/2013 28/02/2017	4-Methods and testing (100%)	JRC.I.5	596 - NanoTox Harmonized test methods for studying biokinetics, uptake and toxicity of nanomaterials 814 - Data2Knowledge Data, information & knowledge platforms supporting chemical safety assessment & alternative methods 812 - NanoComput Computational approaches in	COM-IA	2	Project interim report	Report summarising the results of the project.	30/04/2015	JRC Technical reports														
														3	Project final report	Report summarising the results of the NANOMILE project	30/04/2016	JRC Technical reports														

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
212 - NANOREG A common European Approach to the Regulatory Testing of Nanomaterials	Based on questions and requirements supplied by regulators and legislators, this very large scale project will deliver the answers needed by regulators and legislators on EHS. It will investigate the applicability of current instruments to manufactured nanomaterials for the development of a comprehensive overall framework for testing and assessment as well as risk management of engineered nanomaterials in the regulatory context in relation to human health and environment.	JRC.I.4 Juan RIEGO SINTES	1.3.3.b	ENV RTD	RTD	Georgios KATALGARIANAKIS (RTD.D3); Andrej Kobe (ENV.A.3)	GROW SANTE	CEFIC - European Chemical Industry Council (CEFIC) Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry	01/03/2013 31/08/2016	7-Scientific, technical & policy consultancy (100%)		78 - MARINA Managing Risks of Nanomaterials 373 - NanoAssess Regulatory approaches for the assessment of nanomaterials 645 - NanoBase Databases and inventories for nanomaterials and their uses 646 - NanoRep Repository of representative	COM-HA		3	Stakeholder workshop	Report on workshop with stakeholders	31/12/2015	Scientific and policy reports
															4	NANOREG 36-Months Project Review Report	36-Months Project Review Report	31/03/2016	JRC Technical reports
															5	Nanomaterials Safety Assessment Framework	Proposal for a Safety Assessment Framework generally applicable to Nanomaterials taking into account different regulatory contexts (project deliverable)	30/09/2016	Scientific and policy reports
															6	Toolbox for Nanomaterials Safety Assessment	Toolbox containing guidance, strategies and methods developed in the NANOREG project (included in web-platform)	30/09/2016	Technical systems
															7	NANOREG Final Project Report	Final Project Report (Sep 2016)	30/09/2016	JRC Technical reports
216 - DEROCA Development of safer and more Eco-friendly flame Retardant materials ...	DEROCA's objectives are to develop and introduce new safer and more eco-friendly flame retardants through exploiting the synergistic effect of carbon nanotubes (fire retardancy promoter) with current or new promising organic or inorganic additives for five final products (large volumes of commodity polymers including industrial and consumer goods). JRC's role is to assess the toxicity and safe use of these new FR materials in production, use and fire situations.	JRC.I.4 KARIN ASCHBERGER	1.3.3.b	ENV RTD	RTD	Christos TOKAMANIS (RTD D.3); Andrej Kobe (ENV.A.3)	GROW SANTE	CC EU - Candidate Countries EU CEFIC - European Chemical Industry Council (CEFIC) Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Cosmetics	01/12/2012 30/11/2015	7-Scientific, technical & policy consultancy (100%)		COM-HA	3	Final report	Final DEROCA project report	31/12/2015	JRC Technical reports		
373 - NanoAssess Regulatory approaches for the assessment of nanomaterials	Support to the development and implementation of the EU legislation (such as REACH Regulation, the Cosmetic Products Regulation, legislation on food and food contact materials) with focus on nanomaterials with regard to safety aspects of nanomaterials (cosmetics and food). This includes participation in COM working groups, and scientific support regarding labelling requirements (e.g. cosmetics and food).	JRC.I.4 Juan RIEGO SINTES	1.3.3.b	ENV	n/a	Andrej Kobe (ENV.A.3)	GROW SANTE	CEFIC - European Chemical Industry Council (CEFIC) Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Cosmetics Europe - European Cosmetics Association ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority ICCR - International Collaboration of Cosmetics (ICCR)	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		78 - MARINA Managing Risks of Nanomaterials 212 - NANOREG A common European Approach to the Regulatory Testing of Nanomaterials 216 - DEROCA Development of safer and more Eco-friendly flame Retardant materials ... 245 - ChemSafe Scientific and technical support to SAFETY ASSESSMENT OF CHEMICALS 603 - HARNS Harmonisation and standardization for testing chemical substances including nanomaterials 645 - NanoBase Databases and inventories for	INS-RS		1	Workshop on Regulatory assessment of nanomaterials	The proposed workshop will present and review recent scientific and policy developments regarding the Risk Assessment of MNs within the framework of the NANOREG project, and will bring together scientists, regulators and other stakeholders. It will gather the main protagonists of the nanotechnology communities (scientists, SME, nanotechnology industry, representatives of EU national authorities, the EC and OECD representatives), including ERI invited participants.	01/09/2015	Training
															5	Assessment of nanomaterials in REACH (2015)	Summary report on output of contributions to the Competent Authority Sub-group on Nanomaterials (CASG Nano), the ECHA Nanomaterials Working Group, the GAARN and other fora related to the implementation of REACH with regard to nanomaterials.	31/12/2015	JRC Technical reports
															6	Support to the assessment of nanomaterials (2015)	Summary report on output of contributions to the Interservice Group on Nanotechnology and other Commission Working Groups.	31/12/2015	JRC Technical reports
															7	Assessment of nanomaterials in cosmetics (2015)	Summary report on output of contributions to experts and working groups on characterisation of nanomaterials in cosmetics in ICCR and other fora.	31/12/2015	JRC Technical reports
															8	Assessment of nanomaterials in REACH (2016)	Summary report on output of contributions to the Competent Authority Sub-group on Nanomaterials (CASG Nano), the ECHA Nanomaterials Working Group, the GAARN and other fora related to the implementation of REACH with regard to nanomaterials.	31/12/2016	JRC Technical reports
593 - NanoTrace (Radio)labelling of nanomaterials for tracing in biological systems	Development of methods for the radiolabelling of nanoparticles, mainly those of the OECD priority-list, to facilitate ultra-high sensitivity in vitro tracing experiments, and nanoparticle tracing and dosimetry in biological/environmental systems. The NanoTrace project will build on the relevant expertise developed at the IHCP regarding the development of novel methods for radiolabelling of nanoparticles, and will deliver radiolabelled particles to IHCP researchers and collaborating partners.	JRC.I.4 Peter GIBSON	1.3.3.b	ENV	n/a	Andrej Kobe (ENV.A.3)	SANTE	70 - QualityNano A pan-European infrastructure for quality in nanomaterials safety testing 375 - NanoCharacter Characterisation and analytical methods for nanomaterials 595 - NanoUptake Biokinetics of nanomaterials: Barrier crossing and uptake	01/01/2014 31/12/2016	4-Methods and testing (100%)		INS-UR		4	Report on NP radiochemical synthesis	Following the handover of the JRC cyclotron from the IHCP, after January 2015 the project research will focus on synthesis of radiolabelled nanoparticles using radiochemical methods, since NP direct activation will no longer be possible 'in-house' at the IHCP. This report will deal with one or more of the OECD priority-list NPs and will describe the incorporation of intrinsic or extrinsic radiolabels during the synthesis process.	30/11/2015	JRC Technical reports	
														5	Report on NP radiolabelling	This report will review progress over the past decade regarding the development of cyclotron-based, and other, methods for nanoparticle radiolabelling. It will summarise the pros and cons of radiolabelling vs other tracing and detection methods, and will provide a critical overview of results obtained to date.	31/10/2016	JRC Technical reports	
596 - NanoTox Harmonized test methods for studying biokinetics, uptake and toxicity of nanomaterials	The NanoTox project aims at adapting, developing and optimising in vitro tests methods for investigation of interactions between cells and nanoparticles, including intracellular uptake and translocation across relevant physiological barriers, as well as for hazard assessment of nanomaterials. The approach integrates also advanced cell sensing, imaging and labelling techniques, as well as omics studies, such as genomics, proteomics and metabolomics for mechanistic studies.	JRC.I.4 Agnieszka KINSNER-OVASKAINEN	1.3.3.b	ENV	n/a	Andrej Kobe (ENV.A.3)	GROW SANTE	ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2014 31/12/2016	1-Foresight studies & techniques (50%) 4-Methods and testing (50%)		70 - QualityNano A pan-European infrastructure for quality in nanomaterials safety testing 375 - NanoCharacter Characterisation and analytical methods for nanomaterials 595 - NanoUptake Biokinetics of nanomaterials: Barrier crossing and uptake 603 - HARNS Harmonisation and standardization for testing chemical substances including nanomaterials 997 - NANOPROTEOMICS Potential health impact of nanoparticles used in consumer products	INS-UR		4	Biokinetics of nanomaterials - SiO2	JRC Report/publication on the interaction biokinetics of nanomaterials with different cell types: analysis of the mechanisms of cellular uptake. Application to SiO2 of different sizes	31/10/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															5	Morphological transformation induced by NM	Protocol for testing the morphological neoplastic transformation induced by nanomaterials. Application to TiO2.	30/06/2016	JRC Technical reports
															6	Cellular trafficking of nanomaterials	Article on the cellular trafficking of nanomaterials as a function of physico-chemical properties. Application to SiO2 of different sizes and surface properties	30/06/2016	JRC Technical reports
															7	High content analysis in nanotoxicology	A battery of test protocols for high content image analysis aimed at toxicological profiling of nanomaterials. Application to Au, Ag and SiO2	27/10/2016	JRC Technical reports
															8	Adaptation of In Vitro Micro-nucleus Test	JRC report on the inter-laboratory testing of nanomaterials (Au, SiO2, Ag, Carbon Nano Tubes) by in vitro micronucleus test, in the frame of the OECD Working Party on Nanomaterials	30/11/2016	JRC Technical reports
603 - HARNS Harmonisation and standardization for testing chemical substances including nanomaterials	To support and facilitate EU policy making and international consensus-reaching on risk assessment methodologies for chemical substances (e.g. Test Methods Regulation) with focus on nanomaterials, particularly at OECD (WNT, WPMN) and ISO (TC 229)/CEN (TC 352) level, including harmonised reporting schemes.	JRC.I.4 Juan RIEGO SINTES	1.3.3.b	ENV	n/a	Karin Killian (ENV.A.3)	GROW SANTE	CEFIC - European Chemical Industry Council (CEFIC) CEN - European Committee for Standardization Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority ISO - International Organization for	01/01/2014 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		373 - NanoAssess Regulatory approaches for the assessment of nanomaterials 596 - NanoTox Harmonized test methods for studying biokinetics, uptake and toxicity of nanomaterials 645 - NanoBase Databases and inventories for nanomaterials and their uses 646 - NanoRep Repository of representative nanomaterials for testing 651 - NPAS Nanotechnology: policy advice and standardisation 817 - Trans2Standards Translation of validated	INS-RS		3	Test Methods for 7th ATP to TMR	Methods for ATP-7 of Test Methods Regulation (number and dates to be confirmed). The number of methods depends on a regular priority setting and developments in the scientific area. The exact date of approval by the EU National Coordinators is not predictable and, in addition, the exact date of the official voting and adoption in the comitology process is even less predictable.	31/03/2015	JRC Technical reports
															4	Report on harmonisation and standardisation (2015)	Summary report on output of contributions to EU NCM-41 (Spring 2015), OECD WNT-26 (Spring 2015), OECD WPMN-14 (Spring 2015), ISO meetings (dates tbd), and CEN meetings (spring and autumn)	31/12/2015	JRC Technical reports
															5	Test methods for 8th ATP to TMR	Test methods for 8th ATP for Test Method Regulation (number and dates to be confirmed). The number of methods depends on a regular priority setting and developments in the scientific area. The exact date of approval by the EU National Coordinators is not predictable and, in addition, the exact date of the official voting and adoption in the comitology process is even less predictable.	31/12/2015	JRC Technical reports
															6	Report on harmonisation and standardisation (2016)	Summary report on output of contributions to EU NCM-42 (Spring 2016), OECD WNT-27 (Spring 2016), OECD WPMN-15 (Spring 2016), ISO 2 meetings (dates tbd), and CEN meetings (spring and autumn)	31/12/2016	JRC Technical reports
645 - NanoBase Databases and inventories for nanomaterials and their uses	Work towards the development and establishment of a web-platform on nanomaterials and their use, including safety aspects and regulation. Maintain and support the IUCLID (International Uniform Chemical Information Database) - based JRC NANOhub database (http://ihcp.jrc.ec.europa.eu/our_databases/nanohub/) for collecting information on nanomaterials. Support further development of IUCLID. Web development of DG RTD's NanoData outputs.	JRC.I.4 Juan RIEGO SINTES	1.3.3.b	ENV	n/a	Andrej Kobe (ENV.A.3); Erica POOT (RTD.D.3)	GROW RTD SANTE	ECHA - European Chemicals Agency (ECHA) OECD - Organisation for Economic Co-operation and Development (OECD) Reg Aut R&D - Candidate Countries / Member States regulatory authorities on Research	01/01/2014 31/12/2016	2-Information systems & services (100%)	JRC.I.3	78 - MARINA Managing Risks of Nanomaterials 212 - NANOREG A common European Approach to the Regulatory Testing of Nanomaterials 373 - NanoAssess Regulatory approaches for the assessment of nanomaterials 603 - HARNS	INS-RS		3	Web platform 2015	Revised version of web platform	31/12/2015	Scientific information systems and databases
															4	Platform & NANOREG	Integration of NANOREG results in JRC Web Platform	31/12/2016	Scientific information systems and databases
646 - NanoRep Repository of representative nanomaterials for testing	The project aims at maintaining and further developing the JRC nanomaterials repository as a European hub for representative nanomaterials for testing.	JRC.I.4 Juan RIEGO SINTES	1.3.3.b	ENV	n/a	Andrej Kobe (ENV.A.3)	GROW RTD SANTE	Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry OECD - Organisation for Economic Co-operation and Development	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)		78 - MARINA Managing Risks of Nanomaterials 212 - NANOREG A common European Approach to the Regulatory Testing of Nanomaterials	INS-RS		3	Repository operation 2015	Report summarising the development of the repository of NM series of nanomaterials, including additional materials, quality control procedures, further characterisation of materials, and homogeneity and stability control.	31/12/2015	JRC Technical reports
															4	Repository operation 2016	Report summarising the development of the repository of NM series of nanomaterials, including additional materials, quality control procedures, further characterisation of materials, and homogeneity and stability control.	31/12/2016	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
654 - MS-WFD Measurement standards for the Water Framework Directive	Development of new measurement standards for emerging pollutants in water, including seawater, and related biota, sediment and other matrices, especially for those substances of relevance to the Water Framework Directive (2000/60/EC) and the Marine Strategy Framework Directive (2008/56/EC); Sustainable provision of water, sediment, soil and biota CRMs to analytical laboratories world-wide; contributions to the relevant working group(s) of the Common Implementation Strategy of the WFD and MFS	JRC.D.2 Andrea HELD	1.3.3.b	ENV	n/a	Helen CLAYTON, ENV C.1		EA - European co-operation for Accreditation	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)		98 - ENV08 - WFD Traceable measurements for monitoring critical pollutants under the European WFD	INS-RS	2	Certified Reference Materials	Reference Materials certified for pollutants and other substances relevant to the Water Framework Directive 200/60/EC and Marine Strategy Framework Directive 2008/56/EC	31/12/2015	Reference materials
														3	Certified Reference Materials	Reference Materials certified for pollutants and other substances relevant to the Water Framework Directive 200/60/EC and Marine Strategy Framework Directive 2008/56/EC	31/12/2016	Reference materials
														4	Contributions to the implementation of WFD & MSFD	Report providing scientific advice on measurement issues to the implementation of the Water Framework Directive 200/60/EC and Marine Strategy Framework Directive 2008/56/EC	31/12/2015	JRC Technical reports
812 - NanoComput Computational approaches in the safety assessment of nanomaterials	Investigation of the availability of Quantitative structure-activity relationship (QSAR) models and grouping approaches for nanoparticles, and assessment of their applicability under REACH. Work in the framework of the AA 'Evaluation of the availability and applicability of computational approaches in the safety assessment of nanomaterials' as agreed with DG ENTR.	JRC.I.5 Andrew WORTH	1.3.3.b	ENV	GROW	ENTR.F.1, BARICIC Peter; ENV.A.3, KOBE Andrej	RTD SANTE		01/01/2014 31/12/2016	4-Methods and testing (100%)		46 - COSMOS COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity of cosmetics 47 - DETECTIVE DETECTIVE - Detection of endpoints and biomarkers of repeated dose toxicity using in vitro systems	COM-AA	3	Annual progress report of 2nd year	Annual progress report describing the work and achievements of project months 13-24, including the status of the inventory/database of existing models and the preliminary findings on their applicability in meeting the data requirements of REACH.	31/12/2015	Scientific and policy reports
														4	Final report	Final report on the work and achievements of the entire project, including the annual report of 3rd project year, the annual progress reports for years 1 and 2, finalized findings and conclusions, final recommendations on the use of computational methods, final recommendations on the further research, structured and searchable inventory/database of models.	31/12/2016	Scientific and policy reports
														5	QSAR guidance for nanoparticles	Guidance on the applicability of QSARs and grouping approaches in the regulatory assessment of nanoparticles	31/12/2016	Scientific and policy reports
844 - NanoDefinition Scientific/technical support concerning the definition of nanomaterial	In view of the upcoming review of the current European Commission (EC) definition of the term 'nanomaterial' (by end 2014), and noting the need expressed by DG ENV for a set of scientifically sound reports as the basis for this review, JRC (collaboration between IHCP and IRMM) will provide DG ENV and the other involved DGs with three consecutive reports, and provide further scientific/technical support thereafter.	JRC.I.4 Juan RIEGO SINTES	1.3.3.b	ENV	n/a	Andrej Kobe (ENV.C.3)	GROW SANTE	Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety	01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)			INS-RS	4	Scientific/technical support for nano definition	The report will summarise the JRC output of contributions to the Interservice Group on the nano definition and other Commission Working Groups (follow-up of Task 3 report).	31/12/2015	JRC Technical reports
1.3.3.c Monitor and model air quality, exposure and emissions. Carry out integrated impact assessments (human health, ecosystems) of key air quality and climate policy options, at urban, regional and global scale and analysis of socio-economic impacts of emission reduction scenarios.																		
61 - ACTRIS Aerosols, Clouds, and Trace gases Research Infrastructure Network	ACTRIS supports training of new users in particular young scientists in the field of atmospheric observations and promotes the development of new technologies for atmospheric observation of aerosols, clouds and trace gases through close partnership with SMEs. ACTRIS will have the essential role to support integrated research actions in Europe for building the scientific knowledge required to support policy issues on air quality and climate change	JRC.H.2 Jean-Philippe PUTAUD	1.3.3.c	ENV RTD	RTD	A. ARANA ANTELO (RTD B.4.), Daniela Buzica (ENV.C.3)		EMEP - European Monitoring and Evaluation Programme	01/04/2011 31/03/2015	5-Monitoring, verification and surveillance (100%)			COM-IA	1	Intercomparisons for OC, EC and TC	Stringent intercomparisons for OC, EC and TC based on well defined reference material	31/03/2015	JRC Technical reports
170 - APPRAISAL Integrated assessment for regional and local air quality policies	APPRAISAL is a European Project aiming at assessing the strengths and weaknesses of the various methodologies used within the European Member States for the assessment and monitoring of Air Quality. APPRAISAL intends to propose possible ways to improve these methodologies through guidance and to provide clear insight on the way local and regional measures are implemented, but also on the way their efficiency is measured. APPRAISAL will provide scientific and technical support to policy maker.	JRC.H.2 Philippe THUNIS	1.3.3.c	ENV RTD	RTD	Luisa PRISTA (RTD I.2.), Scott Brockett (ENV C3)	ENV		01/06/2012 31/05/2015	2-Information systems & services (40%) 7-Scientific, technical & policy consultancy (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (30%)			COM-IA	2	Review Conference report	The final conference of the project is planned to take place in Brussels with the aim to present the set of final guidelines and its validation. It will be addressed to a wide range of European regional policy makers and decision support Authorities in the field of air quality. The current deliverable will consist in the minutes of this meeting highlighting the main points of discussion	30/06/2015	Public information documents
231 - ROADMOD Road emission modelling	ROADMOD aims at assessing the environmental impacts of road transport emissions (in particular NOx and NO2) on air quality in urban hot-spots. One of the main objectives is to assess the impact of introducing a limit value for direct NO2 emissions in addition to the existing limit value for total NOx emissions for EURO 6/VI vehicles.	JRC.H.2 Philippe THUNIS	1.3.3.c	ENV	GROW	Maciej SZYMANSKI	MOVE		21/12/2012 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Workshop report	Minutes of the workshop given at the Parliament and Council to present the outcome of the study.	31/12/2015	Public information documents
262 - AMITO Atmospheric methane and its impacts on Tropospheric ozone human health and the environment	Aims to allow the Commission to step up the capacity to assess policy options that reduces the overall impact of tropospheric ozone, resulting from emissions of ozone precursors, including methane, on human health and the environment. Specifically the aims of the AA are to enhance the capacity to Assess Impacts, Synthesize scientific evidence, and reach out to expert in and outside of the EU. The AA support work performed in the Task Force Hemispheric Transport Air Pollution	JRC.H.2 Franciscus DENTENER	1.3.3.c	ENV	ENV	Dr. André Zuber (ENV.C.3)	RTD		19/12/2012 18/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	2	Analysis of HTAP results using Ensemble technolo	Use ensembles of regional and global models to identify the optimal combination of these models and calculate impacts on human health, ecosystems and climate	30/11/2015	Validated methods, reference methods and measurements
														3	Further develop FASST for HTAP	Inclusion of Hemispheric Transport of Air Pollution (HTAP) model results in Fast Assessment Scenario Tool? And then make available as a web based tool	30/06/2015	Scientific information systems and databases
														4	Policy outreach	Regular outreach and policy advice pertinent to Hemispheric transport of air pollution in the frame of the Task Force Hemispheric Transport of air pollution	18/12/2015	JRC contributions to policy documents
934 - IMPACT Measuring the Impacts of Air Pollution and Climate Policies on the Atmosphere	IMPACT supports the implementation of Air Quality Directives and the development of the future Air Strategy by measuring the effectiveness of source related policies and international agreements. Project activities comprise international standardisation, harmonizing assessment methodologies, checking the performance of responsible bodies and assisting and advising on monitoring. The project runs a specialised laboratory and research facility that are embedded in international networks.	JRC.H.2 Annette BOROWIAK	1.3.3.c	ENV	n/a	BUZICA Daniela (ENV.C.3)	CLIMA GROW RTD	- WORLD HEALTH ORGANIZATION REGIONAL OFFICE FOR EUROPE BIPM - International Committee on Weights and Measures CEN - European Committee for Standardization EEA - European Environment Agency EURAMET - European Organisation of Metrology (EURAMET) UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE	01/01/2014 31/12/2016	4-Methods and testing (30%) 5-Monitoring, verification and surveillance (35%) 7-Scientific, technical & policy consultancy (35%)		2002 - SUL Sustainable and resilient Urban Living	INS-UR	6	Measurement standards: particles, carbon and ions	Standard measurement methods for Elemental Carbon/Organic Carbon, cations/anions and automated Particulate Matter measurements and support to IRMM's development of a reference material for ions and carbon in PM2.5. Collaboration with: JRC.D.2	15/12/2015	Validated methods, reference methods and measurements
														7	Sources of Ozone and Black Carbon	Sources of Ozone and Black Carbon in the Mediterranean Area. Scientific publication on air pollution and its sources in the Mediterranean area.	30/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														8	EUR Reports on proficiency of NRLs 2014	EUR Reports on results of proficiency test of EU National Reference Laboratories for inorganic (nitrogen oxides, ozone, sulphur dioxide, carbon monoxide) gaseous air pollutants and preparation for a PM intercomparison.	31/10/2015	Scientific and policy reports
														9	Evaluation and presentation of measurement results	JRC Ispra Measurement Results 2014 on particulate and gaseous air pollution - EUR Report on results from air quality monitoring station and trend analysis to UNECE EMEP, data evaluation 2014.	31/10/2015	Scientific and policy reports
														10	Evaluation of oxidative potential of PM	Measurement results and evaluation of PM samples, obtained with the EPR method developed in collaboration with project 767 and project Sustainable Urban Living.	31/10/2015	Scientific and policy reports
														11	EUR reports on proficiency of NRLs in 2015	EUR Reports on results of proficiency test of EU National Reference Laboratories for inorganic (nitrogen oxides, ozone, sulphur dioxide, carbon monoxide) gaseous air pollutants and PM.	31/10/2016	Scientific and policy reports
12	Evaluation and presentation of measurement results	JRC Ispra Measurement Results 2015 on particulate and gaseous air pollution - EUR Report on results from 2015 air quality monitoring station and trend analysis to UNECE EMEP.	31/10/2016	Scientific and policy reports														

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1069 - DENMAQ Developing new methods for Air Quality monitoring and emerging issues	DENMAQ deals with new strategies and methods for field measurements of air pollution monitoring, standardisation, calibration and validation in support of environmental and industrial investments. The project comprises a feasibility study and validation of new technology based on micro-gas sensors for ambient air monitoring and development of a new diffusive sampler for monitoring toxic and emerging pollutants for global earth monitoring, climate change policy, exposure and impact assessment.	JRC.H.2 Pascual PEREZ BALLESTA	1.3.3.c	ENV	n/a	BUZICA Daniela (ENV.C.3), LIMET Florence (ENV.F.1), WINNER Christian (ENV.F.1)	GROW SANTE	CEN - European Committee for Standardization EMEP - European Monitoring and Evaluation Programme EURAMET - European Organisation of Metrology (EURAMET) WMO - World Meteorological Organization (WMO)	01/01/2014 31/12/2016	1-Foresight studies & techniques (40%) 4-Methods and testing (30%) 5-Monitoring, verification and surveillance (30%)	2002 - SUL Sustainable and resilient Urban Living	INS-UR	3	Development of a multi-sensor platform	Development of a multi-sensor platform for air pollution monitoring Development of a multi-sensor platform (O3, NO2, NO and CO) using low cost sensors. An open source technology model will be followed to make it available to the public.	30/06/2015	Validated methods, reference methods and measurements	
													4	Method development and optimization of PODS	Review of VOC sensor for ambient air monitoring (common objective with key-VOC project) During this phase the following task will be carried out: • Selection of pollutants for passive sampling application • Evaluation of adsorbents for thermal desorption at trace level • Method description and evaluation of blank levels • Optimization of analytical parameters	30/06/2015	Scientific and policy reports	
													5	Demonstration of the use of POD sampler on uncurved	This deliverable pretends to demonstrate the use of the POD sampler on the evaluation of VOC emissions from unconventional fossil fuels production environments as well as to collect information on the understanding pollutant distribution in this kind of environment.	30/06/2015	Scientific and policy reports	
													6	laboratory validation PODS	Laboratory test validation of PODS diffusive sampler for the analysis of selected toxic pollutants. Description: During this phase the following task will be carried out: • Develop of an atmosphere controlled system for organic trace concentration levels • Determination of sampling rates for selected toxic compounds • Determination of the best sampling time condition for trace detection of selected compounds	31/12/2015	Scientific and policy reports	
													7	Laboratory and field test validation of sensors	Procedure for the automatic calibration of new sensor technologies will be developed to compensate drifts that prevent sensors from a large implementation of the sensors technology. It will consider sensor calibrations against fix stations or sensors acting as transfer standard to future application to automatic re-calibration of sensors' networks. Development of on-board miniaturized calibration technologies able to perform re-calibration for span/zero and to filter interferences.	31/12/2016	Validated methods, reference methods and measurements	
													8	Field validation PODS	Field validation and demonstrative campaigns of PODS diffusive sampler for the analysis of selected toxic and emerging pollutants. Description: During this phase the following task will be carried out: • Field validation of the device for selected toxic compounds at trace level. • Development of standard analytical and sampling protocols and standard operational procedure for the pollutants of interest. • Demonstrative sampling campaigns in different locations and environments. □	31/12/2016	Scientific and policy reports	
1721 - COMPAIR COMPAIR	EC committed to a comprehensive review of the Thematic Strategy on Air Pollution up to 2013. IPTS provided results at aggregate EU using the GEM-E3 model covering GDP and employment impacts, trade and competitiveness and sectoral distribution. With the EC adoption in December 2013, this amendment of AA aims to extend to the Inter-institutional process with a view to finalise co-decision in 2015.	JRC.J.1 Bert SAVEYN	1.3.3.c	ENV	ENV	Frederik Neuwahl	CLIMA		01/11/2012 30/04/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	2	Report	Results of 2nd part of project (01/01/2014-30/04/2015)	01/05/2015	Scientific and policy reports
1726 - AQA Air Quality Assessment	The Administrative Arrangement is supporting the implementation and further development of EU air policies. In particular it is aiming at supporting, guiding and checking the air pollution monitoring in Europe, as well as supporting, guiding and promoting the use of air quality modelling. It will further enhance the use of regional integrated assessment modelling.	JRC.H.2 Annette BOROWIAK	1.3.3.c	ENV	ENV	daniela.buzica@ec.europa.eu			15/12/2013 14/06/2016	2-Information systems & services (30%) 4-Methods and testing (35%) 7-Scientific, technical & policy consultancy (35%)			COM-AA	1	Fairmode, Aquila, CEN and Integrated Assessment	Final report on activities undertaken under the AA on FAIRMODE, AQUILA, CEN and Integrated Assessment	13/11/2015	JRC Technical reports
													COM-AA	2	Final report on Source Apportionment	Final report on activities on source apportionment undertaken under the AA AQA - benchmarking, performance indicators and intercomparison of models.	15/05/2016	JRC Technical reports
2121 - K-VOC Metrology for VOC indicators for air pollution and climate change	To improve the measurement for key VOCs by providing traceable reference gas standards and by validating sensors-based devices. WP1 deals with fundamental issues related to the preparation of VOC standards. WP2 looks after traceability, accuracy and long-term stability. WP3 focuses on metrological issues related to indoor air. WP4 covers the validation of commercial sensor-based devices, including the development of a testing protocol, the review of the existing sensors and their validation.	JRC.H.2 Pascual PEREZ BALLESTA	1.3.3.c	ENV	n/a	BUZICA Daniela (ENV.C.3)	GROW SANTE	CEN - European Committee for Standardization EMEP - European Monitoring and Evaluation Programme EURAMET - European Organisation of Metrology (EURAMET) WMO - World Meteorological Organization (WMO)	01/10/2014 30/09/2017	1-Foresight studies & techniques (40%) 4-Methods and testing (30%) 5-Monitoring, verification and surveillance (30%)	1069 - DENMAQ Developing new methods for Air Quality monitoring and emerging issues	COM-IA	411	Sensors and portable on-line measuring devices	Report covering the collection of commercially available VOC, aromatic compounds and/or benzene sensors and portable on-line measuring devices for air pollution monitoring. The aim of this task is to perform a literature review of the state of the art of sensor based monitoring of air quality in order to set the starting point of the following research and to avoid duplication of work.	31/03/2015	JRC Technical reports	
													412	List of candidate sensors	Selection of candidate sensors, level of test gas and gaseous interference compounds Based on the outcome of the bibliographic review and on the VOC composition of air in different environment situations (micro-environments from traffic road to background levels), this activity will specify concentration levels of test gas (benzene) and possible interfering compounds. A list will be produced	30/09/2015	JRC Technical reports	
													422	Report on the improvement and preliminary testing	Report on the improvement and preliminary testing of the gas Sensor Exposure Chamber System	31/03/2016	JRC Technical reports	
													423	Evaluation of hysteresis and stability	Evaluation of the hysteresis effects and stability under dynamic conditions (change of concentration) of the gas Sensor Exposure Chamber System	30/04/2016	Scientific information systems and databases	
													425	Draft testing protocol	Draft testing protocol to validate the performance of micro-sensors and calibration procedures	31/08/2016	JRC Technical reports	
													427	Report on the laboratory validation	Report on the laboratory validation with micro-sensors	31/12/2016	JRC Technical reports	
													428	Testing protocol and procedure	Revision of the testing protocol and procedure for calibration based on laboratory validation	31/10/2017	JRC Technical reports	
													433	Report on the field validation	Report on the field validation of (micro) sensors and identification of appropriate sensors	31/12/2017	JRC Technical reports	
2741 - CARBAIR Developing measurement standards for carbon in airborne particulate matter	The Air Quality Directive 2008/50/EC requires monitoring of (amongst others) elemental carbon (EC) and organic carbon (OC) in rural background locations. EC/OC is an important air pollutant because of its health and climate relevance. At present no suitable reference materials are available to Member State monitoring laboratories to ensure reliable measurement of EC/OC. Several technological challenges need to be addressed in order to develop such a measurement standard.	JRC.D.2 Andrea HELD	1.3.3.c	ENV	n/a	Daniela Buzica (ENV.C.3)	CLIMA MOVE SANTE	Air Qual EU - Member States Competent Authorities for Air Quality EEA - European Environment Agency UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE WHO - World Health Organization	01/04/2015 31/03/2017	6-Reference materials and measurements (100%)			INS-ER	1	Intermediate report	Mid-term progress report	31/03/2016	JRC Technical reports
													INS-ER	2	Final report	Final report of the project	31/03/2017	JRC Technical reports
													INS-ER	3	Project plan	Detailed project plan for the production of an EC/OC Certified Reference Material	31/03/2017	JRC Technical reports
													INS-ER	4	Publication	Publication summarizing the outcome of the exploratory research project submitted to a journal.	31/03/2017	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1.3.3.d Determine best available techniques for implementing the Industrial Emissions Directive.																		
557 - EIPPCB European Integrated Pollution Prevention and Control Bureau (EIPPCB)	The EIPPCB discharges the obligation put on the Commission in Article 13(1) of the Industrial Emissions Directive (2010/75/EU) to 'organize an exchange of information between Member States, the industries concerned, non-governmental organisations promoting environmental protection and the Commission' in order to draw up, review and, where necessary, update Best Available Techniques (BAT) reference documents, the BREFs. These documents are formally adopted by the Commission after a vote of MS.	JRC.J.5 Serge ROUDIER	1.3.3.d	ENV	n/a	Filip François / Chris Allen (ENV.C.3)	AGRI CLIMA ENER GROW SANTE	MIN Env EU MS - Environment Ministries EU Member States MS EU - Member states EU	01/01/2013 31/12/2017	7-Scientific, technical & policy consultancy (100%)		1723 - EIPPCB-Competitive 3 European IPPC Bureau	INS-RS	13	Draft 1 revised Waste Treatments (WT) BREF	Produce the First Draft (D1) of the revised Waste Treatments (WT) BREF for comments of the Technical Working Group (TWG)	24/04/2015	JRC contributions to policy documents
														14	FD revised LVOC BREF	Produce the Final Draft (FD) of the revised Large Volume Organic Chemicals (LVOC)BREF in order to receive a formal opinion of the IED Article 13 forum	27/03/2015	JRC contributions to policy documents
														15	Draft 1 revised Waste Incineration (WI) BREF	Produce the First Draft (D1) of the Waste Incineration (WI) BREF for comments of the Technical Working Group (TWG)	18/12/2015	JRC contributions to policy documents
														16	Draft 1 BREF started in 2014 (WPC or STS or FDM)	Produce the first Draft (D1) of one of the 3 remaining BREFs on the Work Programme 2014 (WP 2014: WPC, STS, FDM) for comments of the Technical Working Group (TWG)	18/12/2015	JRC contributions to policy documents
1723 - EIPPCB-Competitive 3 European IPPC Bureau	For description see European IPPC Bureau #557. this is the competitive part Jipsy 33418	JRC.J.5 Serge ROUDIER	1.3.3.d	ENV	ENV	Christopher Allen, Filip François (ENV.C.3)			10/12/2013 10/06/2015	7-Scientific, technical & policy consultancy (100%)	557 - EIPPCB European Integrated Pollution Prevention and Control Bureau (EIPPCB)	COM-AA	n/a	n/a	n/a	n/a	n/a	

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1.3.3.e Develop information systems and carry out analyses of industrial accidents. Support risk and consequence assessments of chemical and petrochemical plants. Analyse and map out chemical accident risks. Support the implementation of the Noise Directive, including ad hoc advice for further development of noise assessment methods.																		
293 - MAHB Major Accident Hazards Bureau	MAHB provides scientific and technical support to DG ENV in support to the Seveso Directives (on the control of major hazards and the prevention and mitigation of major accidents), with continued focus in 2014-2016 on implementation support to the new Seveso III Directive (2012/18/EU). As a knowledge centre for Europe, MAHB also helps support EU policy commitments for promoting sustainable resource management and disaster risk reduction efforts worldwide.	JRC.G.5 Maureen WOOD	1.3.3.e	ENV	n/a	Alexandros KIRIAZIS (ENV.C.3)	DEVCO ECHO GROW HOME NEAR	CC EU - Candidate Countries EU MS EU - Member states EU OECD - Organisation for Economic Co-operation and Development (OECD) UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE UNEP - United Nations Environment Programme (UNEP)	01/01/2014 31/12/2016	2-Information systems & services (20%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)	180 - SEVESO SUPPORT TO SEVESO DIRECTIVE 2012-2014	INS-RS		4	Chemical Accident Analysis Emerging Trends-2015	Analysis of recent accidents and methodologies for identifying causal factors and emerging risks from economic and other pressures on the process industry. -2 short lessons learned summaries (topics selected based on recent accidents) -Phase 1 of comprehensive study of lessons learned for emergency response (data extraction & statistical analysis) -MAHB contribution to expert collaboration on benchmarking study of accident analysis methodologies	31/12/2015	Scientific and policy reports
														5	IT Tools for Chemical Accident Risk Analysis-2015	1) Completion of the internal testing of the Accident Damage Assessment Module (ADAM) 2) Elaboration of a proprietary GIS module for the new GIS-Area Risk Assessment Tool (GIS-ARA) 3) Completion of the latest version of the new eMARS application	31/12/2015	Scientific information systems and databases
														6	Capacity Building-2015	-1 Seveso inspector workshop on safety culture on chemical hazard sites -1 technical report on enforcement and evaluation of emergency response practices on chemical hazard sites -1 training workshop on the ADAM online tool -1 training workshop on establishing chemical accident prevention programmes for a developing country	31/12/2015	Training
														7	Chemical Accident Analysis Emerging Trends-2016	1-Phase 2: Study of lessons learned for emergency planning - written analysis and conclusions 2-Final report summarising results of the benchmarking study	31/12/2016	Scientific and policy reports
2080 - Seveso 2015 Support to Seveso Directive - 2014-2015	This project is to continue post-launch development of the online application for Member States to report their establishments (eSPIRS) to the EU (online 30 June 2014). The deliverables are tools to support reporting and administration of the database that will reduce the burden on Member States and facilitate a rigorous quality control on the part of the both Member States and the EC.	JRC.G.5 Maureen WOOD	1.3.3.e	ENV	ENV	Alexandros Kiriazis		MS EU - Member states EU	01/07/2014 31/12/2015	2-Information systems & services (100%)	293 - MAHB Major Accident Hazards Bureau	COM-AA		2	eSPIRS - Seveso Establishments Reporting - 2015	1. Complete quality management tool to manage imported data completeness within eSPIRS 2. Final report of project summarizing all deliverables, user feedback and follow-up	31/12/2015	Scientific information systems and databases
1.4 Maritime Affairs and Fisheries																		
1.4.a Apply economic, spatial and genetic/genomic approaches to sustainable aquaculture and fisheries. Provide scientific advice for enhanced EU aquaculture activity and the sustainable and profitable exploitation of fish stock under the remit of the CFP.																		
120 - MYFISH Maximising Yield of Fisheries while Balancing Ecosystem, Economic and Social Concerns	Myfish aims at developing new indicators to define the maximum amount of fish that can be sustainably fished (Maximum Sustainable Yield - MSY). The aim is to ensure high levels of fishery yield while respecting ecological, economic and social sustainability thus contributing to achieve the Good Environmental Status (GES) foreseen in the Marine Strategy Framework Directive (MSFD).	JRC.G.3 Jann MARTINSOHN	1.4.a	MARE RTD	RTD	Claran Mangan		STECF - Scientific, Technical, and Economic Committee for Fisheries	01/03/2012 01/03/2016	1-Foresight studies & techniques (50%) 4-Methods and testing (50%)	302 - SuFiMa Sustainable Management Fisheries	COM-IA		1202	Stakeholder Priorities	With the JRC as co-contributor, the MYFISH consortium will identify and document stakeholder priorities.	01/06/2015	JRC Technical reports
														1203	Management Recommendations	The MYFISH consortium will develop recommendations for fisheries management, and integrate findings having emerged from the projects. The JRC is co-contributor.	01/06/2015	JRC Technical reports
302 - SuFiMa Sustainable Fisheries Management	Sustainable, profitable exploitation of marine fish constitutes a major challenge and depends on sound scientific advice. The JRC will focus on new approaches for the provision of scientific advice to fisheries management and policy making and contribute to the international scientific progress in this field.	JRC.G.3 Jann MARTINSOHN	1.4.a	MARE	n/a	MARE A.2 Mr. Ernesto Bianchi	RTD	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EFCA - European Fisheries Control Agency GFCM - General Fisheries Commission for the Mediterranean ICES - International Council for the Exploration of the Sea STECF - Scientific, Technical, and Economic Committee for Fisheries	01/01/2014 31/12/2016	1-Foresight studies & techniques (20%) 2-Information systems & services (35%) 7-Scientific, technical & policy consultancy (45%)	120 - MYFISH Maximising Yield of Fisheries while Balancing Ecosystem, Economic and Social Concerns 162 - AQUATRACE Providing Molecular Tools for Assessing and Monitoring the Potential Genetic Impact of Aquaculture 299 - FiMo Fisheries Modelling 301 - BluFoS Blue Growth and Food Security in Fisheries and Aquaculture 491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture 498 - DISCARDS Simulating the Effective Implementation of Discards Policies under Catch-Based Fisheries Management 605 - FishMan 2014_15 Managing Scientific Advice and Monitoring Fisheries Data (2014/2015)	INS-UR		3023	Habitat Modelling of two key tropic tuna species	Skipjack and yellowfin tuna are heavily exploited worldwide, also by the EU fishing fleet. Satellite and ocean data based modelling of their daily habitat in the tropical Atlantic and eastern Indian Ocean will enhance knowledge on their stocks, their spatio-temporal distribution as well as their dependence on environmental variability. This is valuable for sustainable fisheries management, can contribute to control/enforcement and to climate change studies.	31/12/2015	Validated methods, reference methods and measurements
														3025	Fisheries modelling for management purposes	Using real scenarios, the JRC will apply and document its novel and innovative fisheries modelling approaches such as a4a and bio-economic modelling, to accommodate new data availabilities and emerging information needs for sustainable and profitable fisheries management under the reformed Common Fisheries Policy.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3026	Habitat Modelling of Small Pelagic Fish Species	Small pelagic fish are key commercially exploited marine species and constitute a major component of marine ecosystems. However, they are short-lived and highly vulnerable to environmental changes, and knowledge is needed about their ecology including preferred habitats. New approaches to model habitats of species such as anchovy or sardine will provide valuable spatial information to future fisheries management schemes that include the envisioned ecosystem-based approach of the reformed CFP.	31/12/2016	Scientific and policy reports
														3028	Mediterranean Management Strategy Evaluation	The JRC will engage in the assessment of alternative fisheries management scenarios (Management Strategy Evaluation - MSE) for a selected case study in the Mediterranean, a notoriously challenging region with respect to fisheries management.	31/12/2015	JRC Technical reports
														3029	Vessel Identification for Fisheries Management	Sustainable fisheries management in the Mediterranean will depend on tools assessing fishing intensity and patterns. The JRC has developed an approach based on the Automatic Identification System (AIS) to produce fishing intensity maps. As the analysis is dependent on the correct detection of fishing behaviour, JRC fisheries experts will define behavioural patterns of fishing fleets. Validation will be ensured through data from commercial fishing surveys in the Mediterranean.	11/12/2015	JRC Technical reports
														30210	Genetic Study - Mediterranean Blue Shark: Progress	The JRC will carry out an innovative genetic study on Mediterranean blue sharks, a highly exploited and threatened species, for stock identification and conservation. This activity will also foster the transfer of new management approaches to other fish species. The study will support the Common Fisheries Policy, the EU action plan for shark management (COM/2009/0040; COM/2011/0798) and the EU strategy for the Adriatic/Ionian Region. First results and developments will be documented.	24/06/2016	JRC Technical reports
														30211	Deep Sea Fisheries: Close-Kin Analysis and Genetics	According to the Commission, deep sea stocks must be managed sustainably in view of the sensitive nature of these stocks and deep-sea marine life. For many stocks, sufficient knowledge and data are still lacking for scientific analysis (Commission Comm in preparation). Based on recent research by CSIRO Australia, using close-kin analysis and next generation genetics for the management of Southern Bluefin Tuna, it will be explored whether such an approach can be transferred to deep sea species.	18/12/2015	JRC Technical reports
605 - FishMan 2014_15 Managing Scientific Advice and Monitoring Fisheries Data (2014/2015)	Under the remit of this Administrative Arrangement, the JRC produces scientific advice in support of the Common Fisheries Policy. Core activities include administrative and scientific support to the Scientific, Technical and Economic Committee for Fisheries, support to the Data Collection Framework ((EC) 199/2008) and the development of the DCF to future data collection multi-annual (DC-MAP) for 2014-2020, but also response to ad-hoc requests by DG MARE.	JRC.G.3 Jann MARTINSOHN	1.4.a	MARE	MARE	Ernesto Bianchi MARE A2		FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) GFCM - General Fisheries Commission for the Mediterranean ICES - International Council for the Exploration of the Sea RFMOs - Regional Fisheries Management Organisations STECF - Scientific, Technical, and Economic Committee for Fisheries	13/09/2014 12/09/2015	1-Foresight studies & techniques (20%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)	102 - SOCIOEC Socio Economic Effects of Management Measures of the Future Common Fisheries Policy 120 - MYFISH Maximising Yield of Fisheries while Balancing Ecosystem, Economic and Social Concerns 162 - AQUATRACE Providing Molecular Tools for Assessing and Monitoring the	COM-AA		6051	AA FishMan Annual Progress Report	At the end of the activity period covered by this AA the JRC delivers the annual progress report to DG MARE outlining and summarizing pursued activities and outcomes covered by the AA remit, but also providing additional information of other projects and activities carried out.	31/10/2015	Scientific and policy reports
														6052	Secretariat to the STECF	- Developing the annual STECF work plan agreed by JRC and DG MARE; - Administering meetings (plenaries and Expert Working Groups); - Monitoring the outcomes of the meetings (plenaries and Expert Working Groups); - Contribution/Co-authorship of STECF Reports.	31/10/2015	Scientific and policy reports
														6053	Support to Data Collection Multi-Annual Programme	This derivable encompasses support the implementation of the data collection framework (council Regulation 199/2008) and to the future Data Collection Multi-Annual Programme (DC-MAP) for 2014-2020. This includes concept development, database design and maintenance, website development and monitoring of data coverage, which will be reported to DG MARE.	31/10/2015	Scientific and policy reports
2243 - FishMan 2015_16 Managing Scientific Advice and Monitoring Fisheries Data (2015/2016)	Under the remit of this Administrative Arrangement, the JRC produces scientific advice in support of the Common Fisheries Policy. Core activities include administrative and scientific support to the Scientific, Technical and Economic Committee for Fisheries, support to the Data Collection Framework ((EC) 199/2008) and the development of the DCF to future data collection multi-annual (DC-MAP) for 2014-2020, but also response to ad-hoc requests by DG MARE.	JRC.G.3 Jann MARTINSOHN	1.4.a	MARE	MARE	Ernesto Bianchi MARE A2		498 - DISCARDS Simulating the Effective Implementation of Discards Policies under Catch-Based Fisheries Management 491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture 301 - BluFoS Blue Growth and Food Security in Fisheries and Aquaculture 162 - AQUATRACE	13/09/2015 12/09/2016	1-Foresight studies & techniques (20%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)	498 - DISCARDS Simulating the Effective Implementation of Discards Policies under Catch-Based Fisheries Management 491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture 301 - BluFoS Blue Growth and Food Security in Fisheries and Aquaculture 162 - AQUATRACE	COM-AA		22431	AA FishMan Annual Progress Report	At the end of the activity period covered by this AA the JRC delivers the annual progress report to DG MARE outlining and summarizing pursued activities and outcomes covered by the AA remit, but also providing additional information of other projects and activities carried out.	30/09/2016	Scientific and policy reports
														22432	Secretariat to the STECF	- Developing the annual STECF work plan agreed by JRC and DG MARE; - Administering meetings (plenaries and Expert Working Groups); - Monitoring the outcomes of the meetings (plenaries and Expert Working Groups); - Contribution/Co-authorship of STECF Reports	30/09/2016	Scientific and policy reports
														22433	Support to Data Collection Multi-Annual Programme	This derivable encompasses support the implementation of the data collection framework (council Regulation 199/2008) and to the future Data Collection Multi-Annual Programme (DC-MAP) for 2014-2020. This includes concept development, database design and maintenance, website development and monitoring of data coverage, which will be reported to DG MARE	30/09/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
1.4.b Develop novel fisheries modelling tools and management strategy evaluation approaches. Carry out data analysis and modelling in support of the CFP landing obligation (discard ban), bio-economic modelling and a shift towards an ecosystem approach to fisheries management.																			
491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture	Bioeconomic modelling (BM) in the Fisheries and Aquaculture sector aims at establishing a formal relationship between economic and biological data through mathematical modelling approaches. Considered as highly valuable for sustainable fisheries management, BM remains an unresolved challenge. In line with its aim to support the socio-economic prosperity of the EU fisheries sector ('Blue Growth' - COM(2012) 494), the JRC will work on the integration of economic and biological information.	JRC.G.3 Jann MARTINSOHN	1.4.b	MARE	n/a	MARE A.3 Mrs. Elisa Roller	ENV RTD	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) ICES - International Council for the Exploration of the Sea STECF - Scientific, Technical, and Economic Committee for Fisheries	01/01/2014 15/12/2015	4-Methods and testing (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)		102 - SOCIOEC Socio Economic Effects of Management Measures of the Future Common Fisheries Policy 299 - FiMo Fisheries Modelling 301 - BluFoS Blue Growth and Food Security in Fisheries and	INS-UR	4912	Linkage of economic and fisheries indicators.	A challenge for fisheries bioeconomic modelling has been the different aggregation levels of biological and economic data. To step ahead, economic indicators have been collected at a supra-region level as a function of the fleet components. This allows the JRC to perform a bioeconomic analysis, integrating economic and biological data at the same regional level. Proceeding and results will be documented.	15/12/2015	JRC Technical reports	
															4913	Management Strategy Evaluation Error Model	A Management Strategy Evaluation (MSE) simulates major components of a fishery system, including management, biology and fishing fleet, to assess a variety of fishery management options. Within an MSE an "implementation error model" describes fleet activity and links management decisions to the level of fishing. This approach will allow the JRC to include economic information within an operating model, a large step toward including bioeconomics within an MSE simulation.	15/12/2015	JRC Technical reports
498 - DISCARDS Simulating the Effective Implementation of Discards Policies under Catch-Based Fisheries Management	The JRC will analyse the impact of various economic and regulatory factors on the implementation of a policy limiting or eliminating discards at sea, in complex multispecies fisheries managed under catch limits. Based on this analysis guidelines supporting the implementation of discard reduction and elimination strategies will be developed.	JRC.G.3 Jann MARTINSOHN	1.4.b	MARE	n/a	MARE A.2 Mr. Ernesto Bianchi		EFCA - European Fisheries Control Agency ICES - International Council for the Exploration of the Sea STECF - Scientific, Technical, and Economic Committee for Fisheries	01/01/2014 31/03/2016	1-Foresight studies & techniques (30%) 7-Scientific, technical & policy consultancy (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)		280 - FISH MAN 2013 Managing Scientific Advice and Monitoring Fisheries Data (2013/2014) 299 - FiMo Fisheries Modelling 302 - SuFiMa Sustainable Fisheries Management 491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture	INS-UR	4982	Prototype Modelling and Simulation Framework	The JRC will develop an initial model and simulation framework of the Bay of Biscay mixed demersal fishery that includes the economic and operational factors known to influence the effective implementation of a discards ban policy, as envisioned in the upcoming reform of the Common Fisheries Policy (CFP).	15/12/2015	JRC Technical reports	
															4983	Indicator changes under various discard policies	Depending on the rules and conditions introduced under various discard regimes, the impact on socio-economics and fishery can be very different. A variety of discard legislation scenarios will be studied with respect to the impact on the main economic and fishery indicators.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															4984	Discards: Risks, Costs & Benefits	For each discard management regime taken into consideration for this project, the JRC will analyse risks and cost-benefit ratios, also with respect to required levels of monitoring and control to achieve the set objectives.	31/03/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1906 - CaBuFIS Capacity Building in Fisheries Science	The capacity end expertise to carry out fishery modelling, an indispensable component of fishery science, is often lacking in institutions. The JRC, being acknowledged as a reference center for fishery modelling approaches, supports capacity building in the scientific community on EU level and globally through the provision of training modules, which will also allow to further test, and enhance the JRC fishery modelling tools.	JRC.G.3 Jann MARTINSOHN	1.4.b	MARE	n/a	Mr. Ernesto Bianchi - DG MARE A.2		FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) GFCM - General Fisheries Commission for the Mediterranean ICES - International Council for the Exploration of the Sea	01/01/2015 31/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (10%) 9-Education & training (90%)		605 - FishMan 2014_15 Managing Scientific Advice and Monitoring Fisheries Data (2014/2015) 498 - DISCARDS Simulating the Effective Implementation of Discards Policies under Catch-Based Fisheries Management 491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture	INS-RS	19061	FLR Training Manual	A technical document will be delivered covering the contents of the JRC training courses on the Fisheries Library based on R (FLR).	30/06/2015	JRC Technical reports	
															19062	A Training Course on a4a and FLR	The Joint Research Centre will provide a fisheries modelling training course on Assessment for All (a4a - developed by the JRC) modelling framework and the Fisheries Library based on R (FLR) in support of EU capacity building in fisheries science. The course will be run over 8 half-day sessions, and will cover the basics and design of the FLR system, before focusing on the use of a4a for fish stock assessment, forecasting, and simulation.	31/12/2015	Training
															19063	JRC Training Course on R	The programming language R is meanwhile one of the major open source statistical, modelling and data analysis frameworks. Since an increasing number of JRC staff members are using and relying on R, upon request by the JRC training Unit, a JRC internal training course on "Introduction to R", the second of its kind, will be delivered.	31/03/2015	Training
1920 - FiMaSE Fisheries Management Strategy Evaluation	A Management Strategy Evaluation (MSE) simulates major components of a fishery system (management, biology, fleet), to assess a variety of management options. MSEs are increasingly used in modern management advice. The JRC will pursue the development of innovative modelling approaches, such as the JRC Assessment for All framework, for a generic MSE approach, applicable to a large number of stocks. This will support of the future Data Collection Framework and the reformed Common Fisheries Policy	JRC.G.3 Jann MARTINSOHN	1.4.b	MARE	n/a	Mr. Ernesto Bianchi (HoU, DG MARE A.2)		FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) GFCM - General Fisheries Commission for the Mediterranean ICES - International Council for the Exploration of the Sea	01/01/2015 18/12/2015	1-Foresight studies & techniques (30%) 4-Methods and testing (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)		605 - FishMan 2014_15 Managing Scientific Advice and Monitoring Fisheries Data (2014/2015) 491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture 302 - SuFiMa Sustainable Fisheries Management	INS-UR	19201	Management Strategy Evaluation: Documentation	A document will describe the application of the standard Management Strategy Evaluation (MSE) being developed under the JRC modelling framework a4a to a set of stocks targeted by the European Fleet. The stocks will be chosen based on the policy decisions regarding fisheries management plans. The MSE will include the bio-economic models developed under the project BioMod (P491).	18/12/2015	JRC Technical reports	
1.4.c Develop marine knowledge that contributes to ecosystem-based approach, maritime spatial planning and coastal management, including analysis of the economic impact on coastal communities and to the Transatlantic Ocean Research Alliance focus areas. Develop methods and tools to facilitate the use of marine data for maritime spatial planning and their dissemination and exploitation through the EU Atlas of the Seas																			
102 - SOCIOEC Socio Economic Effects of the Future Common Fisheries Policy	SOCIOEC aims to perform a comprehensive analysis of the wide range of current and emerging measures used to manage fisheries under the current Common Fisheries Policy (CFP). It will develop possible new future measures to be introduced in order to achieve a more profitable and efficient fishing sector that provides sustainable employment, support society's aims, and contributes to societal well being.	JRC.G.3 Jann MARTINSOHN	1.4.c	MARE RTD	RTD	Claran Mangan		STECF - Scientific, Technical, and Economic Committee for Fisheries	01/03/2012 28/02/2015	1-Foresight studies & techniques (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)		302 - SuFiMa Sustainable Fisheries Management 491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture 605 - FishMan 2014_15 Managing Scientific Advice and Monitoring Fisheries Data (2014/2015)	COM-IA	1021	SOCIOEC Synthesis Report	A general synthesis, including all case studies, of results taking into account fisheries management options based on defined objectives, governance strategies and incentives).	01/03/2015	Scientific and policy reports	
															1022	Governance - Structure Scenarios	In line with the project proposal, the SOCIOEC consortium will produce a discussion paper on Governance Structure Scenarios. The JRC is co-contributor.	01/03/2015	Scientific and policy reports
130 - SEADATANET 2 SeaDataNet II: Pan-European Infrastructure for ocean and marine data management	The project aims to turn the SeaDataNet distributed information system into an operational infrastructure, achieving recognition as the prime access point to marine/maritime data and products in the EU. The JRC contribution focuses on synergies with complementary initiatives (i.e. IMP, MK 2020, WISE-marine) and includes: Project Steering Committee membership; Project Advisory Board chairmanship; Task 6.4 (lead) Strategic Promotion Coordination; Task 6.5 (lead) "legal models" WG chairmanship.	JRC.H.1 Vittorio BARALE	1.4.c	MARE	RTD	Matthew KING (MARE)	ENV RTD		01/10/2011 30/09/2015	2-Information systems & services (100%)			COM-IA	201501	Strategic Promotion Progress Report	4th edition of the Strategic Promotion Progress Report.	30/09/2015	JRC Technical reports	
162 - AQUATRACE Providing Molecular Tools for Assessing and Monitoring the Potential Genetic Impact of Aquaculture	This project will take advantage of cutting edge genetic and genomic analytical approaches to support aquaculture activity and management, and marine/freshwater environment protection. This includes the development of forensically validated genetic tools for tracing the origin of farmed fish and to monitor genetic interactions between fish from aquaculture and their wild conspecifics. Additionally the project's research can greatly support fish farming, e.g. for the design of breeding schemes.	JRC.G.3 Jann MARTINSOHN	1.4.c	MARE RTD	RTD	Claran Mangan		FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EFCA - European Fisheries Control Agency ICES - International Council for the Exploration of the Sea NOAA - National Oceanic and Atmospheric Administration STECF - Scientific, Technical, and Economic Committee for Fisheries	01/11/2012 31/10/2016	1-Foresight studies & techniques (50%) 4-Methods and testing (40%) 7-Scientific, technical & policy consultancy (10%)		301 - BluFoS Blue Growth and Food Security in Fisheries and Aquaculture 302 - SuFiMa Sustainable Fisheries Management	COM-IA	1622	Experimental Database	The AquaTrace experimental database will host the genetic and genomic data of wild and farmed fish analysed by the consortium. Moreover this database will be linked to the sampling database.	01/01/2015	Scientific information systems and databases	
															1623	Risk Assessment and Management Recommendations	Based on the findings of AquaTrace and external information, a white paper on risk assessment and management recommendations for aquaculture will be developed.	01/04/2016	Monographs with JRC editorship
269 - MARATLAS European Atlas of the Seas	The European Atlas of the Seas (MARATLAS) is a public, web-based, graphical database aimed at practitioners, policy-makers, managers, teachers, students, and anyone interested to learn more about Europe's seas and coasts, related human activities and EU policies. The Atlas shall be further developed, in order to improve access to data and information related to the European Seas, and to provide a suite of ready-made instruments for the first-cut assessments of marine and coastal issues.	JRC.H.1 Vittorio BARALE	1.4.c	MARE	MARE	KING Matthew	CLIMA ENV RTD		01/01/2013 30/04/2015	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)	JRC.H.6		COM-AA	10	MARATLAS draft final report	D5.a (3 months before the end of the AA period) draft final report on the work performed, including recommendations for the following 2-year period.	31/01/2015	Scientific and policy reports	
															11	MARATLAS final report	D5.b (1 month before the end of the AA period) final report of the work performed, taking into account the feedback from DG MARE on the draft final report. [Weather-Driven Natural Hazards Strategic Activity]	31/03/2015	Scientific and policy reports
2900 - PL: MARATLAS 2 Planned: European Atlas of the Seas 2	The European Atlas of the Seas (MARATLAS) is a public, web-based, graphical database aimed at practitioners, policy-makers, managers, teachers, students, and anyone interested to learn more about Europe's seas and coasts, related human activities and EU policies.	JRC.H.1 Vittorio BARALE	1.4.c	MARE	MARE	M. King			01/01/2015 31/12/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)	JRC.H.6	269 - MARATLAS European Atlas of the Seas	COM-AA	1	MARATLAS version 5	Version 5 of the Atlas	31/12/2015	Scientific information systems and databases	
															2	MARATLAS final report	Final report of the work performed, taking into account the feedback from DG MARE	31/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1.4.d Analyse seafood consumption and trade patterns, and support traceability and the fight against illegal, unreported and unregulated fishing.																		
301 - BluFoS Blue Growth and Food Security in Fisheries and Aquaculture	In this project, the JRC pursues research activities to support the Blue Growth long-term strategy (COM(2012) 494), with a focus on assessing the potential for economic growth in the EU fisheries and aquaculture sector, and also the Horizon 2020 focus area "Sustainable Food Security".	JRC.G.3 Jann MARTINSOHN	1.4.d	MARE	n/a	MARE A.2 Mr. Ernesto BIANCHI	RTD	- Food and Agricultural Organisation	01/01/2014 31/12/2016	1-Foresight studies & techniques (50%) 7-Scientific, technical & policy consultancy (50%)	162 - AQUATRACE Providing Molecular Tools for Assessing and Monitoring the Potential Genetic Impact of Aquaculture 491 - BioMod Bioeconomic Modelling for Fisheries and Aquaculture	INS-RS	3014	Regional Analyses in Aquaculture	The JRC will, based on identified sites within the EU where positive aquaculture development was observed, determine enabling conditions (social acceptance, regional policies, economic activity agglomeration, environmental compatibility) which fostered the expansion of aquaculture in these regions.	15/12/2015	JRC Technical reports	
													3015	Sustainability of Aquaculture	Aquaculture farming systems (offshore, recirculation, multi-trophic, algae) will be evaluated in light of the most recent technology developments. The evaluation of sustainability will take into account alternative animal protein production forms and also wild capture fisheries.	11/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
													3017	Extended Regional Analysis in Fisheries	Using fishing vessel positioning information, the JRC will study the movement of fishing vessels, to derive information on fish stocks exploited by coastal communities. This will allow the assessment of the value of the targeted stocks for these communities. The analysis will include a characterization of the EU fishing industry structure around the analysed coastal communities on the basis of the geographical range of operational activity.	11/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
													3018	Food Consumption Patterns and Food Security	An analysis of consumption trends (e.g. meat vs fish consumption) in support of food security will be performed. Scale and coverage will depend on data availability.	16/12/2016	JRC Technical reports	
													3019	ICES Working Group Report on Applied Genetics	Following the annual Meeting of the Working Group on Applied Genetics for Fisheries and Mariculture of the International Council for the Exploration of the Sea (ICES), to be hosted by the JRC, the JRC will contribute to a report and recommendations to the ICES Advisory Committee (ACOM) and the ICES Scientific Committee (SCICOM).	31/07/2015	Scientific and policy reports	
													30110	Biomass Availability from a Fisheries Perspective	In 2014 DG RTD requested the JRC to produce "an overarching (covering all uses), world-class reference study on sustainable biomass availability". The G03 Fisheries and Aquaculture Group will contribute to this exercise with its expertise and available capacity.	31/12/2015	JRC Technical reports	
1.4.e Improve the interoperability of the EU maritime surveillance system (the common information sharing environment).																		
291 - MAREX Maritime Data Exchange	R&D work in efficient electronic maritime information exchange across sectors and borders. New knowledge on technical frameworks for interoperability and standardization requirements with a focus on the maritime domain (e.g. integration of maritime surveillance, e-maritime, e-freight, e-customs). Learning from existing initiatives, building expertise, conducting prototyping/experimentation, giving independent and neutral advice.	JRC.G.3 Franco OLIVERI	1.4.e	MARE	n/a	Gminder Beate	CNECT DIGIT HOME MOVE TAXUD	MS EU - Member states EU	01/01/2014 31/12/2015	2-Information systems & services (25%) 7-Scientific, technical & policy consultancy (75%)	44 - CISE Common Information Sharing Environment for the EU maritime domain 240 - CISE CoopP CISE Cooperation Project 294 - HUBBLEU Blue Hub	INS-RS	3	Analysis of suitable interoperability technologies	Following familiarization with existing interoperability technologies (e.g. through the ISA programme and government activities of DG DIGIT), JRC will conduct limited R&D prototyping and experimentation in-house for testing and validating the CISE (Common Information Sharing Environment for the maritime domain) data model and communication gateway. This may involve the JRC's BlueHub platform.	15/12/2015	Scientific and policy reports	
													4	CISE Data Model maintenance	The Data Model already defined by WPS of the Cooperation Project for CISE and further refined and structured in the frame of work towards deliverable 1 in 2014 (see above) will be maintained actively throughout 2015. It will be documented using an online tool to make sure it is used by partners of the CISE POV project.	20/12/2015	JRC Technical reports	
1901 - CISEPOV DRAFT- CISE POV	To support the Pre-Operational Validation (PoV) FP7 Project EUCISE2020 for the implementation of CISE (Common Information Sharing Environment for the Maritime Domain), as a permanent member of the Engineering&Operation Support (EOS) and Verification&Validation (VV) Groups set up for this FP project. To review project results, advise on selected technical topics, and ensure coherence with other parallel developments by the Commission towards implementation of CISE.	JRC.G.3 Franco OLIVERI	1.4.e	MARE	MARE	Beate GMINDER, MARE.D.1	CNECT DIGIT HOME MOVE TAXUD	MS EU - Member states EU	01/09/2014 31/03/2017	7-Scientific, technical & policy consultancy (100%)		COM-AA	1	Activity report with the TAG and POV	This deliverable describes the different activity linked to the chairing and managing of the TAG and the scientific and technical contribution to the PoV project.	16/12/2015	JRC Technical reports	
													2	Implementation of CISE components	-The eHandbook website -The registry of authorities and services -The data model and service model -The CISE data dictionary	16/12/2015	Scientific information systems and databases	
													3	aSens Study	Contribute to the alignment of CISE development with other EC endeavours	30/09/2015	Scientific and policy reports	
													4	Activity report with the TAG and POV	This deliverable describes the different activity linked to the chairing and managing of the TAG and the scientific and technical contribution to the PoV project.	16/12/2016	JRC Technical reports	
													5	Implementation of CISE components	This deliverable will describe the final design and prototype of: -The eHandbook website -The registry of authorities and services -The data model and service model -The commissioning plan	16/12/2016	Scientific information systems and databases	
													6	Core vessels vocabulary report	This deliverable will describe the activity of JRC in the specification of a Core vessel vocabulary	30/06/2016	JRC Technical reports	
													7	Activity report with the TAG and POV	This deliverable describes the different activity linked to the chairing and managing of the TAG and the scientific and technical contribution to the PoV project.	20/09/2017	JRC Technical reports	
8	Implementation of CISE components	This deliverable will describe the development of a test bed platform for CISE and the associated commissioning plan. It will also describe the activities linked to the adaptation of CISE components and the consolidation of CISE technical documentation after the PoV.	30/09/2017	Scientific information systems and databases														
9	Test reports	This deliverable will describe the activity of test of CISE participants (application of the commissioning test)	30/09/2017	JRC Technical reports														
1.5 Health and Food Safety																		
1.5.1 Health																		
1.5.1.a Develop European health registry data in the fields of cancer and rare diseases, and coordinate and support related stakeholder groups and activities. This includes the development of European information systems. Harmonise and develop quality healthcare management frameworks and tools, e.g. accreditation schemes, including a voluntary accreditation scheme for breast cancer services.																		
249 - HARCAS Harmonisation and Development of Cancer Information and Breast Cancer Services in Europe	Development of a first EU quality assurance scheme for breast cancer services to ensure an absolute minimum set of quality standards for breast cancer healthcare services across the EU. Revision of the 4th edition of the European guidelines for quality assurance in breast cancer screening and diagnosis and integration into the scheme. Transfer and further development of the European cancer data service for quantifying and comparing the cancer burden across Europe and identifying good practices.	JRC.I.2 Donata LERDA	1.5.1.a	SANTE	SANTE	SANCO.C.1 and SANCO.C.2 - Antoni MONTSERRAT (Antoni.Montserrat@ec.europa.eu) for breast cancer services and Helmut WALTERIUS (Helmut.Walterius@ec.europa.eu) for cancer information	GROW RTD	EA - European co-operation for Accreditation ENCR - European Network of Cancer Registries MIN Health EU+ - European Ministries of Health (Member States and Associated Countries)	15/12/2012 15/12/2015	2-Information systems & services (50%) 4-Methods and testing (50%)	2163 - HIRESELD the European High Resolution Study on ELDERly patients	COM-AA	1	Draft revision of guidelines	D.B.3_1_14 Draft new version of the European Guidelines for breast cancer screening and diagnosis - content and report on open consultation / approval process	14/12/2015	Scientific and policy reports	
													2	Draft description of accreditation scheme	D.B.5_1_14 Draft European QA scheme for breast cancer services including the specific requirements for breast cancer care derived from the New European Guidelines for screening (deliverable 1) and from the guidelines platform for the other stages of care (deliverable 8) - content and description of open consultation results	15/12/2015	Scientific and policy reports	
													3	Draft implementation guide	D.B.5_2_14 Draft version of guiding documents and support material for auditors and auditees to be involved in the pilot run of the European QA scheme for breast cancer services	15/12/2015	Study Reports produced by external contractors	
													4	Evaluation of scheme and recommendations	D.B.5_1_15 Report of the pilot run of the European QA scheme for breast cancer services	14/12/2015	Study Reports produced by external contractors	
													5	Draft platform for trustworthy guidelines	D.B. to be added to AA To underpin the European QA scheme for Breast Cancer Services, the New European Guidelines need to be complemented by evidence-based, high-quality guidelines for other stages than screening and diagnosis. A draft report on the platform concept and the results of the open consultation process will be included in a report	15/06/2015	Scientific and policy reports	
													6	Training Material for Auditors	D.B.6_1_14 The auditors will need to be trained in preparation of the piloting study and the training material will be provided by the contractor	15/12/2015	Study Reports produced by external contractors	
													7	Course feed-back 1	D.C.2_1_14 Report on the training course on digital mammography session 1 (e.g. for screening organisers)	15/12/2015	Scientific and policy reports	
													9	Reporting of year 3 meetings	D.B.1_1_15 Report on the organisation of project guiding and support meetings for the third year of the project	15/12/2015	Scientific and policy reports	
													10	Proceedings YEAR 2	D.B.2_1_14 Report on the organisation of stakeholders plenary meetings for year 2 of the project	15/12/2015	Scientific and policy reports	
													12	Proceedings YEAR 2 - WG	D.B.4_1_14 Report on the organisation of working groups meetings for the second year of the project	15/12/2015	Scientific and policy reports	
													15	Minutes ENCR Sec./SC year 3	D.A.1_1_15 Hosting of ENCR Secretariat and organisation of ENCR steering committee meetings	31/12/2015	JRC Technical reports	
													17	Proceedings ENCR WG year 3	D.A.2_1_15 Establishment and steering of ENCR Working Groups	31/12/2015	JRC Technical reports	
													19	Summary report Year 3	D.A.3_1_15 Stimulation of networking and collaboration/training between cancer registries stakeholders	31/12/2015	JRC Technical reports	
													21	Summary of toolkits developed	D.A.4_1_15 Development of statistical, data visualization and reporting tools for illustrating and comparing cancer data across Europe	31/12/2015	JRC Technical reports	
24	Final Acceptance Test document	D.A.5_1_15 Establishment of an interim mirror site for European cancer data prior to porting the main site to Ispra	31/12/2015	JRC Technical reports														

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
647 - RD Platform Development of a European Platform for Rare Diseases	Development of a platform providing a central access point for information on rare diseases including access to the existing patient registries (developed and maintained by national and regional entities, research institutes, hospitals, and pharma companies). The platform will serve to harmonise the collected data and facilitate the creation of new registries. It will also facilitate the setting up of clinical trials for specific patient groups via the increased coverage of patient information.	JRC I.2 SIMONA MARTIN	1.5.1.a	SANTE	SANTE	DG SANCO.C.1 - Jaroslaw WALIGORA - Jaroslaw.WALIGORA@ec.europa.eu	RTD	MIN Health EU+ - European Ministries of Health (Member States and Associated Countries)	11/12/2013 11/12/2016	2-Information systems & services (100%)			COM-AA	1	Web site	Portal for rare disease registries and information hub	30/12/2015	Scientific information systems and databases
														3	Report on transfer of networks to JRC	Report on the negotiation phase for transferring the activities of European level coordination of the surveillance networks EUROCAT (European Surveillance of Congenital Anomalies) and SCPE (Surveillance of Cerebral Palsy in Europe) to JRC	28/02/2015	Scientific and policy reports
														4	Overview of the Platform's governance structure	Overview of the concept, selection procedure and creation of the governance structure of the Platform	31/05/2015	JRC contributions to policy documents
														5	Platform's architecture design document	Vision document and architecture overview document	15/09/2015	JRC contributions to policy documents
														6	Final report on the transfer of networks to JRC	Final version of the report on negotiation and outcome of the transfer of EUROCAT and SCPE coordinating activities to JRC	30/06/2016	Scientific and policy reports
														7	Draft guidelines for new registries	Draft version of guidelines for establishing new rare diseases registries	30/06/2015	Scientific and policy reports
														8	Draft implementation guide of common data set	Draft version of guiding documents for rare diseases registries involved in the pilot study on rare diseases	31/10/2015	Technical systems
														9	Revised implementation guide of common data set	Final version of guiding documents for the rare diseases registries joining the Platform	15/12/2016	Technical systems
														10	Training course for rare diseases registries	A training course will be organised for supporting existing registries and for establishing new registries	30/09/2015	Training
														11	Consensus building, harmonisation of procedures	Activity report on the working groups' meetings / workshops with Member States representatives, experts, other stakeholders	30/12/2015	JRC Technical reports
														12	Minutes of meetings YEAR 3	Report on the organisation of meetings for the third year of the project	30/12/2016	Scientific and policy reports
														13	Revised guidelines for new registries	Revised version of guidelines for establishing new rare diseases registries	30/05/2016	Scientific and policy reports
														14	Report on the Platform's network	Report on the activities, functioning and network of the EU Platform on Rare Diseases Registration	15/12/2016	Scientific and policy reports
														2244 - SupCP Support to Cancer Policy	To provide scientific and technical support to the Commission's commitments in helping coordinate national initiatives in tackling cancer, especially in relation to harmonising cancer information and addressing quality of care.	JRC I.2 Donata LERDA	1.5.1.a	SANTE
2	Final revision EU QA guidelines	Final version of the revised edition of the European QA Guidelines for breast cancer screening and diagnosis - content and open consultation results	15/12/2016	Scientific and policy reports														
3	Revised implementation guide	D.B.5_3_15 Final version of guiding documents and support material derived from the draft implementation guide upon outcomes of the pilot run of the European QA scheme for breast cancer services	13/12/2016	Technical systems														
4	Cancer fact sheets	A number of fact sheets comparing cancer incidence and mortality across European Member States, broken down by cancer site and gender	31/12/2016	Public information documents														
5	Implementation of the platform for guidelines	D.B. to be added to AA A report on the call for guidelines and final selection of trustworthy guidelines via working groups will be included in a report	15/03/2016	Scientific and policy reports														
6	Revised description of accreditation scheme	D.B.5_12_15 Upon results of the pilot study a final version of the QA scheme will be prepared to be used by National Accreditation Bodies for the QA scheme implementation	15/12/2016	Scientific and policy reports														
7	Revised training material for auditors	D.B.6_1_15 Upon outcomes of pilot study a revised version of the training material will be prepared to be regularly used by auditors when the scheme will be publicly available under National Accreditation Bodies governance	15/12/2016	Study Reports produced by external contractors														
8	Course manual for DM training course ver 2	D.C1_1_15 A training on Digital mammography will be organised for all professionals involved in screening - potentially the training might be organised in two separated sessions targeted to different trainees (e.g. the first training can be for screening programmes organisers and the second for radiologists and radiographers)	15/12/2016	Books														
9	Course feed-back 2	D.C.2_1_14 Report on the training course on digital mammography, section 2 (e.g. for radiologists and radiographers)	15/12/2016	Scientific and policy reports														
10	Web-site	Deliverable to be added in the AA Development of the project web-hub including all objects foreseen for the project in formats compatible with target users. Maintenance plan included	15/12/2016	Scientific information systems and databases														
11	Proceedings YEAR 3	D.B.2_1_15 Report on the organisation of stakeholders plenary meetings for the third year of the project	15/12/2016	Scientific and policy reports														
12	Minutes of meetings YEAR 4	Deliverable to be added to AA Report on the organisation of guiding and support meetings for the 4th year of the project	15/12/2016	Scientific and policy reports														
13	Proceedings YEAR 3 - WG	D.B.4_1_15 Report on the organisation of working groups meetings in the third year of the project	15/12/2016	Scientific and policy reports														
14	ENCR Newsflashes	Email ENCR Newsflashes, tentatively issued four times a year	31/12/2016	Public information documents														
1.5.1.b Carry out research on and analyse nutrition and diet and how they relate to behavioural science, to support EU health policies (e.g. on nutrition, physical activity, overweight/obesity, alcohol abuse, healthy ageing and prevention of non-communicable diseases). Carry out research on exposure-related issues for e-cigarettes.																		
213 - PATHWAY-27 Pivotal Assessment of the Effects of Bioactives on the Health and Wellbeing	PATHWAY-27 is an FP7 funded project that evaluates the effects of 3 bioactives (DHA, β-glucan, anthocyanins) on human health and will formulate generic protocols, best practices and guidelines for planning dietary interventions, and guidance to SMEs for producing health-promoting bioactive enriched foods and submitting health claim dossiers. The JRC tasks are related to the latter aspects of the study.	JRC I.2 SANDRA LOURO CALDEIRA	1.5.1.b	SANTE	RTD	E4 B. Mathioudakis			01/02/2013 31/01/2018	5-Monitoring, verification and surveillance (100%)			COM-IA	1	PATHWAY-27 support activities 2015	Within the FP7 Project PATHWAY, the JRC is mainly tasked with organising consensus workshops for health claims guidance. These are due in 2017. In addition to this, the JRC actively participates in regular project meetings and provides ad hoc support in a variety of issues. It is also responsible for ensuring project representation in international events. A summary of all activities conducted in 2015 in support of PATHWAY-27 will be reported under this deliverable.	15/12/2015	JRC Technical reports
														2	PATHWAY-27 support activities 2016	Within the FP7 Project PATHWAY, the JRC is mainly tasked with organising consensus workshops for health claims guidance. These are due in 2017. In addition to this, the JRC actively participates in regular project meetings and provides ad hoc support in a variety of issues. It is also responsible for ensuring project representation in international events. A summary of all activities conducted in 2016 in support of PATHWAY-27 will be reported under this deliverable.	15/12/2016	JRC Technical reports
426 - N&H Investigation of health-promoting policy measures & lifestyle factors to reduce preventable disease	This project encompasses a broad range of activities that aim to review health-promoting practices related to nutrition or lifestyle and propose best/good-practices, recommendations and guidelines (underpinned by economic evaluations whenever possible) to reduce preventable disease. The deliverables tackle issues such as childhood obesity, active and healthy ageing as well as healthy and sustainable diets.	JRC I.2 SANDRA LOURO CALDEIRA	1.5.1.b	SANTE	n/a	C4 A. Furtado	EAC ENV RTD		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)		2177 - FAMILIA Fixed And Malleable Influences on Lifespan and healthy Ageing	INS-RS	3	Dietary recommendations for active healthy ageing	Although the older population has specific dietary requirements, an initial analysis of the issue indicates the need for particular up to date dietary recommendations for the elderly in Europe. We will perform a feasibility analysis to investigate this potential need further. We aim to 1) consult relevant actors 2) understand what is preventing the development of such recommendations 3) if applicable propose measures to initiate the drafting of harmonised dietary recommendations in the EU28.	28/02/2015	Scientific and policy reports
														5	Policy Brief I: healthy eating in schools	An analysis of school-based interventions to promote health-enhancing activities and prevent obesity. Taking in consideration the COAP we will conduct an evidence-based review of the effectiveness of school-based interventions at addressing one particular action/target prioritised in the COAP. The brief also includes a definition of the problem, the different policy/intervention options and implementation considerations. First brief will address healthy eating in schools	30/09/2015	Scientific and policy reports
														6	Policy Brief II: promoting water intake	Taking in consideration the priority actions of the 2014 European Action Plan on Childhood Obesity we will conduct an evidence-based review of the effectiveness of interventions at addressing water consumption in schools. The brief also includes a definition of the problem, the different policy/intervention options and implementation considerations.	30/09/2016	Scientific and policy reports
														8	Scientific support activities HLG nutrition 2015	To support the strategy for Europe on Nutrition, Overweight and Obesity-related health issues, the JRC actively participates in related regular meetings and ad hoc working groups of the High Level Group on nutrition and physical activity and the EU Platform for Action in nutrition, physical activity and health. A summary of all support and presentations delivered to these fora in 2015 will be reported under this deliverable.	15/12/2015	Scientific and policy reports
														9	Scientific support activities HLG nutrition 2016	To support the strategy for Europe on Nutrition, Overweight and Obesity-related health issues, the JRC actively participates in related regular meetings and ad hoc working groups of the High Level Group on nutrition and physical activity and the EU Platform for Action in nutrition, physical activity and health. A summary of all support and presentations delivered to these fora in 2016 will be reported under this deliverable.	15/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
648 - BE2EU Behavioural Economics to EU policy making	A Behavioural Economics capacity in the European Commission able to respond in a dynamic way to address arising needs of the Commission services. Starting from work on issues of health and consumer protection, generic analytical tools focusing on the effect of economic incentive structures on citizens' behaviour will be developed, which may then be tested for application in other policy fields where relevant.	JRC.I.2 BENEDIKT HERRMANN	1.5.1.b	SANTE	n/a	DG.SANCO.C.4 - BALOGH Attila - Attila.BALOGH@ec.europa.eu DG.SANCO.C.3 SULZNER Michael - Michael.SULZNER@ec.europa.eu;	FISMA	MIN Health EU+ - European Ministries of Health (Member States and Associated Countries)	01/01/2013 31/12/2016	7-Scientific, technical & policy consultancy (100%)				INS-RS	2	The ageing consumers in Europe	Discussion of the consequences of the ageing of European population on economic decision making of consumers, taking insights from behavioural sciences	30/06/2015	Scientific and policy reports
															4	BE and Vaccination	Vaccination rates in Europe have been declining for the past decade as an increasing number of citizens believe that some of infectious diseases such as measles and rubella are eliminated. However, infectious diseases like measles and rubella did not disappear, notwithstanding all the efforts of Member States. The Behavioural Economics Team (BET) will therefore search for new possibilities to increase uptake rates of vaccination programmes.	30/06/2016	Scientific and policy reports
															5	Report on peer pressure incentives	Report on the efficiency of peer incentives schemes on improvement of healthy lifestyle	27/02/2015	Scientific and policy reports
															6	BE and reduction of overconsumption of alcohol	The report will survey existing interventions aimed at reducing overconsumption of alcohol. At the same time the report will discuss possible new interventions based on recent insight from behavioural economics.	31/12/2015	Scientific and policy reports
1.5.1.c Analyse emerging technologies and innovation in the health care field, including e-health, nanomedicine, personalised medicine and early diagnosis, and the impact of ICT on the security and privacy of e-health solutions.																			
152 - BiOrigin Metrology for biomolecular origin of disease	The project BiOrigin (Metrology for biomolecular origin of disease) aims to explore new techniques that will address measurement challenges in the health field. The project will develop traceable and comprehensive strategies for accurate structure-function determination for biomolecules able to interfere with biological membranes and thus will contribute to the development of next generation antibacterial therapeutics.	JRC.I.4 LUIGI CALZOLAI	1.5.1.c	SANTE	n/a	C. Bruetschy (HoU SANCO.E.6) Innovation and Sustainability	GROW	Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry EMA - European Medicines Agency (EMA) - EURAMET EV EUROPEAN ASSOCIATION OF N	01/06/2012 31/05/2015	4-Methods and testing (100%)		600 - NanoMed Characterisation of nanodevices for medical applications	COM-TW	2	BiOrigin final Report	This report summarises the progress and achievements of the BiOrigin project.	31/07/2015	JRC Technical reports	
176 - HIPAD High-Density Peptide MicroArrays and High-Throughput, Label-Free Detection of Peptides, ...	The aim of the project is to develop high density peptide microarray for proteomic studies. In particular, the objective is to integrate the microarray technology with complementary label-free technologies such as Surface Plasmon Resonance imaging (SPRI) and Matrix free laser desorption ionization imaging (MALDI). The task of the JRC is to develop nanostructured surfaces that will be used as unique platform for peptide synthesis and biomolecular interaction characterization by SPRI and MALDI.	JRC.I.4 Pascal COLPO	1.5.1.c	SANTE	RTD	C. Bruetschy (SANCO.E.6)	GROW	Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry	01/01/2012 31/12/2015	4-Methods and testing (100%)		375 - NanoCharacterisation and analytical methods for nanomaterials 600 - NanoMed Characterisation of nanodevices for medical applications 601 - NanoTest Test methods for characterisation of interaction	COM-IA	2	Report on quality control	Protocol for surface characterisation and quality control	01/01/2015	JRC Technical reports	
														3	Final report	Report summarizing the achievements of the project	30/11/2015	JRC Technical reports	
600 - NanoMed Characterisation of nanodevices for medical applications	The project NanoMed aims to develop a characterisation cascade for nano constructs and carrier systems used for targeted drug delivery and imaging. The project targets P-Chem characterisation, stability and bio interactions focusing in particular on protein or cell nanoparticle interactions (i.e. adsorption/ desorption/ uptake). The aim is to facilitate the regulatory acceptance of new nanomedicine formulations.	JRC.I.4 Francois ROSSI	1.5.1.c	SANTE	n/a	D5 A. Mathieu	GROW	Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry EMA - European Medicines Agency	01/01/2014 31/12/2016	1-Foresight studies & techniques (100%)		176 - HIPAD High-Density Peptide MicroArrays and High-Throughput, Label-Free Detection of Peptides, ... 375 - NanoCharacterisation and analytical methods for nanomaterials 596 - NanoTox	INS-ER	3	In vitro testing protocols	JRC Report/publication on In vitro testing protocols of nanovectors	31/12/2015	JRC Technical reports	
														4	Characterisation of NP-proteins interactions	PhD thesis on the development of characterisation methods for evaluating the interactions of proteins and nanovectors.	27/11/2016	PhD thesis	
														5	Report on implementation of EU-NCL	Development of a series of testing protocols in the frame of the future EU-Nanotechnology Characterisation Lab to support European nanomedicine initiative	31/12/2016	JRC Technical reports	
705 - HEALTHOMICS Integration of omics knowledge into practice and prevention	The project focuses on standardization, harmonization & guidelines for omics-based tests, especially those with the highest impact in terms of public health. -omics data have the potential to elucidate mechanisms of action, exposure assessment, and dose-response assessment. A number of fields have applied -omic technologies to identify biomarkers, to predict toxicity as a screening tool, and for use in defining modes of action.	JRC.I.1 Laura GRIBALDO	1.5.1.c	SANTE	n/a	B2 S. Lecrenier, D5 S. Juelicher, D6 S. Soro	GROW RTD	- European Diagnostic Manufacturers Association EFPIA - European Federation of the Pharmaceutical Industries and Associations (EFPIA) EMA - European Medicines Agency EURORDIS - Rare Diseases Europe MIN Health EU+ - European Ministries of Health (Member States and Associated Countries)	01/01/2014 31/12/2016	1-Foresight studies & techniques (50%) 4-Methods and testing (25%) 7-Scientific, technical & policy consultancy (25%)		439 - Bio-KET Biotechnologies for Health Applications 694 - FOODSAFETOOL Integrated tools supporting legislative developments for food ingredients and contact materials 822 - ExpoMeth Human Exposures Methodological Portal in support of Public Health 997 - NANOPROTEOMICS Potential health impact of nanoparticles used in	INS-UR	3	Report and guidelines for NGS sequencing	Report and guidelines for NGS sequencing and other technological advances in the diagnostic settings	30/04/2015	Scientific and policy reports	
														4	Report on biotechnology for healthomics	A workshop will be organized to address new developments in the area of diagnostic and treatment tools based on biotechnologies and applications for human health, putting initial emphasis on Blue Biotechnology and proposing a prioritization of areas where the JRC actions could bring highest EU added value. It will support innovation by assisting to identify how to reduce technological/non-technological bottlenecks & barriers to the early entering into the EU market, thereby underpinning the KETS	21/11/2015	JRC Technical reports	
														5	Workshop on rapid Human Biological Monitoring	Workshop on rapid Human Biological Monitoring methods to evaluate health impacts in the event of chemical disasters	25/02/2016	Scientific and policy reports	
786 - DNAA Applied DNA Analysis	Harmonisation of DNA analysis for regulatory (eg food composition) and diagnostic genetic testing (eg cancer/rare diseases). Building-up a European Network of accredited DNA Testing Labs is expected as initial step toward defining and agreeing on method performance criteria and validation parameters. Following definition of user demands (SANCO) and situation mapping in 2014, preparation of guidance documents + laboratory based activity (in-house methods verification) is planned for 2015.	JRC.I.3 Maddalena QUERCI	1.5.1.c	SANTE	n/a	MATHIOUDAKIS Basil (SANCO E4), GARAU Carmen (SANCO E5)	GROW RTD	Contr Labs - National control laboratories	01/01/2014 30/06/2016	1-Foresight studies & techniques (100%)			INS-RS	2	Workshop: establishing EU Network on DNA Analysis	Report on activities towards the establishment of the network and draft Terms of Reference	31/03/2016	Scientific and policy reports	
997 - NANOPROTEOMICS Potential health impact of nanoparticles used in consumer products	Nanoparticles are nowadays widely used in consumer products however information about the exposure of the consumer to nanoparticles (NPs) in consumer products and their potential risk/effects on health is very limited. The project aims to support and anticipate EU policies in the area of human exposure to nanomaterials and potential effects/risks by contributing to development of new testing and prediction methodologies based on a combination of in vitro testing and post genomic approaches.	JRC.I.1 Hubert CHASSAIGNE	1.5.1.c	SANTE	RTD	DG RTD F4 Arne Heevelet, DDG3.D.3 (Key Enabling Technologies - Advanced Materials and nanotechnologies) Nicolas SEGEBARTH (Research Programme Officer), Christos TOKAMANIS (Head of Unit); DG ENV A.3 Andrej KOBE	ENV	EFSA - European Food Safety Authority EMA - European Medicines Agency (EMA) MIN Health EU+ - European Ministries of Health (Member States and Associated Countries)	01/01/2014 31/12/2016	1-Foresight studies & techniques (45%) 4-Methods and testing (40%) 7-Scientific, technical & policy consultancy (15%)	JRC.I.4		INS-ER	2	In vitro protocols & post-genomic approach for NPs	Report on integrated post-genomic approaches developed and tested for the investigation of interactions of nanomaterials with cells (in vitro assays) towards their applications for hazard assessment of consumer products. The report will include guidelines on the possible harmonisation of omics protocols for a specific route of exposure (e.g. intestinal barrier) and a nanoparticle type (e.g. inorganic).	31/12/2015	Scientific and policy reports	
														3	Post-genomics for hazard assessment of Nanosilver	Report on the alterations of essential cellular processes/functions caused by nanosilver exposure and identified using post-genomic approaches, as an indicator of a potential hazard to health. The report will include a direct human exposure route (ingestion) to silver nanoparticles (AgNPs) that are used in medical care and in consumer products (food, hand-to-mouth contact - opinion of the EC-SCENIHR (Scientific Committee in Emerging and Newly Identified Health Risks)).	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
1.5.1.d Develop surveillance tools and methods for detecting emerging cross-border health threats.																			
564 - MediSys-HDRAS Open Source and Crisis Management Technologies for Health Security	The project's R&D activities on open-source-OS harvesting/analysis, incl. event extraction and social media, further develops JRC event-based surveillance system MediSys as a core component of surveillance by EU agencies incl. ECDC and EFSA. It too strengthens in context of cooperation with ECDC, S&T support for the G7-GHSI Early Alerting & Reporting (EAR) project. Its combined OS & crisis management technology R&D is applied to develop with WHO its Hazard Detection & Risk Assessment System.	JRC.G.2 Enik VAN DER GOOT	1.5.1.d	SANTE	n/a	Germaine Thinus	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) GHSAG - Global Health Security Action Group ECDC - European Centre for Disease Control EFSA - European Food Safety Authority MIN Health EU+ - European Ministries of Health (Member States and Associated Countries) WHO - World Health Organization	01/01/2014 31/12/2016	2-Information systems & services (90%) 9-Education & training (10%)			287 - ECML European Crisis management Laboratory (ECML) 438 - MMA Media Monitoring and Analysis for Policy Support	INS-RS	201504	MediSys workshop for practitioners	Organise workshop hosted at JRC Ispra site for public health practitioners about the use of MediSys. This workshop focuses on the practical application of MediSys and participants include public health authorities from the EU, MSs, EU agencies ECDC and EFSA, UN, WHO and FAO.	15/06/2015	Training	
														56420151	WHO HDRAS Tasking and Activity	Release further developed HDRAS system integrating the tasking system with an activity filtering system providing a user based dashboard as well as a flexible ad-hoc filtering and navigation system. Cooperation with WHO is referenced in JRC- SANCO MoU (2013).	02/11/2015	Technical systems	
														56420152	Twitter in MediSys	Mine twitter for tweets on system recognised medical events and obtain crowd-sourced internet based resources relating to the medical events. This research will reveal which resources the public associates with events reported by media and official medical sources. The results will be integrated in event based surveillance system MediSys.	02/11/2015	Technical systems	
														56420153	Optimised MediSys Portal interface	Develop a prototype customisable User Interface along the lines of the EMM corporate portal in order to optimize the information dissemination from the MediSys platform to its user community.	01/12/2015	Technical systems	
														56420161	WHO HDRAS Team-based	Release further developed HDRAS team-based system with the incorporation of the functionality to support participation of regional centres in all aspects of the system. Cooperation with WHO is referenced in JRC-SANCO MoU (2013).	31/10/2016	Technical systems	
1150 - PLANTHEALTH MEDISYS FOR PLANT HEALTH	The objective of the SLA is to further develop the media monitoring system MediSys for the early identification, monitoring and reporting of signals on existing and emerging plant health threats. Collaboration between EFSA, EU member states and JRC will be further strengthened.	JRC.G.2 Jens LINGE	1.5.1.d	SANTE	SANTE	Germaine THINUS, SANCO.DDG1.C.3 + Giuseppe STACCANELLI (EFSA)	EFSA - European Food Safety Authority	01/10/2013 30/09/2016	2-Information systems & services (100%)			COM-TW	1	MediSys for plant health threats	JRC will further develop the MediSys website, starting from the current EFSA menu, to allow monitoring of known plant health threats (e.g. movement/spread of a tree pest through a continent with applications of graphical tools such as maps and charts). Plant health threats include plant pests (insects, mites, molluscs and nematodes) and pathogens as well as invasive plants and weeds.	31/10/2016	Scientific information systems and databases		
													2	Reporting tools	JRC will develop appropriate reporting tools, following the recommendations from EFSA and the contractors. The JRC Newdesk application will be used to publish and distribute newsletters.	31/12/2015	Scientific information systems and databases		

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1844 - MEDISYS FOR ECDC MEDISYS CUSTOMISATION 2014	The general objective of the SLA which is a follow-up of the recently completed SLA with ECDC is to: 1. Provide maintenance for MediSys; 2. Further develop and improve the functionality of MediSys for handling social The general objective of the SLA which is a follow-up of the recently completed	JRC.G.2 Jens LINGE	1.5.1.d	SANTE	n/a	ECDC is funding this SLA			01/07/2014 30/07/2015	2-Information systems & services (100%)			COM-TW	1	Final Report	The final report will summarize the main project achievements and deliverables	30/07/2015	Scientific and policy reports
1845 - D-MEDISYS ECDC 2015 DRAFT MEDISYS FOR ECDC 2015	The general objective of the SLA which is a follow-up of the recently completed SLA with ECDC is to: 1. Provide maintenance for MediSys; 2. Further develop and improve the functionality of MediSys for handling social The general objective of the SLA which is a follow-up of the recently completed	JRC.G.2 Jens LINGE	1.5.1.d	SANTE	n/a	ECDC is funding this SLA			01/07/2015 30/06/2016	2-Information systems & services (100%)			COM-TW	1	Final Report	The final report will summarize the main project achievements and deliverables	30/06/2016	Scientific and policy reports
2740 - BIOCL4CRISMA Molecular biosensors & climate data for crisis management to prevent waterborne microorganism impact	To combine the experimental molecular biological data with climate modeling in an early warning crisis management support system in order to predict and anticipate the outbreak of water-related microorganisms and then mitigate the impact on human and environment health.	JRC.H.1 Teresa LETTIERI	1.5.1.d	SANTE	n/a	n/a	ENV		16/03/2015 15/03/2017	5-Monitoring, verification and surveillance (100%)	JRC.H.2 JRC.H.7 JRC.I.4		INS-ER	1	Bio-recognition element for biosensors	Synthesis and characterization of antibodies as bio-recognition element for biosensor and set up of qRT-PCR for targeted microorganisms	30/03/2016	JRC Technical reports
														2	Test of molecular biosensors	Report/Paper describing the application of the molecular biosensors to case studies to test the detection in real conditions such as for algal bloom, Giardia, E.coli in floods.	30/09/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Mapping mosquito & link to global temperature data	Identification of potential habitat for dengue virus in Europe and verification of dengue virus presence into mosquito eggs.	15/01/2017	JRC Technical reports
														4	Crisis management support system	The report will describe the parameters and variables to be included in the crises management for the case studies described in the project. For floods the Danube river will be the pilot study and mapped for the presence of the targeted microorganisms.	10/03/2017	JRC Technical reports
														5	Crisis management Simulation	The publication will show the integration of the parameters developed in the project and they will be used in a simulation scenario for a crisis management support.	30/06/2017	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1.5.2 Food safety																		
1.5.2.a Develop certified reference materials and harmonised/validated methods for measuring, identifying and quantifying chemicals and other contaminants, nanomaterials, pathogens, and GMOs in food and feed. Support the IA on criteria for the identification of endocrine disruptors																		
134 - Support CEN TC 275 Pre-normative research to support standardisation of methods for process contaminants in food	Mandate M463 for standardisation addressed to CEN for methods of analysis for food contaminants requests provision of standardised methods of analysis of chemical substances that are present in food, or are generated during food processing, and that have a potentially deleterious effect on human health. JRC provides assistance to the standardisation process (drafting of SOP and follow-up of CEN enquiry) for mycotoxins, acrylamide and polycyclic aromatic hydrocarbons in a variety of foodstuffs.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	GROW	Frans Verstraete		- STICHTING NEDERLANDS NORMALISATIE -	01/01/2012 31/12/2017	6-Reference materials and measurements (100%)			COM-TW	2	CEN Draft standard for Ochratoxin A	The draft of a standard method for the determination of ochratoxin A in liquorice and spices and in cocoa and cocoa products will be submitted to CEN.	31/12/2016	Validated methods, reference methods and measurements
														3	CEN Draft standard for alternaria toxins	A draft of standard method for the determination of alternaria toxins (alternariol, alternariol monomethyl ether, tenuazonic acid, tenuoxin and alternuene) in cereals, seeds and vegetables by LC-MS/MS, will be submitted to CEN.	31/12/2017	Validated methods, reference methods and measurements
187 - IFAAM Participation in FP7 project "Integrated approaches to food allergen and allergy management (IFAAM)"	The setting of clinical thresholds and safe levels for certain allergens in food is hampered by difficulties in measuring their allergenic ingredients. IFAAM is an integrated project bringing together allergy groups, clinical experts, food producers and the food testing community to address many of the important issues facing allergen suffers. The role of IRMM in this project is to improve measurement comparability through the development of harmonised testing methods.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	RTD	Alexandra Tuijelaars, RTD.E3, alexandra.tuijelaars@ec.europa.eu			01/03/2013 31/12/2016	4-Methods and testing (100%)		726 - ALLERGIC Method development for food allergens measurements	COM-IA	1	Peptide markers for allergen quantification	The identification of candidate peptide markers suitable for the quantification of milk and egg proteins in food ingredients. This will include an assessment of the stability of the peptide during extraction, digestion and analysis and their utility for the accurate quantification of target proteins. Peptide solution standards will be shared with consortium members to assess the effect of common calibrators on improving comparability of measurements.	31/12/2016	Reference materials
														2	Food processing effects on target protein markers	The effects of food process on the extraction, detection and quantification of target proteins and peptides will be investigated. The effects of processing on the ability of peptides to act as quantitative indicators of the presence of priority food allergens will be assessed. If possible validated methods will be developed for the quantification of the robust markers identified for milk and egg, including an inter-laboratory comparison with other project partners. Report to be published.	31/12/2016	Scientific and policy reports
344 - GMO CRMs Certified reference materials and user guidance for reliable GMO quantification	Development of certified reference materials on request of the Biotech Industry for the quantification of various GMO events as laid down in (EC) No 1829/2003. This includes the sustainable provision of GMO CRMs to analytical laboratories world-wide. Guidance on the proper use of GMO CRMs is provided to GMO testing laboratories in form of training courses and documents.	JRC.D.2 Stefanie TRAPMANN	1.5.2.a	SANTE	n/a	Ilaria Ciabatti		ENGL - European network of GMO laboratories EURL-GMFF - European Reference Laboratory for GMO food and feed (EURL-GMFF)	01/01/2014 31/12/2016	6-Reference materials and measurements (80%) 9-Education & training (20%)		429 - green DNA STDs Standardisation of DNA identification and quantification measurements for the green biotechnology	INS-RS	2	GMO CRM for the maize event VCO-01981-5 released	Certified Reference Material required for the authorisation of the GMO event in Europe and used by GMO testing laboratories to implement (EC) No 1829/2003 and (EC) No 619/2011.	31/12/2015	Reference materials
														5	GMO CRM released	Release of the GMO Certified Reference Material	31/12/2016	Reference materials
429 - green DNA STDs Standardisation of DNA identification and quantification measurements for the green biotechnology	Development of certified reference materials and documentary standards contributing to standardisation of the identification and quantification of DNA. This project supports legislation requiring accurate DNA measurements. It contributes to the implementation of daughter legislations of (EU) No 56/2013 on rules for the prevention, control and eradication of certain transmissible spongiform encephalopathies.	JRC.D.2 Stefanie TRAPMANN	1.5.2.a	SANTE	n/a	Koen Van Dyck (G4)		CCQM - Consultative Committee for Amount of Substance - Metrology in Chemistry EURL AP - European Reference Laboratory for Animal Proteins in feedingstuffs	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)		344 - GMO CRMs Certified reference materials and user guidance for reliable GMO quantification 621 - red DNA CRMs Standardisation of DNA measurements related to health diagnostics and user guidance for measurement	INS-RS	2	Lambda DNA CRM released	CRM for DNA quantification developed and released, supporting implementation of e.g. Directive 98/79/EC, (EU) No 56/2013, (EC) 99/2001 and (EC) No 1829/2003.	31/12/2015	Reference materials
														3	ruminant DNA CRM certified	Reference material for ruminant DNA quantification certified.	31/12/2016	Reference materials
														4	porcine DNA CRM certified	Reference material for porcine DNA quantification certified.	31/12/2016	Reference materials
														4	Detection of cytokines during in vitro testing	PhD thesis on the detection of cytokines during in vitro testing	31/12/2015	PhD thesis
601 - NanoTest Test methods for characterisation of interaction of nanomaterials with biological environment	The NanoTest project aims to adapt and develop test methods for characterising the interactions of nanomaterials with biological environment (proteins, cell membranes...) in particular for in vitro assay optimisation and nanomedicine products characterisation. It includes the determination of the kinetic parameters of NP-protein interactions, the determination of NP and NP-protein complex stability in cell culture media and in vitro dosimetry.	JRC.I.4 Pascal COLPO	1.5.2.a	SANTE	n/a	D5 S. Juelicher; D6 S. Soro	ENV GROW	Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Chem Cos Pharm Food Agri EU - Competent Authorities of EU Member States Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry	01/01/2014 31/12/2016	4-Methods and testing (100%)		37 - BIOMONAR Biosensor nanoarrays for environmental monitoring 63 - RADAR Rationally Designed Aquatic Receptors for Label-Free Biosensors	INS-ER	5	NanoBiotechnology Workshop	Workshop on nanotechnology, organized by the JRC with the participation of experts from the New Member States and Associated countries	31/12/2015	Training
														6	Characterising proteins nanoparticles interactions	JRC Report/publication on methods for characterising proteins nanoparticles interactions (affinity, coverage). Application to Au, Ag and SiO2	31/12/2015	JRC Technical reports
														7	Stability of NMs suspension in cell culture media	JRC Report/publication on methods for the determination of the stability of NMs in cell culture media (state of agglomeration), SiO2 and Ag	31/12/2015	JRC Technical reports
														8	In vitro dosimetry method development	JRC Report/publication on a method for determining the effective dose in contact with cells during in vitro assays.	31/07/2016	JRC Technical reports
														9	Biokinetics of nanomaterials.	JRC Report/publication on the interaction biokinetics of nanomaterials with different cell types: analysis of the mechanisms of cellular uptake. Application to Au and Ag of different sizes	31/12/2016	JRC Technical reports
608 - FCM-REG Cost effective pre-standardisation enforceability for food contact safety	This project aims to develop a cost effective approach for testing compliance for Reg. 10/2011 since only 28 methods are available for 930 substances. It will develop multianalyte methods that will be harmonised, tested and group validated. This will provide pre-standardisation of future standards for the benefit of CEN and ISO. The project will also include training on state of the art in compliance and migration testing e.g under the umbrella of Enlargement and Integration.	JRC.I.1 Barbara RAFFAEL	1.5.2.a	SANTE	n/a	DG SANCO.E.6 - C. Bruetschy (HoU); B. Schupp		CEFC - European Chemical Industry Council (CEFC) CEN - European Committee for Standardization CEPE - Paints, printing inks and artists' colours in Europe EFSA - European Food Safety Authority ISO - International Organization for Standardization (ISO)	01/01/2014 31/12/2017	2-Information systems & services (25%) 4-Methods and testing (25%) 5-Monitoring, verification and surveillance (50%)		629 - EURL-FCM European Reference Laboratory for Food Contact Materials 694 - FOODSAFETOOL Integrated tools supporting legislative developments for food ingredients and contact materials 2220 - FCM FORESIGHT Investigative scoping study on non-harmonised food contact materials	INS-RS	1	Compilation of methods for FCM in the EU under Reg	Catalogue of methods for testing food contact materials compiled from different sources, including: petitions from SANCO archives and EFSA	12/12/2017	Scientific information systems and databases
														2	Roadmap for development of multianalyte methods	Categorisation of substances and methods with mapping of potential groupings towards multi-analyte clustering for selected groups of specific plastics constituents legally authorised by EU Regulation 10/2011. This will provide the ground for the development and validation of more cost effective multianalyte methods.	15/10/2016	Scientific and policy reports
														3	Development of multianalyte methods	Develop methods of interest for future validations in the context of CEN/ISO and/or EURL-FCM. Case study of selected multianalytes of relevance for food contact.	11/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Technical guidelines on migration testing	European legislation on food contact materials is long standing and has become extensive for plastics. In 2014 several technical guidelines in the framework of the implementation of Regulation (EC) No 10/2011 for plastic food contact materials will be published in particular one on migration.	05/12/2016	Scientific and policy reports
694 - FOODSAFETOOL Integrated tools supporting legislative developments for food ingredients and contact materials	This underpinning project develops multidisciplinary approaches to anticipate legislative options for food ingredients such as flavourings, additives, food contact materials, novel food technologies, including chemical profiling, potential chemical risk indicators & exposure tool such as FACET exposure assessment tool. This project includes application towards safeguards for innovation (e.g. active/intelligent, nanomaterials, ingredients and sustainable alternative FCM).	JRC.I.1 Eddo HOEKSTRA	1.5.2.a	SANTE	n/a	DG SANCO.E.6 - C. Bruetschy (HoU); B. Schupp	GROW	CEFC - European Chemical Industry Council (CEFC) CEN - European Committee for Standardization CEPE - Paints, printing inks and artists' colours in Europe CIAA - Confederation of the food and drink industries of the EU EFSA - European Food Safety	01/01/2014 31/12/2016	1-Foresight studies & techniques (25%) 4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (25%)		605 - FCM-REG Cost effective pre-standardisation enforceability for food contact safety 629 - EURL-FCM European Reference Laboratory for Food Contact Materials 807 - MixtureTox Toxicity assessment of	INS-UR	2	New developments and initiatives for FACET tool	Report on expansion, trainings and sustainability of the FACET exposure assessment tool. Activities are targeting refined exposure assessment (e.g. for food contact) as well as innovations, with a new module for NIAS. supports also add. Policy documents: 1333/2008 and 1334/2008	16/12/2015	Scientific information systems and databases
														3	Development of methods for unknown contaminants	Report on the developments of methods to quantify unexpected migrants from food contact products. This may include screening and/or release of chemicals of toxicological concerns from materials for food packaging, non-intentionally added substances (NIAS), or nanomaterials.	31/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
723 - Food CRMs Pesticides Certification of reference materials for pesticides in food of plant origin	The maximum residue levels of pesticides in food of plant origin are regulated by Regulation (EC) 396/2005. EU Member States are obliged to monitor the level of pesticides for compliance with MRLs. The comparability of data needs to be ensured. Certified reference materials for pesticides do currently not exist for all substances. The project will develop such materials to give labs a mean to validate analytical methods and for use in proficiency tests or other inter-laboratory comparisons.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	n/a	Almut Bitterhof, SANCO.E3		EURL Pesticides - European Union Reference Laboratory for Pesticides in Fruits and Vegetables OCL - Official Control Laboratories for Food and Feed	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)	JRC.D.2	617 - IMEP Seawater International Measurement Evaluation Program 724 - Food CRMs Myx Certification of reference materials for mycotoxins in food	INS-RS	1	CRM for pesticides in highly oil content matrix	Final production of a certified reference material (CRM) - certification report and certificate (incl. homogeneity, stability and characterisation data) - CRM released and placed on the market	31/12/2015	Reference materials
														2	CRM for pesticides in a high water content matrix	Final production of a certified reference material (CRM) - certification report and certificate (incl. homogeneity, stability and characterisation data) - CRM released and placed on the market	31/12/2016	Reference materials
724 - Food CRMs Myx Certification of reference materials for mycotoxins in food	The presence of mycotoxins in the food and feed chain is directly linked to food safety. Proper implementation of Regulation (EC) No 1831/2003 and international monitoring programmes rely on the comparability of data. Certified reference materials give laboratories a means to validate analytical methods, to assess the quality of the measurement results and to demonstrate their traceability to stated references as the SI units, contributing to standardisation	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	n/a	Frans Verstraete, SANCO.E3		Contr Labs - National control laboratories OCL - Official Control Laboratories for Food and Feed	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)	JRC.D.2	668 - EURL-MYCO European Reference Laboratory for Mycotoxins in Feed and Food	INS-RS	1	ERM-BD285 (aflatoxins in pistachios)	Final production of a certified reference material (CRM) - certification report and certificate (incl. homogeneity, stability and characterisation data) - CRM released and placed on the market	01/07/2015	Reference materials
														2	ERM-BD286 (aflatoxins and ochratoxin A in paprika)	Final production of a certified reference material (CRM) - certification report and certificate (incl. homogeneity, stability and characterisation data) - CRM released and placed on the market	31/10/2015	Reference materials
														3	CRM (ochratoxin A in barley)	Final production of a certified reference material (CRM) - certification report and certificate (incl. homogeneity, stability and characterisation data) - CRM released and placed on the market	31/12/2016	Reference materials
726 - ALLERGIC Method development for food allergens measurements	EU food labelling regulations have recently been harmonised replacing and providing further clarification to pre-existing directives and regulations. Many of the articles of the FIC Regulation (EU) No 1169/2011 address the requirement for the labelling of priority allergenic ingredients. Development and optimisation of method(s) for the determination of allergens in food commodities will be carried out in support to the European measurement infrastructure.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	n/a	Alexandra NIKOLAKOPOULOU, SANCO.E4			01/01/2014 31/12/2015	4-Methods and testing (100%)		187 - iFAAM Participation in FP7 project "Integrated approaches to food allergen and allergy management (iFAAM)"	INS-RS	1	Identification and quantification of gluten marker	Report on investigating the specific protein/ peptide markers as robust indicators for the presence of gluten. The capability of different technologies for detecting the presence of gluten at the required legislated levels will be assessed and methods/approaches for improving comparability suggested	31/12/2015	Scientific and policy reports
														3	Allergens in wine by LC-MS/MS	A preliminary investigation to assess the stability of allergen proteins in wine will be conducted. LC-MS/MS will be used to try to elucidate if allergenic proteins remain in solution in wine after time elapses from the production of the wine, or if on the contrary they precipitate which would have a clear impact in the effect caused in allergic people.	31/12/2015	JRC Technical reports
730 - FoodIntegrity Participation in FP7 project "Ensuring the Integrity of the European food chain (FoodIntegrity)"	This project aims to introduce a system of horizon scanning of emerging food fraud issues by examining correlations between commodity prices and to link levels of fraud and differences between production and traded volumes. IRMM is involved in the prioritisation of the research agenda and will contribute to the gap analysis related to harmonisation/validation/standardisation of analytical methodology, including collaborative studies.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	RTD	Sandra Tuijelaars, DG RTD E.3 alexandra.tuijelaars@ec.europa.eu; Sandrine Valentin, AGRI DDG2.C.2	AGRI		01/01/2014 31/12/2016	1-Foresight studies & techniques (40%) 4-Methods and testing (60%)			COM-IA	1	Report on major gaps in food integrity	A report will be produced summarising the outcome of this project.	31/07/2015	JRC Technical reports
														2	Report 2014-2016	A report summarising the contributions of the IRMM to this project will be prepared	31/12/2016	JRC Technical reports
825 - Support CEN 275/327 Pre-normative research to support standardisation of methods for contaminants in food and feed	In line with the mission of the JRC, and based on Mandates M/520, M/521 and M/522, IRMM develops and validates by collaborative trial up-to-date analytical methods for the determination of several natural and industrial toxins in food and feed. The validated methods will become European Standards and will support official food control in executing its tasks.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	n/a	VERSTRAETE Frans (SANCO)		CEN - European Committee for Standardization	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)		1945 - EURL-HM 2015 Operation of the European Union Reference Laboratory for Heavy Metals in feed and Food 1946 - EURL-PAH 2015 Operation of the European Union Reference Laboratory for Polycyclic Aromatic Hydrocarbons	INS-RS	1	Draft standard multi-method for mycotoxins in feed	A multi-method will be validated for the determination of mycotoxins in feed materials and compound feed by LC-MS, including a collaborative trial to evaluate the reproducibility of the method. A report containing a draft of the validated method will be submitted to CEN.	31/12/2016	Validated methods, reference methods and measurements
														3	Technical note outcome 2015	Technical note will be produced presenting the activities and results obtained in the frame of the project in 2015.	31/12/2015	JRC Technical reports
														4	Draft standard method for T2 and HT2 in feed	A method will be validated for the determination of T2 and HT2 in feed materials and compound feed by GC-MS, including a collaborative trial to evaluate the reproducibility of the method. A report containing a draft of the validated method will be submitted to CEN.	31/12/2016	Validated methods, reference methods and measurements
														6	Performance criteria	When a standardised method is not available for official controls of contaminants in feed, laboratories are allowed to use a method developed and validated in-house. In those cases it must be demonstrated by the laboratory that the performance characteristics of the method used are fit for the intended purpose. A draft of a standard on how to implement the performance criteria approach in the area of mycotoxins and heavy metals will be submitted to CEN.	31/12/2015	Scientific and policy reports
862 - MethDevOpt Methods Development and Optimisation	Development and Optimisation of methods for the detection, identification, and quantification of GMO in Food and Feed with regard to cost (higher throughput), reliability and robustness. Identification of emerging technologies needed for the EU-RL GMFF and building up the required expertise.	JRC.I.3 Maddalena QUERCI	1.5.2.a	SANTE	n/a	Dorothee ANDRE - SANCO E.1 - Dorothee.Andre@ec.europa.eu	AGRI ENV FISMA GROW TRADE	Contr Labs - National control laboratories	01/01/2014 31/12/2015	4-Methods and testing (100%)		803 - EURL 1829 EU-RL GMFF method validation 869 - Bioinfo CCSIS-NGS Bioinformatics CCSIS and Next Generation Sequencing for Novel analytical Methods	INS-UR	1	Scientific publication pollen det strategy	"STRATEGIES FOR MONITORING GENETICALLY MODIFIED MAIZE POLLEN FOR USE IN PREDICTIVE GENE FLOW MODELLING"- scientific paper on application of pollen traps + multi target detection tool for detection of GM events in environmental pollen samples	30/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														2	Scientific publication - golden rice	Development optimisation and validation of event-specific RTI-PCR method for the detection and quantification of golden rice	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Scientific publication new analytical approaches	Review of new approaches applicable to the detection, identification and quantification of GMOs or other known genetic structures (disease alterations, microbe identifiers, species identifiers)	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Scientific publication multitarget GMO screening	Scientific publication on the development optimisation and use of multi-target GMO screening tool	31/05/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														5	Scientific publication stacks identification	Scientific publication/report on application of novel analytical approaches for identification of GM stacked events	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														6	Feasibility Study: ready-to-use PCR plates	A feasibility study will be conducted to 1) define standard procedure for the routine implementation of ready-to-use PCR plates in official GMO testing, 2) assess current EU testing volume and future market needs for the development of a systematic production and provision of the ready-to-use PCR plates business plan.	31/12/2015	JRC Technical reports

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JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
869 - Bioinfo CCSIS-NGS Bioinformatics CCSIS and Next Generation Sequencing for Novel analytical Methods	Use of Bioinformatics and Next Generation Sequencing (NGS) techniques for the development of novel analytical methods. Application of NGS to re-sequencing of GM events and related stacks, and to the detection and eventual identification of other targets e.g. microbes, animal or plant species (in food or feed) but also of genetic markers for diseases. Including the setup and maintenance of the computing infrastructure to support the Bioinformatics needs.	JRC.I.3 Alexandre PATAK DENNSTEDT	1.5.2.a	SANTE	n/a	Dorothee ANDRE - SANCO E.1 - Dorothee.Andre@ec.europa.eu			01/01/2014 31/12/2016	2-Information systems & services (80%) 4-Methods and testing (20%)		786 - DNAA Applied DNA Analysis 803 - EURL 1829 EU-RL GMFF method validation 862 - MethDevOpt Methods Development and Optimisation	INS-RS	3	Progress reports on the re-sequencing of GM events	Results of re-sequencing of GMO Stacks and single GM events for confirming the sequences submitted by the applicants and verifying presence of potential additional modifications.	30/11/2015	Scientific and policy reports	
														4	stacked GMOs identification by NGS	Scientific publication on the use of NGS for the identification of stacked GMOs and on their differentiation from single GM events	30/04/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														6	Updated CCSIS	Updated and curated sequence databases and related bioinformatics tools (Central Core Sequence Information System - CCSIS). Yearly progress reports on the continued update and improvement of sequence databases and related bioinformatics tools, as well as reports on their use e.g. by EFSA.	31/12/2015	Scientific information systems and databases	
														7	Updated CCSIS	Updated and curated sequence databases and related bioinformatics tools (Central Core Sequence Information System - CCSIS). Yearly progress reports on the continued update and improvement of sequence databases and related bioinformatics tools, as well as reports on their use e.g. by EFSA.	31/12/2016	Scientific information systems and databases	
														8	Novel methods for species/mutation analysis	Report on the use of NGS and bio-informatics in the context of method verification for genetic testing, microbe identification, or plant/animal species identification in food or feed (Ultraconserved Elements)	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														9	Web platform for information about GMOs	Development of a web-based platform that allows data-mining and sharing of relevant information on GMOs, possibly by providing access to a range of databases	31/12/2015	Technical systems	
														10	NGS for characterisation of unknown GMOs	Use of NGS to identify and characterise known and unknown GMOs in food and feed samples. Report on the feasibility to base GMO detection and identification, possibly even quantification, on NGS	31/12/2015	Scientific and policy reports	
11	Bioinformatics and Big Data	Use and application on High Performance Computing of novel bioinformatics tools to mine biological big data, like Next Generation Sequencing Data repositories	31/12/2015	Scientific and policy reports															
964 - GMOVAL GMO VAL - Validation of Screening Methods for the Detection of GMOs	Validation of screening methods for the detection of GMOs to fill existing gaps in the availability of screening methods, thus improving the effectiveness of the "matrix approach". JRC.I.3 is responsible for method validation.	JRC.I.3 Marco MAZZARA	1.5.2.a	SANTE	n/a	Dorothee ANDRE - SANCO E.1 - Dorothee.Andre@ec.europa.eu		- NACIONALNI INSTITUT ZA BIOLOGIJO ZA	15/04/2013 14/04/2015	4-Methods and testing (100%)		758 - EURL 882-2004 VI EU-RL mandate under Reg 882/2004	COM-TW	n/a	n/a	n/a	n/a	n/a	
1774 - DECATHLON Development of Cost efficient Advanced DNA-based methods for specific Traceability issues	The DECATHLON Project ("Development of Cost efficient Advanced DNA-based methods for specific Traceability issues and High Level On-site applications") aims at and will focus on the development of new or improved methods that are needed in the field of food pathogens, traceability of GMOs and customs issues (methods development requirements also in light of current and future European regulations).	JRC.I.3 JOACHIM KREYSA	1.5.2.a	SANTE	RTD	MATHIOUDAKIS Basil (SANCO E4), GARAU Carmen (SANCO E5)			01/03/2014 30/11/2016	4-Methods and testing (100%)		862 - MethDevOpt Methods Development and Optimisation 786 - DNAA Applied DNA Analysis	COM-IA	2	Second yearly report	Second yearly report	31/12/2015	JRC Technical reports	
														3	Final report	Final report	30/11/2016	JRC Technical reports	
1900 - SMOKE FLAVOURS Method development for the quantification of smoke flavourings in food products	Smoke flavourings are food additives that require authorisation prior to their application in food. They comprise complex mixtures. So far, it is not possible to determine the amount of smoke flavouring added to food products. Consequently, DG SANCO requested (Ares(2013)158169 - 07/02/2013) the support of the JRC in developing methods for the determination of potential marker substances of smoke flavourings in food.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	n/a	Miguel Granero-Rosell SANCO.DDG2.E.6, Miguel-Angel.Granero-Rosell@ec.europa.eu		EFSA - European Food Safety Authority	01/01/2013 31/12/2015	4-Methods and testing (100%)			INS-RS	1	Method development	A report will be produced summarising the outcome of the development of a method based on HSSPME-GCMS.	31/12/2015	Scientific and policy reports	
1962 - Total Diet Studies Method development for the determination of emerging hazards in total diet study samples	Bisphenols are substances used in the fabrication of some plastics. Some of them are considered potential endocrine disruptors (e.g. bisphenol A). Exposure to bisphenols occurs primarily via food. Total diet studies are a good vehicle to picture the human exposure. The JRC supports the monitoring of bisphenol contents in food by developing analysis methods to determine a dozen different bisphenols in total diet samples by modern mass spectrometry.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	n/a	DG SANCO.E.6 - C. Bruetschy (HoU); B. Schupp			01/01/2015 31/12/2015	4-Methods and testing (100%)			INS-RS	1	Method validation	A report will be produced summarising the data of a single-laboratory validated method for the determination of bisphenols in total diet samples.	31/12/2015	Scientific and policy reports	
1963 - COLORANTS Classification of food extracts with colouring properties	The application of natural food colorants in food requires authorisation in contrast to the use of colouring food as an ingredient. The distinction between food colorants, extracted from coloured food (e.g. carrots), and colouring ingredients is not trivial. Hence, the JRC was contracted by DG SANCO to compile data characterising colouring food in order to decide whether authorisation is required.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.a	SANTE	SANTE	J. Sochor, SANCO.DDG2.E.3.0.02, Jiri.SOCHOR@ec.europa.eu			01/01/2015 31/12/2015	5-Monitoring, verification and surveillance (100%)			COM-AA	1	Composition of colouring foods	A report will be produced summarising the outcome of the study on composition of colouring foods.	30/12/2015	Validated methods, reference methods and measurements	
2171 - ED-Impact Identification of probable endocrine disruptors for impact assessment	The Commission is developing a set of policy options for the implementation of horizontal scientific criteria for the identification of Endocrine Disruptors (EDs) in EU legislation. The JRC-IHCP has been asked to assist in the first important step in a wider exercise to assess the socio-economic impact of these policy options by carrying out a study to identify substances in different sectors that may fall under each option based on their (eco)toxicological hazard properties and likely endocrine	JRC.I.5 SHARON MUNN	1.5.2.a	SANTE	n/a	Laura FABRIZI, Karin NIENSTEDT, SANCO.E3		AGRI EMPL ENV GROW RTD TRADE	15/07/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA						
2201 - Nano FA 2015-16 Development of methods for characterising nano-sized feed additives	Feed additives from the EURL-FAA's sample bank will be analysed to check whether they would fall under the current EC definition of nanoparticles. This project is pre-normative research and may assist other DG services and the European Food Safety Authority (EFSA) in adapting guidelines regarding the characteristics of nano particles.	JRC.D.5 Christoph VON HOLST	1.5.2.a	SANTE	n/a	Marta Ponghellini		EFSA - European Food Safety Authority	01/01/2015 31/12/2016	4-Methods and testing (100%)			INS-RS	1	Annual report 2015	The report will summarise the results of analysis on selected feed additives	31/12/2015	Validated methods, reference methods and measurements	
														5	Annual report 2016	The report will summarise the results of analysis on selected feed additives	31/12/2016	Validated methods, reference methods and measurements	
2220 - FCM FORESIGHT Investigative scoping study on non-harmonised food contact materials	Scoping study on the regulatory status at national level, industry self-regulating documents, and national risk assessment approaches. The objective is to collect and evaluate the supporting data towards future impact assessment for materials in contact with foods not yet harmonised at EU level.	JRC.I.1 Barbara RAFFAEL	1.5.2.a	SANTE	SANTE	E6 J. Briggs		CEPIC - European Chemical Industry Council (CEPIC) EFSA - European Food Safety Authority Food contact mat. EU MS - EU Member States Competent Authorities for food contact materials NRLs for FCM - National Reference	01/07/2014 30/11/2015	2-Information systems & services (25%) 7-Scientific, technical & policy consultancy (75%)		694 - FOODSAFETOOL Integrated tools supporting legislative developments for food ingredients and contact materials 608 - FCM-REG Cost effective pre-standardisation enforceability	COM-AA	3	IT tool for tabulation of data	Gathering of information from MS to give a descriptive overview of the impact and of the lack of harmonisation in the enforcement process.	30/05/2015	Scientific information systems and databases	
														4	Information tabulation and analysis	Tabulation of data gathered for the deliverables using the IT tool developed and revision of data (figures and figure estimates, where appropriate), analytical and descriptive inputs gathered and integrated in tables, spreadsheets and other impact calculation support tools, as appropriate	30/06/2015	Scientific and policy reports	
														5	Final report	Final report for DG SANCO on the final results, including the comments of DG SANCO. The final executive summary and Key Messages page will be part of it.	01/09/2015	Scientific and policy reports	
2260 - CEN M523 RN in feed CEN Mandate 523 radionuclides in feed	To create a standard for the measurement of Cs-134, Cs-137 and I-131 in feed. Selected for funding via the CEN Mandate 523.	JRC.D.4 Mikael HULT	1.5.2.a	SANTE	SANTE	VERSTRAETE Frans (SANCO) <Frans.Verstraete@ec.europa.eu>		CEN - European Committee for Standardization CENELEC - European Committee for Electrotechnical Standardization (CENELEC)	01/09/2014 31/08/2017	4-Methods and testing (50%) 6-Reference materials and measurements (20%) 7-Scientific, technical & policy consultancy (30%)		588 - RN-RefData Reference nuclear decay data in support to nuclear policies 587 - RN-post Fukushima Post-Fukushima measurement support 585 - RN-CBRN-Standards Development of improved standards for testing nuclear "CARBODOX"	COM-TW	1	Interim report	Interim report describing the merits of the method developed and specifying the feasibility of validation studies including technical difficulties, when applicable, and the procedure for the determination of the performance characteristics. method for I-131, Cs-134 and Cs-137 in feed in the frame of CEN/TC327 animal feedstuffs methods for sampling analysis. (Feed mandate III, M/523, Part 3 Item 10. Radionuclides within the framework of EP and council regulation 882/2004/EC).	16/12/2015	Scientific and policy reports	
														2	Report of validation study	This report will describe the results of the validation study of the method developed (described in deliverable 1) and specifying the performance characteristics of the method.	16/12/2016	Validated methods, reference methods and measurements	
2520 - Carotenoids Support standardisation of methods for determination of carotenoids in feed	Development, validation and standardisation as CEN methods for the determination of carotenoids to be used for official control as specified in Regulation 882/2004. CEN informed via NEN (Netherlands Normalisatie-instituut) IRMM that the following IRMM tender was successful in the bid The contract between IRMM and NEN are still in preparation.	JRC.D.5 Christoph VON HOLST	1.5.2.a	SANTE	n/a	Frans VERSTRAETE, SANCO.E.3			01/01/2015 31/12/2016	6-Reference materials and measurements (100%)		Support standardisation of methods for determination of carboxo and olaquinox in feed 2522 - Coccidiostats Support standardisation of methods for determination of authorised coccidiostats in feed	COM-TW	1	CEN standards of methods of analysis	The final outcome of the work will be a number of CEN standards describing method of analysis previously validated in this project.	31/12/2016	Validated methods, reference methods and measurements	
														2	Int. Rep. for CEN standards of analyse methods	Intermediate report will be provided regarding CEN standards of methods of analysis	31/12/2015	Validated methods, reference methods and measurements	

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2521 - Carboxox Support standardisation of methods for determination of carboxox and olaquindox in feed	Development, validation and standardisation as CEN methods for the determination of carboxox and olaquindox to be used for official control as specified in Regulation 882/2004. CEN informed via NEN (Nederlands Normalisatie-instituut) IRMM that the following IRMM tender was successful in the bid. The contract between IRMM and NEN are still in preparation.	JRC.D.5 Christoph VON HOLST	1.5.2.a	SANTE	n/a	Frans VERSTRAETE, SANCO.E.3			01/01/2015 31/12/2016	6-Reference materials and measurements (100%)		2520 - Carotenoids Support standardisation of methods for determination of carotenoids in feed 2522 - Coccidiostats Support standardisation of methods for determination of authorised coccidiostats in feed	COM-TW	1	CEN standards of methods of analysis	The final outcome of the work will be a number of CEN standards describing method of analysis previously validated in this project.	31/12/2016	Validated methods, reference methods and measurements
														2	Int. Rep. for CEN standards of analyse methods	Intermediate report will be provided regarding CEN standards of methods of analysis	31/12/2015	Validated methods, reference methods and measurements
2522 - Coccidiostats Support standardisation of methods for determination of authorised coccidiostats in feed	Development, validation and standardisation as CEN methods for the determination of authorised coccidiostats to be used for official control as specified in Regulation 882/2004. CEN informed via NEN (Nederlands Normalisatie-instituut) IRMM that the following IRMM tender was successful in the bid. The contract between IRMM and NEN are still in preparation.	JRC.D.5 Christoph VON HOLST	1.5.2.a	SANTE	n/a	Frans Verstraete, SANCO.E.3			01/01/2015 31/12/2016	6-Reference materials and measurements (100%)		2520 - Carotenoids Support standardisation of methods for determination of carotenoids in feed 2521 - Carboxox Support standardisation of methods for determination of carboxox and olaquindox in feed	COM-TW	1	CEN standards of methods of analysis	The final outcome of the work will be a number of CEN standards describing method of analysis previously validated in this project.	31/12/2016	Validated methods, reference methods and measurements
														2	Int. Rep. for CEN standards of analyse methods	A second intermediate report will be provided regarding CEN standards of methods of analysis	31/12/2015	Validated methods, reference methods and measurements
1.5.2.b Run the operations of six EU reference laboratories on: genetically-modified food and feed, food contact materials, feed additives, and food contaminants (polycyclic aromatic hydrocarbons, heavy metals and mycotoxins). Contribute to the development of EU standards in food safety and quality. Analyse the potential of reducing food waste and increasing food security along the supply chain.																		
455 - GMO TRG III Global Harmonisation of GMO Analysis Support to Regional Networking/GMO TRG III	The project contributes to the DG SANCO Better Training for Safer Food Programme (BTSF) programme and to the EU-RL GMFF tasks under Regulation (EC) 882/2004. It aims to increase the expertise in GMO analysis of non-EU operators, to facilitate global trade and to enhance quality of EU imports.	JRC.I.3 Maddalena QUERCI	1.5.2.b	SANTE	SANTE	Thierry CHALUS - SANCO.G.4 - Thierry.Chalus@ec.europa.eu	NEAR TRADE	Contr Labs - National control laboratories Non EU - non EU countries	17/12/2013 16/08/2015	9-Education & training (100%)		758 - EURL 882-2004 VI EU-RL mandate under Reg 882/2004	COM-AA	4	Thematic Training Workshop n.3	Training Workshop for non EU countries. Thematic Training focusing method verification, and evaluation, reporting of analytical results in GMO analysis and on implementation of quality systems/ ISO 17025 accreditation for official control laboratories.	30/06/2015	Training
														5	2nd Intl Workshop of GMO Analysis Networking	Follow up to the 1st Intl Workshop of GMO Analysis Networking held on 8-9 April 2013. Participants from the existing regional networks will be invited to share experience and good practice and to suggest/define a roadmap for the subsequent period according to the status/needs of the individual regions. A specific session will be dedicated to the development of a script for an e-learning tool.	16/08/2015	Scientific and policy reports
														6	Final Project Report	Technical and Financial Final Report to the Project providing consolidated information on the completion of activities foreseen within the Project	16/08/2015	Scientific and policy reports
604 - EUR-FAA Operation of the EU reference laboratory for feed additives authorisation	Contribution to the authorisation of feed additives by (1) writing evaluation reports of feed additives dossiers submitted by the industry and (2) maintaining and curating a sample bank of feed additives. The work aims at implementing Regulation 1831/2003. Next to the administrative part this project also includes research to identify and authenticate feed additives by spectroscopic techniques.	JRC.D.5 Christoph VON HOLST	1.5.2.b	SANTE	n/a	Marta Ponghellini, SANCO.G.1		EFSA - European Food Safety Authority	01/01/2014 31/12/2016	6-Reference materials and measurements (25%) 7-Scientific, technical & policy consultancy (75%)			INS-RS	2	EURL feed additives authorisation	The main output is the drafting of EURL evaluation reports to support the authorisation of feed additives	31/12/2015	Scientific and policy reports
														3	EURL Feed additives authorisation	The main output is the drafting of EURL evaluation reports to support the authorisation of feed additives	31/12/2016	Scientific and policy reports
803 - EURL 1829 EU-RL GMFF method validation	Validation of methods for the detection, identification and quantification of GMOs in food and feed and provision of control samples. The validation of methods is carried out in collaboration with the European Network of GMO Laboratories (ENGL). Methods are assessed and validated against acceptance and performance criteria set by the ENGL and the EU-RL GMFF. Validation of methods are part of the EU authorisation procedure for GM food and feed according to Regulation (EC) No 1829/2003.	JRC.I.3 Marco MAZZARA	1.5.2.b	SANTE	n/a	Dorothee ANDRE - SANCO.E.1 - Dorothee.Andre@ec.europa.eu	FISMA GROW TAXUD	Contr Labs - National control laboratories EFSA - European Food Safety Authority NRLs - NRLs - national reference laboratories	01/01/2014 31/12/2016	4-Methods and testing (100%)		862 - MethDevOpt Methods Development and Optimisation	INS-RS	2	Validation Reports	Reports on the validation of the methods submitted by applicants specific for respective GMOs	31/12/2015	Validated methods, reference methods and measurements
														3	Validation reports	Reports on the validation of the methods submitted by applicants specific for respective GMOs	31/12/2016	Validated methods, reference methods and measurements
														5	Control samples	Report on the distribution of GM event specific control samples to NRLs	31/12/2015	Reference materials
														6	Control samples	Report on the distribution of GM event specific control samples to NRLs	31/12/2016	Reference materials
														8	Bioinformatics Evaluation of GMO dossiers	Bioinformatics scientific report of each GMO under validation as part of the scientific evaluation as part of the approval process	31/12/2015	Scientific and policy reports
														9	Bioinformatics Evaluation of GMO dossiers	Bioinformatics scientific report of each GMO under validation as part of the scientific evaluation as part of the approval process	31/12/2016	Scientific and policy reports
868 - EURLPS&ENGL EU-RL GMFF Policy support & ENGL Presidency and Secretariat	Presidency and Scientific Secretariat of the European Network of GMO Laboratories (ENGL). The EU-RL GMFF provides scientific input and coordination of ENGL working groups and ad-hoc task forces. Within this project it also provides ad-hoc expert support to DG SANCO, EFSA and NRLs for matters related to GMO detection, e.g. in cases of illegal GMOs	JRC.I.3 Marco MAZZARA	1.5.2.b	SANTE	n/a	Dorothee ANDRE - SANCO.E.1 - Dorothee.Andre@ec.europa.eu	FISMA GROW TAXUD	ENGL - European network of GMO laboratories NRLs - NRLs - national reference laboratories	01/01/2014 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		758 - EURL 882-2004 VI EU-RL mandate under Reg 882/2004 803 - EURL 1829 EU-RL GMFF method validation 2129 - EURL 882-2004 VII EU-RL GMFF mandate under Regulation (EC) No 882/2004	INS-RS	2	Report 2/2014 - ENGL ST + Plenary Meeting	Report of ENGL Steering Committee + Plenary meeting held in 2nd half 2014. Meeting reports including the dynamic action list, e.g. the work-programme of the ENGL and of the SC-ENGL	28/02/2015	Scientific and policy reports
														4	EU-RL/ENGL guidance documents	Guidance documents prepared by EU-RL /ENGL WG on specific issues according to priorities defined by ENGL Steering Committee	31/12/2015	Scientific and policy reports
														6	Validation or ad-hoc support report	Reports of ad-hoc support provided (on a per request basis) and/or on the verification and (in-house) validation of detection methods (according to needs/requests)	31/12/2015	Scientific and policy reports
														7	Report 1/2015 - ENGL ST + Plenary Meeting	Report of ENGL Steering Committee + Plenary meeting held in 1st half 2015. Meeting reports including the dynamic action list, e.g. the work-programme of the ENGL and of the SC-ENGL	30/07/2015	Scientific and policy reports
														8	Report 2/2015 - ENGL ST + Plenary Meeting	Report of ENGL Steering Committee + Plenary meeting held in 2nd half 2015. Meeting reports including the dynamic action list, e.g. the work-programme of the ENGL and of the SC-ENGL	31/12/2015	Scientific and policy reports
														9	Report 1/2016 - ENGL ST + Plenary Meeting	Report of ENGL Steering Committee + Plenary meeting held in 1st half 2016. Meeting reports including the dynamic action list, e.g. the work-programme of the ENGL and of the SC-ENGL	30/07/2016	Scientific and policy reports
10	Report 2/2016 - ENGL ST + Plenary Meeting	Report of ENGL Steering Committee + Plenary meeting held in 2nd half 2016. Meeting reports including the dynamic action list, e.g. the work-programme of the ENGL and of the SC-ENGL	31/12/2016	Scientific and policy reports														
1728 - FOOD SAFETY Foresight study "Food safety and nutrition in 2050"	This foresight study will study the possible impacts certain disruptive scenarios might have on the legal framework for food safety and nutrition and what policy measures need to be put in place to make the system resilient. It builds on the results of a study already done by an outside contractor and will address the gaps identified in the delivered report.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.b	SANTE	SANTE	Andreas Menidiatis, DG SANCO Directorate E, andreas.menidiatis@ec.europa.eu			20/12/2013 20/08/2015	1-Foresight studies & techniques (100%)	JRC.I.2		COM-AA	3	Evaluation of EU food safety and nutrition policy	Report summarising the assessment of the vulnerability and elasticity of the EU current food safety and nutrition system. In cases where the analysis shows insufficient capacity to deal with the identified future challenges, policy options and research needs will be described in the report to improve the resilience of the framework.	20/08/2015	Scientific and policy reports
1945 - EURL-HM 2015 Operation of the European Union Reference Laboratory for Heavy Metals in feed and Food	IRMM operates the European Union Reference Laboratory for Heavy Metals in Feed and Food (EURL-HM). The EURL-HM coordinates a network of National Reference Laboratories (NRLs) with the aim of monitoring quality and comparability in the official control of HM measurements in food and feed, as stipulated by Regulation (EC) No 882/2004 on official controls performed to ensure the verification of compliance with feed and food law, animal health and animal welfare rules.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.b	SANTE	SANTE	F. Verstraete, SANCO.DDG2.E.3.0.04, frans.verstraete@ec.europa.eu	RTD	NRLs - NRLs - national reference laboratories	01/01/2015 31/12/2015	4-Methods and testing (40%) 5-Monitoring, verification and surveillance (40%) 7-Scientific, technical & policy consultancy (20%)		1946 - EURL-PAH 2015 Operation of the European Union Reference Laboratory for Polycyclic Aromatic Hydrocarbons 1947 - EURL-MYCO 2015 Operation of the European Reference Laboratory for Mycotoxins in Feed and Food	COM-AA	1	IMEP-120: HM in cocoa	Report to the national reference laboratories that took part in a proficiency test for the determination of heavy metals in cocoa in support to Regulation (EC) 1881/2006 on contaminants in food.	31/12/2015	Scientific and policy reports
														2	IMEP-121: HM in mineral feed	Report to the National Reference Laboratories that took part in a proficiency test on determination of heavy metals in feed in support to Directive 2002/32/EC on contaminants in feed.	31/12/2015	Scientific and policy reports
														3	Workshop for National Reference Laboratories	Report to the National Reference Laboratories of the annual workshop organised by the EURL	15/11/2015	JRC Technical reports
1946 - EURL-PAH 2015 Operation of the European Union Reference Laboratory for Polycyclic Aromatic Hydrocarbons	IRMM operates the European Union Reference Laboratory for Polycyclic Aromatic Hydrocarbons in Food (EURL-PAH). The EURL-PAH coordinates a network of National Reference Laboratories (NRLs) with the aim of ensuring quality and comparability in the official control of PAH measurements in food and feed, as stipulated by Regulation (EC) No 882/2004 on official controls performed to ensure the verification of compliance with feed and food law, animal health and animal welfare rules.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.b	SANTE	SANTE	F. Verstraete, SANCO.DDG2.E.3.0.04, frans.verstraete@ec.europa.eu		NRLs - NRLs - national reference laboratories	01/01/2015 31/12/2015	4-Methods and testing (40%) 5-Monitoring, verification and surveillance (40%) 7-Scientific, technical & policy consultancy (20%)		1945 - EURL-HM 2015 Operation of the European Union Reference Laboratory for Heavy Metals in feed and Food	COM-AA	1	PT for PAHs in smoked fish	Report to the national reference Laboratories which took part in the proficiency test (PT) for the determination of PAH in smoked fish	31/12/2015	Scientific and policy reports
														2	PT for PAHs in milk chocolate	Report to the national reference Laboratories which took part in the proficiency test (PT) for the determination of PAH in milk chocolate.	31/12/2015	Scientific and policy reports
														3	Workshop for the National Reference Laboratories	Report to the National Reference Laboratories of the annual workshop organised by the EURL	15/11/2015	JRC Technical reports
1947 - EURL-MYCO 2015 Operation of the European Reference Laboratory for Mycotoxins in Feed and Food	IRMM operates the European Union Reference Laboratory for Mycotoxins in Feed and Food (EURL-MYC). The EURL-MYC coordinates a network of National Reference Laboratories (NRLs) with the aim of ensuring quality and comparability in the official control of mycotoxin measurements in food and feed, as stipulated by Regulation (EC) No 882/2004 on official controls performed to ensure the verification of compliance with feed and food law, animal health and animal welfare rules.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.b	SANTE	SANTE	F. Verstraete, SANCO.DDG2.E.3.0.04, frans.verstraete@ec.europa.eu		NRLs - NRLs - national reference laboratories	01/01/2015 31/12/2015	4-Methods and testing (40%) 5-Monitoring, verification and surveillance (40%) 7-Scientific, technical & policy consultancy (20%)		1945 - EURL-HM 2015 Operation of the European Union Reference Laboratory for Heavy Metals in feed and Food 1946 - EURL-PAH 2015 Operation of the European Union Reference Laboratory for Polycyclic Aromatic Hydrocarbons	COM-AA	1	PT for ochratoxin A in soluble coffee	Report to the National Reference Laboratories that took part in the proficiency test (PT) for the determination of ochratoxin A in soluble coffee.	31/12/2015	Scientific and policy reports
														2	Workshop for National Reference Laboratories	Report to the National Reference Laboratories on the annual Workshop organised by the EURL	15/11/2015	JRC Technical reports
														3	PT for Aflatoxin B1 in a oilseed	A report will be drafted about the outcome of a PT for the determination of aflatoxin B1 in a oilseed.	31/12/2015	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2128 - GMO TRG IV Global Harmonisation of GMO Analysis Support to Regional Networking	The project foresees Regional Networking Meetings and Training Courses on GMO Analysis as means to increase the expertise of non-EU operators, to enhance regional networking and global harmonisation to facilitate global trade and to enhance quality of EU imports. It contributes to the DG SANCO Better Training for Safer Food Programme (BTSF) programme and to the EU-RL GMFF tasks under Regulation (EC) 882/2004	JRC.I.3 Maddalena QUERCI	1.5.2.b	SANTE	SANTE	Thierry CHALUS - SANCO.G.4 - Thierry.Chalus@ec.europa.eu	NEAR TRADE		01/09/2015 01/11/2016	4-Methods and testing (100%)		2129 - EURL 882-2004 VII EU-RL GMFF mandate under Regulation (EC) No 882/2004 455 - GMO TRG III Global Harmonisation of GMO Analysis Support to Regional Networking/GMO TRG III	COM-AA	1	3rd Regional Workshop for AFRICA region	Regional workshop dedicated to AFRICAN countries. Purpose is to further strengthen the existing interest and commitment of regional experts in regional networking (still at embryonic phase and needing further support for consolidation) and support networking initiative in Western Africa	30/05/2016	Training
														2	Thematic Training Workshop n.1	Training Workshop for non EU countries. Topic to be defined according to regional needs and priorities to be defined at the 2nd Workshop of GMO Analysis Networking	31/07/2016	Training
														3	Thematic Training Workshop n.2	Training Workshop for non EU countries. Topic to be defined according to regional needs and priorities to be defined at the 2nd Workshop of GMO Analysis Networking	30/08/2016	Training
														4	4th Regional Workshop for LAC region	Follow up to previous regional workshops. Participants from the existing informal regional network will be invited to share experience and good practice and to suggest/define a roadmap for the subsequent period according to the status/needs of the region	01/11/2016	Training
														5	Final Project Report	Technical and Financial Final Report to the Project providing consolidated information on the completion of activities foreseen within the Project	01/11/2016	Scientific and policy reports
2129 - EURL 882-2004 VII EU-RL GMFF mandate under Regulation (EC) No 882/2004	Conducted according to Regulation (EC) No 882/2004 on official control for food and feed. The EU-RL GMFF will assist National Reference Laboratories in the implementation of EU GM food and feed law via the organisation of comparative testing schemes (CT) and ensuring appropriate follow-up, organisation of training courses and NRLs workshops and provision of detection reference methods. Research activities are carried out to provide NRLs with information and data on new analytical methods	JRC.I.3 Marco MAZZARA	1.5.2.b	SANTE	SANTE	Dorothee ANDRE - SANCO.E.1 - Dorothee.Andre@ec.europa.eu	FISMA GROW NEAR TAXUD TRADE	Contr Labs - National control laboratories ENGL - European network of GMO laboratories NRLs - NRLs - national reference laboratories Non EU - non EU countries	01/01/2015 31/12/2015	5-Monitoring, verification and surveillance (35%) 7-Scientific, technical & policy consultancy (35%) 9-Education & training (30%)		868 - EURLPS&ENGL EU-RL GMFF Policy support & ENGL Presidency and Secretariat 455 - GMO TRG III Global Harmonisation of GMO Analysis Support to Regional Networking/GMO TRG III 2128 - GMO TRG IV Global Harmonisation of GMO Analysis Support to Regional Networking	COM-AA	1	Comparative testing report	Reports on 1 comparative testing study with participation of NRLs, ENGL and non-EU GMO laboratories	31/12/2015	Scientific and policy reports
														2	Training course	Training course for GMO-NRLs, other ENGL members and participants from third countries (if applicable) on laboratory procedures for GMO detection, identification and quantification	30/11/2015	Training
														3	Workshop for NRLs	Report from the organisation of the annual workshop dedicated to National Reference Laboratories (NRL) required by Reg (EC) 882/2004.	31/12/2015	Scientific and policy reports
														4	Reference methods	Updated, curated web-based database of reference methods for GMO analysis (GMOMETHODS database)	31/12/2015	Scientific information systems and databases
														5	Validation report	Report resulting from the validation of one GMO screening method	30/11/2015	Validated methods, reference methods and measurements
														6	Financial report	Yearly Financial report on the status of expenditure as required by Administrative Arrangement technical specification	15/03/2016	JRC Technical reports
2175 - EUR-FAC 2015 Operation of the European Union Reference Laboratory for feed additives control	Organising proficiency tests and workshops for Member States' National Reference Laboratories as laid down in Regulation 882/2004, focusing on feed additive analysis. The main objective of the project is to ensure that the official control, which is under the responsibility of the Member States is conducted in an appropriate manner.	JRC.D.5 Christoph VON HOLST	1.5.2.b	SANTE	SANTE	Ponghellini Marta; Almudena Rodriguez		01/01/2015 31/12/2015	6-Reference materials and measurements (100%)			COM-AA	1	EURL feed additives control	Organising proficiency tests and workshops for Member States' National Reference Laboratories as laid down in Regulation 882/2004, focusing on feed additive analysis. The main objective of the project is to ensure that the official control, which is under the responsibility of the Member States is conducted in an appropriate manner.	31/12/2015	Validated methods, reference methods and measurements	
2267 - EURL-FCM 2015 European Reference Laboratory for Food Contact Materials	In execution of the work programme agreed yearly with DG SANCO, the JRC-hosted European Reference Laboratory for Food Contact Materials (EURL-FCM) provides methods and representative substances for enforcement of food safety control legislation, interlaboratory comparisons and proficiency tests, and acts as coordinator for dissemination of information, technology transfer, trainings and networking.	JRC.I.1 Catherine SIMONEAU	1.5.2.b	SANTE	SANTE	DG SANCO.E.6 B. Schupp	GROW	CEFC - European Chemical Industry Council (CEFC) CEN - European Committee for Standardization CEPE - Paints, printing inks and artists' colours in Europe EFSA - European Food Safety Authority Food contact mat EU MS - EU Member States Competent Authorities for food contact materials ISO - International Organization for Standardization (ISO) NRLs for FCM - National Reference Laboratories for food contact materials	01/01/2015 31/12/2015	2-Information systems & services (15%) 4-Methods and testing (70%) 9-Education & training (15%)		694 - FOODSAFETOOL Integrated tools supporting legislative developments for food ingredients and contact materials 608 - FCM-REG Cost effective pre-standardisation enforceability for food contact safety 2271 - EURL_FCM inst European Reference Laboratory for Food Contact Materials - institutional	COM-AA	1	Repository of references substances for FCM	Expansion (continuous) of commercial and/or analytical sources of substances for FCM according to the latest amendment of Regulation 10/2011 and SANCO FCM database in accordance with the performance indicators established with DG SANCO (Cat FF, ANA)	19/11/2015	Reference materials
														2	Follow up PT for on identification of polymers	Report of actions on the follow up of underperformance of the proficiency testing for the measurement of surface area for kitchen utensils to improve the uncertainty currently associated with the identification of polymers	01/09/2015	Scientific and policy reports
														3	EURL-NRL-FCM Network	Analysis of the annual deliverables of the EURL-FCM for 2015 which will be included into the report for the National Reference Laboratories	21/11/2015	Scientific and policy reports
														4	Validation of method on Pb and Cd for ceramics	Report to the National Reference Laboratories and DG SANCO on the precision criteria for the validation at EU level of a method towards the revision of the Ceramics Directive	31/12/2015	Validated methods, reference methods and measurements
														5	Development of method for testing migration of rim	Report to the National Reference Laboratories and DG SANCO on the development of a method towards the revision of the Ceramics Directive	15/12/2015	Validated methods, reference methods and measurements
														6	Method for testing migration from glassware	Development of method for Pb from crystalware and glassware for tableware and packaging (e.g bottles and jars)	30/11/2015	Validated methods, reference methods and measurements
														7	Protocol for migration testing from bakeware	Development for testing conditions to use for cooking/baking, towards establishing enforceability of new limits (e.g. Pb, Cd) for ceramics to extend the scope to include testing conditions for migration from cookware/bakeware	11/12/2015	Validated methods, reference methods and measurements
														8	Proficiency test for metals from plastics	Inter-laboratory comparison of quantification of 7 metals regulated under the plastics regulation 10/2011 in migration solution	30/11/2015	Validated methods, reference methods and measurements
														9	Follow up proficiency test on simulant for dryfood	Inter-laboratory comparison of quantification of specific migration of target contaminants into the new food simulant E as regulated under the plastics regulation 10/2011-follow up of pilot exercise ILC of 2013 to assess reliability of results for official controls	30/10/2015	Validated methods, reference methods and measurements
														10	Guidance document on identification of polymers	Guidance on test methods for the identification of polymers. Development of a technical guide for testing approaches for the identification of polymers used for FCM including multilayers in accordance with the workprogramme established with DG SANCO and NRLs	16/12/2015	Scientific and policy reports
														11	Follow up actions of NRLs underperformance	Follow up actions of NRLs underperformance in interlaboratory comparisons (ILCs). Report of actions on the follow up of under-performance from the 2014 proficiency test proficiency test and interlaboratory comparisons in accordance with the performance indicators established with DG SANCO (Cat FF, PT) . The report will include protocols for improvement of harmonisation of analytical approaches at EU level.	16/12/2015	Scientific and policy reports
2271 - EURL_FCM inst European Reference Laboratory for Food Contact Materials - Institutional	In line with the mandate given under the Regulation (EC) No 882/2004 on food and feed controls to host the European Reference Laboratory for Food Contact Materials, the JRC maintains an Institutional competence core to ensure continuity of operation independent from the EURL work-programming cycle.	JRC.I.1 Catherine SIMONEAU	1.5.2.b	SANTE	n/a	DG SANCO.E.6 B. Schupp	GROW	CEFC - European Chemical Industry Council (CEFC) CEN - European Committee for Standardization CEPE - Paints, printing inks and artists' colours in Europe EFSA - European Food Safety Authority	01/01/2015 31/12/2015	2-Information systems & services (15%) 4-Methods and testing (70%) 9-Education & training (15%)		694 - FOODSAFETOOL Integrated tools supporting legislative developments for food ingredients and contact materials 608 - FCM-REG Cost effective pre-standardisation enforceability for food contact safety	INS-UR	1	Annual Report 2014	Annual report for DG SANCO and National Reference laboratories of the deliverables of the EURL-FCM for 2014	31/03/2015	Scientific and policy reports
														2	Draft WP 2016 of the EURL-FCM	Timely submission of work programme 2016 in consensus with customers	01/09/2015	JRC Technical reports
														3	Coordination EURL-NRL-FCM Network	Coordination EURL-NRL-FCM Network, organisation of workshops/trainings and other events (in accordance with the performance indicators established with DG SANCO (Cat FF, NRLs))	17/12/2015	Training
														4	Web portal for methods and sources of calibrants	Contains analytical methods from petitions for substances regulated under Reg. 1934/2004 which make the information available for the public domain and for which JRC can obtain from the relevant public dossiers (e.g. as per Note for guidance from EFSA).	18/12/2015	Scientific information systems and databases
1.5.2.c Develop exposure assessment methods and tools to underpin the safety assessment of existing and future products.																		
822 - ExpoMeth Human Exposures Methodological Portal in support of Public Health	The project focuses on consolidating methodologies for assessing exposure. It builds upon existing knowledge, i.e. present exposure related databases (ExpoFacts, AIRMEX, FACET), human biomonitoring data (including omics-based biomarkers), exposure scenarios, models and determinants. It includes collection of exposure data relevant to various legislative mandates, which potentially imply inter alia exposure and risk assessment of chemicals.	JRC.I.1 IBAA ALEXANDRE ZENIE'	1.5.2.c	SANTE	n/a	C4 H. Horika	ENV GROW RTD	CEFC - European Chemical Industry Council (CEFC) ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority OECD - Organisation for Economic Co-operation and Development (OECD) OSHA - European Agency for Safety and Health at Work	01/01/2014 31/12/2016	1-Foresight studies & techniques (30%) 2-Information systems & services (70%)		JRC.I.3	INS-RS	5	Conceptualisation phase report	Development of the ExpoMeth framework/decision guidance platform (and related mock-up) for matching exposure assessment tools (used for risk assessment) and approaches to scenarios, data and applications across international collaborative studies	30/03/2015	JRC Technical reports
														6	ExpoMeth modelling application to NM	ExpoMeth modelling application to innovative nanomaterials. Exposure modelling and assessment estimations performed within DEROCA WP5 'material properties assessment'.	30/06/2015	Technical systems
														7	ExpoMeth Toolbox's demonstrator and pre-population	Web based demonstrator of the ExpoMeth's toolbox platform pre-populated with data linked to relevant case studies identified at EU and global levels	04/12/2015	Technical systems
														8	Release of the prototype	On the basis of the demonstrator and the pre-population phase, the first release of the prototype will then be issued for testing purposes by end-users. Specific testing includes the validation of the integrated biomonitoring data and the incorporated -omics results. The uncertainty characterisation of the exposure assessment results will be an integral part of the final delivery of the project.	19/10/2016	Technical systems
														9	Release of the ExpoMeth prototype	The ExpoMeth prototype will be released and its functionalities will be demonstrated to relevant policy makers including exposure assessors, risk managers and scientific community	31/10/2016	Scientific information systems and databases
														10	ExpoMeth exposure assessment guidance platform	A framework/decision guidance platform on matching exposure and risk assessment tools to exposure scenarios, models, determinants (including human biomonitoring data and omics based biomarkers) and applications across internationally identified collaborative case studies. Synergies are envisaged to develop with other international relevant tools (e.g., U.S. EPA's Expo-Box) and international bodies (e.g., ACC and CEFC)	09/12/2016	Scientific information systems and databases
														11	Workshop	Expert workshop on integration of HBM and human exposure assessment - MS representatives also present in the HBM initiative will be gathered to discuss and refine a proposal for a (virtual) research infrastructure fitting the requirements discussed at the RTD HBM meetings. A satellite event could be organised depending on the outcome of the meeting 02/12 and after evaluation of the interest commitment expressed by MS and also in the light of the timing for the call for proposals	30/04/2015	JRC Technical reports
														12	Report	Report on contribution to DG RTD's HBM initiative and to IpChem - The report will summarise the overall activities of the JRC.I.1 Unit to IpChem and the HBM initiative of RTD	30/09/2015	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1.5.2.d Assess the socio-economic impact of biotechnologies. Develop indicators and methodologies to capture impacts ex post and ex ante, and best practices for managing socio-economic risks (co-existence measures).																		
589 - AGRITECH New technologies in agriculture	AGRITECH runs the European Socio-Economic Bureau (ESEB) created to develop consensus socio-economic indicators and methodologies to help EU member states analyse the impacts of GMO cultivation. It also performs research on socio-economic impacts of agricultural technologies ex post and ex ante (GMOs, pesticides). Finally, it performs anticipation and technological foresight, contributing to policy conception in new technologies in agriculture likely to be regulated at EU level.	JRC.J.4 Emilio RODRIGUEZ CEREZO	1.5.2.d	SANTE	n/a	Thomas Bregeon DG Sanco E.1, Mariana Paolino DG SANCO E.6	RTD	Tech Serv - Member States and their Technical Services/type approval authorities	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		111 - PRICE Practical implementation of coexistence in Europe 273 - BISO Bioeconomy Observatory 590 - ECoB-3 European Coexistence Bureau	INS-RS	7	EU Markets for non-GM soybean	Europe is the largest importer of the world of soybean and derived products (over 30 million tons annually), of which its large majority is GM-derived. Data on the increasing markets for non-GM soy in Europe are scarce. Based on empirical data collection on the demand for non-GM, identity preserved, soybean in Europe, highlighting differences between EU MS markets. It will also present data on price premiums paid by EU importers for non-GM soy and foresight supply issues.	01/01/2015	Scientific and policy reports
														8	Global pipeline of new GM crops 2020	Five years ago, the publication by the JRC of a report on "The Global Pipeline of new GM crops: Implications of asynchronous approval for international trade" was a landmark recognized by policy makers and stakeholders in EU and world-wide. The report forecasted the 2015 situation, and is being used as a reference in policy and academic environments. The JRC is committed to prepared an updated version of this report with an horizon in the situation in 2020.	30/06/2015	Scientific and policy reports
														9	ESEB Reference Documents 2: Bt maize	ESEB Reference Documents 2 will be the first product-specific document, dedicated to GM pest-resistant maize (Bt maize). Introduced for cultivation in the in 1996, it remains the only GM crop to be cultivated in the EU. Therefore, the document will deal with ex post analysis of Bt maize impacts (applicable in the countries where cultivation takes place) and ex ante analysis in the remaining cases.	31/08/2015	Scientific and policy reports
														10	Generic GM crops: a post-patent industry	GM crops began widely cultivated in 1996 and since then have been covered by key patents. Some of these key patents on the most common GM crops (soybean) are expiring in 2014 and beyond. For the first time, the possibility of releasing "generic" biotech crops is open to seed companies. This report will analyse the possible consequences of these changes for the EU in terms of possible economic impacts and regulatory challenges posed by "generic GM crops"	30/09/2015	Scientific and policy reports
														11	impact of neonicotinoid restrictions	Original Data on the agronomic and pest management practices and associated economic impact employed by farmers growing maize, rapeseed or sunflower in seven different countries of the EU where the Regulations (EU) No 485/2013 and No 781/2013 can be expected to have an effect.	31/12/2015	JRC Technical reports
														12	ESEB Reference Document 3: HT maize	ESEB Reference Documents 3 will be dedicated to GM herbicide-tolerant maize (HT maize). This GM crop has been evaluated by the EFSA but is not yet authorised for cultivation in the EU. The document will therefore focus on how to perform ex ante socio economic assessment of the cultivation in Europe. Ex post analyses performed in other areas of the world will also be reviewed.	30/09/2016	Scientific and policy reports
590 - ECoB-3 European Coexistence Bureau	The European Coexistence Bureau (ECoB) was created in 2008 to implement the Council conclusions requesting the Commission to identify best practices for technical segregation of GM and non-GM crops. ECoB develops EU-wide, crop-specific guidelines for coexistence of GM and non-GM crops at farm level. The guidelines leave member states the necessary flexibility to adapt the recommendations to their specific agricultural conditions (http://ecob.jrc.ec.europa.eu).	JRC.J.4 Emilio RODRIGUEZ CEREZO	1.5.2.d	SANTE	SANTE	Thomas Bregeon thomas.bregeon@ec.europa.eu	AGRI	Tech Serv - Member States and their Technical Services/type approval authorities	08/07/2014 30/06/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	JRC.I.3	111 - PRICE Practical implementation of coexistence in Europe 589 - AGRITECH New technologies in agriculture	COM-AA	2	Best Practice Document:Coexistence in Cotton	Best Practice Document for Cotton producers in the EU containing guidelines for coexistence of GM and non-GM cotton. The document will cover crop production (not seed production) and will establish consensus practices from sowing to harvest developed by ECoB in collaboration with experts from member. The best practices should leave the necessary flexibility for the member states to adapt them to their specific climatic and agricultural conditions.	30/06/2015	JRC Technical reports
2126 - RENEWAL ECoB-4 RENEWAL European Coexistence Bureau	The European Coexistence Bureau (ECoB) was created in 2008 to implement the Council conclusions requesting the Commission to identify best practices for technical segregation of GM and non-GM crops. ECoB develops EU-wide, crop-specific guidelines for coexistence of GM and non-GM crops at farm level. The guidelines leave member states the necessary flexibility to adapt the recommendations to their specific agricultural conditions (http://ecob.jrc.ec.europa.eu).	JRC.J.4 Emilio RODRIGUEZ CEREZO	1.5.2.d	SANTE	SANTE	Thomas Bregeon DG SANCO E1			01/07/2015 31/03/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	1	coexistence in Potato/Sugar beet	Best Practice Document for coexistence in Potato/Sugar beet crop production delivered to SANCO-TWG	30/06/2016	JRC Technical reports
1.5.2.e Support DGs working on the fight against food fraud by providing them with appropriate testing methods and compiling compositional data on authentic agri-food products.																		
2024 - Fighting Fraud Support to DG SANCO's coordinated control plans to fight food fraud	Food fraud is committed when food is deliberately placed on the market, for financial gain, with the intention of deceiving the consumer. Coordinated control plans will be initiated by DG SANCO to fight food fraud in the Member States and the JRC will support DG SANCO by providing technical and scientific assistance to the design, organisation and evaluation of those control activities.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.e	SANTE	SANTE	Eric Marin, SANCO.DDG2.E.5, Eric.Marin@ec.europa.eu	AGRI MARE		01/01/2015 31/12/2017	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		760 - Tariff classification Development of analytical methods for tariff classification of food and consumer products 731 - DENATURED ALCOHOL Harmonisation of practices to denatured alcohol for exemption from excise duties	COM-AA	1	Literature research	A report will be written on the state-of-the-art of analytical methods to identify fraud in seafood and honey	31/12/2015	Scientific and policy reports
														2	Fighting fish species substitution	A method will be validated "in-house" to allow the distinction among several fish species, on the basis of DNA analysis.	31/12/2016	Validated methods, reference methods and measurements
2660 - Honey Authenticity Support to establish the prevalence of fraudulent practices in the marketing of honey	SANCO is intending to setup a control plan for the detection of fraudulent practices in the marketing of honey. Main element of the testing strategy is the analysis of sugars in honey (isotopic composition determination of carbon constituents). The required sophisticated instrumentation is only available in one private German lab and at JRC-IRMM. SANCO prefers not to rely entirely on a private laboratory and would like the JRC carrying out the analysis or to check the potential for future use.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	1.5.2.e	SANTE	SANTE	Eric Marin, SANCO.DDG2.E.5	AGRI		01/01/2015 31/10/2015	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		760 - Tariff classification Development of analytical methods for tariff classification of food and consumer products 731 - DENATURED ALCOHOL Harmonisation of practices to denatured alcohol for exemption from excise duties 730 - Foodintegrity Participation in FP7 project	COM-AA	1	Final report	A report will be written on the outcome of the project	31/10/2015	Scientific and policy reports
2751 - Spi-UCES Enhancing fish species identification using novel markers and emerging DNA-based methods.	The European Union needs powerful and reliable species identification tools to ensure EU-citizens' trust in the safety and correct labelling of the food supply chain. Existing approaches have been shown to have drawbacks. This project involves the integration of DNA sequencing and fish supply chain monitoring expertise to develop cost efficient fish species identification and quantification methods based on the analysis of genomic UltraConserved Elements by emerging DNA-based methods.	JRC.I.3 ALEXANDRE ANGERS	1.5.2.e	SANTE	JRC	JRC	FISMA GROW MARE OLAF	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EFCA - European Fisheries Control Agency	01/01/2015 31/12/2016	4-Methods and testing (100%)	JRC.D.5 JRC.G.3	869 - Bioinfo CCIS-NGS Bioinformatics CCIS and Next Generation Sequencing for Novel analytical Methods	INS-ER	1	DNA extraction and enrichment protocols	Evaluation and optimisation of the protocols for DNA extraction and enrichment for NGS and LAMP	31/12/2015	JRC Technical reports
														2	Evaluation of UCEs in the context of species ident	Scientific article that evaluates of the efficacy of the strategy to sequence UCEs in terms of analysis of species and subpopulations within the sample, including comparisons with existing methods.	30/06/2016	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Implementation of LAMP for cheap, simple, robust a	Identification, using the commonest DNA markers currently used for fish identification (i.e. cytochrome b, cytochrome c oxidase subunit 1 and 16S rRNA).	30/06/2016	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Enhancing fish species identification using novel	An analysis of the results obtained in the Spi-UCE project, integrated with a review the literature, to Description evaluate the best approaches to link the results obtained in this project to applied genetic monitoring of fish species and populations, including an overview of the future steps for implementation.	31/12/2016	Scientific and policy reports
														5	Publication of data and associated protocols	A web portal, linked to a database, released for the dissemination of the results of Spi-UCE (i.e evaluated UCEs, LAMP primers and associated protocols).	31/12/2016	Scientific information systems and databases

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1.6 Regional Policy																		
1.6.a Modelling and impact assessment using regional economic modelling (RHOMOLO), land use modelling (LUIA) and transport modelling (TRANSTOOLS):																		
799 - Stairway2Excellence Cohesion Policy & synergies with R&D funds: the "Stairway to Excellence"	The scope of this pilot project is to provide assistance for new Member States to start up the process of closing the innovation gap, in order to promote excellence in all regions and Member States of the European Union. Secondly, it is of utmost importance to stimulate the early implementation of the Smart Specialisation Strategies, as one of the innovations in the 2014-2020 period.	JRC.J.2 Andrea CONTE	1.6.a	REGIO	REGIO	Katja Reppel REGIO. G.1	RTD	EP - European Parliament	01/06/2014 31/08/2015	2-Information systems & services (20%) 7-Scientific, technical & policy consultancy (80%)		663 - S3P S3P Smart specialisation platform 673 - S3P - DANUBE S3P Smart specialisation for the Danube region 899 - SRA Soil Resource Assessments	COM-AA	1	Final Report	Report on 1. Upstream Preparatory Actions 1.1 Capacity Mapping 1.2 Capacity Building 2. Downstream Actions Exploitation and diffusion of results from earlier Framework Programmes and Horizon 2020 to MS/regions that joined 2004, 2007, 2013	31/10/2015	JRC contributions to policy documents
914 - RHOMOLO V Cohesion policy simulation model (CLOSE to SIGNATURE)	The construction, maintenance and use of a computable general equilibrium model at NUTS2 level for assessing the impact of EU policies. The model is based on a full set of regional social-accounting matrices, which are consistent with national accounts and international trade data. It is used for simulations of the shifts in regional patterns of production and consumption that result from investments under Cohesion policy, linked and aligned with dynamic macroeconomic models such as QUEST.	JRC.J.2 D'ARTIS KANCS	1.6.a	REGIO	REGIO	Philippe Monfort			01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		663 - S3P S3P Smart specialisation platform	COM-AA	1	Annual Report on Model Development	The report will include - full sensitivity analysis of (identical) parameter shifts representing main components of cohesion policy in each of the NUTS2 region; core version of the model - description of the new version of the model with endogenous R&D and regional participation rates; documentation of labour market and R&D-innovation modules - report on model development and use in 2014, including documentation, working papers and presentations	31/01/2015	JRC Technical reports
														2	Annual Report, incl documentation & working papers	The report will include - sensitivity analysis of the 2014 version of the model - updated model database, allowing for greater detail on sectors (up to 59 or more, depending on NACE2 revision) to be implemented in the core version of the model - ex-post evaluation of the 2007-2013 period, based on expenditure and payment data from the Member States	31/01/2016	JRC Technical reports
														3	Final Report	The report will include - Aversion of the model allowing for linkages to transport & land use models in both directions; exploration of possible linkages with housing model - contribution to mid-term review reflecting on past and future redirections of cohesion policy - final version of the model, including additional modules; model database and updating routines to Eurostat data, national accounts and international trade data (explore use of adjusted and updated world input-output tables)	31/01/2017	JRC Technical reports
1007 - LUIA Application of the LUIA Modelling Platform to Regional Policies and Territorial Cohesion	LUIA contributes to: - Impact Assessments - Assessment of regional investments covered by the Common Strategic Framework and development of the European Regional Resilience Index - Maximisation of synergies between regional and energy policies, considering local natural resources and industrial development - Assessment of circular economy and socio-ecological resilience - Mid-term review of the Multiannual Financial Framework - Evaluation of migrations and movement of workers in Europe	JRC.H.8 Carlo LAVALLE	1.6.a	REGIO	n/a	Lewis Dijkstra, Deputy Head of Unit, DG REGIO; Carina Voppel, Head of Unit F1, DG ENV	AGRI CLIMA ENER ENV ESTAT GROW RTD SANTE SG	EEA - European Environment Agency	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	JRC.H.1 JRC.H.2 JRC.H.3 JRC.H.4 JRC.H.5 JRC.H.6 JRC.H.7	990 - MARS-Danube Nexus MARS contribution to the Danube Water-Agriculture Nexus 1075 - Danube Water Nexus Danube Water-Agriculture-Ecosystems Nexus 1020 - DAN Danube Air Nexus 996 - C-RES-EU Fostering Climate Resilience in Europe 899 - SRA Soil Resource Assessments 2002 - SUL Sustainable and resilient Urban Living 2303 - MIDAS Model Inventory and Access Service	INS-RS	201506	Definition of Baseline Scenario for EC policies	Up to date definition of the shared EC baseline Scenario – following the revised guidelines for IA and the EU Political Guidelines. Includes all relevant policies/packages (legislative and financial) of the EU.	23/12/2015	Scientific and policy reports
														201507	Enhancement of the LUIA Platform	Enhanced LUIA as instrument for evaluation of growth and territorial cohesion: Improvement of the modelling interface in LUIA; updates of linkages with macro-economic and sector-specific models. Implementation of the Baseline Scenario based upon feasibility and availability of runs from exogenous macro-economic models. Development and projection of thematic indicators, including provision of housing and infrastructures. The metadata will be made available through the Common OpenData Catalogue.	23/12/2015	Scientific information systems and databases
														201508	Integration with water modelling	Integration with the Water Modelling Platform and establishing feedback loops with the land use modelling; linking with water quantity & quality models & optimisation environment; define water demand from land use; evaluate water demand and availability per sector; feedback loops of flood risk and sectorial water scarcity areas to land use model; build in options for water allocation and water efficiency. Lead Unit: H.01	23/12/2015	Scientific information systems and databases
														201509	Integration with air quality modelling	Integration of air and land dynamics based upon the spatialisation of emission, concentration and removal of pollutants [link with SUL project].	15/12/2015	Scientific information systems and databases
														201510	Linkages/interface with Forest modelling	Development of interfaces and feed-back with dynamic forest models CBM and EDFM.	20/12/2015	Scientific information systems and databases
														201511	Integration of climate change modelling	Prepare for connecting climate change scenario's to LUIA modules and preparing relevant data layers for describing, climate change impacts, vulnerability and adaptation (based also on data layers collected in other deliverables)	23/12/2015	Scientific information systems and databases
														201512	Integration of soil modelling	The modelling starts with a set of quantitative targets related to status and conditions of the soil, such as carbon stocks, C- sequestration rates or other targets, and then evaluates the suitability of different land use changes and management practices (for example in the context of the Common Agricultural Policy or Resource Efficiency or other policies) as a means of reaching these targets.	23/12/2015	Scientific information systems and databases
														201513	Scenarios & policy options for land use policies	Address the consequences of pressures on land quality and availability covering EU and global scales. This work will provide the necessary definitions for the modelling and scenario development for the Land Communication and its Impact Assessment, in close cooperation with Project 899 - SRA Soil Resource Assessments, the EEA and ESTAT (LUCAS). Lead Units H.05 & H.08	23/12/2015	Scientific and policy reports
														201514	Resilience analysis and "nature-based solutions"	Assessment and economic evaluation of "nature-based solutions" in a context of economic and social benefits and jobs creation. The assessment is based upon the monetary valuation of nature-based solutions linking growth and the positive contributions from ecosystems to new pressures. The deliverable prepares the inclusion of scenarios for sustainable use of ecosystems and natural resources in the updated baseline scenario 2016.	18/12/2015	Scientific and policy reports
														201515	Support instruments 2030 energy & climate package	Preparation of the (proposed) IA on assessing mitigation potential and policies approaches for the inclusion of the land sectors in the 2030 Energy-Climate Framework – being further defined/discussed with CLIMA (and AGRI) Lead Unit: H.03	31/12/2015	JRC contributions to policy documents
														201516	Crop yields and CAP impact indicators for scenario	Estimates of crop yield in Europe, spatially resolved at NUTS2, derived from climate change scenario model runs as input of a climate change signal to the current scenarios of LUIA. Definition and provision of CAP impact indicators, e.g. of greening measures, to LUIA. Lead Unit: H.04	31/08/2015	Scientific information systems and databases
														201517	Impact of water availability on crop yield	Impact of varying water availability on crop yields in Europe. Scenarios of water availability from water competition in Europe as derived in H01 will be incorporated in BioMA-based crop modelling to estimate the impact on agricultural yield and production in Europe. [link to Danube] Lead Unit: H.04	31/12/2015	Scientific information systems and databases
														201518	Progress report on coupling of agriculture	Progress report on multiple coupling of agricultural modelling infrastructures within the integrated platform. Crop suitability maps of AGRI4CAST will be incorporated in LUIA. Land use change scenarios generated by LUIA will be fed back to the BioMA-based crop model that quantifies changing crop yields. These yields will feed into CAPRI to produce subsequent changes in prices of agricultural commodities and farm income that, in turn, are passed back as input to LUIA.	31/12/2015	Scientific information systems and databases
														201519	Improved emission accounting from agriculture	Improved emission accounting from agriculture. A methodology to account for spatial and temporal variability in GHG emissions from agriculture will be developed. This methodology will be based on process-understanding and simulations with biophysical models. The results will feed into CAPRI-Spatial to allow detailed assessment of GHG emissions at high spatial resolution.	31/12/2015	Scientific and policy reports
201520	Evaluation of Regional investments programmes	Evaluation of Regional investments programmes including examples of Member States' initiatives (when available). Contribution to the analysis of Regional growth profiles with the definition of the European Regional Resilience Index (includes scenarios of migrations and workers' mobility)	31/12/2015	JRC contributions to policy documents														
201621	Maximising synergies regional and energy policies	Maximisation of synergies between regional and energy policies, considering local natural resources and industrial development. Evaluation of profiles of energy-resilient regions.	31/07/2016	JRC contributions to policy documents														
201622	Contribute to 2016 review of the MFF	Beta release of LUIA – the modelling tool for the integrated sustainability platform and updated baseline scenarios including several policy sectors and thematic fields.	31/12/2016	Scientific information systems and databases														
2032 - Thrace&EastMacedonia Eastern Macedonia & Thrace RIS3 (EMT-RIS3)	1.Assess RIS3 strategy / identify barriers 2.Optimise entrepreneurial discovery process (e.g. governance structure, financing priorities) 3.Support industry/manufacturing in seeking technological solutions with bodies in the region 4.measures exploiting technologies in the Region to serve regional business needs; training programme (e.g. entrepreneurship, collaboration, creativity); maximise export of local businesses & help attracting FDI 5.best RIS3 practices Regional Authorities & EU region	JRC.J.2 John Mark BODEN	1.6.a	REGIO	REGIO	Gergana Miladinova		EP - European Parliament	01/09/2014 30/11/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		COM-AA	1	Final Report	Report on setting up fora for interaction between research and industry to set up mobility programmes, including • Recommendations for completing research and innovation capacities • Facilitating efficiency in the exploitation of equipment and expertise. • Enhancing internationalisation and networking of R&D actors • Support for MA in establishing the needed policy infrastructure • Make progress towards the formalisation of an agreement. Investment guide to attract FDI	30/11/2015	JRC Technical reports	

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2744 - EREBILAND European Regional Energy Balance and Innovation Landscape	The project aims at supporting innovative efficient patterns of regional energy supply and demand in Europe. A suite of modelling tools will be deployed for assessing the efficiency of measures on energy production and sectoral final consumption, and related regional development strategies. The approach is based on the granular territorial disaggregation of information, and the development of optimisation scenarios at regional scale based on the concept of dynamic land functions.	JRC.H.8 Carlo LAVALLE	1.6.a	REGIO	n/a	Lewis Dijkstra (REGIO B.1) and STRACHINESCU OLTEANU Magdalena Andreea (ENER)	CLIMA ENER ENV MOVE	ICPDR - International Commission for the Protection for the Danube River EEA - European Environment Agency	01/01/2015 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	JRC.F.6 JRC.J.2	788 - EEInSC Energy Efficiency in Smart Cities 975 - URBREG_IA Integrated assessment of regional and urban development policies 765 - SETIS SET-Plan Information System 749 - PVRES PV Resources, Innovation and Market Integration 745 - WET Wind Energy Technology 735 - ESM Energy Systems Modelling	INS-ER	1	Regional European Energy Landscape	Technical description of methods, tools and data sets employed in the production of the Regional Energy Balance. Specific focus is on spatial down-scaling methodology.	22/12/2015	JRC Technical reports
														2	Regional European Energy Landscape map	Digital Map of the Regional Energy Landscape at NUTS-2 (regional) aggregation level.	22/12/2015	Scientific information systems and databases
														3	Definition of Scenarios of Energy Optimisation	Description of processing methods, model linkages and assumptions adopted to produce scenarios of optimisation of supply/demand of energy	31/12/2016	JRC Technical reports
														4	Case Studies of Optimisation	Definition of Scenarios of Energy Optimisation – Case studies	31/12/2016	Scientific information systems and databases
														5	Impact of modelling energy systems at the regional	Application of method and tools (integrated models) for case studies (specific technologies, countries, or a combination of the two) to demonstrate the applicability of the approach	31/07/2017	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1.6.b Analysis, at urban, regional and macro-regional levels, of environmental sustainability and improvement of public health and well-being, including eco-system services; air and water quality; natural hazards and resource efficiency, including transport analysis within cities, between cities and between regions;																		
228 - REGIO-ESS Exploitation and integration of ecosystems services in regional development policies	The overall goal of the study is twofold: To assess the endowment of EU NUTS 2 regions in ecosystems providing some of the benefits which are the most relevant for cohesion policy; To estimate the use/exploitation and vulnerabilities of the actual goods and services in a wider frame of regional development. This study is based on the interconnection of models (specifically:LUMP,RHOMOLO,TRANSTOOL).	JRC.H.8 Carlo LAVALLE	1.6.b	REGIO	REGIO	Lewis DIJKSTRA	CLIMA ENV MOVE	ICPDR - International Commission for the Protection for the Danube River EEA - European Environment Agency	13/12/2012 12/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	2	Integration of ESS and Regional Policy	Report on integration of ESS and Regional Policy as scenario parameters to drive LUMP.	12/12/2015	Scientific and policy reports
742 - PAH2DAN Poly-Aromatic-Hydrocarbons Health impacts assessment for Danube Air Nexus	Establishing causal links between specific environmental exposures and complex multi-factorial health outcomes is challenging especially in children. Exposure can occur in utero through trans-placental transfer of environmental agents from the mother to the foetus or in nursing infants via mother's milk. The impact of atmospheric carcinogenic/genotoxic PAHs on child development and the role of global gene expression changes in this process will be assessed focusing on pathways affecting immunity	JRC.I.1 Laura GRIBALDO	1.6.b	REGIO	n/a	DG REGIO.DGA2.D.1 - Colin WOLFE	CLIMA ENV RTD SANTE	ICPDR - International Commission for the Protection for the Danube River EEA - European Environment Agency	01/02/2014 31/12/2016	5-Monitoring, verification and surveillance (50%) 7-Scientific, technical & policy consultancy (50%)	JRC.H.2	441 - RegInnoPar Regional Innovation Partnerships 673 - SSP - DANUBE S3P Smart specialisation for the Danube region 677 - S3P -DANUBE- INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies 706 - RE-GIS Exploiting Renewable Energy	INS-UR	3	Execution of whole gene expression analysis	Execution of whole gene expression analysis on samples delivered from the partners of the DANUBE project	12/03/2016	JRC Technical reports
														4	Report on the data analysis	The report will focus on the data analysis, data interpretation of the analysed samples in view of a pathway identification	20/06/2016	JRC Scientific support
														6	Final report	Preparation of a report and a publication in a peer reviewed journal.	03/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	Workshop on future perspectives	Co-organization of a workshop on the future perspectives with the countries involved in the project	03/12/2016	Scientific and policy reports
894 - DRDSI Danube Reference Data and Service Infrastructure	The DRDSI project will facilitate the exchange of well-documented and harmonised data for the EU Strategy for the Danube Region (EUSDR) by providing access to remotely-held data from multiple domains and across borders to support the EUSDR's integrated policy-making needs. It will also build capacity in data harmonisation and data sharing by engaging communities in collaborative and interdisciplinary networks, pilots and online tools.	JRC.H.6 Jean DUSART	1.6.b	REGIO	n/a	REGIO.DGA2.D.1 Competence Centre Macro-regions and European Territorial Co-operation - Transnational and Interregional Co-operation. HoU: C. Wolfe	AGRI ECHO ENER ENV ESTAT MOVE NEAR	ICPDR - International Commission for the Protection for the Danube River E&I countries - Enlargement & Integration - countries MS EU - Member states EU	01/01/2014 31/12/2016	2-Information systems & services (70%) 7-Scientific, technical & policy consultancy (20%) 9-Education & training (10%)			INS-RS	201501	Danube Region data projects	Stakeholders have asked for the platform to contain details of projects in the Danube Region, helping to identify stakeholders, reusable tools and good practices for potential storage in the DRDSI. A report will highlight key trends, identify gaps in datasets and show activities that are likely to influence future work.	31/07/2015	Scientific and policy reports
														201502	Updated Operations and development of DRDSI	Following the DRDSI Governance Framework (DRDSI 2014 Deliverable), the platform will be extended to provide access to more geospatial data (from national, regional and Pan-European sources), alongside details of projects from the Danube Region. Stakeholders will help to design platform functions to explore and visualise new content, including engaging infographics and collaborative tools.	21/12/2015	Scientific information systems and databases
														201503	Cross-border data-sharing pilots	Representatives from the Danube Region will propose cross-border pilots following INSPIRE's requirements and, ideally, producing harmonised macro-regional scale data to address key policy concerns. This hands-on experience will support capacity building in data handling. Shared data will provide content for the DRDSI, alongside a report showcasing the pilots and documenting the underlying approaches and their added value.	21/12/2015	Scientific and policy reports
														201601	Data Access Assessment	In order to have robust data flows to support macro-regional policy and the reuse of data for research and economic purposes, evidence is needed about common issues the Danube Region faces in accessing data. Through collaboration with stakeholders in their data hunting and harmonisation tasks, the report will raise awareness about data access issues, share evidence about common challenges and solutions, as well as provide recommendations for how policy and technical issues could be addressed.	30/06/2016	Scientific and policy reports
														201602	Danube Data-sharing cookbook	The Report will provide information on how to establish a macroregional data infrastructure based on the experiences of the JRC (also including the JRC nex) and DRDSI stakeholders from the Danube region. This includes the identification of appropriate technologies as key components	31/12/2016	Scientific and policy reports
														201603	Best practices in data sharing for macro regions	As the DRDSI evolves, expertise is being developed in macro-regional data sharing and the enhanced use of ICT. The report will identify knowledge, common tools and best practices in data sharing across macro-regions (e.g. Adriatic & Ionian, Baltic and Alpine) that can be widely adopted and/or promoted for the implementation of macro-regional strategies.	31/12/2016	Scientific and policy reports
1020 - DAN Danube Air Nexus	The project addresses issues of air quality in relation to the four vertical priorities of the Scientific Support to the Danube Strategy (environment protection, navigability, irrigation and agricultural development and energy production). There are three work packages: identifying air pollution sources; scenarios of future emissions and air quality; and future climate impacts. The project aims at supporting an environmentally sound and climate resilient economical development of the region.	JRC.H.2 Julian WILSON	1.6.b	REGIO	n/a	REGIO.DGA2.D.1 Competence Centre Macro-regions and European Territorial Co-operation - Transnational and Interregional Co-operation. HoU: C. Wolfe	CLIMA ENV	ICPDR - International Commission for the Protection for the Danube River EEA - European Environment Agency	01/01/2014 31/12/2016	4-Methods and testing (35%) 5-Monitoring, verification and surveillance (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (35%)			INS-RS	2	WP 1: Intercomparison	Scientific and policy report on intercomparison for receptor models and identification of sources.	31/12/2015	Scientific and policy reports
														4	WP 2: IA with scenarios developed developed in DAN	Impact assessment of short-lived pollutants on climate, air quality, human health, ecosystems using updated FASST and scenarios developed within DAN (e.g. modal shift in transport)	31/12/2016	Scientific and policy reports
														5	WP 2: Methodology development	Methodology development and data of the ex-post assessment of the emissions for modal shift in transport: ship versus truck	31/12/2015	Scientific and policy reports
														6	WP2, Report	Scientific report "Underpinning the mobility of freight transport ship versus truck in support to the transport policy on multimodality in the Danube Region"	31/12/2016	Scientific and policy reports
														7	WP3 Analysis of ENSEMBLES A1B	Initial Analysis of ENSEMBLES A1B climate projections for the Danube region (H.07) Report on future climate variability and change, including extreme weather events (heat waves, heavy precipitation, dry spells etc).	31/12/2015	Scientific and policy reports
1075 - Danube Water Nexus Danube Water-Agriculture-Energy-Ecosystems Nexus	The project provides support to decision makers and managers in the region about sustainable futures of water resources. It addresses the environmental and socio-economic consequences of changing agriculture-energy pressures on water by carrying out scenario analyses of impacts of measures on water demand, availability and quality. The transboundary nature of the Danube provides an opportunity for testing impacts of innovative policy actions exportable to other river basins and macro-regions	JRC.H.1 Arie DE ROO	1.6.b	REGIO	n/a	REGIO.DGA2.D.1 Competence Centre Macro-regions and European Territorial Co-operation - Transnational and Interregional Co-operation. HoU: C. Wolfe	AGRI ENER ENV	ICPDR - International Commission for the Protection for the Danube River E&I countries - Enlargement & Integration - countries	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		1007 - LUISA Application of the LUISA Modelling Platform to Regional Policies and Territorial Cohesion	INS-RS	1	Benchmarking models for the Danube	Benchmarking of hydro-economic modelling results against available national and regional model results made available to the Danube Water Nexus project. Focus on pilot areas in the Danube where extensive local knowledge and expertise exist.	30/06/2015	JRC Technical reports
														2	Enhanced hydro-economic model for the Danube	Revised integrated hydro-economic model for the Danube Region based on the outcomes of model benchmarking in pilot river basins. The updated version of the model will incorporate improved groundwater, water quality and economic components, and locally validated rules for water allocation across sources and demand sites for energy production, urban and industrial water uses, ecological flows and agricultural needs in the region.	31/12/2015	Scientific information systems and databases
														3	Water scenarios for the Danube River Basin	Report on scenarios of environmental and macro-economic impacts of alternative water allocation measures across competing water-using sectors (agriculture, energy, industry, human consumption, ecosystems, i.e. the Nexus) under changing land use and climate adaptation conditions for the years 2030-2050. The scenario analyses will include an assessment of the provision/valuation of ecosystem services provided by aquatic ecosystems in the Danube River Basin.	31/12/2015	Scientific and policy reports
														4	Dissemination and training	Seminars for dissemination of project outputs and training addressing stakeholders and scientists in the Danube Region. This is a multi-annual deliverable.	31/12/2015	Training
														5	Feeding the WFD policy process	Report addressing the assessment of trans-boundary Programmes of Measures from an EU-wide perspective. Specific purpose is to support efforts of Danube countries and international cooperation bodies in the implementation process of the Water Framework Directive (WFD) and planning of medium and long-term actions for the 2nd and 3rd cycles of River Basin Management Plans.	30/06/2016	Scientific and policy reports
														6	Integrated perspective of Danube River & Black Sea	Report on a "from source to sea" macro-regional assessment of release of nutrients (nitrogen, phosphorus) to the environment for the entire fluvial system of central Europe and Eurasia draining into the Black Sea testing alternative approaches of integrated nutrient management. Involve riparian states in the Danube and Black Sea Regions to strengthen cross border cooperation in sustainable management of water resources and for an assessment of hot-spots of land-sea interactions.	30/06/2016	Scientific information systems and databases

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2002 - SUL Sustainable and resilient Urban Living	SUL develops a framework to propose and evaluate strategies for sustainable and resilient urban developments. The framework is based upon the integration of models, methods and multi-sectoral databases. SUL is instrumental to support the objectives of growth and competitiveness of European cities and metropolitan areas in the context of the EU Structural and Investment Funds. SUL supports the definition and implementation of modern legislation supporting local authorities and involving citizen.	JRC.H.2 Philippe THUNIS	1.6.b	REGIO	n/a	DIJKSTRA Lewis (REGIO.B.1); BROCKETT Scott (ENV.C.3)	CLIMA ECHO ENER ENV MOVE	EEA - European Environment Agency	01/01/2015 31/12/2016	1-Foresight studies & techniques (30%) 7-Scientific, technical & policy consultancy (35%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (35%)	JRC.H.1 JRC.H.6 JRC.H.8	372 - E-URBAN European Urban Development and Territorial Cohesion 1065 - SAJA Sensitivity Auditing for Impact Assessment 1726 - AQA Air Quality Assessment 1069 - DENMAQ Developing new methods for Air Quality monitoring and emerging issues 1064 - EGARP+ Emissions for Global Atmospheric Research and Policy 1020 - DAN Danube Air Nexus 1007 - LUISA Application of the LUISA Modelling Platform to Regional Policies and Territorial Cohesion 170 - APPRAISAL Integrated assessment for regional and local air quality policies	INS-RS	1	Support to the EU negotiations on the air strategy	Support the harmonisation and benchmarking of EU Member States air quality modelling approaches (FAIRMODE). This includes: (1) tests of harmonized and advanced source apportionment methods, (2) identification of organic fine aerosol sources in urban environments and (3) development of an automatized outlier screening methodology applied to the AIRBASE to facilitate model evaluation for O3, NO2 and PM10.	18/12/2015	Scientific and policy reports
														2	Citizen involvement: indicators of quality of life	Methodology for the development of new indicators of quality of life in urban areas based on the integration of official data and citizen-generated-content. Lead Unit: H.6	30/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Support to the evaluation of investment package	Methods for Integrated Urban & Regional Assessment to evaluate coherence and coordination between all funds covered by the Common Strategic Framework in urban and metropolitan areas. Based upon integration of data and models RIAT, LUISA, TRANSTOOL. Collaboration with JRC.F.8. Lead Unit: H.8	31/12/2015	JRC Technical reports
														4	Urban resilience to air pollution health effects	Vulnerability of air pollution health effects in urban settings. Report on the assessment of vulnerability and sustainability of air pollution exposure in European cities. Investigation on how health burdens attributed to air pollution differ between subpopulations and factors that affect this discrepancy, such as geographic, vulnerability, sustainability etc. Estimation of the difference of population exposures by those factors to air pollutants.	31/12/2015	Scientific and policy reports
														5	Data communication compliant with INSPIRE	Near to real time data" communication of our platform compliant with the INSPIRE directive, as support to citizen science initiatives. An application will be developed to transfer our platform data in a near-to-real time manner and compliant with the requirement of the INSPIRE Directive adding GPS functionality. The communication protocol between fixed station and mobile air quality sensors for their recalibration will be tested. Collaboration with DENMAQ project.	31/12/2015	Validated methods, reference methods and measurements
														6	Pan-European Blue Atlas	Pan-European Blue Atlas on 24 major European Cities using a comparative set of indicators of integrated urban water management (IUWM) to stimulate exchange of best-practices among European cities. Lead Unit: H.1	31/12/2015	Scientific and policy reports
														7	EU Urban Agenda: The State of European Cities 2015	Development of sustainability and resilience indicators for EU urban areas as Contribution to the EC/UN-Habitat regional state of the cities report. Collaboration with JRC.G.2. Lead Unit: H.8	23/12/2015	Scientific and policy reports
														8	Streamlining IAM tools for Regional Authorities	Streamlining IAM tools for Regional Authorities and capacity building. Simplification of SHERPA tool to serve Regional Authorities. Workshops will be organized for dissemination purposes and to offer training.	15/07/2016	Technical systems
														9	Sensitivity auditing/analysis of SHERPA	Sensitivity auditing/analysis applied to SHERPA: a pilot study. Use of different techniques and tools to ensure that the SHERPA quality is gauged in relation to model use. Collaboration with DDG.01	01/09/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														10	Impacts of regional/urban policies on air quality	Added value of tackling air pollution issue at the regional/urban scales.	16/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1.6.c Indexes and quantitative analyses measuring economic, social and territorial cohesion at urban and regional level:																		
372 - E-URBAN European Urban Development and Territorial Cohesion	Through its research activities on methods and systems for consistent and reliable spatial analysis of human settlements and their characterisation using remotely sensed and other geo-spatial data including population, infra-structure and environmental, E-URBAN contributes towards enhancing the analysis of urban and rural patterns and urban-rural linkages across the Union's territory and its border regions in support to EU Regional and Urban Policy.	JRC.G.2 Martino PESARESI	1.6.c	REGIO	n/a	Lewis.DIJKSTRA@e.c.europa.eu (REGIO)	ESTAT	Tech Serv - Member States and their Technical Services/type approval authorities	01/01/2014 31/12/2016	2-Information systems & services (70%) 5-Monitoring, verification and surveillance (20%) 7-Scientific, technical & policy consultancy (10%)	JRC.H.6	374 - GLOB-HS Global Human Settlement Analysis for Disaster Risk Reduction	INS-RS	201501	Production Tests-EU HR Settlements using 2006 data	Carry out Production Tests of high spatial resolution (HR) map of a selected set of European built-up areas - including classification of single built-up structures, open spaces and green areas - using image sources used for the production of the Urban Atlas 2006 in 300 European large urban areas	30/06/2015	Scientific information systems and databases
														201502	Production Tests-HR Settlement from SPOT data	Carry out Production Tests of high spatial resolution (HR) built-up areas map of a selected set of European settlements using image sources available in '90s and '90s from SPOT satellite platform. This includes adapting and tuning of the GHSL information extraction workflow to the limited spectral and spatial characteristics of historical 80s and 90s SPOT data.	01/09/2015	Scientific information systems and databases
														201503	The State of European Cities 2015	Indicators for EU urban areas as Contribution to the UN-Habitat regional state of the c-Cities report "The State of European Cities 2015". Units G.2 and H.2 will jointly contribute to the Cities Report	23/12/2015	Scientific and policy reports
														201601	Multi-temporal European Settlement Data Generation	Production of multi-temporal, high spatial resolution map of European built-up areas - including classification of single built-up structures, open spaces and green areas, suitable for the modelling and analysis of trends in European urbanization. Input: deliverables 2014.1 and 2015.1 integrated with other eventually available sources	30/06/2016	Scientific information systems and databases
														201602	Multi-temporal European Settlement Classification	Multi-temporal analysis of European settlement patterns by observation of dynamics of changes in the morphological typology and population density classes. Input: deliverables 2014.2 and 2015.2 integrated with other eventually available sources.	30/11/2016	Scientific and policy reports
1022 - COIN_REGIO Regional Human Development	The goal of this project is to develop a number of regional composite indicators covering dimensions of well-being and development. The regional dimension will be NUTS 1 or 2 depending on the source of information. - Regional Human Development Index - Regional Human Poverty Index - Regional EU2020 - Regional trust & crime	JRC.DDG.01 Michaela SAISANA	1.6.c	REGIO	REGIO	Dijkstra Lewis			01/08/2013 30/06/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	102203	Regional Human Development Index 2015	The report describes the development of a regional Human Development Index to measure achievements at regional level for the EU28 Member States and benchmark countries. The measurement is done along three main dimensions: a long and healthy life, human capital (education) and a decent standard of living.	15/12/2015	Scientific and policy reports
														102206	Regional Human Poverty Index 2015	The report describes the development of a regional Human Poverty Index to measure achievements at regional level for the EU28 Member States and benchmark countries. The index aims at capturing the disparities in a region by focusing on people with lower life expectancy, lower income, low education and the long-term unemployed.	15/12/2015	Scientific and policy reports
														102209	2015 Regional Europe 2020 monitor	The report aims to offer insights into the monitoring at the regional level (NUTS 1/2) of the five Europe 2020 targets on innovation, employment, education, social cohesion and climate & energy.	15/12/2015	Scientific and policy reports
														102210	Regional trust and crime	A set of indices related to trust and crime at regional level for the EU28 Member States.	30/06/2015	Scientific and policy reports
														102211	Additional development of composite indicators	One or more JRC scientific report(s) describing the conceptual framework and analytical work underpinning the development of selected composite indicators to be delivered to REGIO upon agreement.	30/12/2016	Scientific and policy reports
1193 - URBA Human settlements in Europe	The goal of this support activity is to extend the collaboration on the use of JRC's Global Human Settlement Analysis (GHSL) tool, in the context of its application in the European Urban Atlas. The JRC effort will focus on i) maintenance and update of the built-up detection on the service of European Urban Atlas ii) settlement classification and pattern analysis for regional policy.	JRC.G.2 Stamatia HALKIA	1.6.c	REGIO	REGIO	Lewis DIJKSTRA			23/04/2014 22/04/2017	2-Information systems & services (40%) 5-Monitoring, verification and surveillance (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (30%)		Tech Serv - Member States and their Technical Services/type approval authorities	COM-AA	1	Publication of GHSL 100m resolution European Layer	Publication (web dissemination) of GHSL (100m of resolution) European Layer Improvement of higher resolution GHSL output, updating it with the new available scenes ensuring a production of a gap-free wall-to-wall GHSL layer for Europe, to the extent feasible, focusing on urban areas, available for analytical use at 10 m resolution and for dissemination at 100 m resolution.	28/02/2015	Scientific information systems and databases
														2	Population grid selected countries Europe 100m res	Based on a selection of 5-10 countries in Europe identified by the customer, and using population and boundary data at the level of census tracts, 1 sq km grid or at the level of municipalities (LAU2), whatever best is available in each country, JRC will apply the agreed disaggregation methodology to produce a 100 m grid and an aggregated 1 sq km version. The customer will take the responsibility to provide the input data (population counts and boundary data) to the JRC.	28/02/2016	Scientific information systems and databases
														3	Population grid selected countries Europe 100m res	Population grid for selected countries in Europe (100m resolution). Based on a selection of 5-10 countries identified by the customer, & using population and boundary data at the level of census tracts, 1 sq km grid or at the level of municipalities (LAU2), whatever best is available in each country, JRC will apply the agreed disaggregation methodology to produce a 100m grid and an aggregated 1 sq km version. The customer will take the responsibility to provide population counts & boundary data	28/02/2017	Scientific information systems and databases
2801 - PL- REGISTER Planned: Regional Indicators and Territorial Cohesion Analysis	The main purpose of this Administrative Arrangement (AA) is to elaborate European wide information relating to key themes (e.g., demography, environment, urban development, transport ...) and provide REGIO with indicators, maps and other data relevant for the analysis of European cities and regions. Modelling work relevant for territorial impact assessment is performed with the modelling platform LUISA.	JRC.H.8 Carlo LAVALLE	1.6.c	REGIO	REGIO	Lewis Dijkstra (REGIO B.1)	CLIMA ECFIN ENER ENV ESTAT	NEA - Nuclear Energy Agency (OECD)	01/06/2015 31/05/2018	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		975 - URBREG - Integrated assessment of regional and urban development policies 914 - RHOMOLO V Cohesion policy simulation model (CLOSE to SIGNATURE to LUISA)	COM-AA	201501	Description of methods	Technical description of methods, tools and data sets employed in production of the regional indicators related to implementation of MFF	31/05/2015	JRC Technical reports
														201601	Regional indicators of territorial cohesion	Technical description of methods, tools and data sets employed in the production of the Regional indicators related to the implementation of the MFF. Includes indicators of cities' performances	30/05/2016	JRC Technical reports
														201701	Territorial Cohesion and investment policy	Map of the Regional investments and territorial impact assessment	30/06/2017	JRC Technical reports
														201801	Final report	Final report of the work performed under the AA	31/05/2018	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1.6.d Policy support to smart specialisation strategies, including at macro-regional level, for energy and for global value added;																		
663 - S3P S3P Smart specialisation platform	The S3 Platform assists Member States and regions to develop, implement and review Research and Innovation Strategies for Smart Specialisation (RIS3). The role of the S3 Platform is to provide information, methodologies, expertise and advice to national and regional policy makers, as well as contribute to academic debates around the concept of smart specialisation.	JRC.J.2 Alessandro RAINOLDI	1.6.d	REGIO	REGIO	Katja Reppel, REGIO.G.1	AGRI CNECT EAC EMPL GROW RTD SANTE		01/01/2014 31/12/2015	2-Information systems & services (75%) 7-Scientific, technical & policy consultancy (25%)		219 - S3P - CONNECT S3P - Digital Agenda 673 - S3P - DANUBE S3P Smart specialisation for the Danube region 675 - S3P - KETS S3P Monitoring of the uptake of KETs at regional level 677 - S3P - DANUBE- 219 - S3P - CONNECT S3P - Digital Agenda 663 - S3P S3P Smart specialisation platform 677 - S3P - DANUBE- INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies	COM-AA	2	Annual Report 2015	Annual Report on 2015 Activities	31/12/2015	JRC Technical reports
673 - S3P - DANUBE S3P Smart specialisation for the Danube region	Support to research and innovation strategies for Smart Specialisation in the Danube Region is a horizontal priority of the Scientific Support to the Danube Strategy. In this context, the flagship activity proposed by the JRC will use the Danube Region as a pilot area to study and foster the integration and coordination of regional or national research and innovation strategies for Smart Specialisation at macro-regional level.	JRC.J.2 Ales GNAMUS	1.6.d	REGIO	n/a	Colin Wolfe (REGIO)	REGIO		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		673 - S3P - DANUBE S3P Smart specialisation for the Danube region 677 - S3P - DANUBE- INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies	INS-RS	1	Report on smart specialization & recommendations	Contribution to the Report on Promoting Innovative and Inclusive Danube Societies (WP5.1)	31/12/2015	JRC Technical reports
677 - S3P - DANUBE-INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies	Danube-INCO.NET is based on the organisation of events – including conferences, meetings, workshops or seminars, related studies, exchange and dissemination of good practices, and the definition, organisation and management of joint or common initiatives, together with management of the project as such.	JRC.J.2 Ales GNAMUS	1.6.d	REGIO	RTD	Colin Wolfe (REGIO)	JRC REGIO		01/01/2014 30/11/2016	7-Scientific, technical & policy consultancy (100%)		673 - S3P - DANUBE S3P Smart specialisation for the Danube region 677 - S3P - DANUBE- INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies	COM-IA	1	Report on smart specialization & recommendations	Contribution to the Report on Promoting Innovative and Inclusive Danube Societies (WP5.1)	31/12/2015	JRC Technical reports
3020 - SSP-3 Smart Specialisation Platform – Phase III	S3 Platform will: - support creation of EU value chains from smart specialisation activities of MS and regions; - support implementation of smart specialisation strategies via operational programmes; - contribute to mutual trans-national learning; - ensure complementarity of different EU initiatives; - do benchmarking and targeted support; - perform analysis on smart specialisation issues; - develop and maintain its S3 website; - organise meetings of the S3 Mirror group.	JRC.J.2 Alessandro RAINOLDI	1.6.d	REGIO	REGIO	Katja Reppel, REGIO.G.1			01/01/2015 31/12/2016	7-Scientific, technical & policy consultancy (100%)		673 - S3P - DANUBE S3P Smart specialisation for the Danube region 677 - S3P - DANUBE- INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies 2032 - Thrace&EastMacedonia Eastern Macedonia & Thrace RIS3 (EMT-RIS3)	COM-AA	1	Annual report	Compendium of activities, policy inputs to DG REGIO and the EC, reporting on papers, public presentations, seminars, publications, impact on the regional and national innovation contexts and scientific contribution	31/12/2015	JRC contributions to policy documents
3021 - SSP-ENER Smart Specialisation Policies in the field of Energy	Aims to align regional & local activities through technologies and innovative solutions to EU energy policy priorities. Tasks include to: - analyse energy priorities, policies and recommendations; - update the S3 Platform; - identify trans-national entities doing cross-regional activities; - identify good practices; - analyse together relevant issues; - support synergies in regional ESIF funds and other EC instruments; - prepare guidance material; - analyse inputs from MSs for the SET-Plan.	JRC.J.2 Alessandro RAINOLDI	1.6.d	REGIO	REGIO	Katja Reppel, REGIO.G.1	ENER		01/04/2015 31/03/2017	7-Scientific, technical & policy consultancy (100%)	JRC.F.2 JRC.F.6 JRC.F.7	673 - S3P - DANUBE S3P Smart specialisation for the Danube region 677 - S3P - DANUBE- INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies 2032 - Thrace&EastMacedonia Eastern Macedonia & Thrace RIS3 (EMT-RIS3)	COM-AA	1	Workshop	Contribution to a workshop on the implementation of smart specialisation strategies in the field of hydrogen and fuel cells technologies, to map existing strategies and activities and to propose an action plan of collaborative work between stakeholders (1 event / year)	30/07/2015	Scientific and policy reports
														2	Annual report	Compendium of activities, policy inputs to DG REGIO, DG ENER and the EC, reporting on papers, public presentations, seminars, publications, impact on the regional and national innovation contexts and scientific contribution	15/12/2015	JRC contributions to policy documents
														3	Mapping regional R&I activities on renewable energy	Develop and implement a survey methodology to complete and continuously update the smart specialisation platform through the mapping of regional/MS research and innovation activities on renewable energy, and feed this information on a tool for searching operational programmes, partnership agreements and RIS3 strategies for investments and programmes for energy.	15/12/2015	Scientific and policy reports
														4	RIS3 priority area for PV industry	Development of a RIS3 priority area for PV industry, including a) discussion document, b) workshop(s) presentation and c) strategic cooperation report.	15/12/2015	Scientific and policy reports
														5	Analysis of energy priorities and policies	Identify and describe good practices for policies and instruments used to address, monitor and evaluate objectives of renewable energy priorities. Identify and analyse issues (priorities, instruments, policies) of common interest to groups of regions. Analyse the inputs by the MSs in the developing Action Plan for the implementation of the Integrated Roadmap for energy research and innovation of the SET-Plan	15/12/2016	Scientific and policy reports
														6	Events	Ad-hoc events on issues related to the implementation of smart specialisation strategies in the field of Energy in the relevant countries / regions / EU macro-regions. (No. 1 event / year / area)	31/12/2016	JRC Technical reports
														7	Final report	Compendium of activities, policy inputs to DG REGIO, DG ENER and the EC, reporting on papers, public presentations, seminars, publications, impact on the regional and national innovation contexts and scientific contribution	31/03/2017	JRC contributions to policy documents
1.6.e Promotion of regional cooperation in the field of Intellectual Property Rights and collaboration in technology transfer.																		
441 - RegInnoPar Regional Innovation Partnerships	In addition to exploring synergies between innovative actors at a European level, JRC also supports the development of regional innovation ecosystems in Europe. Unit DDG.03 will coordinate a first pilot initiative in the context of the EU Strategy for the Danube Region, by fostering the development of an innovation ecosystem in the Danube region.	JRC.DDG.03 ALESSANDRO FAZIO	1.6.e	REGIO	n/a	Katja Reppel (REGIO)			01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (50%) 9-Education & training (50%)		673 - S3P - DANUBE S3P Smart specialisation for the Danube region 677 - S3P - DANUBE- INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies 706 - RE-GIS Exploiting Renewable Energy	INS-RS	3	Toolbox of instruments Part2	Technology Transfer Summer School Technology Transfer Secondment Programme financial instrument for TT in the Danube region	31/12/2016	JRC Technical reports
														5	Summer school	on TT and innovation for the Danube Region stakeholders	01/07/2015	Training
1.7 Research, Science and Innovation																		
1.7.1 Framework conditions for research and innovation, including national policies																		
1.7.1.a Modelling, monitoring and analysis of the drivers of and socio-economic barriers to research and innovation, in particular in the context of the transition towards Open Science. Analysis and ex-ante assessment of socio-economic impact and effectiveness of policy instruments related to research and innovation at EU, Member State and regional level, as well as (cross)sectoral level, bearing in mind relevant Europe 2020 goals, such as promotion of business innovation and the																		
720 - EPINET EPINET - Int. Ass. of Societal Impacts of Emerging S&T from within Epistemic Networks	The EPINET project will review and evaluate assessment methods, commonly used to address societal impacts of new and emerging S&Ts. The project will develop tools to integrate methodologies with reference to four case studies that aim to identify and engage with new networks of social, scientific and technological actors as they emerge in four innovation domains.	JRC.DDG.01 Angela MARTINHO GUIMARAES PIRES PEREIRA	1.7.1.a	RTD	RTD	Timea Balogh (RTD.B.6), Line Matthiessen (RTD.F.3)			01/05/2012 30/04/2015	1-Foresight studies & techniques (50%) 4-Methods and testing (50%)		572 - E-CIT Empowering Citizens' Rights in emerging ICT	COM-IA	3	EPINET JRC Final Report	This deliverable is the final report of JRC contribution to the EPINET Project.	31/03/2015	JRC Technical reports
886 - RIO-POL Research & Innovation Observatory Country and policy analysis	RIO-POL will address country-specific analysis of research and innovation policies and systems.	JRC.J.6 Margareta THEELEN	1.7.1.a	RTD	JRC	Eugenija PUCIUTE (RTD.A.4)	ECFIN GROW		01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		884 - RIO 2 Research & Innovation Observatory: Monitoring system of collection of data for policies & activities 785 - RIO-IT Research & Innovation Observatory - Observatory system and infrastructure 885 - RIO-STAT Research & Innovation Observatory - Statistics and studies	INS-RS	8	Updated news on R&I	Contribution to European Media Monitoring tool : - Updated & validated multi-lingual source lists and keywords related to R&I policies and measures aiming at monitoring recent development of R&I national systems - Updated list of webserver for the collection of data by the monitoring system - Country newsletters	31/12/2015	Technical systems
														9	Country fiche on Research & Innovation (2015)	Updated production of country fiche consolidating information on policy developments and main economic indicators data on R&I policies, flows, framework conditions for Research & Innovation and sector analysis, notably in support of monitoring of CSRs	30/06/2015	Scientific and policy reports
														10	Country Reports on R&I policies and systems	Data and analysis in support to European Semester (including international cooperation), ERA and Innovation Union	30/11/2015	Scientific and policy reports
														11	Updated news on R&I (2016)	Contribution to European Media Monitoring tool: - Updated & validated multi-lingual source lists and keywords related to R&I policies aiming at monitoring recent development of R&I national systems. - Updated list of webserver for the collection of data by the monitoring system. Assessment of relevance of reliability of source book. - Country newsletters	31/03/2016	Technical systems
														12	Country fiche on Research & Innovation (2016)	Updated production of country fiche consolidating information on main economic indicators data on R&I flows, framework conditions for R&I and sector analysis.	31/03/2016	Scientific and policy reports
														13	Country reports on R&I policies and systems	Data and analysis in support of European Semester, ERA and Innovation.	31/12/2016	Scientific and policy reports
														14	Country Reports on R&I policies and systems	Data and analysis in support of Innovation Union	01/05/2015	Scientific and policy reports
														15	Country Fiches on Research and Innovation	Country fiches to support Policy Support Facility's mutual learning activities	30/03/2015	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
2880 - STS Science and Technology Studies at the DG JRC	Consolidation of a strong competence on Science and Technology Studies (STS) across the JRC, implementing an Engagement Lab. As the EU relies on S&T innovation to secure its present and develop its future, reflecting on and anticipating societal impacts arising from current narratives embodied in EU policy is essential to keep trust. STS are reflexive, inclusive and collaborative, involving key methodologies: political science, social research, media analysis, ethics and knowledge assessment.	JRC.DDG.01 Angela MARTINHO GUIMARAES PIREZ PEREIRA	1.7.1.a	JRC	n/a	n/a	CNECT RTD		01/01/2015 31/12/2017	1-Foresight studies & techniques (50%) 4-Methods and testing (50%)			INS-RS	1	Engagement Lab - inhouse citizen engagement	To implement the JRC Engagement Lab. This encompasses its conceptual organisation and physical implementation. It will deploy current ideas of public engagement, experiences in physical and virtual spaces, co-design and co-production. Through actual installations and platforms, this Lab will organise citizen participation in debates about innovation, namely in the discussion of ethical, cultural, social and political issues in research and innovation policy.	30/09/2017	Scientific and policy reports	
														2	Knowledge production within a digital culture	Expert workshop and a report will be issued with recommendations for the DG JRC. Study of knowledge production, communication and collaboration practices arising from the digital momentum. Focus on spaces emerging outside the traditional academic and expert communities, including citizen science, science 2.0 and open science, makers and 'do it yourself' practices across science, technology and medicine, as well as other emerging paradigms such as 'open everything' and 'crowd-everything'	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														3	Knowledge Assessment of European narratives	Expert workshop inviting a critical reflection about the narratives and grand challenges that underpin European policy making. A reflection on the role of the DG JRC as independent body of scientific knowledge and boundary institution will be offered. Outcomes include a report and other publications.	30/03/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														4	Knowledge Governance in Boundary Institutions	Report on practices and norms and values by which memory is built in boundary institutions in an era of distributed knowledge sources, where interactions are mainly of digital nature. Departing from a historical account, this social research study will take the JRC as a boundary institution case, ultimately exploring what the conditions are for nurturing trust among citizens in institutions that have the duty of tracing, organising and governing collective knowledge about societal issues.	15/12/2016	JRC Technical reports	
														51	Knowledge Assessment Methodologies Training	Training on knowledge assessment methodologies within existing DDG01 training offer. This includes science outreach and public engagement. Training material will be produced.	15/12/2015	Training	
														52	Knowledge Assessment Methodologies Training	Training on knowledge assessment methodologies within existing DDG01 training offer. This includes science outreach and public engagement. Training material will be produced.	15/12/2016	Training	
														53	Knowledge Assessment Methodologies Training	Training on knowledge assessment methodologies within existing DDG01 training offer. This includes science outreach and public engagement. Training material will be produced.	15/12/2017	Training	
														61	Science and Technology Studies Seminar Series	A series of invited seminars with renowned scholars and practitioners of science and technology studies will be organised. Four seminars per year will be organised.	15/12/2015	Training	
62	Science and Technology Studies Seminar Series	A series of invited seminars with renowned scholars and practitioners of science and technology studies will be organised. Four seminars per year will be organised.	15/12/2016	Training															
1.7.1.b Gathering, analysis and dissemination of economic data as well as ERA and Innovation Union implementation data to further strengthen country-monitoring and the evidence base for EU recommendations to the European Semester and support to Commission policy assessments, notably addressing the thematic dimension;																			
885 - RIO-STAT Research & Innovation Observatory - Statistics and studies	RIO-STAT will address the gathering, analysis & dissemination of quantitative data related to research and innovation	JRC.J.6 Athina KARVOUNARAKI	1.7.1.b	RTD	n/a	Eugenija PUCIUTE (RTD.A.4)	ECFIN ESTAT GROW		01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		785 - RIO-17 Research & Innovation Observatory - Observatory system and infrastructure 884 - RIO 2	INS-RS	5	Public R&D funding data	Production of key data in support of EU R&I policies (European Semester, Innovation Union, ERA)	31/12/2015	Scientific information systems and databases	
														6	Private R&D funding data, patent data	Production of key data in support of EU R&I policies (European Semester, ERA, IU)	30/06/2016	Scientific information systems and databases	
1.7.1.c Foresight for the identification of research and innovation priorities. Application of Horizon scanning techniques and dissemination of results;																			
2294 - FOR_SCAN-II Foresight and Horizon scanning	Umbrella for foresight and horizon scanning. It includes the innovative exploitation of the four studies finalised, launch of a new set of foresight processes, the new approach for horizon scanning, follow-up of the 5th FTA conference. A Policy Lab will be launched where foresight and other disciplines are tested to address systemic and complex issues requiring policy actions.	JRC.DDG.02 Fabiana SCAPOLO	1.7.1.c	JRC	n/a	Xavier TROUSSARD	AGRI CLIMA CNECT DEVCO EAC ECHO EMPL ENER ENV FISMA GROW MOVE		02/01/2015 30/12/2015	1-Foresight studies & techniques (100%)				INS-RS	1	Scanning the horizon outputs	1 pilot workshop report and between 3 and 6 thematic Horizon Scanning reports	30/12/2015	Public information documents
															2	Special issues from the FTA conference	Special issues of peer review journals bringing together the best papers presented at the 5th edition of the Future oriented technology analysis (FTA) conference	30/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															3	Scoping foresight document	The deliverable will specify the focus and process of the foresight	15/05/2015	Scientific and policy reports
															4	Policy Lab scoping document	The deliverable will specify the focus and methodological approaches adopted in the Policy Lab that will contribute to innovation policy at European level.	16/07/2015	Scientific and policy reports
2745 - FATE From algae to energy: health impact assessment	Algae are viewed as having the greatest potential to produce renewable and economically viable fuels. Oil collected from algae can be converted to fuel using existing technology. A comprehensive study on the impact of combustion products on health has, so far, not been carried out. The aim of our study will be to identify potential health hazards from the use of algae and other biofuels and to develop recommendations on algal strain development/ engineering thereby making safer biofuels	JRC.I.1 Laura GRIBALDO	1.7.1.c	RTD	n/a	JRC	CLIMA ENER ENV SANTE	OECD - Organisation for Economic Co-operation and Development (OECD) WHO - World Health Organization	15/01/2015 15/12/2016	1-Foresight studies & techniques (20%) 4-Methods and testing (40%) 7-Scientific, technical & policy consultancy (40%)	JRC.F.7 JRC.F.8 JRC.I.4	705 - HEALTHOMCS Integration of omics knowledge into practice and prevention	INS-ER	1	Third generation biofuels from algae, current stat	Literature study on state of the art knowledge on algae biofuels, their known and suspect impacts on env/health and their expected deployment in the mid-term	15/05/2015	JRC Technical reports	
														2	Collection of biofuels and chemical analysis	Samples of biofuels produced from algae will be collected from research institutions or companies active in the field. Their composition and emission chemical signature during combustion will be analysed at IET-Description Petten, Unit F.02, using XRF and ICP-OES. Tests for one Euro 5 car, with 2 different biofuel blends (three repetitions), with a total of test 6-8 days, including change of fuels will be performed at the Vehicle Emission Laboratory (VELA) at IET.	15/10/2015	JRC Technical reports	
														3	Optimisation of the in vitro model to be used for	SOPs for the co-culturing of cells of epithelial and endothelial origin, performance criteria based on Description measurement of the permeability of the cell-barrier registered as the paracellular flux of sodium fluorescein, TEER (trans epithelial resistance), cytokines production, expression of surfactant proteins.	15/11/2015	JRC Technical reports	
														4	Comb. products testing & bioinformatics analysis	Exposure of cells with the combustion products, measurement of TEER, cytokine production, extraction of Description RNA and whole transcriptomics analysis. Data will be analysed by statistical tools and gene pathways will be identified.	15/09/2016	JRC Technical reports	
														5	Health impact of new algae-derived biofuels	Scientific results and policy warnings from the project will be presented and discussed	15/12/2016	Scientific and policy reports	
2781 - T.I.M. Technology Innovation Monitor	JRC-CERN project: develop new methods for visualisation and use of complex data sets. TIM will be first pilot in the field of innovation. TIM will provide a large range of users (European policy makers in partner DGs of JRC, research organisations ...) with better understanding of technological development & innovation, and help detect new technologies before they emerge. In line with science 2.0, TIM will have a public interface accessible to any user interested in innovation.	JRC.DDG.03 Olivier EULAERTS	1.7.1.c	SG	n/a	n/a	CNECT GROW REGIO RTD	- Instituto Tecnológico y de Energías Renovables CERN - European Organization for Nuclear Research OHIM - Office for Harmonization in the Internal Market	01/01/2015 31/12/2016	1-Foresight studies & techniques (35%) 5-Monitoring, verification and surveillance (35%) 7-Scientific, technical & policy consultancy (30%)		438 - MMA Media Monitoring and Analysis for Policy Support	INS-RS	20153	IT architecture of the JRC installation	IT architecture of the JRC installation	31/12/2015	Technical systems	
														20163	First report on emerging technologies + conference	First report on emerging technologies + conference	30/06/2016	Technical systems	
														201601	1st release-Monitoring system feeding to CERN DB	This system consists of 2 distinct custom EMM processing chains to feed CERN DB with relevant information. One chain monitors various resource databases to determine collaboration information based on patents & documentations. This system also deploys new Acronym detection algorithm & a version of Entity recognition system to map entities to their normal form to improve accuracy. 2nd chain extracts meaningful technology news from traditional media, performing mapping to relevant technology areas	30/06/2016	Technical systems	
														201602	Final release-monitoring system feeding to CERN DB	This system builds on the first release and incorporates operational improvements and feedback from the first use of the system. This deliverable will be a fully operational data feed for the CERN publications and patents database as envisaged in this project	31/12/2016	Technical systems	
														1.7.1.d Provision of programme and project level support for Fuel Cells and Hydrogen technologies in the framework of the Fuel Cells and Hydrogen 2 Joint Undertaking, typically in the areas of cross-cutting nature such as safety and RCS (Regulations, Codes and Standards);					
119 - H2FC FP7 H2FC European Infrastructure project CP & CSA	"Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy" JRC contribution relates to: 1) the improvement of facilities and of measurement methodologies for experimental investigation of hydrogen properties and behaviour 2) providing access for external users to JRC facility for experimental activities	JRC.F.2 Thomas MALKOW	1.7.1.d	MOVE RTD	RTD	MENNA Mariano (RTD.B.4)	- UNIVERSITA DI PERUGIA - NATIONAL CENTRE FOR Scientific Research Demokritos - ET GMBH GESELLSCHAFT FUER INNOVATIVE ENERGIE UND WASSERSTOFFTECHNOLOGIE - NPL Management Ltd - University of Pisa BAM - Bundesanstalt für Materialforschung und Prüfung (BAM)		01/11/2011 30/10/2015	3-Instrumentation & hardware (50%) 4-Methods and testing (50%)		492 - FIST Fuel cell testing and International Standardization 495 - MEFHYSTO Performance assessment of hydrogen storage technologies 519 - SAFHYR Safety aspects of hydrogen technologies studied by modeling and sensing tools	COM-IA	1	Improvement of existing sensors testing facilities	Co-authorship of a report entitled "D7.4 Results Report on Enhanced Capabilities for Performance Characterization of Safety Sensors"	30/10/2015	JRC Technical reports	
														3	Protocols for thermodynamics hydrogen measurements	Co-authorship of a report entitled "D9.4 Protocols for thermodynamics measurements on hydrogen storage materials"	30/10/2015	JRC Technical reports	
														4	Round-Robin Fuel Quality Measurements	Co-authorship of a report entitled "D9.9 Analysis of the Round-Robin Exercise of Fuel Quality Measurements"	30/10/2015	JRC Technical reports	

JRC WORK PROGRAMME 2015 - 2016																														
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category												
492 - FIST Fuel cell testing and International Standardization	Provide Union policy makers, research & innovation actors, as well as European and International Standards Organisations with scientific input and a reference platform for harmonising, assessing and validating test protocols, methods and measurement techniques for fuel cells & related innovative technologies. Evaluate the performance of fuel cell technologies in both transport and stationary power generation applications.	JRC.F.2 Georgios TSOTRIDIS	1.7.1.d	MOVE	n/a	Katarzyna DRABICKA (MOVE C2)	ENER GROW RTD	TUBITAK - Scientific and Technological Research Council of Turkey CENELEC - European Committee for Electrotechnical Standardization (CENELEC) FCH JTI - Joint Technology Initiative on Fuel Cells and Hydrogen IEA-HIA - IEA HIA International Energy Agency Hydrogen Implementing Agreement IEC - International Electrotechnical Commission IPHE - Partnership for Hydrogen and Fuel Cells in the Economy ISO - International Organization for Standardization (ISO)	01/01/2014 31/12/2016	4-Methods and testing (20%) 7-Scientific, technical & policy consultancy (80%) 9-Education & training (0%)	JRC.F.6	119 - H2FC FP7 H2FC European Infrastructure project CP & CSA 495 - MEFHYSTO Performance assessment of hydrogen storage technologies 518 - SAFHYR Safety aspects of hydrogen technologies studied by modeling and sensing tools 599 - FCREP Implementing FCH JTI reference function and performing fuel cells research 2186 - TPW FCH2JU Framework Agreement FCH2JU	INS-RS	5	Support to SETIS	Ad-hoc written input to update the Hydrogen and Fuel Cells Technology Map and the corresponding quantitative technology data to the ETRI database.	31/10/2015	Scientific and policy reports												
														6	Support to IPHE	Regular co-chairing meetings and providing written input to the draft documents of IPHE (International Partnership for Hydrogen and Fuel Cells in the Economy) RCS (Regulations, Codes & Standards) WG and IG E&T (Interest Group on Education & Training)	31/12/2016	JRC contributions to policy documents												
														7	Support to IEC/TC105/WG6	Development of a Committee Draft (CD) IEC 62282-4-102 CD "Part 4-102: Fuel cell power systems for industrial electric trucks - Performance test methods" for the IEC TC 105 WG6 - Fuel cell system for propulsion and auxiliary power units (APU)	30/06/2015	Validated methods, reference methods and measurements												
														8	Support to IEC/TC105/WG11	Contribution by means of written technical comments on the Committee Draft Standard "IEC/TS 62282-7-2 Ed.1: Fuel cell technologies - Part 7-2: Single cell/stack performance test methods for solid oxide fuel cells (SOFC)" for IEC/TC105/WG 11 Single cell test methods for PEFC and SOFC	30/06/2015	Validated methods, reference methods and measurements												
														11	Peer-reviewed scientific publication	Submission of one peer-reviewed publication on modelling or testing activities and their results (minimum three papers per AD during 2014-2016)	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index												
														12	International conference presentation	Presentations and contributions to presentations on the scientific results of the project activities at international conferences/workshops/seminars (minimum three presentations during 2014-2016)	31/12/2016	Oral presentations												
518 - SAFHYR Safety aspects of hydrogen technologies studied by modeling and sensing tools	Safety assessment of hydrogen technologies by means of a reference laboratory for performance assessment of hydrogen detectors and a reference computational centre simulating hydrogen behaviour, at the service of standardisation bodies, of DG ENER in relation to hydrogen for energy storage, of DG RTD in support to the LCE Technologies Observatory and of DG ENTR for the Phase 2 of the UNECE GTR for hydrogen vehicles.	JRC.F.2 Pietro MORETTO	1.7.1.d	MOVE	n/a	Peter Broertjes (DG ENTR);	IEA-HIA - IEA HIA International Energy Agency Hydrogen Implementing Agreement IPHE - Partnership for Hydrogen and Fuel Cells in the Economy ISO - International Organization for Standardization (ISO) US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	4-Methods and testing (20%) 6-Reference materials and measurements (40%) 7-Scientific, technical & policy consultancy (40%)		119 - H2FC FP7 H2FC European Infrastructure project CP & CSA 492 - FIST Fuel cell testing and International Standardization 495 - MEFHYSTO Performance assessment of hydrogen storage technologies	INS-RS	5	MoA with NREL on safety H2 sensor testing	Reports on international collaborative Pre-Normative Research results on hydrogen sensors performance assessment, as described in the MoA with the National Renewable Energy Laboratory of the US Department of Energy. This includes inter-laboratory comparisons for addressing methodology gaps in performance and safety assessments, for example by sensors response to presence of poisoning species.	31/12/2015	Validated methods, reference methods and measurements													
													7	Underpinning scientific results	At least 1 peer-review publication per AD staff equivalent per year. The publications will focus on 1) Advanced testing methodologies and test validation results on safety hydrogen sensors, 2) Scientific advancement on CFD methods applied to the safety evaluation of hydrogen (accidental) behaviour.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index													
													8	International conference contributions	Presentation on hydrogen technologies assessment activities at at least one international conference per year	31/12/2016	Oral presentations													
													14	Contribution to SETIS	Ad-hoc written input to the Integrated Roadmap, the update the Hydrogen and Fuel Cells Technology Map and the corresponding quantitative technology data to the ETRI database.	31/12/2015	Scientific and policy reports													
599 - FCREP Implementing FCH JTI reference function and performing fuel cells research	Implementing the reference function for the Fuel Cells and Hydrogen Joint Technology Initiative (FCH JTI) projects by operating test facilities for performance assessment and by conducting research and validation testing of fuel cells, electrolyser & related innovative technologies in stationary power generation and transportation, in the framework of the Fuel Cells and Hydrogen Joint Undertaking.	JRC.F.2 Georgios TSOTRIDIS	1.7.1.d	MOVE RTD	RTD	Philippe VANNSON (RTD.DDG3.G.2)	FCH JTI - Joint Technology Initiative on Fuel Cells and Hydrogen	01/01/2014 31/10/2017	4-Methods and testing (80%) 6-Reference materials and measurements (20%) 7-Scientific, technical & policy consultancy (0%)		492 - FIST Fuel cell testing and International Standardization	COM-HA	5	FCH JTI Stack-Test in-kind support LTFC	Performing stack validation tests under automotive operation conditions. JRC outputs: co-authoring of reports on D2.2 "Application oriented functional performance test program validation report including test program release version" D3.2 "Application oriented endurance test program validation report including test program release version" D4.2 "Application oriented safety / environmental test program validation report including test program"	30/08/2015	JRC Technical reports													
													6	FCH JTI IMPALA in-kind support LTFC	Performing fuel cell modelling and validation tests. JRC outputs: co-authoring of D5.7 "Report on cell modelling" D5.8 "Public version of D5.7"	30/11/2015	JRC Technical reports													
													7	FCH JTI Immediate in-kind support LTFC	Performing MEA characterisation. JRC output: co-authoring of project report with characterisation results	31/12/2015	JRC Technical reports													
													8	FCH JTI IMPACT in-kind support LTFC	Performing the experimental testing activities. JRC output: co-authoring of D8.1 "Report on Round Robin tests of reference MEAs in stack hardware including test protocols and program"	31/10/2015	JRC Technical reports													
													11	FCH JTI PURE in-kind support system testing	Development of testing procedures and test protocols on performance assessment for fuel cell systems and performing the experimental testing activities. JRC outputs: co-authoring of reports D7.2 "System test protocols set" D8.1 "Test report on APU environmental testing"	31/12/2015	JRC Technical reports													
													12	FCH JTI ElectroHyPEM LTFC research	Performing the experimental testing and modelling activities for low temperature fuel cells (LTFC) and electrolyser. JRC output: co-authoring of project report with test results	31/03/2015	JRC Technical reports													
													13	FCH JTI Puma-Mind LTFC research	Performing the experimental testing and modelling activities for low temperature fuel cells (LTFC). JRC outputs: co-authoring of D7.01 "Report on validation by single cells of recommended operating conditions" D7.02 "Recommendations on operating conditions and control command strategies"	16/12/2015	JRC Technical reports													
													14	FCH JTI AutostackCore LTFC research	Performing the experimental testing and modelling activities for low temperature fuel cells (LTFC). JRC output: co-authoring of project report with test results	31/08/2016	JRC Technical reports													
													15	FCH JTI IRMFC LTFC research	Performing the experimental testing and modelling activities for low temperature fuel cells (LTFC). JRC output: co-authoring of D6.1 "Self-sustaining operation at 100 W net power output (no external power supply) for 1000 h"	30/04/2016	JRC Technical reports													
													16	FCH JTI DemStack LTFC research	Performing the experimental testing and modelling activities for low temperature fuel cells (LTFC). JRC output: co-authoring of report on D3.3 "Definition of operating conditions and development of AST"	28/02/2016	JRC Technical reports													
													17	FCH JTI Nano-CAT LTFC research	Performing the experimental testing and modelling activities for low temperature fuel cells (LTFC). JRC outputs: co-authoring of D5.2 "Report on short stack tests" D5.3 "Report about the degradation of the benchmark MEA in short stacks"	30/04/2016	JRC Technical reports													
													18	FCH JTI SAPIENS HTFC research	Performing the experimental testing and modelling activities for high temperature fuel cells (HTFC). JRC output: co-authoring of D3.4 "Stack testing report"	28/02/2015	JRC Technical reports													
													19	FCH JTI ProSOFC HTFC research	Performing the experimental testing and modelling activities for high temperature fuel cells (HTFC). JRC output: co-authoring of project report with stack test results	30/04/2016	JRC Technical reports													
													20	FCH JTI FLUMABACK FC system testing	Performing experimental testing activities for fuel cell systems. JRC output: co-authoring of report on D5.4 "Test of first and second release of fuel cell system prototypes"	30/06/2015	JRC Technical reports													
													21	FCH JTI HyCARUS FC system testing	Performing experimental testing activities for fuel cell systems. JRC output: co-authoring of project report with test results	30/04/2016	JRC Technical reports													
													22	FCH JTI Hylift-Europe FC system testing	Performing experimental testing activities for fuel cell systems. JRC output: co-authoring of report D6.5 "Tests performed at JRC on fuel cell system"	31/03/2015	JRC Technical reports													
													23	FCH JTI DonQuichote FC in-kind support sys.testing	Performing experimental testing activities for fuel cell systems. JRC output: co-authoring of project report with test results D3.2 "Report on test results and evaluation phase 2"	31/10/2015	JRC Technical reports													
													24	FCH JTI SecondACT H2 PEM fuel cells testing	Performing the experimental testing activities for H2 PEM fuel cells focusing on accelerated stress testing (AST). JRC outputs: co-authoring of D2.1 "Report on degradation data from field and lifetime test"	30/09/2015	JRC Technical reports													
													25	FCH JTI HyCoRa workshop	Organising OEM workshop on hydrogen fuel quality assurance including oral presentation	31/01/2015	Oral presentations													
													26	FCH JTI HyCoRa research	Performing hydrogen fuel contaminants research through fuel cells testing JRC will co-author the reports on: D1.2 "Report on reference measurements and test protocols" D1.3 "Intermediate report on the second risk assessment workshop"	30/10/2015	JRC Technical reports													
													27	FCH JTI SOCTESQA materials procurement	Performing procurement of samples for solid oxide cells (SOC) testing	31/01/2015	Technical systems													
													28	FCH JTI SOCTESQA testing	Performing validation testing on solid oxide cells (SOC) JRC will co-author project deliverables D3.2-D3.6, D4.2 to D4.5	31/12/2016	JRC Technical reports													
													961 - ECTES Environmental chamber testing of FC stacks	The project relates to the execution of test activities for fuel cell stacks for transport applications, which will be carried out at the environmental chamber facility of IET. Tests will be performed in a temperature range of -20°C, up to +45°C, with humidity variation up to 95%. Tests shall be performed on several specimen with test duration ranges from 5 to 17 days under continuous system operation.	JRC.F.2 Georgios TSOTRIDIS	1.7.1.d	MOVE	n/a	n/a	- INTELLIGENT ENERGY LIMITED	22/05/2013 21/05/2015	4-Methods and testing (100%)		492 - FIST Fuel cell testing and International Standardization	COM-TW	1	Climate tests	Performing climate tests on customer system. JRC output: Supply of confidential test results to customer in electronic form	21/05/2015	Technical systems

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2186 - TPW FCH2JU Framework Agreement FCH2JU	Scientific and technical support to FCH2JU objectives and operations at programme and project level for the duration of H2020, as indicated in section 4.3 of the FCH2JU Multi-Annual Work Programme (MAWP) and described in the Technical Annex to the Framework Agreement. In line with JRC mission and role under H2020, support typically addresses topics of cross-cutting nature from section 3.1.4 of the MAWP. Activities calling upon JRC's independence are provided free of charge.	JRC.F.2 Marc STEEN	1.7.1.d	RTD	RTD	P. Vannson (RTD-G2), Bert de Colvenaer (FCH2JU)	ENER GROW MOVE	FCH JTI - Joint Technology Initiative on Fuel Cells and Hydrogen	01/01/2015 31/12/2016	4-Methods and testing (60%) 5-Monitoring, verification and surveillance (10%) 7-Scientific, technical & policy consultancy (30%)			COM-TW	1	Support to FCH2JU strategy formulation (2015)	This cluster of deliverables is part of the program level support. JRC will a) assist the industry-led RCS Group of FCH2JU and act as a relay with European and international RCS bodies, according to section 4.1 of the MAWP), b) identify knowledge gaps in hydrogen safety and prioritization of the required R&I, c) participate in FCH2JU funded coalition studies, d) inform EU policies with relevant project results, e) share information on relevant Commission activities outside H2020.	31/12/2015	JRC contributions to policy documents
														2	Contribution to MAWP and 2015 AWP implementation	This cluster of deliverables is part of the program level support to FCH2JU. JRC will a) review a fraction of the program at the annual Program Review Days, b) coordinate and support the development of European standards and regulations, c) contribute to technology monitoring and assessment, d) ensure consistency/complementarity with relevant Commission initiatives (section 4.8 of the MAWP)	30/12/2015	JRC contributions to policy documents
														3	Fuel Cells testing harmonisation and validation	This cluster of deliverables is part of the project level support to FCH2JU. It consists of a) the services of a reference laboratory upon request by the projects or by the FCH 2 JU Programme Office, b) establishment of harmonised testing protocols, c) advice projects on testing methodologies, pre-normative research (PNR) and regulations and standards (RCS). This specific deliverables of the already running projects, as from their Description of Work (DoW), are detailed in the project FCREP.	31/12/2016	JRC contributions to policy documents
														10	Project MATHRYCE: storage degradation benchmarking	This deliverable is part of the support of JRC to the FCH JU at project level, as described in the EC - FCH JU Framework Agreement. The project MATHRYCE executes pre-normative research on design and testing requirements for metallic components exposed to H2 enhanced fatigue. JRC fulfills a reference function with its facility GasTeF, and performs full scaled hydrogen cycling experiments to benchmark laboratory results. JRC output is a report on the benchmarking. (del. 4.4)	30/04/2015	JRC Technical reports
														11	Project MATHRYCE: H2 degradation test methodology	This deliverable, with JRC co-authorships, consists of recommendations to European and International standardisation bodies (preferentially ISO) on an improved design and testing methodology for hydrogen components degradations, as obtained in the frame of the FCH JU project MATHRYCE (See previous related deliverable).	31/12/2015	Validated methods, reference methods and measurements
														12	Project HYPER: capacity measurements validation	This deliverable is part of the JRC support to FCH JU at projects level. The project HYPER develops integrated hydrogen power packs for portable and other autonomous applications. JRC participates to it with its European reference laboratory SoTeF, by validating the thermodynamics measurements of the other partners. JRC output will be a scientific report on all support delivered.	31/12/2015	JRC Technical reports
														13	Project EDEN: capacity measurements validation	This deliverable is part of the JRC support to FCH JU at projects level. Project EDEN develops a hydrogen storage system for energy storage. JRC participates to it with its reference laboratory SoTeF, which validates the thermodynamics measurements of the other partners. JRC output will be a scientific report on all support delivered.	31/10/2015	JRC Technical reports
														14	Project SUSANA: H2 accidents benchmarking	This deliverable is part of the JRC support to FCH JU at projects level. The project SUSANA aims at the development of an evaluation protocol for the safety analysis of hydrogen and fuel cell technologies by means of a Computational Fluid Dynamics (CFD) model. This deliverable consists of the final report on "CFD model evaluation protocol", which for the first time will set quantitative evaluation criteria for the quality of the numerical results applied to hydrogen technologies.	31/12/2015	Scientific and policy reports
														15	Project HyTransfer: H2 fuelling protocol	This deliverable is part of the JRC support to FCH JU at project level. The project HyTransfer is a pre-normative project aiming at optimising the hydrogen refuelling process and improving the already existing standards. JRC validates partners' results by means of its reference laboratory GasTeF for compressed gas storage testing. At the end of the project, JRC will be co-author of report containing the validation results and the final recommendation to RCS bodies.	30/12/2015	Scientific and policy reports
														20	Support to FCH2JU strategy formulation (2016)	This cluster of annual deliverables is part of the program level support. JRC will a) assist the industry-led RCS Group of FCH2JU and act as a relay with European and international RCS bodies, according to section 4.1 of the MAWP), b) identify knowledge gaps in hydrogen safety and prioritization of the required R&I, c) participate in FCH2JU funded coalition studies, d) inform EU policies with relevant project results, e) share information on relevant Commission activities outside H2020.	31/12/2016	JRC contributions to policy documents
21	Contribution to MAWP and 2016 AWP implementation	This cluster of deliverables is part of the program level support to FCH2JU. JRC will a) review a fraction of the program at the annual Program Review Days, b) coordinate and support the development of European standards and regulations, c) contribute to technology monitoring and assessment, d) ensure consistency/complementarity with relevant Commission initiatives (section 4.8 of the MAWP); e) ensuring representation of FCH2JU activities in international fora in areas of JRC competence	31/12/2016	JRC contributions to policy documents														
1.7.1.e Development of a Low Carbon Energy Observatory and support to policy making services of the Commission in the area of unconventional gas and oil; development of applications to provide citizens with qualitative information on their changing environment;																		
1961 - SGST Shale Gas S&T	The project will carry out scientific activities in the unconventional gas and oil field in support to policy making services of the European Commission; assess Europe's resources in cooperation with geological surveys; analyse the energy market as well as broader economic impacts; evaluate the technical and economic framework conditions for the development of a European shale gas industry; facilitate international knowledge sharing.	JRC.F.3 Marcelo MASERA	1.7.1.e	RTD	RTD	P. Petrov, V. Kogionas, J. Schuppers (RTD G.2); A. Jevsejenko (CLIMA C.1)	CLIMA ENER ENV GROW	EGS - Eurogeosurveys	01/12/2015 31/12/2016	7-Scientific, technical & policy consultancy (100%)		490 - UH Unconventional Hydrocarbons	COM-AA	1	Resource Assessment - Current Status	Up-to date assessment of shale gas resources based upon data and information currently available at the geological surveys of the EU, especially by analysing results from current assessments conducted by Member States and from ongoing exploration projects. Information will be restricted to what is publicly available/accessible	31/08/2015	Scientific and policy reports
														2	A common EU methodology	A commonly agreed methodology for resource assessment of shale oil and gas will be developed with the aid of national geological surveys and other stakeholders (academia, industry,...)	31/12/2015	Scientific and policy reports
														3	EU Atlas - Final Resource Assessment	The resource assessments will be performed at the level of shale gas basins. Data will be aggregated at a suitable level (for public use); as far as possible homogenised so as to be expressed in a common framework; wherever possible, provided with uncertainty ranges (e.g. P10/P50/P90) on potential resource estimates.	31/07/2016	Scientific and policy reports
														4	European shale gas and energy markets	1 Estimate the impacts from the exploitation of European shale gas under different scenarios on energy markets; 2 Estimate the medium-term (potential) job creation from the development of shale gas activities in Europe; 3. Identify the availability of related service industries and of a skilled workforce for European shale gas activities. Estimate the potential needs of such industries and workforce;	30/11/2016	Scientific and policy reports
														5	International knowledge sharing	1 Invitation of hors-EU experts 2 Participate to relevant conferences 3 Organise dedicated workshops, in relation to the Network 4. Setup and maintain European Science and Technology Network on Unconventional Hydrocarbon Extraction website	31/12/2016	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
2140 - LCEO Low Carbon Energy Observatory	The project will: a) Establish and maintain a database of projects relevant to the development of a low carbon energy system and funded under EU programmes (LCE Observatory) and of new and emerging technologies relevant to future low carbon energy systems (FET inventory). b) Analyse the impact of emerging low carbon energy technologies on the Commission's energy research policy objectives	JRC.F.6 EFSTATHIOS PETEVES	1.7.1.e	RTD	RTD	Paul Verhoef (RTD G.3)	CLIMA ENER		01/01/2015 31/12/2019	1-Foresight studies & techniques (25%) 7-Scientific, technical & policy consultancy (60%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (15%)	JRC.F.2 JRC.F.3 JRC.F.4 JRC.F.7		COM-AA	101	D1.1 LCTO Data Management Plan	Plan for Observatory data management	31/01/2015	Scientific and policy reports	
														102	D1.2 Technical Specification for Sub-Contract 1	Technical Specification for Sub-Contract 1 "LCOE Observatory Database"	31/01/2015	JRC Technical reports	
														103	D1.3 Technical Specification for Sub-Contract 2	Technical Specification for Sub-Contract 2 "Expert elicitation network for low carbon energy technology R&D"	31/01/2015	JRC Technical reports	
														104	D1.4 Observatory development to 2020	Report addressing the further development of the Observatory 2016-2020	31/03/2017	Scientific and policy reports	
														201	D2.1 LCTO Database Status Report (M12)	Annual status report on functionality and content.	30/09/2015	Scientific and policy reports	
														202	D2.2 LCE Database Status Report (M24)	Annual update	30/09/2016	Scientific and policy reports	
														203	D2.3 LCTO Database Status Report (M36)	Annual status report on the database operation	30/09/2017	Scientific and policy reports	
														301	D3.1 Scenarios for the JRC-EU-TIMES model	Report on definition of the reference and policy scenarios and JRC-EU-TIMES modelling approach	30/04/2015	Scientific and policy reports	
														302	D3.2 1st report on selected scenarios	1st report on selected scenarios and evaluation - impact of energy technology progress on energy technology development	30/09/2015	Scientific and policy reports	
														303	D3.3 2nd report on selected scenarios	2nd report on selected scenarios and evaluation - opportunity windows for the SET-Plan technologies in the JRC-EU-TIMES model (M24)	30/09/2016	Scientific and policy reports	
														401	D4.1 Methodology Report	Report describing the methodology for the analysis	30/04/2015	Scientific and policy reports	
														402	D4.2 Preliminary Analysis Report (M12)	Preliminary Report including a benchmark analysis of historic and current projects	30/09/2015	Scientific and policy reports	
														403	D4.3 Baseline Analysis Report (M24)	Second analysis report on historic and current projects	30/09/2016	Scientific and policy reports	
														404	D4.4 Scientific publication	D4.4 Scientific publication to the community (joint JRC & RTD) (M18)	30/04/2016	Scientific paper presented at a conference and published in a book of conference proceedings	
														405	D4.5 Annual Analysis Report (M36)	Report on the updated database, including new results from running projects and from those recently completed	30/09/2017	Scientific and policy reports	
														501	D5.1 Inception Report (M6)	as above	30/04/2015	Scientific and policy reports	
														502	D5.2 Tech Specs for Expert Elicitation	D5.2 Technical Specification for Sub-Contract 3 "Expert elicitation network for future and emerging low carbon energy technologies" (M6)	30/04/2015	JRC Technical reports	
														503	D5.3 Inventory set-up status (M12)	as above	30/09/2015	Scientific and policy reports	
														504	D5.4 Inventory baseline report (M24)	as above	30/09/2016	Scientific and policy reports	
														505	D5.5 Annual inventory status report (M36)	as above	30/09/2017	Scientific and policy reports	
601	D6.1 Baseline Analysis Report (M18)	as above	30/04/2016	Scientific and policy reports															
602	D6.2 Scientific publications	Scientific publications to the community (joint JRC & RTD) (M18)	30/04/2016	Scientific paper presented at a conference and published in a book of conference proceedings															
603	D6.3 Yearly FET Analysis Report (M30)	as above	30/04/2017	Scientific and policy reports															
2306 - PL: MyGEOSS Planned: Innovative applications of GEOSS data for local environmental information	Planned Administrative Arrangement with RTD to be signed in 2014 (1,2 Million). The project develops internet applications that non-experts could customise and execute on-demand using the GEOSS Data-Core and FP7 GEO project data resources. These applications, which could also exploit the benefits of the mobile internet, will provide citizens with qualitative information on their changing environment	JRC.H.6 Massimo CRAGLIA	1.7.1.e	RTD	RTD	G. OLLIER, unit I3 DG Research and Innovation	ECHO ENV GROW REGIO		01/01/2015 31/12/2016	2-Information systems & services (70%) 5-Monitoring, verification and surveillance (20%) 7-Scientific, technical & policy consultancy (10%)			COM-AA	201501	Innovative mobile applications GEOSS data	Innovative applications of GEOSS full and open access data integrating multiple datasets at global and local levels. Based on mobile technologies and easy to customise interfaces by users.	30/09/2015	Technical systems	
														201502	Review of data-driven innovation mechanisms	Report reviewing lessons learned in first round of applications and competitions for young talents and SMEs in creating innovative uses of existing environmental data. Analyses barriers to be removed to make full use of open data.	15/12/2015	Scientific and policy reports	
														201601	Second round Innovative mobile applications GEOSS	Second round of innovative applications of GEOSS full and open access data integrating multiple datasets at global and local levels. Based on mobile technologies and easy to customise interfaces by users. Builds on lessons learned in 2015	30/09/2016	Technical systems	
														201602	Evaluation of Innovative use of Open GEOSS data	Evaluation lessons learned in project and mechanisms to generate innovative uses of open GEOSS data. Analyses barriers to be removed to make full use of open data.	15/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
1.7.1.f Promotion of EU cooperation in the field of Intellectual Property Rights (IPR) and collaboration in technology transfer through partnership with the major public producers of research-based IPR (including through the European Technology Transfer Office Circle).																			
428 - TTO Technology Transfer Office	IP & Knowledge transfer are the roots of innovation in today's knowledge society. Building on its expertise as Technology Transfer Office and Central IP Service for the European Commission, Unit DDG.03 operates both at an operational level, e.g. by managing the IP portfolio of the Commission or by supporting programmes such as Galileo or ITER, and at a policy level, e.g. by contributing to the policy making process related to innovation and by organising the activities of two pan-European Networks	JRC.DDG.03 BERNARD DENIS	1.7.1.f	RTD	n/a	n/a	EACI - Executive Agency for Competitiveness & Innovation (EACI) REA - Research Executive Agency of the European Commission		01/01/2014 31/12/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)			INS-RS	2	Yearly report	Activities and statistics on the activities of the Central IP Service are produced once a year and used to report to hierarchy and stakeholders.	31/12/2015	JRC Technical reports	
														3	Yearly report	Activities and statistics on the activities of the Central IP Service are produced once a year and used to report to hierarchy and stakeholders.	31/12/2016	JRC Technical reports	
440 - TTO Circle European Technology Transfer Offices Circle	The European TTO CIRCLE network is a laboratory for testing new ideas and instruments for technology transfer in Europe. Partners are leading European public research organisations (PROs) whose prime mission is to perform research. They decided to play a collective role in driving changes to the Technology Transfer landscape in Europe.	JRC.DDG.03 BERNARD DENIS	1.7.1.f	RTD	n/a	n/a	- EUROPEAN SPACE AGENCY - IMEC (UNIVERSITY OF GENT) - LEIBNIZ-INSTITUT FUER FESTKORPER- UND WERKSTOFFFORSCHUNG DRESDEN E.V. - Danish Technological Institute - Max Planck Society - Natural Environment Research		01/01/2014 31/01/2016	7-Scientific, technical & policy consultancy (50%) 9-Education & training (50%)			INS-RS	2	New instruments and methods for TT in Europe	These new instruments are being developed along 4 axes: WP1: foster exploitation of existing IP by inventing new ways of collaborating WP2: create a tech transfer financial facility to support the effective transfer of innovation from universities to the market WP3: foster entrepreneurship spirit among the research organisations in Europe WP4: develop new methods to strengthen TTOs	31/01/2016	Technical systems	
														3	Workshop and training events	Members of the TTO Circle are gathered twice a year in workshops to brainstorm on new methods and instruments to develop and implement and to evaluate methods and instruments under development. Members are also trained on specific issues related to innovation.	31/12/2016	Training	
784 - SPI Science Parks Initiative	The core objectives of the JRC Science Parks Initiative (SPI) are to foster connectivity at European level between science and business, between academia and industry. In 2014 a work programme, focused on two priorities (open innovation and smart specialisation) was implemented in collaboration with IASP (International Association of Science Parks). Details for further JRC-IASP cooperation beyond 2014 still to be confirmed.	JRC.DDG.03 ALESSANDRO FAZIO	1.7.1.f	RTD	n/a	n/a	GROW REGIO RTD		01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)		663 - S3P S3P - Smart specialisation platform 428 - TTO Technology Transfer Office	INS-RS	n/a	n/a	n/a	n/a	n/a	
1.7.2 Measuring progress towards EU research and innovation goals																			
1.7.2.a Development of a Research and Innovation Observatory for the collection, production and dissemination of data and analysis related to national Research and Innovation policies, including thematic R&I policies. Indicators, scoreboards, information systems and web platforms for monitoring and analysis of progress in the implementation of the Europe 2020 Research and Innovation objective, the Innovation Union and the European Research Area;																			
139 - IRIMA Industrial Research and Innovation Monitoring and Analysis	IRIMA provides a platform for the long-term collection of information, its analysis and the reporting of developments in industrial research and innovation in Europe and of its relation to economic performance, providing techno-economic and policy intelligence on the subject. The economic and financial analyses at firm, sector, country, EU and international levels are carried-out on the basis of original data collected as part of the project and other statistical and commercial sources.	JRC.J.2 FERNANDO HERVAS SORIANO	1.7.2.a	RTD	RTD	Antoine MASSON (DG RTD C.6)	CNECT ECFIN EMPL GROW SG	CEFIC - European Chemical Industry Council (CEFIC) EFPIA - European Federation of the Pharmaceutical Industries and Associations (EFPIA) OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2012 31/08/2016	7-Scientific, technical & policy consultancy (100%)				COM-IA	7	Report on the 2014 analytical work	Annual Report for the thematic strands and policy briefs adopted in 2014	02/02/2015	JRC Technical reports
															8	Report on the 2014 workshops	Presentation of the results for 2 policy workshops organised in 2014 in order to present relevant results of the project and discuss both their validity and policy implications with policy makers, interested stakeholders and other experts.	16/03/2015	JRC Technical reports
															9	EU R&D 2015 Survey	Results of the 2015 EU Survey on Industrial R&D Investment trends will be presented. Survey is sent to the EU companies of the EU Industrial Scoreboard.	15/07/2015	Scientific and policy reports
															10	2015 EU Industrial R&D Investment Scoreboard	The Scoreboard contains economic and financial data of the world's top 1500 companies ranked by their investments in research and development (R&D).	16/11/2015	JRC Technical reports
															11	Final review statement by an independent expert	Peer review by external experts	15/04/2016	JRC Technical reports
															12	Report on the 2015 analytical work	Annual report for the thematic strands and policy briefs adopted in 2015	15/02/2016	JRC Technical reports
															13	Report on the 2015 workshops	Presentation of the results for 2 policy workshops organised in 2015 in order to present relevant results of the project and discuss both their validity and policy implications with policy makers, interested stakeholders and other experts.	15/02/2016	JRC Technical reports
14	Final Report	Final project report	15/07/2016	JRC Technical reports															

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785 - RIO-IT Research & Innovation Observatory - Observatory system and infrastructure	RIO-IT will address the development of the Observatory data system including advanced ICT infrastructure interoperability systems; data processing technologies and visual analytics.	JRC.J.6 Tauno OJALA	1.7.2.a	RTD	n/a	Eugenija PUCIUTE (RTD.A.4)			01/01/2014 31/12/2016	2-Information systems & services (100%)	JRC.B.7	885 - RIO-STAT Research & Innovation Observatory - Statistics and studies 886 - RIO-POL Research & Innovation Observatory - Country and policy analysis	INS-RS	4	Analysis and visualization system construction	Extension of the amount of data collected from various sources improving Observatory capabilities for advanced analyses, visualizations and data mining (European Media Monitor).	31/12/2015	Scientific information systems and databases
														5	Data and information dissemination system	Revamped release of the Observatory public website to disseminate research and innovation monitoring outcomes, advanced visualizations, and data services	30/06/2015	Scientific information systems and databases
														6	Analysis and visualization system construction	Creation of 'big data' infrastructure for the Observatory to enable analysis capabilities for data sets from various sources	31/03/2016	Scientific information systems and databases
														7	Data and information dissemination system	Revamped release of the Observatory public website to disseminate research and innovation monitoring outcomes, advanced visualizations, and data services	30/09/2016	Scientific information systems and databases
2261 - INNOVA_MEASURE Measuring Innovation	The project has four foci of interest: i) to support the refinement of the indicator of innovation output and bring it to its full potential; ii) to further refine the indicators of research excellence and of an open and integrated ERA; iii) to assess the relationship between the organization of research networks and their impact in terms of excellent outcomes; iv) to conduct econometric studies on the relationship between innovation, productivity and employment.	JRC.DDG.01 Stefano TARANTOLA	1.7.2.a	RTD	RTD	Deiss Richard	ECFIN ESTAT GROW SG		01/07/2014 30/06/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		2262 - BESTINGS BioEconomics and Social Theory analyses of Innovation-based Growth Strategies	COM-AA	102704	Report on research excellence indicators	A JRC scientific and policy report on indicators measuring research excellence and an open and integrated European Research Area	30/06/2015	Scientific and policy reports
														102705	Report on innovation output indicator	A JRC confidential scientific and policy report describing all the refinements and the relevant statistical analysis carried out on the revised innovation indicator	30/06/2015	Scientific and policy reports
														102706	Report on research interactions and excellence	Technical report of an assessment at the project level of the link between research interactions on the one hand and excellent research outcomes on the other, including a sectorial and disciplinary breakdown	30/06/2015	Scientific and policy reports
														102707	Report on structural research capabilities and exc	Technical report of an assessment at the territorial (i.e. national and regional) level of the link between structural research capabilities and research interactions on the one hand and excellent research outcomes on the other	30/06/2015	Scientific and policy reports
														102708	Report on innovation, productivity and employment	Scientific and policy report on the relationship between innovation, productivity and employment at the firm level	30/06/2015	Scientific and policy reports
2262 - BESTINGS BioEconomics and Social Theory analyses of Innovation-based Growth Strategies	BESTINGS is an interdisciplinary research project that will expand the scientific base for Europe's innovation-based growth strategy. The project will critically analyse the plausibility and viability of the 'economic growth and quality employment through smart, sustainable and inclusive growth'. The project involves collaboration with bioeconomists, social researchers, innovation economists and policy analysts in interdisciplinary research on the current challenges of innovation-based growth st	JRC.DDG.01 Stefano TARANTOLA	1.7.2.a	RTD	RTD	n/a	ECFIN EMPL GROW SG		01/01/2015 30/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	2261 - INNOVA_MEASURE Measuring Innovation	COM-AA	1	Review of available narratives on innovation	A report containing a systematic review of narratives available in the academic literature on innovation and growth.	30/12/2015	Scientific and policy reports	
													2	Report on bibliometric study on narratives for inn	A report discussing the results of the bibliometric study on the available narratives on innovation and growth.	30/12/2015	Scientific and policy reports	
													3	Training course/tailoring workshop	Training course/tailoring workshop with the EC officials in order to tailor the findings of the project to the needs and policies of the EC.	30/12/2016	Training	
1.7.2.b Data collection, analysis, dissemination and modelling on the progress of the bioeconomy, through the Bioeconomy Observatory, as well as the Biomass Observatory, and assessment of sustainable biomass supply and demand at EU and global scale.																		
273 - BISO Bioeconomy Observatory	The Bioeconomy Observatory will provide regular data for policy makers to monitor the development of the bioeconomy and accordingly to support the implementation of the EU Bioeconomy Strategy. It will address the three key pillars highlighted in the EU Bioeconomy Strategy: 1. Investments in Research, Innovation and Skills (research pillar) 2. Reinforced policy interaction and stakeholder engagement (policy pillar) 3. Enhancement of markets and competitiveness in bioeconomy (markets pillar)	JRC.H.6 DAMIEN PLAN	1.7.2.b	RTD	RTD	Thomas DODD RTD E.1	AGRI ENER ENV GROW MARE		01/01/2014 31/12/2016	2-Information systems & services (100%)		785 - RIO-IT Research & Innovation Observatory - Observatory system and infrastructure	COM-AA	5	Version V2 of the Bioeconomy Observatory website	Launch of an upgraded version of the Bioeconomy Observatory website (version V2 on-line) based on first experience with and feed-back collected on version V1	29/02/2016	Scientific information systems and databases
														7	Second set of data (and first annual report)	Second set of data and information available for dissemination (based on existing databases, plus industry surveys) including first annual report of the Bioeconomy Observatory	28/02/2015	Scientific information systems and databases
														8	Third set of data (and second annual report)	Third set of data and information available for dissemination (based on existing databases and industry surveys, plus forward-looking analyses) including second annual report of the Bioeconomy Observatory	29/02/2016	Scientific information systems and databases
2300 - ASBIO Global Biomass Assessment	EU and global assessment of biomass availability and flows with a higher level of detail over Europe. This would provide a basis to support the assessment of future scenarios for biomass supply and demand, with their sustainability and respective impacts for different sectors. Development of instruments to support the assessment of supply, demand and flows of biomass, sustainability and impacts linked with the production/use of biomass and competition between sectors for biomass resources.	JRC.H.3 Andrea CAMIA	1.7.2.b	RTD	n/a	Augustin ESCARDINO	AGRI CLIMA ENER ENV GROW SG		01/01/2015 31/12/2018	2-Information systems & services (75%) 7-Scientific, technical & policy consultancy (25%)			INS-RS	1	First assessment report / Status report	First status report including a preliminary biomass assessment over Europe based on literature review, available statistics at country level and being supported by remote sensing information. Roadmap for the further development of the assessment methodology globally as well as for supporting the assessment of future scenarios for biomass supply and demand with their sustainability and respective impacts for different sectors.	30/06/2015	Scientific and policy reports
														2	Description of the ASBIO database	Report describing the ASBIO database and its operational implementation, including applied methodologies and models for harmonization and aggregation of results across spatial levels and sectors.	31/12/2015	Scientific and policy reports
														3	ASBIO database	Initial version of the database for the overall assessment at country, regional and global scale as well as the sector based assessments.	31/12/2015	Scientific information systems and databases
														4	Second assessment report / Status report	EU and global biomass assessment based on the proposed roadmap and implementation of additional methodologies to support the assessment of future scenarios for biomass supply and demand with their sustainability and respective impacts for different sectors. Identification of possible gaps for future work.	31/12/2016	Scientific and policy reports
														5	Sector based reports	Separate reports for forestry, agriculture, waste and algae	31/12/2016	Scientific and policy reports
														6	ASBIO database	Second release of the ASBIO database	31/12/2016	Scientific information systems and databases
1.8 Transport																		
1.8.a Carry out pre-normative testing and contributing to standards development supporting the implementation of the Alternative Fuels Infrastructure (AFI) in the field of hydrogen technology infrastructure.																		
495 - MEPHYSTO Performance assessment of hydrogen storage technologies	Pre-normative experimental performance and safety assessment of hydrogen storage technologies by means of reference laboratories, at the service of DG MOVE for the implementation of the Alternative Fuels Infrastructure Directive, of DG RTD in support of the Low Carbon Energy Observatory, the European regulations on hydrogen technologies led by DG ENTR and of international and European standardisation bodies.	JRC.F.2 Pietro MORETTO	1.8.a	MOVE	n/a	TRICAS AIZPUN Antonio (MOVE C1); Peter BROERTJES (GROW G.3);	GROW RTD	IEA-HIA - IEA HIA International Energy Agency Hydrogen Implementing Agreement IPHE - Partnership for Hydrogen and Fuel Cells in the Economy ISO - International Organization for Standardization (ISO) UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE	01/01/2014 31/12/2016	4-Methods and testing (40%) 6-Reference materials and measurements (30%) 7-Scientific, technical & policy consultancy (30%)		119 - H2FC FP7 H2FC European Infrastructure project CP & CSA 472 - BESTEST Battery Energy Storage Testing for Safe Electrification of Transport 492 - FIST Fuel cell testing and international STandardization 518 - SAFHYR Safety aspects of hydrogen technologies studied by modeling and sensing tools	INS-RS	5	Underpinning scientific output	At least 1 peer-review publication per AD staff equivalent per year. The publications will focus on 1) Test validation results on high pressure components, 2) Advanced testing methodologies in both compressed and solid-state storage technologies, 3) Scientific advancement on characterisation of hydrogen solid-state storage systems.	30/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	International conference contributions	Presentation on hydrogen technologies testing activities at least at one international conference per year	31/12/2016	Oral presentations
														18	Update of the GTR of UN-ECE on hydrogen vehicles	Support to DG ENTR for updating Phase 1 and drafting Phase 2 of the UN-ECE Global Technical Regulation on hydrogen vehicles: 1) co-writing and reviewing documents for discussion at GTR meetings, 2) reporting and taking stock of relevant European and international PNR activities and achievements, 3) identifying gaps, 4) initiating and performing PNR in collaboration with R&D institutes in countries of GTR Contracting Parties.	31/12/2015	JRC contributions to policy documents
														19	Contribution to AFCC	Contribution to a conception report for the creation of the JRC Competence Centre on Alternative Fuels in Transport, in support to the Clean Power for Transport policy of DG MOVE.	31/12/2015	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1.8.b Carry out modelling activities, methods, tests and support standardisation for electro-mobility, including consumer behaviour aspects and cooperation with the US Department of Energy / Argonne National Laboratories in support of the Transatlantic Economic Council.																		
472 - BESTEST Battery Energy Storage Testing for Safe Electrification of Transport	Pre-normative experimental performance and safety evaluation of electric vehicle energy storage devices. This science-based project follows 3 main streams: (1) robust support towards e-mobility policy and international regulations; (2) harmonisation of energy storage standards for test methods and interoperability; (3) underpinning innovation and EU industry's global competitiveness through technology validation and stimulating commercialisation by enhancing safety and consumer outreach.	JRC.F.2 Lois BRETT	1.8.b	MOVE	n/a	Johan RENDERS (GROW.G.3)	GROW RTD	CEN - European Committee for Standardization CENELEC - European Committee for Electrotechnical Standardization (CENELEC) ESA-ESTEC - European Space Research and Technology Centre EUROBAT - Association of European Automotive and Industrial Battery Manufacturers UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	4-Methods and testing (100%)	JRC.F.8	INS-RS		1	REVESTEC Report 2015	Annual report describing the commissioning, testing capabilities and relevance of the new Rechargeable EV energy storage testing complex (REVESTEC) which will be constructed in 2015 and operational from 2016.	30/12/2015	Technical systems
														2	Battery testing peer-reviewed publication 2015	Submission of one peer-reviewed publication per two AD staff members in 2015 on JRC IET Interoperability EV component testing activities and results.	30/12/2015	Scientific and policy reports
														3	International conference presentation	Presentation on JRC energy storage component testing activities at at least one international conference per year	29/12/2016	Oral presentations
														4	Informal Working Group of UNECE GTR on EVS	Support to DG ENTR/D5 (co-chair) in the activities of the co-sponsors group and Informal Working Group on electric vehicle safety (EVS) set up by WP.29 with a view to develop UN Global Technical Regulation (GTR) vehicle safety. This support will cover EV safety related issues such as safety of electrical components and of Rechargeable Energy Storage Systems (REESS) and will include contribution to the preparation of the informal draft to be submitted to WP29.	28/12/2015	Scientific and policy reports
														5	UNECE GTR on EVS - Electrolyte Task Force	Scientific support and advice to DG ENTR/D5 (co-chair) of the UNECE informal group on electric vehicle safety (EVS) set up by WP.29 to develop UN Global Technical Regulation (GTR). A report will describe this support which includes participation in the activities of a Task Force on electrolyte leakage and provision S&T analysis on and alternatives to proposals made by this Task Force to the GTR Informal Group.	30/12/2015	Scientific and policy reports
														6	UNECE GTR on EVS - REESS in-use Task Force	Scientific support and advice to DG ENTR/D5 (co-chair) of the UNECE informal group on electric vehicle safety (EVS) set up by WP.29 to develop UN Global Technical Regulation (GTR). A report will describe this support which includes participation in the activities of a Task Force on energy storage system 'in-use' tests and provision of S&T analysis on, and alternatives to, proposals made by this Task Force to the GTR Informal Group.	30/12/2015	Scientific and policy reports
														7	UNECE GTR on EVS - State of charge Task Force	Scientific support and advice to DG ENTR/D5 (co-chair) of the UNECE informal group on electric vehicle safety (EVS) set up by WP.29 to develop UN Global Technical Regulation (GTR). A report will describe this support which includes participation in the activities of a Task Force on the REESS state of charge and provision of S&T analysis on, and alternatives to, proposals made by this Task Force to the GTR Informal Group.	30/12/2015	Scientific and policy reports
														8	Industry/TBC interoperability activities 2015	Annual report summarising JRC activities which involve engagement with European Battery Industry (EUROBAT) and/or the Transatlantic Business Council (TBC). The report will include references to industry concerns where JRC can provide the appropriate testing facilities and how BESTEST activities may be optimised to provide effective support to European industry to prevent regulatory and standardization barriers from impeding the broad commercialization of electric vehicles in Europe.	30/12/2015	Scientific and policy reports
														9	Support to WP of DG MOVE	To support the Annual Work program of DG MOVE according to the MoU, including sharing results from the US DOE Interoperability collaboration (pending formalisation), providing support to regulatory and European and international standardization activities and expanding test facilities and knowledge base on performance and safety assessment of batteries for e-mobility.	30/12/2016	Scientific and policy reports
														10	Collaboration with EGVI and support to WP of RTD	To negotiate a scientific and/or programme support collaboration with the European Green Vehicle Initiative Association (EGVIA) on EV Battery Testing and to formalise this in a collaborative agreement which includes a Work Programme (with objectives) for realising this support and in doing so to provide support to RTD at project and/or programme level in the operation of EGVI funding instruments.	19/12/2015	Scientific and policy reports
														11	Industry/TBC interoperability activities 2016	Annual report summarising JRC activities which involve engagement with European Battery Industry (EUROBAT) and the Transatlantic Business Council (TBC). The report will include references to industry concerns where JRC can provide the appropriate testing facilities and how BESTEST activities have been optimised to provide effective support to European industry in order to prevent regulatory and standardization barriers from impeding the broad commercialization of electric vehicles in Europe.	29/12/2016	Scientific and policy reports
														12	REVESTEC Report 2016	Annual report describing the commissioning, testing capabilities and relevance of the new Rechargeable EV energy storage testing complex (REVESTEC) which will be constructed in 2015 and operational from 2016.	30/12/2016	Technical systems
														13	Battery testing peer-reviewed publication 2016	Submission of one peer-reviewed publication per AD staff member in 2016 on JRC IET Interoperability EV component testing activities and results.	30/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														14	Contribution to SETIS	Ad-hoc written input to the Integrated Roadmap and to the update of the Technology Map.	31/12/2015	Scientific and policy reports
														15	Contribution to AFCC	Contribution to a conception report for the creation of the JRC Competence Centre on Alternative Fuels in Transport, in support to the Clean Power for Transport policy of DG MOVE.	31/12/2015	Scientific and policy reports
664 - EVIAC Electric Vehicle Interoperability Assessment and Standardisation	Pre-normative research on electric vehicles and their interoperability with charging infrastructure and smart power grids, in collaboration with ANL-APRF/DoE through information exchange, common analyses, and round-robin testing; input to the common EU/US work programme evolution and road map on Interoperability. On the basis of targeted pre-normative research results, support will be given to European Standardisation Organisations, Industry Associations, TEC and TBC.	JRC.F.8 Giorgio MARTINI	1.8.b	MOVE	n/a	STEININGER Nikolaus (GROW.G.3); RENDERS Johan (GROW.G.3)	CLIMA CNECT ENER ENV GROW RTD TRADE	ANL - Argonne National Laboratory TABC - Trans-Atlantic Business Council	01/01/2014 31/12/2016	3-Instrumentation & hardware (20%) 4-Methods and testing (60%) 7-Scientific, technical & policy consultancy (20%)	JRC.F.3	INS-RS		1	Commissioning of VELA 9	The setting up new laboratories dedicated to the full range of electrified vehicles. VELA 9 is a test cell for electromagnetic compatibility assessment of electric vehicles.	31/05/2015	Technical systems
														3	Analysis of performance of electric vehicles	Experimental analysis of the performance of electric vehicles in terms of energy efficiency and emissions (where applicable)	30/12/2015	Scientific and policy reports
														4	Electro-magnetic compatibility of e-vehicles	The new laboratory (VELA 9) will be used to investigate electromagnetic emissions of existing electric vehicle in order to assess their compatibility with other electronic equipments	31/12/2015	Scientific and policy reports
														5	Assessment of electric vehicle compatibility	Existing electric vehicle will be tested in the new JRC laboratories in order to assess their interoperability with different charging infrastructure and communication protocols	30/06/2015	Scientific and policy reports
														6	Investigation of different aspects of e-vehicles	Investigation of heat, ventilation and air conditioning systems of existing electric vehicles and their impact on range, efficiency and energy storage device. This activity is carried out in collaboration with Austrian Institute of Technology and will result in several scientific publications.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	Assessment of efficiency of charging of e-vehicles	Investigation of the impact of different ambient conditions and infrastructure on the efficiency of re-charging of electric vehicles and range.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														11	Upgrade of existing HD test facilities	Some of the existing facilities of the VELA laboratory will be upgraded in order to be able to test new heavy duty (HD) vehicles incorporating advanced technologies like hybrids or fully electric vehicles. VELA 5 (HD engine test bench) will be complemented with a hardware in the loop system (HILS) to model hybrid vehicles. VELA 7 (HD roller bench) will be upgraded in order to be able to test full advanced HD vehicle concepts with new technologies like brake energy recovery.	30/06/2015	Technical systems
														12	Joint publications with ANL	Pre-normative research on advanced interoperability aspects	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
13	Wireless charging	Investigation of potential methods and rules for international standardization of wireless charging	30/06/2016	Scientific and policy reports														
14	Contribution to AFCC	Contribution to a conception report for the creation of the JRC Competence Centre on Alternative Fuels in Transport, in support to the Clean Power for Transport policy of DG MOVE.	31/12/2015	Scientific and policy reports														

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
736 - EMM Electro-mobility Modelling	Perform integrated electro-mobility modelling activities in order to assist the design and implementation of electro-mobility/ transport related policy initiatives at European and regional/urban level. EMM will perform comprehensive multidisciplinary model-based analyses of technological, market, behavioural aspects and policy options for electro-mobility.	JRC.F.6 Panagiota DILARA	1.8.b	MOVE	n/a	Hugues Van Honacker (MOVE.C.1)	CLIMA ENER GROW	EEO - European Electro-mobility Observatory	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (20%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (80%)	JRC.F.3	664 - EVIAC Electric Vehicle Interoperability Assessment and Standardisation	INS-RS	6	Integrated JRC Electro-mobility model 2015	Second version of the JRC Electro-mobility modeling toolbox.	31/12/2015	Scientific information systems and databases
														7	Impacts of electro-mobility deployment in Europe	Report on model based assessments of impacts of electro-mobility deployment scenarios. The assessments will be performed with the JRC Integrated electro-mobility model and will address aspects such as costs, environmental impacts as well as infrastructure requirements.	30/06/2016	Scientific and policy reports
														8	Scientific Output 2015	Submit manuscripts to peer-reviewed journals on transport and electro-mobility related modelling issues to strengthen the knowledge base portfolio of the JRC and to broaden its opportunities for support to EU transport and mobility relevant policies.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														9	Electro-mobility model based policy reports	JRC integrated Electro-mobility model based reports in support of requests from policy DGs	31/12/2016	Scientific and policy reports
														10	Scientific Output 2016	Submit manuscripts to peer-reviewed journals on transport and electro-mobility related modelling issues to strengthen the knowledge base portfolio of the JRC and to broaden its opportunities for support to EU transport and mobility relevant policies.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														12	Updated KCERT	KCERT will be updated with all recent documents in the field of electrification and alternative fuels for transport, including a new database of electric vehicle and sales.	18/12/2015	Scientific information systems and databases
														13	Support MOVE in the development of AF Observatory	Participate to the coordination of the Alternative Fuels Observatory, in support to DG MOVE's project. Provide scientific guidance to the project with emphasis in data quality and validation.	31/12/2015	Scientific and policy reports
														14	Conception and first steps towards the JRC AFCC	Prepare a conception report for the creation of the JRC Competence Center on Alternative Fuels (AFCC) in Transport, in support to the Clean Power for Transport policy of DG MOVE, with the cooperation and inputs from Units F08, F03 and F02.	31/07/2015	Scientific and policy reports
1.8.c Carry out socio-economic analysis of the transport sector, including transport models, data, scenarios, and technology watch. Assess transport policy options using quantitative methodologies and tools.																		
971 - TSEA Transport sector economic analysis	Impact Assessment of Transport Policies: Assist DG MOVE in the IA accompanying forthcoming policy initiatives on the related economic cost/benefit analysis. Evaluate the needs for IA capabilities on a general basis and provide methodological suggestions; if necessary full IA involvement with assistance in carrying out studies on economic and/or technological issues. The activity provides analyses of economic issues in transport using quantitative methodologies and tools.	JRC.J.1 Panayotis CHRISTIDIS	1.8.c	MOVE	n/a	Maria Cristina Mohora (MOVE.A.3)	CLIMA REGIO		01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	2	Annual Report 2015	Annual Report 2015	31/12/2015	JRC Technical reports
														3	Annual Report 2016	Annual Report 2016	31/12/2016	JRC Technical reports
972 - METRIC Mapping European regional Transport Research and Innovation Capacities	The project will map regional transport innovation capacity and identify the competitive advantages of the identified regions (e.g. clusters for car manufacturing and parts, aeronautic, etc.). Based on their strengths, guidelines for the preparation of regional innovation roadmaps (strategy plans) focusing on the transport sector will be developed. METRIC will also explore the regional innovation potential and make recommendations on how to support weak regions.	JRC.J.1 Panayotis CHRISTIDIS	1.8.c	MOVE RTD	RTD	Ioanna Adamescu (RTD.H1)			01/10/2013 31/05/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	5	Regional strategy plans and recommendations	Regional strategy plans and recommendations	31/05/2015	JRC Technical reports
2027 - Regional Transport RegioTrans: congestion and railways accessibility indicators and modelling	Support to DG REGIO on congestion indicators, railways accessibility indicators and modelling (interlinking TRANSTOOLS and RHOMOLO). This project will provide key material for the elaboration of the next 7th EU Cohesion Report to be prepared by DG REGIO. This AA focuses on the role of Transport in improving regional competitiveness and specialization, and will be carried out in connection with RHOMOLO, LUISA and other DG REGIO-oriented JRC analytical instruments	JRC.J.1 Panayotis CHRISTIDIS	1.8.c	REGIO	REGIO	Lewis Dijkstra, REGIO.B.1	MOVE		01/04/2015 31/03/2018	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	1	Annual Report 2015	Annual Report 2015	31/12/2015	JRC Technical reports
														2	Annual Report 2016	Annual Report 2016	31/12/2016	JRC Technical reports
2028 - TREntaMo Europe wide Transport model	The purpose is to help RTD to set up a modelling capacity on (open source) transport models, technology watch, data and scenarios. JRC will help develop new transport system models and associated databases, as well as to alternative scenarios for the next 50 years. In particular, the JRC will provide technical specifications, evaluation, quality control as well as the validation of the results in the various development stages, both in terms of data collection and model development.	JRC.J.1 Panayotis CHRISTIDIS	1.8.c	RTD	RTD	A DAMIANI (RTD.H.1) A. Kourtesis (RTD.H.1) in collaboration with MOVE.A.3	MOVE REGIO		01/04/2015 31/03/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	1	Annual Report 2015	Annual Report 2015	31/12/2015	JRC contributions to policy documents
														2	Annual Report 2016	Annual Report 2016	31/12/2016	JRC contributions to policy documents
1.8.d Provide technical support for implementing of the Digital tachograph. Assess options for an on-board platform of intelligent transport systems, including security and privacy aspects.																		
565 - ITS-DT Intelligent Transport System and Digital Tachograph	Support the enforcement of the social legislation for road transport (i.e. the "Digital Tachograph Legislation") and foster the emergence of Intelligent Transport System (ITS) applications with a focus on trust, privacy, data protection, e-identity and security aspects (i.e. studies on a single EU-professional driver card, Car-to-Car communication integrity and confidentiality, ITS vehicle on-board-platform, smart cars in smart cities).	JRC.G.6 Vincent MAHIEU	1.8.d	MOVE	n/a	Christos ECONOMOEU (Deputy HoU - MOVE.D.3)	CNECT GROW	ACEA - European Automobile Manufacturers Association	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			INS-RS	2	Car-to-Car / Infrastructure communication security	In collaboration with DG CNECT and EU automotive industry, design and assessment of cryptographic technical solutions guaranteeing the integrity/authenticity of sensitive car-to-car and car-to-infrastructure communications, for ITS Cooperative Awareness applications (e.g. lane departure warning, collision avoidance, smart traffic lights), harmonization of security policies between EU & US.	15/12/2015	JRC Technical reports
														3	Smart Cars in Smart Cities	A report on identified solutions to protect the data and the privacy of the Citizens using smart cars in smart cities (possibly electric or hybrid with charging option). Starting from selected scenarios (e-charging, renting, co-driving, location services, cooperative systems, car sharing), and using Privacy Impact Assessments techniques, identification of threats and vulnerabilities regarding privacy/data protection and possible countermeasures.	15/12/2015	JRC Technical reports
														4	Interfacing the Digital Tachograph with ITS	Definition, assessment and possible development of ITS DEMO applications exploiting the new generation of the Digital Tachograph, interacting with other vehicle platforms/networks (CAN), to foster the emergence of the ITS market.	15/12/2016	JRC Technical reports
														5	DSRC interface for EU enforcers - Proof of Concept	The new tachograph will be equipped with a remote control interface based on DSRC. JRC intends to demonstrate with this "proof of concept" that a basic communication equipment is feasible at low cost, promoting in this way an early adoption of equipment by the EU enforcers.	15/12/2016	JRC Technical reports
														3	2015 ERCA and INTEROPERABILITY services	2015 intermediate AA report on the support and maintenance of the ERCA operations. This includes: • MS Policy review and audit monitoring • Root key maintenance operations • Key certification operations and distribution • Security management activities • Configuration Management • Support and Maintenance of the JRC DT web site • Digital Tachograph Help Desk • Testing: interoperability tests, interoperability certifications • Support and Monitoring of the field tests.	30/06/2015	JRC Technical reports
576 - New DT New Digital Tachograph	Support to DG MOVE, in accordance with the relevant AA (MOVE/D3/2013-251-1-SI2.652828), in the elaboration of the implementing legislation following the adoption of the new tachograph regulation 165/2014, and in particular in the timely preparation of the draft technical specifications of the future smart tachograph. It also includes the continuation of JRC services to MSs, AETR Countries and Industry as Root Certification Authority and single EU Interoperability certification laboratory.	JRC.G.6 Vincent MAHIEU	1.8.d	MOVE	MOVE	Christos ECONOMOEU (Deputy HoU - MOVE.D.3)	ACEA - European Automobile Manufacturers Association EP - European Parliament MS EU - Member states EU UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE		01/07/2013 30/12/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)		565 - ITS-DT Intelligent Transport System and Digital Tachograph 577 - DITILAB Digital Tachograph Interoperability Certifications	COM-AA	4	2015 Revision of the DT Technical annexes	2015 technical reports for DG MOVE regarding the ITS and Security aspects of the new Tachograph, and the subsequent implementing acts proposal drafting. Indeed, the current tachograph Regulation 3821/85, with its annexes and appendices constitutes a complex and voluminous collection of 300 pages. Such a level of detail is necessary to precisely define interoperable and harmonized tachographs, fully operational and reliable in 27 EU Member States and 24 AETR Contracting Parties.	30/06/2015	Scientific and policy reports
														5	2016 ERCA and INTEROPERABILITY services	2016 intermediate AA report on the support and maintenance of the ERCA operations. This includes: • MS Policy review and audit monitoring • Root key maintenance operations • Key certification operations and distribution • Security management activities • Configuration Management • Support and Maintenance of the JRC DT web site • Digital Tachograph Help Desk • Testing: interoperability tests, interoperability certifications • Support and Monitoring of the field tests.	30/06/2016	JRC Technical reports
														6	Design of a new ERCA infrastructure	Specifications of a new ERCA signing infrastructure, and start of the development of the new ERCA infrastructure. Report on support to DG MOVE on the management of the transition-migration, to guarantee a full interoperability/compatibility of the new equipments (Vehicle Units and Cards) , with the existing equipment already deployed.	15/12/2016	JRC Technical reports
1760 - DITILAB 2014 DIGITAL TACHOGRAPH Interoperability Certification 2014	In the context of the JRC support to the "Digital Tachograph (DT) legislation", the JRC has been appointed as the single EU laboratory for Interoperability Certification (IC). IC is required for type approving of all new DT cards or Vehicle Units produced by the DT manufacturers and card personalisers. The JRC provides these industries with testing and certification services. This project covers all TPWs for interoperability certifications for 2014.	JRC.G.6 Michel CHIARAMELLO	1.8.d	MOVE	MOVE	Christos ECONOMOEU (Deputy HoU - MOVE.D.3)			01/01/2014 30/06/2015	4-Methods and testing (100%)		576 - New DT New Digital Tachograph 565 - ITS-DT Intelligent Transport System and Digital Tachograph	COM-TW	1	test certificate	test certificate	30/03/2015	JRC Technical reports

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2250 - DITILAB 2015 Digital Tachograph Interoperability Certification 2015	In the context of the JRC support to the "Digital Tachograph (DT) legislation", the JRC has been appointed as the single EU laboratory for Interoperability Certification (IC). IC is required for type approving of all new DT cards or Vehicle Units produced by the DT manufacturers and card personalisers. The JRC provides these industries with testing and certification services. This project covers all TPWs for interoperability certifications for 2015.	JRC.G.6 Michel CHIARAMELLO	1.8.d	MOVE	MOVE	Christos ECONDMOU (Deputy HOU - MOVE.D.3)			01/01/2015 30/06/2016	4-Methods and testing (100%)		576 - New DT New Digital Tachograph 565 - ITS-DT Intelligent Transport System and Digital Tachograph	COM-TW	1	Annual report 2015 of laboratory activity	The annual report will summarize the activity of the laboratory. After each certification testing a certification report will be emitted. The annual report will do a synthesis of these activities and of the development of the laboratory.	15/12/2015	JRC Technical reports
1.8.e Develop electronic tools in support of quality inland water transport across Europe.																		
2168 - eI2WT Electronic Instruments in support of Inland Waterways Transport	Technical support for the characterisation and contribution to the assessment of impacts of various options on application of electronic instruments in inland waterway transport (IWT). Support to technical follow-up of the Horizon 2020 call H2020-MG-2014_TwoStages for the promotion of innovation in the IWT sector. The project lever on the JRC Digital Tachograph experience.	JRC.G.6 Fivos ANDRITSOS	1.8.e	MOVE	MOVE	Dimitrios THEOLOGITIS (HoU - MOVE.B.3)			01/01/2015 15/12/2016	7-Scientific, technical & policy consultancy (100%)		565 - ITS-DT Intelligent Transport System and Digital Tachograph	COM-AA	1	Terms of Reference	Problem definition and generic requirements. Assistance to DG MOVE in carrying out the assessment of impacts of the harmonisation of the content of the SRB (Service Record Book) and other lookbooks at the EU level, and definition of Deliverable 2 content, collected in an inception report.	15/03/2015	JRC Technical reports
														2	eSRB and e-logbook system requirements & outline	System requirements & outline including the identification of relevant options and assessment of their impacts compared to the baseline scenario. In particular: Functional requirements, Technical requirements, Security requirements, Implementation and organisational issues, System outline and architecture. The report of this stage will include a Cost and benefits analysis.	15/10/2015	JRC Technical reports
														3	Final Report of AA	Final report as requested by DG Move with the results of the two workshops organized by the JRC and the results of the "eSRB and e-logbook system requirements & outline" Work-Package 3	15/08/2016	JRC Technical reports
1.8.f Develop and provide tools and databases on EU-wide multimodal accidents and incidents. Harmonise transport data with spatial and environmental information. Develop, integrate and disseminate data visualisation and exploration tools for transport safety analysis.																		
193 - ASCOS Aviation Safety and certification of new Operations and Systems	To demonstrate the applicability of a new certification approach a set of tools will be developed for the main operational issues defined in the European Aviation Safety plan (EASP) framework. These tools will use safety data extracted from an ECCAIRS compatible repository (ECR, ADREP or national occurrence databases). Ultimately the tools will provide an overview of the past evolution of the safety performance in the specific areas of concern.	JRC.G.3 Wietse POST	1.8.f	MOVE	RTD	KYRIAKOPOULOS Michail (RTD.H.3)			01/07/2012 30/06/2015	1-Foresight studies & techniques (25%) 2-Information systems & services (75%)		298 - MULTRA Multimodal Transport Safety	COM-IA	1	Final report	This is the overall final report of the ASCOS project including references to the specific JRC tasks related to the ATCSM tool development, validation and dissemination.	01/08/2015	JRC Technical reports
298 - MULTRA Multimodal Transport Safety	Essential for preventing transport accidents is the ability to collect, share and analyse safety information. In this context this project provides the ECCAIRS platform on which, through related competitive projects and in cooperation with the transport agencies, various transport dependent data collection systems are built as foreseen in EU legislation. Having a common approach for the different transport domains has clear advantages in terms of costs, efficiency and effectiveness.	JRC.G.3 Wietse POST	1.8.f	MOVE	n/a	C. Berg (Maritime Safety); F. Cornelis (Aviation Safety); S. Schmidt (DG MOVE Road Safety); S. Prout (DG MOVE Rail)	ESTAT		01/01/2014 31/12/2016	2-Information systems & services (80%) 7-Scientific, technical & policy consultancy (10%) 9-Education & training (10%)		193 - ASCOS Aviation Safety and certification of new Operations and Systems 266 - ECCAIRS 16 European Coordination Centre for Accident and Incident Reporting Systems 570 - ECCAIRS-17 European Coordination Centre for Accident and Incident Reporting Systems 574 - EMCIP-3 European Marine Casualty Information Platform - Support to EMSA nr. 3 1002 - ERAIL 4 European Railway Accident	INS-RS	4	ECCAIRS Common Framework 2015	The ECCAIRS Common Framework is a software platform on which, with a minimal effort, extensions can be build which then provide an efficient and effective information system inheriting all the functions of the common framework. This deliverable is about coordinating the maintenance and planning future developments.	16/12/2015	Scientific information systems and databases
														5	ECCAIRS Portal Framework 2015	The ECCAIRS Portal Framework is a software platform on which, with a minimal effort, support portals for transport communities can be build which then provide an efficient and effective information system that can be used by domain networks to submit and share information. This deliverable is about coordinating the maintenance and planning future developments.	31/12/2015	Scientific information systems and databases
														6	ECCAIRS for roads (prototype)	The study on a road version of ECCAIRS, as performed during 2014, is taken as starting point for the development of a prototype system which can be evaluated by DG MOVE.	31/12/2015	Technical systems
														7	ECCAIRS Common Framework 2016	The ECCAIRS Common Framework is a software platform on which, with a minimal effort, extensions can be build which then provide an efficient and effective information system inheriting all the functions of the common framework. This deliverable is about coordinating the maintenance and planning future developments.	31/12/2016	Scientific information systems and databases
														8	ECCAIRS Portal Framework 2016	The ECCAIRS Portal Framework is a software platform on which, with a minimal effort, support portals for transport communities can be build which then provide an efficient and effective information system that can be used by domain networks to submit and share information. This deliverable is about coordinating the maintenance and planning future developments.	31/12/2016	Scientific information systems and databases
570 - ECCAIRS-17 European Coordination Centre for Accident and Incident Reporting Systems	This project designs the aviation transport specific capabilities and deploys the European Central Repository (ECR) system as as foreseen in EU Regulation 376/2014, related to the collection, usage and dissemination of aviation safety data. The ECR is implemented on top of the ECCAIRS Common Framework which is maintained under the institutional MULTRA project.	JRC.G.3 Wietse POST	1.8.f	MOVE	MOVE	Delphine Micheaux Naudet; Olivier Ferrante (MOVE.E.3)	ESTAT		01/01/2014 31/12/2016	2-Information systems & services (80%) 7-Scientific, technical & policy consultancy (10%) 9-Education & training (10%)	JRC.B.7	298 - MULTRA Multimodal Transport Safety	COM-AA	2	Interim report 2015	The interim report describes the results obtained in terms of running the European Central Repository (ECR) and the ECCAIRS web portal, maintaining the ECR and web portal software and implementing the requested new functionality as established in the beginning of the first year.	31/12/2015	JRC Technical reports
														3	Final report 2014-2016	The final report describes the results obtained in the third and last year in terms of running the European Central Repository (ECR) and the ECCAIRS web portal, maintaining the ECR and web portal software and implementing the requested new functionality as established in the beginning of the last year. In addition an overview of the main results of all three years is provided.	31/12/2016	JRC Technical reports
														4	ECCAIRS for aviation occurrences	This deliverable comprises a software (providing accident/incident reporting), a web portal for the community and a European Central Repository for accident/incident reports. All three elements are for the aviation domain and to be used by competent national authorities, European entities and international entities.	30/12/2015	Scientific information systems and databases
														5	ECCAIRS for aviation safety recommendations	This deliverable comprises a software (providing safety recommendation reporting) and a European Central Repository for safety recommendations. Both elements are for the aviation domain and to be used by competent national authorities, European entities and international entities.	30/12/2015	Scientific information systems and databases
														6	New functions required by Regulation 376/2014	In November 2015 a set of new functions will need to be operational in the European Central Repository following the contents of the new Regulation 376/2014. This new functionality comprises the support of mandatory attributes, storage of analysis information and the production of standardised reports	30/11/2015	Technical systems
														7	Steering Committee Meetings (3)	Every year all competent authorities of EU Member States, representatives of the DG MOVE, EASA and Eurocontrol and representatives of international organisations like ICAO and non-EU national authorities using the JRC products and services meet in a two day meeting. Normally over 60 persons participate. This meeting will take place in 2014, 2015 and 2016.	30/09/2016	Scientific information systems and databases
574 - EMCIP-3 European Marine Casualty Information Platform - Support to EMSA nr. 3	This project implements the European Marine Casualty Information Platform (EMCIP) system as requested by the European Maritime Safety Agency in the context of Directive 2009/18/EC on the investigation of accidents in the maritime transport sector. EMCIP provides the means to store data and information related to marine casualties and occupational accidents involving all types of ships. EMCIP is implemented by the JRC on top of the transport mode independent ECCAIRS Common Framework.	JRC.G.3 Wietse POST	1.8.f	MOVE	MOVE	C. Berg (MOVE.D.2)	ESTAT		01/01/2014 31/12/2016	2-Information systems & services (100%)	JRC.B.7	298 - MULTRA Multimodal Transport Safety	COM-TW	1	ECCAIRS for maritime casualties (EMCIP)	This deliverable comprises a software (providing casualty reporting), a web portal for the EMCIP community and a European Central Repository for casualty reports (EMCIP). All three elements are for the maritime domain and to be used by competent national entities and EMSA.	30/12/2015	Scientific information systems and databases
														3	Interim report 2015	The interim report describes the results obtained in the second year in terms of running the production environment and the EMCIP web portal, maintaining the EMCIP system and web portal software and implementing the requested new functionality as established in the beginning of the second year.	31/12/2015	JRC Technical reports
														4	Final report 2014-2016	The final report describes the results obtained in the last year in terms of running the EMCIP production environment and the EMCIP web portal, maintaining the EMCIP system and web portal software and implementing the requested new functionality as established in the beginning of the last year. In addition an overview is given of all results obtained during the three year period.	31/12/2016	JRC Technical reports
1002 - ERAIL 4 European Railway Accident Information Links - Support to ERA nr. 4	This project implements the European Railway Accident Information Links (ERAIL) system as requested by the European Railways Agency (ERA) in the context of the Railway Safety Directive 2004/49/EC and the Agency Regulation 881/2004. ERAIL collects and encodes the accident investigation reports sent by the investigation bodies and the biannual safety reports sent by the authorities. ERAIL is implemented by the JRC on top of the transport mode independent ECCAIRS Common Framework.	JRC.G.3 Marco OOMS	1.8.f	MOVE	MOVE	Sian PROUT (MOVE.B.2)			01/07/2014 30/06/2015	2-Information systems & services (100%)		298 - MULTRA Multimodal Transport Safety 963 - ERAIL 3 European Railway Accident Information Links - Support to ERA nr. 3	COM-TW	1	ECCAIRS for railway accidents (ERAIL)	This deliverable comprises a software (providing accident reporting) and a web portal for the ERAIL community. Both elements are for the railways domain and to be used by competent national entities and the European Railways Agency.	30/06/2015	Scientific information systems and databases
														2	Final report ERAIL 4	The final report describes the results obtained in the last year in terms of maintaining the ERAIL system and web portal software and implementing the requested new functionality. In addition an overview is given of all results obtained during the three year period.	30/06/2015	JRC Technical reports
														3	Study into the transfer of ERAIL-CMS to ERA	The ERAIL frontend, developed under the Umbraco Content Management System will need to be transferred into the Sharepoint environment of the European Railways Agency. This study report will present the strategy and technical consequences of this choice.	30/06/2015	JRC Technical reports
2081 - ERAIL 5 European Railway Accident Information Links - Support to ERA nr. 5	This project implements the European Railway Accident Information Links (ERAIL) system as requested by the European Railways Agency (ERA) in the context of the Railway Safety Directive 2004/49/EC and the Agency Regulation 881/2004. ERAIL collects and encodes the accident investigation reports sent by the investigation bodies and the biannual safety reports sent by the authorities. ERAIL is implemented by the JRC on top of the transport mode independent ECCAIRS Common Framework.	JRC.G.3 Marco OOMS	1.8.f	MOVE	MOVE	Sian PROUT (MOVE.B.2)			01/07/2015 30/06/2016	2-Information systems & services (100%)		1002 - ERAIL 4 European Railway Accident Information Links - Support to ERA nr. 4 298 - MULTRA Multimodal Transport Safety	COM-TW	1	Interim report	The interim report describes the results obtained in the first year in terms of maintaining the ERAIL system and web portal software and implementing the requested new functionality.	30/11/2015	JRC Technical reports
														2	ECCAIRS for railway accidents (ERAIL)	This deliverable comprises a software (providing accident reporting) and a web portal for the ERAIL community. Both elements are for the railways domain and to be used by competent national entities and the European Railways Agency.	30/06/2016	Scientific information systems and databases
														3	Final report ERAIL 5	The final report describes the results obtained in the last year in terms of maintaining the ERAIL system and web portal software and implementing the requested new functionality. In addition an overview is given of all results obtained during the three year period.	30/06/2016	JRC Technical reports
1.8.g Carry out performance testing and analysis of aviation security technologies, including specifications and standards for detecting and screening airport equipment.																		
618 - AVSEC-std Aviation security - standards	Provision of scientific technical support regarding aviation security screening equipment for the Comitology process laid down in Regulation 300(2008) and implemented in Regulation 185(2010). This project includes research and development work regarding detection requirements standards and guidance, and their implementation for screening equipment at airport check-points.	JRC.D.3 David ANDERSON	1.8.g	MOVE	n/a	STROHSCHNEIDER Michaela (MOVE.A.2)	GROW HOME	ECAC - European Civil Aviation Conference EDA - European Defense Agency ICAO - International Civil Aviation Organization (ICAO) MS Border Sec - MS Border and other Security Authorities Tech Serv - Member States and	01/01/2014 31/12/2016	2-Information systems & services (10%) 4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (40%)		620 - AVSEC-rt Aviation security - certification 622 - (CBRN)E-std CBRNE - standards for E threats	INS-RS				31/01/2015	Validated methods, reference methods and measurements
																	31/12/2015	JRC contributions to policy documents
																	31/12/2016	JRC contributions to policy documents

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2.A Connected Digital Single Market																				
2.1 Digital Economy and Society																				
2.1.a Carry out socio-technical analyses to support the development of policy options in the areas of cyber-security, cyber risks to critical infrastructures, security and privacy issues related to emerging ICT technologies, and to strengthen the information base in the field of counterfeiting.																				
2760 - C3S Crypto-Currency Cyber-Security	Crypto-currencies are raising stars among the payment schemes of the digital market. Their completely un-regulated and fully distributed nature is subject of increasing concerns within the bank authorities. The project studies the cyber-security issues and threats of the current crypto-currency schemes, the sociological drivers at the basis of their popularity, and policy options to enhance the protection of the citizen's right in the digital market economy.	JRC.G.6 Igor NAI FOVINO	2.1.a	CNECT	n/a	Pierre CHASTANET DG CNECT - H4	CNECT ECFIN TAXUD	ECB - European Central Bank	01/01/2015 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)	561 - TSI Trust, Security and Identity 559 - P2TIC Prevention and Prosecution techniques for Identity Cybercrime	INS-RS			1	Virtual & Crypto Currency Survey & State of the Art	This activity aims at performing a survey on the existing virtual currency systems, on the targeted digital communities and on the underlying ICT infrastructures and principles.	15/06/2015	Scientific and policy reports	
															2	Cyber-security analysis of current architectures	This activity will produce an analysis of the cyber-security level guaranteed by the most used crypto-currency infrastructures.	15/09/2015	Scientific and policy reports	
															3	Crypto-currency Test-bed	Based on the results of D1 and D2, a set of crypto-currency infrastructures will be selected and a test-bed allowing to actively participate to the transactions will be set-up.	15/12/2015	Scientific and policy reports	
															4	Crypto-Currency Operational tests	This activity foresees the on-field analysis of crypto-currency transactions by actively participating in the market (e.g. mining, participation to pools, transactions). The result will be summarised in a dedicated report. Where possible, an infrastructure simulating the entire ecosystem will be implemented, to study the possibility of implementing speculation strategies similar to those of the traditional physical market (e.g. dumping)	15/06/2016	Scientific and policy reports	
															5	Privacy and vulnerability issues	The infrastructure created through D3 and D4 will be used to search for new and unknown vulnerabilities of the underlying ICT infrastructure of crypto-currencies as well as of the "interfaces" with the real market.	15/12/2016	Scientific and policy reports	
															6	Societal Drivers of Crypto-currencies	Study of the societal drivers of crypto-currencies, allowing to identify the reasons of their raising popularity and the features that the consumer find more appealing with respect to the traditional trading system.	15/06/2017	Scientific and policy reports	
															7	Regulated Crypto-Currency Requirements	This activity aims at identifying, in collaboration with the involved DGs and with G1, the requirements that a new crypto-currency system should have to mix together the featured desired by the consumer with the need for market regulation, traceability, security and accountability of the bank regulators.	15/06/2017	Scientific and policy reports	
															8	Regulated Crypto-Currency Proof of Concept	This activity will leverage on all the previous deliverables to develop a first proof of concept of crypto-currency system satisfying the requirements identified in D7.	15/12/2017	Scientific and policy reports	
2.1.b Carry out socio-economic and technical analyses relating to: the drivers and consequences of innovation in the ICT sector and enabled by ICT; the impact of digital technology on growth, jobs and consumer welfare in the EU, with a particular focus on policy priorities related to the EU digital single market and the digital agenda for Europe: e-commerce, copyright in digital media and privacy regulation; policies promoting greater access to and use of ICT; research to improve the																				
69 - PREDICT 2 Industrial Analysis of the European ICT sector, its innovation and R&D activities	The EU 2020 strategy (Digital Agenda for Europe flagship) proposes a headline target of 3% of the EU's GDP to be invested in R&D. In order to monitor the progress towards those policy targets, DG CNECT has entrusted JRC-IPTS with the investigation of worldwide ICT R&D. The PREDICT2 (Multiannual Administrative Arrangement) collects and analyses official data on private ICT R&D expenditures in the EU and other major world economies and also estimates public funding of ICT R&D in the EU.	JRC.J.3 GIUDITTA DE PRATO	2.1.b	CNECT	CNECT	Martin Ulbrich, CNECT/F4			01/05/2011 30/06/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA			2	Deliverable 1.1b and 1.2b	Web site update of R&D data set and Policy results	29/06/2015	Scientific information systems and databases
																3	Deliverable 3.3	The output of a macro-economic model (including datasets and computer code files), which will quantify the economic impact of R&D expenditures in the ICT sector and which will be capable of simulating ICT R&D policy scenarios.	29/06/2015	JRC Technical reports
145 - DERP Economic Analysis of the European Digital Economy	In support to the DAE flagship, DG CNECT has entrusted IPTS with the investigation of the economic impacts of ICT production & use and of its ICT-related policies under a this "Digital Economy Research Program". DERP aims at measuring the Digital Economy, with a special emphasis on the Digital Single Market and in 3 specific areas: cross-border e-commerce; copyright in digital media; ICT impacts on Jobs & Growth. (AA extension until dec 2015)	JRC.J.3 Bertin MARTENS	2.1.b	CNECT	CNECT	MARTIN ULBRICH CNECT/F4			21/12/2011 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA			2	D3e Eco Impact Privacy Rights	A report on the estimation (empirical) of the economic impact of one possible change in the regulatory framework regarding privacy rights	19/06/2015	JRC Technical reports
																3	D2f labour component for innovation	A report on the Analysis of the labour component in the generation and usage of technological innovation	31/01/2016	JRC Technical reports
221 - MAFEIP Monitoring & Assessment Framework for the European Innovation Partnership on Active & Healthy Ageing	IPTS is defining a set of process and outcome indicators to monitor the innovation potential of EU27 initiatives in the area of active and healthy ageing. The aim is to analyse data to monitor progress and define methods for assessing the impact of the EIP on AHA on increasing the average healthy lifespans of Europeans by 2 years by 2020, promoting quality of life, more sustainable health systems and innovation and growth.	JRC.J.3 Fabienne ABADIE	2.1.b	CNECT	CNECT	Loukianos Gatzoulis, DG CONNECT H.2	SANTE		07/09/2012 06/11/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA			3	D6.3 Final Framework with collected data	Final version of the Monitoring Framework including all data collected during the exercise, provided as Excel Toolkit	15/10/2015	JRC Technical reports
852 - DYSTECs Dynamics and Structure of Complex Sensor Networks	Computational capacity and data generation rates are changing the way we collate and combine data. Data from wireless sensor networks will play a fundamental role in developing the EU's ICT programme in many industrial and social areas. Having already focused on identifying candidate mathematical methods capable of extracting key information from networked data sets; in the next two years the scope of DYSTECs is to develop a prototype data analysis platform for distributed data-gathering systems	JRC.G.4 EUGENIO GERARDO GUTIERREZ TENREIRO	2.1.b	CNECT	n/a	Peter Friess	GROW		01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-UR			2	Network Segmentation and Spanning Sets	Having shown how spectral decomposition can be used to detect the emergence of information indicative of collective changes in sensor data, the next step is to devise algorithms to optimise the deployment of finite sets of sensors over a wide area. We will further explore how the algebraic measures of networks can be used to optimise sensor deployment for minimum-sized observability sets and network segmentation. Possible application to structural diagnostic of wide-area physical infrastructure	15/12/2015	JRC Technical reports
																3	Topological Data Analysis	How to represent cloud-point data as topological objects whose invariants can be used to classify and identify information from data so that it is insensitive to the magnitude of the signals. An example will be the evaluation of equivalent phenomena obtained from differing amplitude-range signals. For example pronounced language, if sufficiently audible, is robust to fluctuations in volume and background noise. Possible applications to identify structural failure or tampering.	15/12/2016	JRC Technical reports
1691 - EURIPIDIS European Innovation Policies for the Digital Shift (EURIPIDIS)	Provision of evidence-based support to the policies, instruments and measurement needs of CNECT for enhancing ICT Innovation in Europe, mainly within the realm of the Digital Agenda for Europe and of the ICT priority of H2020, and with a particular attention to the improvement of	JRC.J.3 Paul DESRUELLE	2.1.b	CNECT	CNECT	Viorel Peca, Elija Laineoja DG CONNECT F.2			20/08/2013 19/08/2016	7-Scientific, technical & policy consultancy (100%)			COM-AA			2	Measurement of ICT Innovation	The measurement of ICT Innovation in Europe and at global level	31/12/2015	Scientific and policy reports
																3	Role of FP7/H2020 for ICT Innovation	Assessing the role of FP7/H2020 for ICT Innovation: Analysis of ICT Innovation by ICT-producing and ICT - using firms and its relationship with main drivers and barriers	31/12/2015	Scientific and policy reports
																4	Policy recommendations	A report providing the public policies recommendations directly relevant to ICT Innovation in the EU	31/12/2016	Scientific and policy reports
1736 - SIMPHS-3 Strategic Intelligence Monitor on Personal Health Systems	Strategic Intelligent Monitor on Personal Health Systems (SIMPHS3). SIMPHS3 will investigate successful initiatives in integrated care and independent living to identify best cases and develop guidelines and best practices for further deployment in Europe.	JRC.J.3 Fabienne ABADIE	2.1.b	CNECT	CNECT	Loukianos Gatzoulis DG CONNECT			13/12/2013 12/06/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA			3	Deliverable 2.6	D2.6 Final report on guidelines	30/04/2015	Scientific and policy reports
																4	Deliverable 2.7	D2.7 Report on Health ICT Integration Indicator	30/04/2015	Scientific and policy reports
2044 - PREDICT-3 European ICT Poles of Excellence (NEW PREDICT)	a) ICT R&D analysis: providing data on private & public ICT R&D expenditures (EU+competitors), improving interaction with ESTAT for consistency of country level data, investigating to extend the into intangibles other than R&D (possibly applying the PREDICT macroeconomic model to the evaluation of alternative policy initiatives). b) ICT industry analysis: beyond official statistics, exploiting microlevel analysis based on different data sources to address different sector breakdowns in line with	JRC.J.3 GIUDITTA DE PRATO	2.1.b	CNECT	CNECT	Christophe Doin, Connect F.4			01/01/2016 31/12/2018	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	n/a	n/a	n/a	n/a	n/a	n/a	
																				5
2701 - LAB 1.0 Policy Laboratory	Umbrella project for policy lab development and testing. It includes the networking with and learning from the lab community (including through the organisation of a workshop/conference), the identification and launch of innovative pilot projects using and combining different tools (e.g. building on design, prototyping, citizens engagement, etc.) with interested Commission Services.	JRC.DDG.02 Fabiana SCAPOLO	2.1.b	CNECT	n/a	TIMMERS Paul (CNECT H)	AGRI CLIMA EMPL		01/01/2015 31/12/2015	7-Scientific, technical & policy consultancy (100%)			INS-RS	1	Mutual learning from the LAB Community	The report will compile different methods and techniques used for innovative policy making processes	31/12/2015	Scientific and policy reports		
2922 - DSM-Green Digital Single Market	CONNECT is launching two surveys of consumers and enterprises together with MARKT and the Consumer Directorate/SANCO to capture specific aspects of the Digital Single Market (DSM). The JRC will support CONNECT to analyse the survey data and combine these with data from other sources in order to produce robust quantitative estimates of the benefits of the DSM and/or specific aspects of the DSM.	JRC.J.3 Bertin MARTENS	2.1.b	CNECT	CNECT	Martin Ulbrich, DG Connect			01/01/2015 31/08/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	1	Estimates of specific aspects of the DSM	quantitative estimates of the benefits of the DSM and/or specific aspects of the DSM.	30/08/2014	JRC Technical reports		

JRC WORK PROGRAMME 2015 - 2016																																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category																
2.1.c Develop IT tools and methodologies for the analysis of the radio spectrum inventory, establishment of a radio spectrum laboratory for reference measurements, and further development of technical expertise (to support EU radio-spectrum policy). Support EU regions and Member States in developing better digital growth strategies co-funded by EU cohesion policy.																																		
219 - S3P - CONNECT S3P - Digital Agenda	The aim of this project is to task the Smart Specialization Platform (S3p) to provide support to regional policy makers to successfully develop and implement ICT-based innovation in their smart specialisation strategies and related Operational Programmes. More specifically, the S3 Platform will elaborate and make available a methodological toolbox and policy-support tools to regional authorities to help them develop a thorough understanding of the digital growth potential of the DAE.	JRC.J.2 Alessandro RAINOLDI	2.1.c	CNECT	REGIO	Hervé Dupuy, DG Connect			14/02/2013 13/02/2016	7-Scientific, technical & policy consultancy (100%)		663 - S3P S3P Smart specialisation platform	COM-AA	2	Final Report	Final Report on activities up to Month 36	16/02/2016	JRC Technical reports																
853 - CORSA-Comms Radio Spectrum Reference Laboratory	The reference laboratory for radio spectrum policy support will include state of the art spectrum monitoring tools, innovative radio technologies for dynamic spectrum sharing, analysis tools and reference implementation of test scenarios relevant to new policy proposals and draft standards for efficient use of radio spectrum. The reference laboratory will be used for research and evaluation of regulatory proposals regarding the coexistence of wireless communication services in 400MHz-6GHz band	JRC.G.5 Pravir CHAWDHRY	2.1.c	CNECT	n/a	GEISS Andreas		CEPT - Conference of European Posts and Telecommunications Administrations (CEPT) ETSI - European Telecommunications Standards Institute (ETSI)	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (35%) 6-Reference materials and measurements (35%) 7-Scientific, technical & policy consultancy (30%)				INS-RS	2	A testbed for spectrum sharing in TV white space	This test-bed will integrate emerging technical standards on efficient use of the radio spectrum in the TV bands (470-790MHz), including an implementation of ECC specifications for TV White Spaces database, and conformance tests for White Space devices based on the ETSI standard. The test-bed will be made available to research projects in H2020 to demonstrate new techniques for dynamic spectrum sharing and to allow testing of future regulatory proposals on spectrum sharing.	15/03/2015	Technical systems															
															3	Tests on interference between wireless services	Report on interference tests to be carried out in alignment with the spectrum policy proposals from DG CNECT or other stakeholders.	31/03/2015	Scientific and policy reports															
															4	Spectrum monitoring reference procedures	Spectrum monitoring reference procedures for the EU based on the best practices in Member States.	15/12/2015	Scientific and policy reports															
															5	Spectrum Management for the Digital Age	A JRC reference report on modern spectrum management, prepared in consultation with spectrum regulators in the EU, to reflect the state of the art in spectrum management and its orientation to meet the emerging needs of a digital Europe.	15/12/2016	JRC Reference reports															
967 - RSP-PSI Radio Spectrum Inventory	Under Radio Spectrum Policy Programme established by Decision 243/2012/EU of 14 March 2012 in support of the Digital Agenda, the Commission is implementing an EU Radio Spectrum Inventory. Its objective is to allow identification of spectrum bands where efficiency of spectrum use could be improved to accommodate future demands of wireless services to promote innovation and growth. The spectrum inventory will provide harmonized mapping of diverse spectrum data on geographical basis across the EU.	JRC.G.5 Pravir CHAWDHRY	2.1.c	CNECT	CNECT	GEISS Andreas			31/05/2013 30/05/2015	4-Methods and testing (100%)		853 - CORSA-Comms Radio Spectrum Reference Laboratory	COM-AA	350	Final report	Final project report	30/05/2015	JRC Technical reports																
3100 - RSP-2015 Support to Radio Spectrum Policy programme	To provide technical and scientific service to DG CONNECT on the implementation of the Radio Spectrum Policy Programme established by Decision 243/2012/EU of 14 March 2012 in support of the Digital Agenda. Focus on Radio Spectrum Inventory, spectrum monitoring, coexistence between wireless services and spectrum sharing techniques.	JRC.G.5 Pravir CHAWDHRY	2.1.c	CNECT	CNECT	GEISS Andreas (CNECT.B4)	GROW	CEPT - Conference of European Posts and Telecommunications Administrations (CEPT) ITU - International Telecommunication Union	01/06/2015 31/05/2016	2-Information systems & services (25%) 7-Scientific, technical & policy consultancy (75%)				COM-AA	1	Maintenance of Radio Spectrum Inventory Tools	details to be agreed with DG CNECT	15/12/2015	Technical systems															
															2	Mobile App for spectrum monitoring	TBD	15/12/2015	Technical systems															
															3	Coexistence study in 5GHz band	TBD	31/12/2015	Scientific and policy reports															
															4	License shared access pilot	TBD	31/12/2015	Technical systems															
2.1.d Provide technical support relating to: the interoperability of e-infrastructures for large-scale scientific collaboration (supporting the digital European Research Area) and of open access to public-sector information, scientific information and services (supporting digital science); making use of the convergence of big data with online tools, including social media applications affecting science-based decision making (supporting citizen science), for example as concerns privacy																																		
977 - OpenData Open Data, Knowledge & Information Management	OpenData implements the JRC Data Policy and ensures access to JRC data according to Horizon 2020 Open Access principles. It develops initial components for the IES e-infrastructure (e.g. JRC data catalogue), provides guidelines for data policy implementation and promotes corporate data management. It contributes to ICT standardisation through practical experiences of interoperability across different information systems. It ensures the availability of JRC data through the EU Open Data Portal.	JRC.H.6 Anders FRIIS-CHRISTENSEN	2.1.d	CNECT	n/a	CNECT C1 Carlos Morais Pires / CNECT G3 Daniele Rizzi	CLIMA ENV ESTAT GROW REGIO RTD SANTE	EEA - European Environment Agency EFSA - European Food Safety Authority	01/01/2014 31/12/2016	2-Information systems & services (65%) 7-Scientific, technical & policy consultancy (20%) 6-Socio-economic & scientific modelling, scenarios and statistical analysis (15%)				INS-RS	201501	Data management plans	Individual data management plans for selected IES projects drafted in collaboration with IES units. The plans shall address details with regards to data management principles laid down in the JRC data policy implementation guidelines and shall ensure that data are properly managed.	31/12/2015	Scientific information systems and databases															
															201502	Architecture for a common IES data infrastructure	Describe infrastructure components required for establishing a common IES data infrastructure and interoperability requirements for interacting with existing information systems. It will take into consideration requirements and needs stemming from the JRC data policy implementation guidelines and IES units.	31/12/2015	JRC Technical reports															
															201503	JRC Data Catalogue	First release of the JRC Data Catalogue, a central component of the common IES data infrastructure, to support the provision and publication of descriptions of data resources coming from the IES and other JRC Institutes. The catalogue will act as a single access point and make available the JRC data in the EU Open Data Portal, other research infrastructures and potentially other initiatives by the Commission (such as the Danube strategy and Climate-ADAPT).	31/01/2015	Scientific information systems and databases															
															201504	JRC Data Policy Implementation Guidelines	Further details and guidelines for the provisions laid down in the JRC data policy. The Guidelines shall contain, in particular, details with regard to e.g., exceptions to data access, elements of metadata and data management principles. Current best practices at IES will be used as input to the formulation of theme specific data management procedures.	30/06/2015	JRC Technical reports															
															201505	IES data inventory	Establishment of a common IES data inventory by creating metadata for data resources available within the IES; in cases where metadata repositories already exist or new are established, automated procedures will be set up in order to collect metadata. All metadata will be published in the JRC data catalogue.	30/06/2015	Scientific information systems and databases															
															201506	Access to IES data	IES data infrastructure setup enabling access to the IES data. The infrastructure will consist of centralized components as well as components provided by other units within IES. Short term focus is on interoperability and ensuring professional service provision according to agreed performance metrics. Long term vision is rationalisation, increased efficiency and corporate data access.	31/12/2015	Scientific information systems and databases															
															201507	Specifications for JRC image procurement	Technical specifications based on brokering approach for the supply of Very High Resolution (VHR) and High Resolution (HR) satellite data to all JRC Units (four-year Framework Contract). The broker is an individual or party (brokerage firm) that arranges transactions between JRC and the satellite data providers enabling supply of satellite data from the most up-to-date official publicly accessible product catalogues.	31/03/2015	Scientific and policy reports															
															201508	Open Standards for Open data	Staff working paper on ICT standardisation providing input to the JRC data policy implementation and the common IES data infrastructure architecture. It outlines applicable standards and provides recommendations based on among others, the practical experiences gained within the OpenData project and the participation in relevant initiatives such as the Research Data Alliance and the World Wide Web Consortium.	21/12/2015	JRC Technical reports															
															201601	Updated IES data inventory	Update of the IES data inventory by creating and maintaining metadata for data resources. The metadata will be published in the JRC data catalogue.	30/06/2015	Scientific information systems and databases															
															201602	Updated JRC data catalogue	An updated release of the JRC data catalogue to support the description and publication of metadata for data resources coming from IES and other institutes. Ensures access to data. Delivers metadata resources to the EU Open Data Portal and potentially other initiatives by the Commission (such as the Danube strategy).	31/12/2016	Scientific information systems and databases															
															201603	Access to IES data	Second release of a common IES infrastructure setup including more functionality aiming at centralized storage, access and dissemination of data at the level of IES, especially for projects that have no existing operational platforms.	31/12/2016	Scientific information systems and databases															
															1065 - BD4Env Big Data for Environment	It investigates legal, organizational and technical barriers in using Big Data to enhance the relation between society and environmental science. It particularly examines the combined re-use of commercial data, citizen-generated content and public sector information across cultural borders, based on practical tests and grounded by theoretical perspectives. It contributes to capacity building (e-infrastructure and skills) and informs policies to enable a vibrant knowledge-based society in Europe.	JRC.H.6 SVEN SCHADE	2.1.d	CNECT	n/a	Morais-Pires	BEPA EAC ENV ESTAT GROW JRC RTD	EEA - European Environment Agency	01/01/2015 31/12/2016	1-Foresight studies & techniques (60%) 2-Information systems & services (40%)				INS-UR	201501	Socio-environmental analysis and commercial data	Report analyzing the ethical, legal, organizational and technical challenges in accessing and re-using commercial data for environmental analysis in the areas of human mobility, and urban dynamics. Includes a review of technologies and social mechanisms for privacy protection. This document will be developed in partnership with the academic and private sectors (including telecom operators, commercial store chains, and providers of social media platforms) and inform policy reviews in this area.	30/09/2015	Scientific and policy reports
																														201502	Sustainability of citizen science projects	Report reviewing interoperability arrangements, hosting and data management practices of FP7 and Horizon 2020 projects for the re-use of citizen-collected data for environmental monitoring in selected areas such as noise, and land use. The report analyses also factors of success for long-term sustainability of citizen science projects in different fields (e.g. biodiversity, mapping, physical and social sciences) in collaboration with the European Association for Citizen Science.	15/12/2015	Scientific and policy reports
201503	Big Data analysis and visualization review	Review and assessment of pilots launched by the DEAP project in 2014 to identify methods and tools for Big Data analysis and visualisation. The review is based on integrating social sensing, the Internet of Things and public sector data in the areas of public participation and urban sustainability. Assessment includes methodologies and technologies, and lessons learned from interoperability tests between existing e-infrastructures and data processing facilities.	15/12/2015	Scientific and policy reports																														
201601	Requirements for Big Data management and skills	Study of the changes at JRC in creating and sharing scientific evidence for environmental policy-making, in light of the evolving technological, social, and data landscape. Based on results of the BD4Env project, selected activities with IES-involvement, and experiences from the JRC Big Data pilot, the study analyses changes in data acquisition, processing, analysis and communication, emerging skill gaps to exploit data science, and evolution of scientific networks during 2014-16.	30/09/2016	Scientific and policy reports																														
201602	Approaches to participative policy-making	Joint JRC-CNECT Staff Working Paper assessing approaches to engage European citizens in science and policy making, and investigating the possible use of collaborative platforms to narrow the gaps between society, science, and policy. Builds on increased use of open data and social sensing activities in Europe to change the way in which European decision-making is perceived by the public.	15/12/2016	Scientific and policy reports																														

JRC WORK PROGRAMME 2015 - 2016																																	
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category															
2.1.e Carry out socio-economic analyses of emerging digital technologies to enhance the trust, privacy and security of citizens in the digital market (e.g. e-identity, e-government services and e-sealing, and anonymity in cloud-computing) and of the Internet of things																																	
561 - TSI Trust, Security and Identity	The project aims at identification and analyses of the cyber-security issues which might be of obstacle to the development of the digital market, investigation of the privacy issues of new emerging technologies including study of different paradigms for digital identities and online trust management, of the cyber-security challenges introduced by mobile services, applications and botnet, IoT, online anonymity and vulnerabilities of telecommunication protocols.	JRC.G.6 Igor NAI FOVINO	2.1.e	CNECT	n/a	Pierre Chastanet	ENER		01/01/2014 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		INS-RS		6	Privacy & Anonymity Metrics in Digital Life	Scope of the study is that of initiate a new research stream on the use of digital devices in smart-environment, investigating on the privacy and security risks to which the citizen might be exposed. This preliminary study foresees the development of a first simulation test-bed, instrumental for the research in 2015.	15/06/2015	Scientific and policy reports															
														7	IoT Usage Control, Trust and Privacy	Control and protection of user data is a very important aspect in the design and deployment of the Internet of Things (IoT). Scope of this deliverable is that of developing an IoT Model-based Security Toolkit supporting specification and efficient enforcement of security policies to enable the protection of user data. (The work builds up on the results of the I-Core project completed in 2014).	15/12/2015	Scientific and policy reports															
														8	Mobile App anonymization control	The deliverable will be articulated in the following elements: (1) Methods for mobile-app privacy profiling (e.g. through dynamic and static analysis of the app behavior). (2) Privacy Preserving Mobile App. Execution framework.	15/12/2015	Scientific and policy reports															
														9	Mobile Applications Threats, Security and Privacy	The deliverable, based on the results of deliverable 8, will analyse the security threats lying under the surface of mobile applications and mobile Operating Systems, exploring aspects related to: (1) Mobile Application Malicious Behaviour analysis, (2) Mobile Botnets (3) Mitigation Techniques.	15/06/2015	Scientific and policy reports															
														10	Smart-Environments Experimental Test-bed	Modern citizen will become more and more surrounded by smart-devices which, in an augmented reality fashion, will enhance his capabilities of interaction with the digital world while creating a concrete bridge with the real one. This deliverable will investigate will aim at creating an experimental platform to reproduce Smart-environment interactions and use cases, to be used to further analyse privacy and security issues.	15/12/2015	Scientific and policy reports															
														11	Citizen' privacy and security in Smart-Environment	This activity will exploit the Smart-Environment test-bed to analyse the security and privacy implications of the citizen' inclusive digital experience. In addition, identified solutions and approaches could be proposed to standardization bodies in ETSI or to the Internet of Things Cluster coordinated by DG CNECT.	15/12/2016	Scientific and policy reports															
														12	Wireless Communication Protocols in Smart-Environm	This activity will perform an explorative analysis of the wireless communication protocols (both at network and application layer) used in the market to provide smart and digital services to the citizen. The scope will be that of creating a starting point for a new set of activities in the field of wireless communication security.	15/12/2015	Scientific and policy reports															
														13	Wireless communication technologies vulnerability	This activity will investigate on the threats and vulnerabilities of the wireless communication protocols with respects to citizen' privacy and security within the DSM context.	15/12/2016	Scientific and policy reports															
														14	Online activity profiling threats	This activity, starting from the results of D8-D9-D12-D13 will analyse evaluate the risks related to digital citizen' life profiling, investigating on possible mitigation techniques.	15/12/2016	Scientific and policy reports															
														572 - E-CIT Empowering Citizens' Rights in emerging ICT	Empowering citizens by making their rights effective, addressing ethical issues in ICT. Special focus on vulnerable citizens comprising a variety of human conditions (e.g. age, health). It will address the complexity of interactions between emerging ICT and citizens, such as cyber-threats and, co-surveillance through ICT, developing guidelines for ICT ethics evaluation, and Responsible Research and Innovation ethics activities with frameworks of citizen engagement in ethics dialogues.	JRC.G.6 STEPHANE CHAUDRON	2.1.e	CNECT	n/a	Gerald SANTUCCI - CNECT.02	JUST RTD		01/01/2014 30/06/2016	7-Scientific, technical & policy consultancy (100%)		INS-RS		2	Empower Children Rights: 0-8: Online behaviours	1) Report with recommendations for policy and further research on behaviours and learning for the 0-8 age group stemming from growing in a digital culture. This report will be based on the results of a Pilot 0-8 study done in 2014 that responded to the current lack of research and knowledge about very young children activities and behaviour online. 2) Scientific paper critically reflecting on the methodology used in the pilot and guidance for the "replicability" of the study at larger scale.	15/12/2015	Scientific and policy reports	
																												3	Empower Children Rights by way of Education	1) Fine tuning of a "toolkit" aimed at the 9-12 age group on "healthy digital life" produced during 2014. This activity comprises testing the "toolkit" with social research methods and its review following the results of this activity. 2) Scientific publication critically reflecting on the methodology used in the toolkit and the experience of its application. 3) Scientific publication reflecting on use of games to promote a "healthy digital life".	15/12/2015	Scientific and policy reports	
														867 - QuantumTec Quantum Technology Study	Technologies which make direct use of quantum effects are now emerging commercially and are expected to grow in economic importance and have a high impact on ICT security especially. Examples are quantum key distribution, quantum random number generation and perspectives in quantum computing. We will define a possible JRC role in the development and evaluation of these technologies, including standardization and possible European public sector pilot implementation.	JRC.G.5 Neil MITCHISON	2.1.e	CNECT	n/a	Thierry VAN DER PYL, CNECT.C	CNECT HOME MOVE RTD	ETSI - European Telecommunications Standards Institute (ETSI)	01/01/2015 31/12/2015	7-Scientific, technical & policy consultancy (100%)			INS-UR		1	Architecture design for use cases of QKD	Quantitative designs for application of quantum key distribution in three EU public sector systems.	15/12/2015	JRC Technical reports
																													2	Perspectives for quantum computation	An analysis of how the advent of quantum computing, both as a solution and as a threat, could affect applications of interest to EU institutions. Algorithms for future computers, applications of quantum logic, quantum automata, reversible computation and physical limits of computation will be the main topics. The risk of quantum computing remaining unfeasible, or not outperforming conventional computers until the very long-term, will also be considered.	15/12/2015	JRC Technical reports
																													3	Laboratory demonstrator of quantum cryptography	Experiments will be conducted with selected commercial equipment with the aim of acquiring hands-on experience which will assist the design work in Deliverable 1. Deliverable 3 will consist of the demonstrator itself.	31/12/2015	Technical systems
4	Survey of "other" quantum technologies	A state-of-the-art report on quantum technologies not covered in D1 and D2. Its purpose is to assist Commission services in managing research and development programmes by mapping all the technologies which can be described as "quantum", including sensors as well as IT.	30/06/2016	JRC Technical reports																													
2174 - FutureID FutureID - Shaping the future of electronic identity	Participation to the FutureID project as a member of its Scientific Advisory Board. The overall objective of FutureID is to build a comprehensive, flexible, privacy-aware and ubiquitously usable identity management infrastructure for Europe, which integrates existing eID technology and trust infrastructures, emerging federated identity management services and modern credential technologies to provide a user-centric system for the trustworthy and accountable management of identity claims.	JRC.G.6 Igor NAI FOVINO	2.1.e	CNECT	n/a	n/a			14/11/2012 14/11/2015	7-Scientific, technical & policy consultancy (100%)			COM-HA	1	2015 - JRC Contribution to FutureID	Short report on JRC contribution to the Scientific Advisory Board of FutureID for the year 2015	14/11/2015	JRC Technical reports															
2761 - EDPC Empowering Digital Privacy of Citizens	In direct support to the raising privacy concerns shown by the European citizens, the project aim at investigating on emerging techniques and tools to protect the privacy of European citizens. Focus is on (a) securing personal spaces in the cloud (e-Vault) and (b) security of email communications. The research includes identification and assessment best available techniques, with special focus on open-source software, and development of proof of concept tool.	JRC.G.6 JOSE IGNACIO SANCHEZ MARTIN	2.1.e	CNECT	n/a	Rafaele Di Giovanni Bezzi	CNECT		01/01/2015 31/12/2016	7-Scientific, technical & policy consultancy (100%)			INS-RS		1	E-mail Systems Privacy threat analysis	The study will analyse the actual generation of email systems applications and protocols to identify and map the existing threats against the citizen' privacy right.	15/04/2015	Scientific and policy reports														
															2	Secure Email system, Requirement analysis	Based on the results of D1 this activity will define the technological requirements needed to implement a secure email system.	15/09/2015	Scientific and policy reports														
															3	Best Available Tools for Securing the Email system	Based on the requirements defined in D2, this activity will analyse the existing Secure Email Solutions (preferably Open Source) to identify the best existing tools available to the citizen. The activity will include the creation of an experimental platform for testing Secure Email Systems.	15/12/2015	Scientific and policy reports														
															4	Secure Personal Spaces: requirement analysis	The activity will identify the domains of application related to Secure Personal Spaces by analysing a set of specific citizen's use cases (e.g. cloud repositories, mail box repositories, social network spaces etc.). For each use case a set of desirable requirements will also be identified.	15/06/2015	Scientific and policy reports														
															5	Secure Personal Spaces technological scouting	Analysis of existing solutions to create Secure Personal Spaces with respect to the use case scenarios and requirements identified in D4. The activity will include the creation of an experimental platform for testing Secure Personal Space Solutions.	15/12/2015	Scientific and policy reports														
															6	Secure Emails and Personal Spaces: GAP analysis	The study will summarise the results of D1-D5 by identifying the GAP between the existing situation in Europe with respect to Secure Emails and Secure Digital Spaces and the optimal target identified through the requirement analysis conducted in D2 and D4.	15/02/2016	Scientific and policy reports														
															7	Secure Email prototype development	On the basis of the identified specification this activity will investigate on the development of a working prototype of secure email system. Sub tasks will comprise the specification design, the software development and the pilot testing.	15/12/2016	Scientific and policy reports														
															8	Secure Personal Space, new approaches	This activity will investigate on new innovative approaches to bridge the GAP identified in D6. The output will be composed by a set of pilots matching with the use cases identified in D4.	15/12/2016	Scientific and policy reports														
															9	Personal Secure Spaces and Emails, policy options	This activity, by bringing together on a Stakeholder Forum table the main Digital Personal Spaces and Emails controllers, will produce a set of policy options to enforce the citizen' privacy right in the digital world.	15/12/2017	Scientific and policy reports														
2829 - MyPrivacy My Privacy	Project objectives are to provide (1) a set of easy to use privacy tools and (2) rating systems, leading to the creation of a data protection ecosystem and the implementation of privacy-by-design data protection framework. The goal is to provide evidence that privacy solutions, implemented with transparency and user-friendliness, work in real life environments targeting frequent interactions with online services (search engines, social networks, cloud-based services) directly involving citizens.	JRC.G.6 JOSE IGNACIO SANCHEZ MARTIN	2.1.e	CNECT	CNECT	Rafaele Di Giovanni Bezzi	JUST		15/03/2015 14/03/2018	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)			COM-AA		1	ICT framework design	Contribution to the WP3 of the MyPrivacy project. WP3 is responsible for defining and providing the ICT framework that will be used by MyPrivacy pilots. This task will (a) define the global architecture of the ICT framework; (b) identify and describe the various citizens' tools and community service components and their interaction scheme and (c) specify the API that will allow components or entities to communicate. Output: Project deliverable 3.4, ICT framework APIs.	15/12/2015	Scientific and policy reports														
															2	Android Privacy Sandbox Requirements	This task will provide the requirements of the Android Privacy Sandbox (APS engine, web user interface, web reporting module, integration with other modules through a web-service based API and cloud deployment). Output: D6.1 APS requirements	31/03/2015	Scientific information systems and databases														
															3	Rating system model	Contribution to the review of various rating systems to determine if there are some lessons that can be learned or best practices that will benefit the robustness of the MyPrivacy rating system.	15/05/2016	Scientific information systems and databases														
															4	Sandbox Design	This task will provide the functional and technical design of the Android Privacy Sandbox and both the individual (APS engine, web user interface, web reporting module and integration API) and overall cloud based architecture to support the solution. A risk assessment will be carried out to identify and handle properly, already from the design phase, security and privacy risks. Output: D6.2 APS Design.	15/12/2016	Scientific and policy reports														
															5	Citizen' Tools	Contribution to WPS of MyPrivacy Project. This work package is dedicated to creating the citizen toolbox. These tools will build on the APIs created in previous work packages, and integrate a range of existing privacy enhancing tools (PETS) into one unique user-centric toolbox. JRC will contribute in the requirements definition	15/12/2016	Scientific information systems and databases														
															6	Pilot Activities	This task focuses on the preparation of the pilot.	15/12/2017	Scientific information systems and databases														
															7	Pilot Validation	This task focuses on the validation of the pilot. It includes one subtask for the alpha testing and one subtask for the beta testing of the Sandbox.	15/03/2018	Scientific information systems and databases														

JRC WORK PROGRAMME 2015 - 2016

Creation: 14/01/15 11:23:02

Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
3 A Resilient Energy Union with a Forward-Looking Climate Change Policy																		
3.1 Climate Action																		
3.1.1 Climate change impacts and climate policies, including mainstreaming																		
3.1.1.a Monitor and model anthropogenic greenhouse gas (GHG) emission trends and produce independent inventories for all countries in the world. The focus is on emissions from agriculture and forestry land use and land-use change, as well as from fossil fuels (extraction and use), to meet reporting and accounting obligations at EU and international level, in particular in view of the United Nations Climate Change Conference, COP 21, in December 2015.																		
933 - ICOS - JRC GHG assessments - Support to the Integrated Carbon Observation System	ICOS-JRC supports the Commission with recent GHG emissions and their trends based on atmospheric flux & concentration measurements and advanced inverse modelling for a smart climate change policy including reductions of their emissions by 20% until 2020. It relies on the ABC-IS station in Ispra and the GHG tower in San Rossore, both part of ESFRI's ICOS network. Inverse modelling gives independent top-down estimates of CH4 and N2O emissions for verification of reported GHG emissions under UNFCCC	JRC.H.2 Carsten GRUENING	3.1.1.a	CLIMA	n/a	PENDOLOVSKA Velina (CLIMA.A.3)	ENV RTD	ESFRI - European Strategy Forum on Research Infrastructures NOAA - National Oceanic and Atmospheric Administration UN FCCC - UN Framework Convention on Climate Change (UNFCCC)	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (50%) 7-Scientific, technical & policy consultancy (50%)	84 - INGOS Integrated non-CO2 Greenhouse gas Observation System	INS-UR		1	ICOS compliant measurement station	Finalization of ICOS - Ecosystem Station compliant measurement setup for GHG flux measurements at ABC-IS and San Rossore and implementation of ICOS compliant measurement protocols (2014)	01/12/2015	Technical systems
														5	Top-down estimates of CH4 emissions	Scientific paper on improved top-down estimates of European CH4 emissions based on inverse modelling	19/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														6	GHG concentrations measurements	Report on GHG concentrations measurements in 2014 and set-up of the measurement system at the new tall tower for ICOS-ERIC and first measurements	19/12/2015	JRC Technical reports
														7	GHG fluxes measurements	Report on GHG fluxes measurements in Ispra and San Rossore in 2014 and measured dataset of 2015 for ICOS-ERIC	19/12/2015	JRC Technical reports
														8	Top-down estimates of N2O emissions	Scientific paper on improved top-down estimates of European N2O emissions based on inverse modelling	01/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														9	GHG concentration and flux data 2015	Report on GHG concentrations and fluxes - measured dataset of 2015 for ICOS	01/12/2016	JRC Technical reports
														10	Effects of climatic drivers on GHG fluxes	Scientific paper on the effects of climatic drivers on GHG fluxes at Ispra and San Rossore exploiting 3 years of continuous measurements	01/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														32	Information on forest resources	Easily accessible database of up-to-date information (measurements) on forest coverage, deforestation, forest degradation, historical trends and impact of human activities on forests, at different geographical and time scales in Europe and the Tropics (Brazil, Eastern Africa, ...)	31/12/2015	Scientific information systems and databases
														33	Information on forest resources	Easily accessible database of up-to-date information (measurements) on forest coverage, deforestation, forest degradation, historical trends and impact of human activities on forests, at different geographical and time scales in the Tropics (Brazil, Eastern Africa, ...)	31/12/2016	Scientific information systems and databases
														42	Methods for forest degradation and emissions	Validated reference methods for the assessment of forest cover changes (with focus on forest degradation and forest regrowth) and estimating carbon emissions and sinks from tropical forests cover changes in tropical regions (focus on Brazil, Colombia, Eastern Africa, continental Southeast Asia); new analysis module and related technical reports or scientific publications.	31/12/2015	Validated methods, reference methods and measurements
43	Methods for forest degradation and emissions	Validated reference methods for the assessment of forest cover changes (with focus on forest degradation and forest regrowth) and estimating carbon emissions and sinks from tropical forests cover changes in tropical regions (focus on Brazil, Colombia, Eastern Africa, continental Southeast Asia); new analysis module and related technical reports or scientific publications.	31/12/2016	Validated methods, reference methods and measurements														
52	Ad hoc scientific support to customer DGs	Ad hoc scientific support to CLIMA through MoU ahead of the United Nations Paris meeting in 2015 on the monitoring of carbon emissions from tropical deforestation in relation to REDD+, including participation to expert meetings. Ad hoc scientific support to ENTR and EEA through MoU with ENTR on European forest and global land mapping component of Copernicus services, including contribution to technical specifications or tender evaluations	31/12/2015	Scientific and policy reports														
53	Ad hoc scientific support to customer DGs	Ad hoc scientific support to CLIMA through MoU ahead of the United Nations Paris meeting in 2015 on the monitoring of carbon emissions from tropical deforestation in relation to REDD+, including participation to expert meetings. Ad hoc scientific support to ENTR and EEA through MoU with ENTR on European forest and global land mapping component of Copernicus services, including contribution to technical specifications or tender evaluations	31/12/2016	Scientific and policy reports														
72	Scientific publications	Scientific publications related to the development of methods and production of information on forest resources	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
73	Scientific publications	Scientific publications related to the development of methods and production of information on forest resources	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
1000 - FOROBS Forest Observatory	In the context of the European Union lead to fight against global warming the Project will continue developing methods for benchmarking the monitoring of forest resources and carbon emissions with focus on tropical regions and Europe. Assessments will allow an improved understanding of how forest resources can support the often competing demands for economic and ecological services, especially when confronted with increasing threats, such as climate change.	JRC.H.3 Frederic ACHARD	3.1.1.a	CLIMA	n/a	Mr Peter WEHRHEIM, HoU CLIMA.A.2	AGRI DEVCO ECHO ENV GROW	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EEA - European Environment Agency	01/01/2014 31/12/2016	4-Methods and testing (35%) 5-Monitoring, verification and surveillance (30%) 7-Scientific, technical & policy consultancy (35%)	503 - ReCaREDD ReCaREDD: Strengthening regional capacities for reporting on mitigation actions of forest sector 968 - CEOFAC Consolidation et Extension de l'Observatoire des Forêts d'Afrique Centrale 1004 - FOREM Forest emissions in EU	INS-RS		4	EU LULUCF greenhouse gas inventory 2015	Fulfillment of the EU reporting obligations for the LULUCF sector, as part of the EU GHG Monitoring Mechanism (Regulation 525/2013) and the Key priority "Implementing the current requirements under the UNFCCC and the Kyoto Protocol..." (MoU with DG CLIMA), including the following sub-deliverables (i.e. written reports or documents): -Checks of MS' LULUCF inventories -Writing of LULUCF chapter of EU National Inventory Report	31/12/2015	Scientific and policy reports
														5	Implementation of LULUCF policies 2015	Ad-hoc reports, documents and tools supporting DG CLIMA and MS in the implementation of LULUCF-related policies: - at EU level (Decision 529/2013), e.g. reports and presentations at the LULUCF working group of the Climate Change Committee, organization of workshops with MS; - at UNFCCC level (decision 2/CMP.7), e.g. update of the JRC LULUCF tool to assess the impact of LULUCF accounting and preparations for including the land use sector in the global climate agreement expected by 2015 in Paris.	31/12/2015	Scientific and policy reports
														6	Scientific publications 2015	Scientific publications related to emission and removals from forests.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	EU LULUCF greenhouse gas inventory 2016	Fulfillment of the EU reporting obligations for the LULUCF sector, as part of the EU GHG Monitoring Mechanism (Regulation 525/2013) and the Key priority "Implementing the current requirements under the UNFCCC and the Kyoto Protocol..." (MoU with DG CLIMA), including the following sub-deliverables (i.e. written reports or documents): -Checks and improvements of MS' LULUCF inventories -Writing of LULUCF chapter of EU National Inventory Report -Participation to the UNFCCC expert review process	31/12/2016	Scientific and policy reports
														8	Implementation of LULUCF policies 2016	Ad-hoc reports, documents and tools supporting DG CLIMA and MS in the implementation of LULUCF-related policies: - at EU level (Decision 529/2013), e.g. reports and presentations at the LULUCF working group of the Climate Change Committee, organization of workshops with MS; - at UNFCCC level (decision 2/CMP.7), e.g. update of the JRC LULUCF tool to assess the impact of LULUCF accounting and preparations for negotiations events together with DG CLIMA	31/12/2016	Scientific and policy reports
														9	Scientific publications 2016	Scientific publications related to emission and removals from forests.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1004 - FOREM Forest emissions in EU	FOREM provides scientific and technical support to DG CLIMA and MS on monitoring, reporting and verification of emissions/removals from the Land Use, Land Use Change and Forestry (LULUCF) sector. In the context of the EU obligations within the Kyoto protocol, the project implements the EU LULUCF inventory and supports the design and implementation of LULUCF policies at EU and UNFCCC levels. This project is also the basis for integrated modelling of the forest carbon dynamics at MS level.	JRC.H.3 Giacomo GRASSI	3.1.1.a	CLIMA	n/a	DG Climate Action, Unit A2 "Climate finance and deforestation" Peter.WEHRHEIM@ec.europa.eu +32 (0) 2 29 88578; Velina PENDOLOVSKA, DG CLIMA.A.3	AGRI	EEA - European Environment Agency IPCC - Intergovernmental Panel on Climate Change UN FCCC - UN Framework Convention on Climate Change (UNFCCC)	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (40%) 7-Scientific, technical & policy consultancy (20%) 6-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)	503 - ReCaREDD ReCaREDD: Strengthening regional capacities for reporting on mitigation actions of forest sector 968 - CEOFAC Consolidation et Extension de l'Observatoire des Forêts d'Afrique Centrale 1000 - FOROBS Forest Observatory 927 - FISE Forest Information System for Europe	INS-RS		4	EU LULUCF greenhouse gas inventory 2015	Fulfillment of the EU reporting obligations for the LULUCF sector, as part of the EU GHG Monitoring Mechanism (Regulation 525/2013) and the Key priority "Implementing the current requirements under the UNFCCC and the Kyoto Protocol..." (MoU with DG CLIMA), including the following sub-deliverables (i.e. written reports or documents): -Checks of MS' LULUCF inventories -Writing of LULUCF chapter of EU National Inventory Report -Participation to the UNFCCC expert review process	31/12/2015	Scientific and policy reports
														5	Implementation of LULUCF policies 2015	Ad-hoc reports, documents and tools supporting DG CLIMA and MS in the implementation of LULUCF-related policies: - at EU level (Decision 529/2013), e.g. reports and presentations at the LULUCF working group of the Climate Change Committee, organization of workshops with MS; - at UNFCCC level (decision 2/CMP.7), e.g. update of the JRC LULUCF tool to assess the impact of LULUCF accounting and preparations for negotiations events together with DG CLIMA	31/12/2015	Scientific and policy reports
														6	Scientific publications 2015	Scientific publications related to emission and removals from forests.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	EU LULUCF greenhouse gas inventory 2016	Fulfillment of the EU reporting obligations for the LULUCF sector, as part of the EU GHG Monitoring Mechanism (Regulation 525/2013) and the Key priority "Implementing the current requirements under the UNFCCC and the Kyoto Protocol..." (MoU with DG CLIMA), including the following sub-deliverables (i.e. written reports or documents): -Checks and improvements of MS' LULUCF inventories -Writing of LULUCF chapter of EU National Inventory Report -Participation to the UNFCCC expert review process	31/12/2016	Scientific and policy reports
														8	Implementation of LULUCF policies 2016	Ad-hoc reports, documents and tools supporting DG CLIMA and MS in the implementation of LULUCF-related policies: - at EU level (Decision 529/2013), e.g. reports and presentations at the LULUCF working group of the Climate Change Committee, organization of workshops with MS; - at UNFCCC level (decision 2/CMP.7), e.g. update of the JRC LULUCF tool to assess the impact of LULUCF accounting and preparations for negotiations events together with DG CLIMA	31/12/2016	Scientific and policy reports
														9	Scientific publications 2016	Scientific publications related to emission and removals from forests.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category															
1064 - EGARP+ Emissions for Global Atmospheric Research and Policy	To monitor Greenhouse Gas and Air Pollutant emission reductions via past, current and future policies and energy reforms world-wide and assessment of their impact on health and ecosystems. To assess regional and hemispheric air quality via coordination of modeling communities and analysis of common case studies results. To reach out to developing regions with training support and knowledge databases in visualising emissions hot spots, pollutant transport from source to receptors and impacts	JRC.H.2 Greet JANSSENS-MAENHOUT	3.1.1.a	CLIMA	n/a	VAN IERLAND Willem Tom (CLIMA.A.4), LABAT Ariane (CLIMA.A.4), PENDOLOVSKA Velina (CLIMA.A.3), PAQUOT Alexandre (CLIMA.A.3)	DEVCO ENER ENV HOME REGIO	EEA - European Environment Agency IEA - International Energy Agency IGAC - International Global Atmospheric Chemistry (IGAC) UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE UN FCCC - UN Framework Convention on Climate Change (UNFCCC) UNEP - United Nations Environment Programme (UNEP) US-EPA - US Environmental Protection Agency	01/01/2014 31/12/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (20%)	261 - CoM South Covenant of Mayors South 163 - CoM West Technical and Scientific Assistance Covenant of Mayors 933 - ICOS - JRC GHG assessments - Support to the Integrated Carbon Observation System 262 - AMITO Atmospheric methane and its impacts on Tropospheric ozone human health and the environment 2002 - SUL Sustainable and resilient Urban Living	INS-RS			3	EDGAR urban emission inventories	1.2 Report on monitoring of reduction measures (such as from Covenant of Mayors) for selected cities and intercomparison with independent EDGAR estimates. SEAP analyses & Monitoring report analyses as policy document (review analyses in ARES). Collaborating Unit : E08	15/12/2015	JRC contributions to policy documents														
															4	Analysis of EDGARv4 Emission trends and drivers	3.1 Paper: Econometric analysis of the emission trends and drivers in the household sector in Europe. (VAR in levels) (supporting climate-resilience in the residential sector) 3.2 Report Scientific and policy support: Impulse response function of country-specific drivers such as fuel taxation in the road transport sector. Collaborating Unit : G09	15/12/2015	Scientific and policy reports														
															5	Developing and updating EDGAR emission database	4.1 EUR Report on EDGAR methodology (documentation – part of EDGAR manual series) 4.2 report on the comparison of top-down and bottom-up inventories using EDGARv4.3/HTAPv2.2 4.3 Extension of EDGAR substances with POPs, such as Hg, 4.4 Extension of EDGAR time series to the actual year -1 for CO2 and non-CO2 GHG. Collaborating : GEIA working group on VOC , GEIA working group on urban	15/12/2016	Scientific and policy reports														
															6	Public Version of TMS-FASST with EDGAR/HTAP input	Operational, user-friendly and documented public web version of the TMS-FASST model, extended with EMEP and HTAP source-receptor relations, customized scenario input, coupling to EDGAR for automatic emissions input and automatic report generation. Including annual updates with additional impact modules and source-receptor matrices. This tool will be available for policymakers in air quality and climate policy area to perform a fast screening of the impact of emission scenarios.	31/07/2016	Scientific information systems and databases														
															7	Securing Critical Raw Materials (CRM) Supply	Internal workshop aims to provide a better understanding of the CRM challenge with its different aspects (reserves, production, trade, use, recycling). A report on, the analysis of the current initiatives with their shortcomings and potential, and the development of a roadmap for the strategic management of CRM (inspiring on the Euratom Supply Agency), securing CRM and embedding our activities in the existing networks inside and outside the Commission. [linked to DG's Group on Growth]	31/07/2016	JRC Technical reports														
															8	Impact on health/crops/climate with FASST	New version of the scientific version of the TMS-FASST tool with newly developed source-receptor relations and impact modules, including climate biosphere-air pollution climate feedbacks, ecosystem impacts and new metrics for health impact. Application of TMS-FASST for integrated impact evaluation of AQ & CC policies. Report the impacts of short-lived pollutants on health, ecosystems and near-term climate considering different eco-industrial development under CC & AQ Policy scenarios	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
															9	AQMEII - Phase 3	Regional scale service to HTAP phase 2, on EU and NA continent. Regional scale simulations to be run on two continents (EU and North America). Determining effects of hemispheric transport on continental air quality by means of higher resolution models. Evaluating models capacity to reproduce past air quality by performing model evaluation activities. Coordination of large international modeling community on simulations, data gathering, results analysis, synthesis and conclusions.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
															10	HTAP/AQMEII	Global/regional scale model evaluation and sensitivity analysis. With AQMEII knowledge & techniques the robustness and performance of air quality models participating in HTAP2 are evaluated. Hemispheric model simulations with regional scale model output are compared to assess impacts of different simulation resolutions and under an ensemble analysis. Outcome is transferred to the TMS-FASST tool to provide the user with robust uncertainty ranges.	30/09/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
															1758 - LULUCF ACCOUNTING LULUCF Accounting	This AA will address two separate issues • Lot 1 – Assistance to Informal LULUCF Dialogue and support to the SBSTA/ADP analysis (UNFCCC/KP context) - responsible Unit HO3 • Lot 2 – Cropland and Grassland management data needs from existing IACS sources (EU context) - responsible Unit HO4	JRC.H.3 Giacomo GRASSI	3.1.1.a	CLIMA	CLIMA	WEHRHEIM Peter	AGRI		04/12/2013 03/12/2015	5-Monitoring, verification and surveillance (100%)	JRC.H.4		COM-AA	1	Final report Lot 1	Final report including all tasks from Lot 1 as described in the AA	03/12/2015	Scientific and policy reports
																													2	Final report Lot 2	Final report including all tasks from Lot 2 as described in the AA	03/12/2015	Scientific and policy reports
2200 - PL- ROADLESS-FOR Planned: Pilot Project EP-CLIMA Roadless Forests	Pilot project "Making efficient use of EU climate finance: using roads as an early performance indicator for REDD+ projects" The Project should lead to the production of an up-to-date global map of roadless areas in forested regions, with focus on tropical forests (based on best available spatial data and satellite images) and prediction model tool for deforestation	JRC.H.5 Stephen PEEDELL	3.1.1.a	CLIMA	CLIMA	Peter WEHRHEIM, HoU CLIMA A.2	DEVCO ENV	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)	01/10/2014 30/09/2016	2-Information systems & services (60%) 7-Scientific, technical & policy consultancy (30%) 9-Education & training (10%)	1000 - FOROBS Forest Observatory 503 - ReCaREDD ReCaREDD: Strengthening regional capacities for reporting on mitigation actions of forest sector	JRC.H.3		COM-AA	201501	Project Inception report	Project Inception report	31/03/2015	JRC Technical reports														
															201502	Tropical Forest Map (v1)	Tropical Forest Map (v1)	30/06/2015	Scientific information systems and databases														
															201601	Global Tropical Forest Map	Production of a Spatial database of up-to-date global map of tropical forested areas at 250m spatial resolution. This map will be an experimental map of 'intact' forests.	30/06/2016	Scientific information systems and databases														
															201602	Global Accessibility Map	Production of an up-to-date global accessibility / roadless areas map, based on road network data and other means of access	30/06/2016	Scientific information systems and databases														
															201603	Prediction Model for Deforestation	Development of a prediction model tool for deforestation and forest degradation on the basis of existing roads and road building forecasts in priority areas	30/09/2016	JRC Technical reports														
201604	Roadless Forests Website	Setting up and running of a dedicated web-site for dissemination of project data and informational material. Data dissemination will be in line with EU OpenData policy and relevant technical standards and specifications	30/09/2016	Scientific information systems and databases																													
2780 - PL- LULUCF MRV 2 Planned: Analysis for enhancing Monitoring, Reporting and Verification (MRV) of LULUCF in EU	Support to DG CLIMA and to MS in implementing the EU decision 529-2013 on Land Use Land Use Change and Forestry (LULUCF)	JRC.H.3 Giacomo GRASSI	3.1.1.a	CLIMA	CLIMA	CLIMA A.2 HoU Peter WEHRHEIM	AGRI		15/01/2015 31/12/2016	5-Monitoring, verification and surveillance (100%)			COM-AA	n/a	n/a	n/a	n/a	n/a															
3.1.1.b Analyse vulnerability to climate change and adaptation options in the EU and in sensitive areas worldwide. This includes monitoring and modelling, such as the economic and non-economic analysis of climate change impacts. Analyse the effectiveness of mainstreaming adaptation in existing sectoral policies.																																	
81 - IMPACT2C Quantifying projected impacts under 2°C warming	The impact of climate change on European ecosystems will be assessed with the Community Land Model, which will be applied to study the impact of rising temperature, CO2 concentration and N-deposition on the C-fluxes and budgets of ecosystems. Impact on the water and carbon cycle and on the biophysical properties of plant canopies (eg. Leaf Area Index, albedo) will be assessed. Model simulations will be used to test alternative adaptation options.	JRC.H.7 Alessandro DOSIO	3.1.1.b	CLIMA	RTD	Claus BRUENING (RTD); Alfonso GUTIERREZ (CLIMA)			01/10/2011 30/09/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	2	Vulnerability of European C sinks	Model simulations with CLM will be used to assess the vulnerability of the European C-sink and to test alternative adaptation options.	31/08/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index															
177 - ENHANCE Improving resilience to catastrophic natural hazards through new risk-management partnerships	The main goal of the ENHANCE project is to develop and analyse new ways to enhance society's resilience to catastrophic natural hazard impacts, by providing new scenarios and information in selected hazard cases in close collaboration with stakeholders, and by contributing to the development of new multi-sector partnerships to reduce or redistribute risk.	JRC.H.7 Luc FEYEN	3.1.1.b	CLIMA	RTD	Andrea Tilche (DG RTD); Alfonso Gutierrez (DG CLIMA)	ECHO		01/12/2012 30/11/2016	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			COM-IA	2	Probabilistic risk assess. of high impact events	Report describing probabilistic risk assessment of high impact events to be used in case studies	31/03/2015	Scientific information systems and databases															

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
985 - Agri4Climate Climate change impacts, adaptation and GHG emissions in the agricultural sector	The goal is to undertake research and development in the field of climate change impact assessment on agricultural yields and production, including the evaluation of adaptation measures to mitigate the climate change impacts upon agricultural production. Climate policy and mitigation/adaptation options will be assessed concerning GHG emissions in the EU agricultural sector, using integrated assessment tools (CAPRI).	JRC.H.4 Franciscus DENTENER	3.1.1.b	CLIMA	n/a	Peter WEHRHEIM, DG CLIMA HoU A2; Velina PENDOLOVSKA, DG CLIMA A3; Ignacio Seoane, DG AGRI, HoU H4	AGRI	EEA - European Environment Agency MS EU - Member states EU	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (70%)	JRC.H.3 JRC.H.7	996 - C-RES-EU Fostering Climate Resilience in Europe 66 - ANIMAL CHANGE ANIMAL CHANGE	INS-UR	1	Climate change impact & adaptation in EU Agriculture	Assessment of past meteorological variability and yields as a proxy for climate change impacts and adaptation measures for agricultural production in Europe through data analysis, and bio-physical and integrated agricultural modelling. Annual updates in 2015, 2016.	31/07/2015	Scientific and policy reports
														2	Climate change impact & adaptation in EU Agriculture	Assessment of past meteorological variability and yields as a proxy for climate change impacts and adaptation measures for agricultural production in Europe through data analysis, and bio-physical and integrated agricultural modelling. Annual updates in 2015, 2016.	31/07/2016	Scientific and policy reports
														3	Developments in agricultural CC modeling	Research activity in the field of crop modelling and linking crop model with climate change scenarios, within the BioMA modelling platform. Testing climate sensitivity and improving parameterization, including the role of N-fertilizer.	31/12/2015	Scientific and policy reports
														4	Developments in agricultural CC modeling	Research activity in the field of crop modelling and linking crop model with climate change scenarios, within the BioMA modelling platform. Testing climate sensitivity and improving parameterization, including the role of N-fertilizer.	31/12/2016	Scientific and policy reports
														5	GHG inventory for agriculture	Annual contribution to EC GHG inventory system for the agricultural sector in support of the JRC/CLIMA MoU "Implementation of the current reporting and review requirements under the Kyoto protocol and the UNFCCC and preparation for fulfillment of future monitoring, reporting and verification (MRV) requirements" and other references. Delivered annually in July (2015, 2016).	31/07/2015	Scientific and policy reports
														6	CAPRI development of GHG and LCA module	Progress report on the implementation of GHG emissions and LCA into the CAPRI model, including yearly updates on GHG emission trends according to the UNFCCC categories and LCA assessment for EU countries and EU NUTS2 region, and eventually GHG impact assessment of CAP policy proposals under discussion. In support of the JRC/CLIMA MoU "Future greenhouse gas emissions from agriculture and forestry". Annual reports, Dec 2015, 2016.	15/12/2015	Scientific and policy reports
														7	GHG inventory for Agriculture	Annual contribution to EC GHG inventory system for the agricultural sector in support of the JRC/CLIMA MoU "Implementation of the current reporting and review requirements under the Kyoto protocol and the UNFCCC and preparation for fulfillment of future monitoring, reporting and verification (MRV) requirements" and other references. Delivered annually in July (2015, 2016).	30/07/2016	Scientific and policy reports
														8	CAPRI development of GHG and LCA module	Progress report on the implementation of GHG emissions and LCA into the CAPRI model, including yearly updates on GHG emission trends according to the UNFCCC categories and LCA assessment for EU countries and EU NUTS2 region, and eventually GHG impact assessment of CAP policy proposals under discussion. In support of the JRC/CLIMA MoU "Future greenhouse gas emissions from agriculture and forestry". Annual reports, Dec 2015, 2016.	14/12/2016	Scientific and policy reports
995 - CLIMEcoS Assessment of climate - ecosystem interactions through Earth System Modelling and Earth Observation	Support a forward-looking climate policy by addressing large uncertainties in climate change impacts on ecosystems, and land-climate interactions. Climate research based on the integration of Earth System Modelling and Earth Observations. Analysis of knowledge gaps, interactions and feedback mechanisms in the Earth system. Anticipation of emerging climate issues in Europe and in the World.	JRC.H.7 Alessandro CESCATTI	3.1.1.b	CLIMA	n/a	Rosario Bento Pais (CLIMA.C3); Peter ZAPFEL (CLIMA.A4)	AGRI DEVCO ECHO ENV	EEA - European Environment Agency UNEP - United Nations Environment Programme (UNEP)	01/01/2014 31/12/2016	1-Foresight studies & techniques (40%) 5-Monitoring, verification and surveillance (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (30%)	JRC.H.2	1007 - LUISA Application of the LUISA Modelling Platform to Regional Policies and Territorial Cohesion 991 - NAHA Natural Hazards - Droughts, Floods & Forest Fires	INS-RS	201501	Assessment of the future impacts of climate trends	Updates of JRC Earth System Modelling platform to assess impacts on the terrestrial biosphere, accounting for potential land-atmosphere-climate feedbacks. Model runs to investigate interactions of future changes in climate, air quality & land use, biomass, based on Representative Concentration Pathways and predict vulnerability and risks to the biosphere and the terrestrial Carbon pools.	31/12/2015	Scientific and policy reports
														201502	Mitigation potentials of land management	Quantification of the net climate effect, including both biophysical (albedo, energy budget, evap.) and biogeochemical (Carbon uptake) effects, of mitigation strategies based on changes in land use that affect energy, water and carbon balance of the biosphere. Evaluation of mitigation plans based on land cover change (e.g. art. 4.3. of the Kyoto protocol), reduced deforestation (e.g. REDD+) and on surface-based geo-engineering techniques.	30/12/2015	Scientific and policy reports
														201503	Regional climate change scenarios for IA	Provision of high resolution climate change scenarios for Europe and Africa for use by JRC impact assessment groups (floods, droughts, agriculture, etc.). Data consists of a multi-model multi-scenario (rcp4.5 and rcp8.5) ensemble based on the CORDEX activity of the World Climate Research Program. The data will be corrected for biases in temperature and precipitation, provided an adequate dataset of observation.	31/12/2015	Scientific information systems and databases
														201601	Assessment of the future impacts of climate trends	Updates of the JRC Earth System Modelling platform to assess future impacts of climate trends and extremes on the biosphere, accounting for possible negative carbon feedbacks. Fully coupled model runs to investigate the interactions of simultaneous future changes in climate, air quality and land use, biomass. Comparative analysis of new climate scenarios based on Representative Concentration Pathways (RCPs) and predict vulnerability and risks for the biosphere.	31/12/2016	Scientific and policy reports
														201602	Mitigation potentials of land management	Quantification of the net climate effect, including both biophysical (albedo, energy budget, evap.) and biogeochemical (Carbon uptake) effects, of mitigation strategies based on changes in land use that affect energy, water and carbon balance of the biosphere. Evaluation of mitigation plans based on land cover change (e.g. art. 4.3. of the Kyoto protocol), reduced deforestation (e.g. REDD+) and on surface-based geo-engineering techniques.	31/12/2016	Scientific and policy reports
														201603	Climate change projections for Africa (FRACTAL)	In the context of the potential participation to the project FRACTAL (Future Resilience for African Cities and Lands) climate change projections will be analysed, focusing on extreme climate events such as heat wave magnitude and dry spell durations. Data consists of a multi-model multi-scenario (rcp4.5 and rcp8.5) ensemble based on the CORDEX activity of the World Climate Research Program. [Deliverable conditional on participation as affiliated organisation to project FRACTAL, if selected]	31/12/2016	Scientific and policy reports
996 - C-RES-EU Fostering Climate Resilience in Europe	The project reflects on institutional and social options for adapt and building greater resilience in the EU against weather driven risks in present and future climates. It focuses on adaptation and resilience building in major economic sectors. It aims at improving the understanding of the interplay between local, national and EU actions, and about the effectiveness of mainstreaming adaptation and resilience building into existing policies.	JRC.H.7 Michele CADDIA	3.1.1.b	CLIMA	n/a	C3 Rosario Bento-Pais	AGRI ECHO ENER ENV MOVE REGIO SANTE	EEA - European Environment Agency OECD - Organisation for Economic Co-operation and Development (OECD) UN FCCC - UN Framework Convention on Climate Change (UNFCCC) UNEP - United Nations Environment Programme (UNEP) WHO - World Health Organization	01/01/2015 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	INS-RS	1070 - HELIX High-End cLimate Impacts and eXtremes 1068 - GAP PESETA Deepening & refining analyses of CC impacts as well as global impacts and their implications for EU 177 - ENHANCE Improving resilience to catastrophic natural hazards through new risk-management partnerships 81 - IMPACT2C	INS-RS	201501	Mainstreaming of adaptation and climate resilience	Work with, a.o., the EC Interservice Group on Adaptation and the EC ISG on Disaster Risk Management to map the current sectorial (disaster risk management, energy, water, agriculture, transport, health ...) EU policy initiatives, for analysing their relevance and effectiveness for adaptation and resilience building to weather driven risks in present and future climates. Collaboration with JRC Units H01, H03, H04	31/12/2015	Scientific and policy reports
														201502	Communicating resilience and sustainability	Analysis of different narratives regarding resilience and sustainability across civil society. Analyse to what extent EC communication efforts consider such narratives. Support the writing of upcoming EC Communications. Collaboration with Unit JRC.J.6	31/12/2015	Scientific and policy reports
														201601	Evaluation of multi-level adaptation and resilience	Evaluation of institutional actions at local, national and EU level, to adapt to build resilience against cross boundary weather driven disasters, based on some case studies (e.g. heat waves 2003, 2006, floods 2002, 2013).	30/12/2016	Scientific and policy reports
														201602	Modeling Framework for Resilience	Study on how JRC's integrated modeling framework LUISA and its baseline scenario's can be used to quantify the essentially dynamic aspects of resilience, and to quantify the effectiveness of mainstreaming. Collaboration with Unit JRC.H.8	30/12/2016	Scientific information systems and databases
1068 - GAP PESETA Deepening & refining analyses of CC impacts as well as global impacts and their implications for EU	This is an AA for DG CLIMA jointly carried out by IES and IPTS. JRC-IES will assess climate impacts in ecosystems, coastal areas and droughts. IPTS task relates to the assessment of how climate impacts in the rest of the world will affect the EU. In other words, IPTS will assess how climate damages produced outside the EU will affect the EU28 for which general equilibrium model will be used.	JRC.H.7 Luc FEYEN	3.1.1.b	CLIMA	CLIMA	Maddalena DALI (CLIMA.C.3)	ECHO		06/12/2013 05/09/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	JRC.H.8 JRC.J.1		COM-AA	1	Economic analysis of climate impacts	o Deliverable 1a: a database on past droughts and impacts of these events on different sectors o Deliverable 1b: summary report on the assessed impacts of current and projected droughts' events. The report should also identify further research needs in this area.	05/09/2015	JRC contributions to policy documents
														2	Economic analysis of climate impacts	o Deliverable 2a: Maps representing (current and future) flood inundation risks. o Deliverable 2b: summary report on the assessed impacts of current and projected coastal impacts of climate change. The report should also identify further research needs in this area.	05/09/2015	JRC contributions to policy documents
														3	Economic analysis of climate impacts	o Deliverable 3: climate impact on ecosystem services.	05/09/2015	JRC contributions to policy documents
														4	Economic analysis of climate impacts	o Deliverable 4: summary report on how climate impacts in the rest of the world can affect Europe for at least three climate impact categories (agriculture, energy and sea level rise).	05/09/2015	JRC contributions to policy documents
1070 - HELIX High-End cLimate Impacts and eXtremes	This FP7 project will look into the climate impacts at the world scale. IPTS will lead the integration of biophysical impacts into an economic model (workpackage 5).	JRC.J.1 Juan Carlos CISCAR MARTINEZ	3.1.1.b	CLIMA RTD	RTD	Maddalene Dali, DG CLIMA; Tom van Ierland, DG CLIMA	ECHO		01/11/2013 31/10/2017	5-Monitoring, verification and surveillance (100%)			COM-IA	2	Preliminary global assessment of impacts	Preparatory PPT towards report on preliminary global assessment of impacts under 4 degrees (scheduled May 2016, deliverable D5.2)	16/11/2015	Oral presentations
														3	Global assessment of impacts under 4 degrees	Report on preliminary global assessment of impacts under 4 degrees (May 2016, deliverable D5.2)	31/05/2016	Oral presentations
1073 - ECONADAPT Economics of climate change adaptation in Europe	Under this FP7 project, IPTS will use CGE modelling to analyse how the private agents (i.e. market adjustments) react to the direct impact of climate change. The IPTS will model so-called "autonomous" or private adaptation in the following economic sectors: agriculture, energy, floods and coasts (subject to revision).	JRC.J.1 Juan Carlos CISCAR MARTINEZ	3.1.1.b	CLIMA RTD	RTD	Maddalena Dali (CLIMA.C.3); Andrea Tilche (HoU RTD.1.4)		- UNIVERSITY OF BATH	01/01/2014 31/12/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	2	ICES and GEM-E3 models benchmarks	comparison and benchmarks the ICES model and GEM-E3 models in view of alignment of the tools and possible "harmonization" (September 2015, Deliverable D8.1)	30/09/2015	Oral presentations
														3	autonomous adaptation with GEM-E3	Final report on the FP7 project results on the modelling autonomous adaptation with GEM-E3 (February 2016, Deliverable D8.2)	29/02/2016	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
1700 - ICE-ARC Ice, Climate, and Economics	The concept of the project is to understand and quantify the multiple stresses involved in the change in the Arctic marine environment. Particular focus is on the rapid retreat and collapse of the Arctic sea ice cover and to assess the climatic (ice, ocean, atmosphere and ecosystem), economic and social impacts of these stresses on regional and global scales.	JRC.H.7 Alessandro CESCATTI	3.1.1.b	CLIMA RTD	RTD	Rosario Bento Pais (CLIMA.C3); Peter ZAPFEL (CLIMA.A4)	ENV	UNEP - United Nations Environment Programme (UNEP)	01/01/2014 31/12/2017	1-Foresight studies & techniques (50%) 5-Monitoring, verification and surveillance (50%)			COM-IA	1	Arctic and boreal terrestrial ecosystems	Report on the observed temperature sensitivities and past trends of vegetation parameters that drive the terrestrial carbon balance. Earth observations of biophysical land properties (e.g. albedo) and of plant traits (e.g. leaf area index, phenology) will be used to detect climate induced changes in ecosystem functioning.	31/12/2016	Scientific and policy reports	
														2	Scenario analysis future impacts of Arctic warming	Report on the predicted changes in the CO2 exchange of Northern terrestrial ecosystems. Novel climate scenarios for the Boreal-Arctic zone will be used to force the Community Land Model (CLM 4.5) in order to predict the future dynamic of the biogeochemical and biophysical land properties at Northern latitudes	31/12/2017	Scientific and policy reports	
2021 - PACAR Policies and atmospheric change impacting the Arctic	PACAR evaluates how policies on air pollution and climate impact the Arctic by studying the atmospheric life cycle of short lived pollutants, like black carbon, emitted in the Northern Hemisphere and transported to the Arctic and their potential impact on the regional climate. It further develops the link between the EU policy framework on the Arctic and the JRC strategy.	JRC.H.2 SRDAN DOBRICIC	3.1.1.b	CLIMA	n/a	KLAASSEN Gerardus (CLIMA.A.4); ZUBER Andre (ENV.C.3); KIRYLLO Joanna (REGIO.DGA2.D.1); BIENLIK Zuzanna (EEAS.III.B.1)	ENV REGIO RTD	AACA - Adaptation Actions for a Changing Arctic AMAP - Arctic Monitoring and Assessment Programme IGAC - International Global Atmospheric Chemistry (IGAC) UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE UN FCCC - UN Framework Convention on Climate Change (UN-FCCC) UNEP - United Nations Environment Programme (UNEP) US-EPA - US Environmental Protection Agency WB - World Bank WHO - World Health Organization	01/01/2015 31/12/2016	4-Methods and testing (20%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)		933 - ICOS - JRC GHG assessments - Support to the Integrated Carbon Observation System	INS-RS	1	EU policy framework and JRC Arctic activity	White paper on the development of the EU policy framework on the Arctic as input to the Arctic related activity in JRC.	30/06/2015	Scientific and policy reports	
														2	Atmospheric transport of pollution to the Arctic	A report will evaluate the atmospheric transport of pollution to the Arctic. The study will develop a novel mathematical methodology to combine the information from the circulation model outputs and atmospheric reanalysis in order to correlate weather patterns with transport and deposition of black carbon and other pollutants. The estimates of concentrations and depositions of atmospheric pollutants will be made for the Arctic together with estimates of uncertainties.	31/12/2015	Scientific and policy reports	
														3	Atmospheric pollution in the next decades	The study will estimate the hemispheric transport and deposition of black carbon and other pollutants to the Arctic in the next decades, and the impact of different ongoing and future policy options and weather patterns arising from the climate change. In addition to the statistical mathematical methodology a global fully coupled climate model will be applied. Policies will be evaluated for contemporary reducing pollution and climate change in the Arctic.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														4	Global warming and infectious diseases	Study of the impact of the global warming and the changing environmental conditions in the Arctic on the spreading of vector-borne infectious diseases. Development of mathematical modelling approaches for the transmission dynamics of the diseases and their impact on human health. The approaches will be applied to run scenarios and predict the spread of the diseases relevant for the Arctic.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
3.1.1.c Develop an integrated modelling capacity covering all relevant sectors and land use at global, EU and Member State level, taking account of potential spillover effects, in order to analyse climate mitigation and adaptation policies. Carry out an ex-ante impact analysis of EU-specific climate policy instruments and collaborate with international partners on climate policies and global scenarios.																			
66 - ANIMAL CHANGE ANIMAL CHANGE	The demand for livestock products is growing and climate change threatens food security and rural livelihoods. Policies that are currently in place may prove insufficient. Livestock systems are a significant contributor to greenhouse gases (GHG) but there is much uncertainty. ANIMALCHANGE will for the first time provide a vision of the future of the livestock sector under climate change, providing an integration of Mitigation and Adaptation options for sustainable Livestock production.	JRC.H.4 Franz WEISS	3.1.1.c	CLIMA RTD	RTD	Peter WEHRHEIM (CLIMA.A.2)	AGRI DEVCO		01/03/2011 28/02/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	1	Multi-scale model cluster	Final report on Task 2.4 (Consistent multi-scale modelling cluster)	28/02/2015	JRC Technical reports	
171 - ADVANCE IPTS Advanced Model Development & Validation for improved analysis of cost & impacts of mitigation policy	ADVANCE is a FP7 project in which the IPTS will lead the Work Package 6 on Impacts of mitigation policies in the EU and beyond. Moreover IPTS will participate in the WP 1, 2, 3 and 5, as well as in WP 7 and 8. The IPTS will bring in the GEM-E3 model and the POLES model. (see http://www.fp7-advance.eu/?q=content/partners). The IPTS workpackages are at the beginning and in the last period of this 4year project .	JRC.J.1 Bert SAVEYIN	3.1.1.c	CLIMA RTD	RTD	Willem van Ierland (CLIMA.A.4); Andrea Tilche (HoU RTD.1.4)	ENER		01/01/2013 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-IA	2	analysis of supportive policies & sector impact	Report containing an economic analysis of a set of supportive policies economic analysis of a set of sectoral impacts.	31/10/2016	JRC contributions to policy documents	
														3	Assessment of EU low-carbon roadmaps	Assessment of EU low-carbon roadmaps: including comparability with related efforts in other major economies and a discussion of the compatibility with the 2°C target [month 46]	31/12/2016	JRC contributions to policy documents	
246 - CCMFF Resilience of Large Investments in Europe to Climate Change	Provide support to the EU Climate Change adaptation policy. First project to spatially assess the potential impacts of climate variability and climate change on different types of investments, in particular EU-funded projects	JRC.H.7 Luc FEYEN	3.1.1.c	CLIMA	CLIMA	Mugurel George PAUNESCU			15/10/2012 14/06/2015	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)	JRC.H.8		COM-AA	1	Maps of hazard impacts on current EU investments	Maps representing current individual and multi-hazard impacts on current EU investments and critical economic assets [Climate change, adaptation & health strategic activity]	14/06/2015	JRC Technical reports	
1729 - LUC4C Land-use change: assessing the net climate forcing, and options for climate change mitigation	In a world that faces population growth, changing consumption patterns and affluence, whilst striving to achieve an equitable and acceptable level of well-being for all people, climate change and land-use change are the two foremost environmental challenges to society. LUC4C will advance our fundamental knowledge of the interactions between climate change and land-use change, and in doing so develop a framework for the synthesis of complex earth system science into policy guidelines.	JRC.H.7 Alessandro CESCATTI	3.1.1.c	CLIMA RTD	RTD	Peter WEHRHEIM, CLIMA HoU A2, Alexandre PAQUOT, CLIMA, HoU A3			01/11/2013 31/10/2017	1-Foresight studies & techniques (100%)			COM-IA	52	Land use and climate change	Report on the performance of ESMs to simulate changes in net climate forcing due to LULUC: overview on the within- and across-pixel performance of DGVMs in assessing LULUC-mediated climate impacts in the different climate zone and an assessment of the capacity of ESMs in detecting observed changes in bph and bgc land properties over large spatial domain	30/11/2016	Scientific and policy reports	
2026 - CLIMA2015 CLIMA2015: Analysis & Modelling of Mitigation Scenarios	CLIMA2015 will provide access to DG CLIMA to IPTS models for policy evaluation and preparation process. This builds upon a series of model and energy scenario analysis for EU targets. This service is a support to CLIMA for the discussion on the Kyoto follow up. The analyses include application of POLES, GEM-E3 and POTENCIA. The latter model will also undergo a validation phase under this contract.	JRC.J.1 Hans Peter RUSS	3.1.1.c	CLIMA	CLIMA	J. Nil, CLIMA A 4	ENER RTD		01/01/2015 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		1074 - Integrated-CC-Assess Integrated Multisectoral Policy Assessment 926 - CLIMA2012 Analysis and Modelling of Mitigation Scenarios	COM-AA	1	Annual Report 2015	Annual report on research progress on economic energy and emission scenarios	31/12/2015	JRC Technical reports	
														2	Annual Report 2016	Annual report on research progress on economic energy and emission scenarios	31/12/2016	JRC Technical reports	
3.1.1.d Contribute to the analysis of global scenarios within the Integrated Assessment Modelling Consortium.																			
1074 - Integrated-CC-Assess Integrated Multisectoral Policy Assessment	This institutional project comprises the necessary tasks for building up, testing, and validate the modelling tools to be used for all GEM-E3 for economics of sustainability in a broad sense, i.e. climate policy, taxation and economic policies, air pollution policies. This project maintains the GEM-E3 economic model, in particular regarding its database and code for policy support applications. It also includes ad-hoc policy support requested by ENER, CLIMA, ENV, TAXUD and ECFIN	JRC.J.1 Juan Carlos CISCAR MARTINEZ	3.1.1.d	CLIMA	n/a	Tom van Ierland, DG CLIMA	ECFIN ENER ENV TAXUD		01/07/2013 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	2	Summary of policy support	summary policy support period 2014-2015	15/09/2015	Scientific and policy reports	
														3	GEM-E3 model documentation	update GEM-E3 model documentation with regard to previous 2014 version	15/09/2016	JRC Technical reports	
3.1.1.e Monitor and analyse GHG concentrations and fluxes to support integrated air pollution and climate policies. Analyse available measurements of ozone-depleting substances.																			
84 - INGOS Integrated non-CO2 Greenhouse gas Observation System	InGOS supports and integrates the European observing capacity for non-CO2 greenhouse gases (NGHGs) and prepares for integration of the NGHGs into ICOS. The most important objectives are: (1) improvement of the quality of atmospheric NCGHG measurements (CH4, N2O,halocarbons) (2) integration of in-situ measurements with remote sensing techniques (3) improved estimates of European NCGHG emissions by inverse modelling techniques, including model validation (4) innovations in NCGHG measurements	JRC.H.2 Peter BERGAMASCHI	3.1.1.e	CLIMA	RTD	Valina Pendolovska (DG CLIMA Unit A3 "Monitoring, Reporting, Verification" / Climate Change Committee WG1) Valina.PENDOLOVSKA@ec.europa.eu			01/10/2011 30/09/2015	5-Monitoring, verification and surveillance (100%)				COM-IA	1	European CH4 inversions	European CH4 inversions using improved CH4 measurements from INGOS WP 2 and 3 (NA2 and NA3)	31/03/2015	Scientific information systems and databases
															2	European N2O inversions	European N2O inversions using improved N2O measurements from INGOS WP 2 and 3 (NA2 and NA3) (InGOS D15.10)	31/03/2015	Scientific information systems and databases
															3	Analysis of European CH4 emissions	Detailed model intercomparisons and analysis of European CH4 emissions (InGOS D15.12)	30/06/2015	Scientific and policy reports
															4	Analysis of European N2O emissions	Model intercomparisons and analysis of European N2O emissions based on results from D15.10 (InGOS D15.13)	30/06/2015	Scientific and policy reports
85 - ECLAIRE Effects of climate change on air pollution impacts and response strategies for European ecosystems	ECLAIRE investigates the ways in which climate change alters the threat of air pollution on European land ecosystems. Based on field observations, experimental data and models, it establishes new flux, concentration and dose-response relationships, as a basis to inform future European policies.	JRC.H.7 Alessandro CESCATTI	3.1.1.e	CLIMA RTD	RTD	Rosario Bento Pais, CLIMA, HoU C3	ENV	EEA - European Environment Agency	01/10/2011 30/09/2015	1-Foresight studies & techniques (100%)			COM-IA	201501	Final report	Scientific report on historic and future impacts of ozone and nitrogen depositions on the primary productivity of terrestrial ecosystems in Europe, through an ensemble application of dynamic vegetation models.	30/09/2015	Scientific and policy reports	

JRC WORK PROGRAMME 2015 - 2016																	Creation: 14/01/15 11:23:02	
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
3.1.2 Low-carbon technologies																		
3.1.2.a Model and measure the real-world fuel consumption and CO2 emissions of light- and heavy-duty road vehicles. Support the assessment of eco-innovation CO2 savings and derogations for small-volume car- and van manufacturers, and niche car manufacturers.																		
230 - CORE CO2 Reduction for long distance transport	CORE (CO2 Reduction for long distance transport) aims at demonstrating a substantial reduction of CO2 emissions, 15% improved fuel efficiency compared to a EURO V engine and at the same time fulfilling EURO VI emission legislation. The JRC will assess, by means of testing campaigns both in the laboratory and on the road with portable system, the emission performances of the advanced vehicles concepts developed in the project.	JRC.F.8 Giorgio MARTINI	3.1.2.a	CLIMA RTD	RTD	William Bird (RTD H2)	MOVE		01/01/2012 31/12/2015	4-Methods and testing (90%) 5-Monitoring, verification and surveillance (10%)			COM-IA	1	Assessment of the HD Natural Gas technology	Experimental assessment of the Natural Gas technology under real life operating conditions. Testing on the demonstrator LNG/CNG truck will complete the technology assessment with regards to sensitivity for real life test conditions: demonstrator truck will be tested at the beginning of the project to define the reference figures, being equipped with the conventional NG HD engine unit and at the end to assess fuel economy and emissions of the developed technologies.	30/09/2015	Scientific and policy reports
662 - CO2 emissions CO2 emissions from light and heavy duty transport	Support to the development/implementation of the European policy on CO2 emission from vehicles including: - Assessment of eco-innovations and updating the technical guidelines for their approval, development of a methodology to monitor eco-innovations - Development of methodology to monitor CO2 emissions from heavy duty vehicles (including hybrids) - Correlate the existing type approval test procedure with the new worldwide harmonized procedure (WLTP) Follow-up of the project expected for 2016	JRC.F.8 Giorgio MARTINI	3.1.2.a	CLIMA	CLIMA	LINDVALL Susanna (CLIMA) -<Susanna.Lindvall@ec.europa.eu>	ENV GROW	ACEA - European Automobile Manufacturers Association CLEPA - European Association of Automotive Suppliers EUCAR - European Council for Automotive R&D (EUCAR)	01/01/2014 31/12/2016	4-Methods and testing (30%) 5-Monitoring, verification and surveillance (35%) 7-Scientific, technical & policy consultancy (35%)		659 - Vehicle Emissions Support to European vehicle/engine emissions legislation	COM-AA	4	Further development of VECTO and related procedure	A report setting out the recommended approach to further develop the VECTO (vehicle simulation tool) to include other categories of heavy-duty vehicles	30/06/2015	Scientific and policy reports
														6	Future of CO2 transport policy - report 2015	Annual report on main technology developments and their potential emission abatement impact - It is necessary as part of the preparation of future strategies to evaluate technological development and availability of CO2 saving technologies within the HDV sector	30/06/2015	Scientific and policy reports
														8	Impact of the WLTP on CO2 Reg. implementation	2015 Report summarizing the findings of the assessment of the impact of the WLTP on implementation of Regulations (EC) No 443/2009 and (EU) No 510/2011 with recommendations on whether or how to address identified impacts, including recommendations on the need to re-design the CO2 data monitoring system	30/06/2015	Scientific and policy reports
														9	Assessment of eco-innovations -2015	Assessment of the applications for eco-innovations submitted by automotive manufacturers and suppliers in the framework of Regulation (EU) No 510/2011 and Regulation (EC) No 443/2009.	31/12/2015	JRC contributions to policy documents
														10	Assessment of eco-innovations - 2016	Assessment of the applications for eco-innovations submitted by automotive manufacturers and suppliers in the framework of Regulation (EU) No 510/2011 and Regulation (EC) No 443/2009.	31/12/2016	JRC contributions to policy documents
														11	Impact of the WLTP on CO2 Reg. implementation	2016 Report summarizing the findings of the assessment of the impact of the WLTP on implementation of Regulations (EC) No 443/2009 and (EU) No 510/2011 with recommendations on whether or how to address identified impacts, including recommendations on the need to re-design the CO2 data monitoring system	30/06/2016	Scientific and policy reports
3.1.2.b Develop GHG calculation methodology and sustainability criteria for alternative transport fuels, in particular bioenergy/biofuels. Assess indirect land-use change emissions caused by the use of biofuels in the EU.																		
678 - ILUC Assessment of Indirect Effects and environmental impacts from the use of Biofuels and bioenergy	The project aims at assessing sustainability of biofuels/bioenergy use, with a specific focus on the indirect land use change (ILUC) emissions estimates and the evaluation of environmental and economic impacts. The work includes calculations of ILUC for new crops and potential ILUC impacts on biodiversity. In addition, it also addresses the environmental/economic effects of diverting wastes/residues towards biofuels production, and the potential and impact of new generation/emerging biofuels.	JRC.F.8 Luisa MARELLI	3.1.2.b	CLIMA	n/a	Sarah Sheridan (CLIMA C1); Oyvind Vessia (ENER C1), Andreas Pilzecker (ENER C1); RTD F.2, RTD F.3	AGRI ENER ENV RTD		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			INS-RS	1	Evaluation of ILUC studies	Ad hoc technical support to Commission's leading DGs on ILUC, including: evaluation of ILUC studies and methodologies, technical support to DG ENER's contractors for their "ILUC quantification" study, participation in the advisory board and steering committee of this study contract. Continuous work upon request of customer DGs.	13/12/2016	JRC contributions to policy documents
														4	Effects of the use of biomass residues/waste	Evaluation of direct and indirect effects of the use of biomass residues for energy/biofuels, through: -analysis of quantities, conversion technologies, geographic distribution of wastes/residues used currently or in a future perspective for bioenergy. -analysis of uses of residues in absence of bioenergy demand -quantification of environmental/economic effects of increased use of residues (removal/displacement effects, impacts on soil properties and related GHG emissions, water, biodiversity)	15/12/2015	Scientific and policy reports
														5	Impacts of biofuels use on biodiversity	Technical report on assessing the potential impacts of land use change due to biofuels on biodiversity.	31/05/2016	Scientific and policy reports
														6	Research on advanced biofuels	Technical reports providing assessment of the real potential of advanced biofuels. This includes monitoring the development, market penetration/deployment of advanced biofuels and cost-benefits analysis. The work will also provide an analysis of efficiency of conversion technologies, production costs and environmental impacts of emerging biofuels and their potential for commercialization. On-going work in 2015-2016.	16/12/2016	Scientific and policy reports
679 - Biofuels GHG savings Calculation of GHG savings from biofuels and bioenergy pathways	Calculation of greenhouse gas (GHG) emissions for emerging biofuel and bioenergy pathways, update of the existing ones, evaluation of comparative costs of GHG savings, biomass carbon accounting, and analysis of the effects of removal of agricultural/forest residues. The work also supports the evaluation of sustainability schemes in RED and FQD.	JRC.F.8 Luisa MARELLI	3.1.2.b	ENER	n/a	Oyvind Vessia (ENER C1), Andreas Pilzecker (ENER C1), Philip Owen (HoU, CLIMA C2)	AGRI CLIMA MARE MOVE RTD		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			INS-RS	1	Calculation of default GHG emissions	Update of default GHG savings for emerging biofuel, bioliquid and biomass pathways, and update of existing pathways contained in annexes of the Renewable Energy and Fuel Quality Directives. The work will also include analysis of underlying uncertainties in scientific data provided for policy use in this context.	15/12/2016	Scientific and policy reports
														2	Technical support on default values	Technical assistance to the Commission (mainly DG ENER) in replying to stakeholders and third parties questions/comments to default GHG emissions values reported in the Renewable Energy and Fuel Quality Directives. This is on-going work made upon request of customer DGs.	16/12/2016	Scientific and policy reports
														3	Carbon emissions from forest bioenergy pathways	Support to Commission in the evaluation of environmental, economic, market-mediated impacts of increased use of forest biomass and agricultural/forest residues for bioenergy. The work includes: • Identification of the "most critical" residues pathways and amount of "sustainable removal" • Environmental impacts and time-dependent GHG savings (through LCA analysis) of bioenergy pathways • Present and expected share of the "critical feedstocks" in future scenarios (e.g. 2020, 2030, 2050)	31/05/2016	Scientific and policy reports
														4	Research on the potential of algae biofuels	Study on the environmental/economic benefits and potential for commercial scale production of algae, by: •Identification of most promising algal strains, refining systems and enabling technologies •Assessment of the real yield potential attainable, culture density, nutrient uptake, ease of harvest, photosynthetic efficiency etc. •Assessment of the energy return on investment (EROI), to compare with other transportation fuels •Investigation on the real land requirement for algae cultivation	31/12/2015	Scientific and policy reports
														5	Costs of GHG savings using biofuels	Emissions estimates in JEC-WTW study can be combined with approximate cost figures to provide costs of GHG savings of biofuels use, which is an important policy parameter. A technical report on the issue will be produced.	31/12/2015	Scientific and policy reports
														6	Contribution to EIBI	This work provides support the European Industrial Bioenergy Initiative (EIBI) in the exploitation and demonstration of innovative bioenergy technologies that will make a substantial contribution to the 2020 20% renewable energy target. Continued and expanding international collaboration in the area of bioenergy, with specific attention to biogas/biomethane, and including regular contribution and reporting on the European Industrial Bioenergy Initiative (EIBI) under the umbrella of the SET-Plan	15/12/2015	Scientific and policy reports
680 - WTW Analysis Well-to-Wheel analysis of Alternative Transportation Fuels	The project assesses the effectiveness of EU low-carbon fuel policies and fuel alternatives for representative powertrains, via 1) Well-to-Wheel (WTW) analyses (greenhouse gas and energy implications of replacing conventional fuel mix with alternatives); 2) Fleet development and energy demand projections in the most energy intensive modes, road and air.	JRC.F.8 Luisa MARELLI	3.1.2.b	CLIMA	n/a	Philip Owen (HoU, CLIMA C2); Daniela Rosca (HoU, MOVE C1)	ENER MOVE	CONCAWE - CONservation of Clean Air and Water in Europe EUCAR - European Council for Automotive R&D (EUCAR)	01/01/2014 31/12/2016	2-Information systems & services (20%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)			INS-RS	1	Update of the Well-to-Tank (WTT) Analysis	Update of the Well-to-Tank (WTT) analysis, including validation/improvement revision of modelling tools and data, methodology and data revisions and implementation in a dedicated (existing) tool for fleet and energy demand projections. This activity is a contribution to the JEC (JRC-EUCAR-CONCAWE) consortium, in the framework of research Collaboration Agreement 31787 of 17/09/2010: u	16/12/2015	Scientific and policy reports
														2	WTW analysis of Air transport	To provide support to the Commission in assessing the feasibility and impacts of alternative fuels in air transport, including projections and monitoring, reporting and verification of alternative fuels used in air transport, so as to estimate environmental and economic impacts. Contribution to the management and participation in the International Civil Aviation Organisation (ICAO) Alternative Fuels Task Force, including the preparation of working papers and technical reports.	16/12/2015	Scientific and policy reports
														3	Update of the Well-to-Wheels (WTW) report	Update of the Well-to-Wheels (WTW) report. The work will include further developing and updating the existing reports and datasets. This activity represents a technical contribution to the JEC (JRC-EUCAR-CONCAWE) consortium, in the framework of research Collaboration Agreement 31787 of 17/09/2010.	30/06/2015	JRC Scientific support
														4	Update of the WTT and TTW reports and datasets	Further development and update of the existing reports and datasets: Well-to-Tank (WTT) and Tank-to-Wheels (TTW). This activity is a contribution to the JEC (JRC-EUCAR-CONCAWE) consortium, in the framework of research Collaboration Agreement 31787 of 17/09/2010.	16/12/2016	JRC Scientific support
														5	Contribution to AFCC	Contribution to a conception report for the creation of the JRC Competence Centre on Alternative Fuels in Transport, in support to the Clean Power for Transport policy of DG MOVE	31/12/2015	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1715 - DEFAULT VALUES Support the implementation of Dir 2009/28/EC on promotion of use of energy from renewable sources	The project provides technical assistance to DG ENER to fulfil Commission's obligations under the Directive 2009/28/EC and to facilitate the implementation of the sustainability scheme. This implies: - Calculating greenhouse gas savings for additional biofuel, bioliquid and bioenergy pathways. - Developing guidelines and methodology for the appropriate calculation of cultivation emissions. - Assessing the current GHG saving thresholds	JRC.F.8 Luisa MARELLI	3.1.2.b	ENER	ENER	Andreas Pilzecker (ENER.C1)	AGRI CLIMA MARE MOVE RTD		23/12/2013 22/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Calculation of new and updated pathways	Perform calculations of biofuels, bioliquids and biomass production pathways as identified and defined by the JRC, based on the guidance set out in the Directive and in the Communication from the Commission on voluntary schemes and default values in the EU biofuels and bioliquids sustainability scheme.	22/12/2015	Scientific and policy reports
														3	Development of a database	Development of a transparent and easily accessible database containing all the input data for the default GHG values. Compile results of D.1 and D.2 in a format fully compatible with the current database.	22/12/2015	Technical systems
														4	Support to DG ENER for the evaluation of reports	Technical support in evaluating Member State's reports in context of compliance with Article 19.2.	22/12/2015	Scientific and policy reports
														5	Assessing current GHG saving thresholds and review	Report on the assessment of GHG savings reported for current biofuels in the EU from all possible sources, taking into account historical development, scope for further improvements and values for potential future pathways, in order to verify whether and how the thresholds should be changed.	29/06/2015	Scientific and policy reports
3120 - DEFAULT VALUES 2 Support the implementation of Dir 2009/28/EC on promotion of use of energy from renewable sources	The project provides technical assistance to DG ENER to fulfil Commission's obligations under the Directive 2009/28/EC and to facilitate the implementation of the sustainability scheme. This implies: - Calculating greenhouse gas savings for additional biofuel, bioliquid and bioenergy pathways. - Developing guidelines and methodology for the appropriate calculation of cultivation emissions. - Assessing the current GHG saving thresholds	JRC.F.8 Luisa MARELLI	3.1.2.b	ENER	ENER	Andreas Pilzecker (ENER.C.1)	AGRI CLIMA MARE MOVE RTD		01/01/2015 30/06/2017	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Calculation of new and updated pathways	Perform calculations of biofuels, bioliquids and biomass production pathways as identified and defined by the JRC, based on the guidance set out in the Directive and in the Communication from the Commission on voluntary schemes and default values in the EU biofuels and bioliquids sustainability scheme.	30/06/2017	Scientific and policy reports
														2	Options for improving GHG methodology	This report will list issues related to the current the GHG methodology - to be used for calculating GHG emissions - and options for addressing them.	30/06/2016	Scientific and policy reports
														3	Support to DG ENER for the evaluation of reports	Technical support in evaluating Member State's reports in context of compliance with Article 19.2.	30/06/2017	Scientific and policy reports
														4	Guidance document	Guidance document for the calculation of the values, also for an alternative approach based on emissions per weight harvested instead per energy content of resulting biofuels.	30/06/2016	Scientific and policy reports
3.1.2.c Provide technical support the implement the NER 300 funding programme.																		
1195 - NER300 Innovative low-carbon energy demonstration projects	Assess the progress achieved by the demonstration projects of innovative renewable and Carbon Capture and Storage (CCS) technologies, co-funded by the NER300 programme, through the scientific and technical review of the projects' reports on an annual basis; and evaluate their compliance against the requirements of the NER300 Decision with regard to knowledge sharing. Contribute to the processing and management and the dissemination of project information to the SET-Plan community and the public.	JRC.F.6 Evangelos TZIMAS	3.1.2.c	CLIMA	CLIMA	Piotr Tulej	ENER RTD		01/12/2013 30/11/2016	7-Scientific, technical & policy consultancy (100%)		765 - SETIS SET-Plan Information System 757 - ERESEET Emerging renewable energy technologies 430 - CCUS Carbon Capture Utilisation and Storage	COM-AA	1	Extension of NER300 KS system to non-NER300 proj.	On the basis of previous experience and NER300 specificities, an analysis note on the options, risks and preferred course of action to extend the NER300 knowledge sharing mechanism to non-NER300 projects so as to enhance its impact. This shall incorporate best practice, draw from lessons learnt from previous experiences, identify value added and benefits (both to NER300 projects and to the development of the sector at large), quantify/identify the potential pools of projects that may be interest	31/07/2015	Scientific and policy reports
														2	Annual report 2015	Annual report consolidating: a) all L2 relevant knowledge; b) aggregated/anonymised L1 information; c) project fiches. In addition to providing a picture of the year in question, these reports shall also trace over time key tendencies and the evolution of projects and relevant knowledge gained	15/10/2015	Scientific and policy reports
														3	Presentation at public events in 2015	Annually, four presentations and stand representations within the framework of some existing large EU-wide events, e.g. Sustainable Energy Week, Green Energy Week, the SET PLAN conference, selected based on the criteria set out in the dissemination strategy. The dissemination strategy shall identify suitable options for discussion with DG CLIMA for NER300 to reach out to the full spectrum of target audiences.	31/12/2015	Oral presentations
														4	Intervention at technology events in 2015	Annually, one presentation to key pan-EU annual conferences/events for each of the technology categories.	31/12/2015	Oral presentations
														5	Webpostings for the SETIS website in 2015	2 large articles on the NER300 conference and the annual report (circa 1250 words each), 4 medium articles on the participation to the 4 large public events (750 words) and 6-8 short articles on the presentations to the technology-specific conferences, each year.	31/12/2015	Public information documents
														6	Assessment Methodology of RK from non-NER300 proj.	Development of a methodology for the assessment of compliance with Relevant Knowledge sharing requirements for non-NER300 projects, which may decide to join the NER300 knowledge sharing mechanism	29/02/2016	Scientific and policy reports
														7	Meth. for assessing non-NER300 proj. applications	Development of the mechanism and procedures whereby non-NER300 projects may accede to the NER300 knowledge sharing mechanism. This shall address the definition of which types of project would be eligible, a methodology for assessing projects' eligibility, a mechanism for acceptance; membership and its duration; information sharing rights and obligations; and, treatment of non-European projects; a mechanism to establish agreement between project and Commission and enforcement.	29/02/2016	Scientific and policy reports
														8	Annual report 2016	Annual report consolidating: a) all L2 relevant knowledge; b) aggregated/anonymised L1 information; c) project fiches. In addition to providing a picture of the year in question, these reports shall also trace over time key tendencies and the evolution of projects and relevant knowledge gained	17/10/2016	Scientific and policy reports
														9	Presentation at public events in 2016	Annually, four presentations and stand representations within the framework of some existing large EU-wide events, e.g. Sustainable Energy Week, Green Energy Week, the SET PLAN conference, selected based on the criteria set out in the dissemination strategy. The dissemination strategy shall identify suitable options for discussion with DG CLIMA for NER300 to reach out to the full spectrum of target audiences.	31/12/2016	Oral presentations
														10	Intervention at technology events in 2016	Annually, one presentation to key pan-EU annual conferences/events for each of the technology categories.	31/12/2016	Oral presentations
														11	Webpostings for the SETIS website in 2016	2 large articles on the NER300 conference and the annual report (circa 1250 words each), 4 medium articles on the participation to the 4 large public events (750 words) and 6-8 short articles on the presentations to the technology-specific conferences, each year.	31/12/2016	Public information documents
3.2 Energy																		
3.2.a Support the implementation of the integrated roadmap for energy technology research & innovation, including further consolidation of its information system (SETIS), for the follow-up of the action plan.																		
765 - SETIS SET-Plan Information System	Support the implementation of SET-Plan, through the operation of its information system (SETIS). The specific tasks of SETIS are: (i) monitoring and review of implementation of SET-Plan; (ii) regular updates of the status and prospects of energy technologies and their markets; (iii) the annual review of associated European R&D and innovation investments, and (iv) dissemination activities	JRC.F.6 Evangelos TZIMAS	3.2.a	ENER	n/a	Ms. Magdalena Andrea STRACHINESCU OLTEANU (ENER.C.2)	RTD	SET-Plan Com - SET-Plan Community	01/01/2015 31/12/2016	2-Information systems & services (20%) 5-Monitoring, verification and surveillance (20%) 7-Scientific, technical & policy consultancy (60%)		430 - CCUS Carbon Capture Utilisation and Storage 472 - BESTEST Battery Energy Storage Testing for Safe Electrification of Transport 492 - FIST Fuel cell testing and International Standardization 495 - MAPHYSTO Performance assessment of hydrogen storage technologies 518 - SAFHYR Safety aspects of hydrogen technologies studied by modeling and sensing tools 579 - PVREF Photovoltaics Performance Verification and Standards 660 - MET ET Materials for energy technologies 670 - Future transport Innovative systems for sustainable transport 745 - WET Wind Energy Technology 748 - EFIS Energy efficiency in industry and energy supply 755 - RE-PORT Monitoring Actual and Foreseeable Renewable Energy Deployment 757 - ERESEET	INS-RS	1	Support for the development of the Action plan	Scientific support to the Commission in the development of an Action Plan for the implementation of the Integrated Roadmap on Energy Technologies and Innovation, providing information as deemed necessary on investments carried out by individual Member States on the areas identified in the Integrated Roadmap.	31/05/2015	JRC contributions to policy documents
														2	2015 Monitoring and review of the Action Plan	Operation of a robust reporting system based on SETIS, which will monitor the implementation of the Integrated Roadmap and the Action Plan. Drawing on the data supplied by Member States, reporting on progress will be made annually to allow assessment of the impact on energy policy objectives and a better orientation of EU and national support. The monitoring and review system is a key action of the Energy Technologies and Innovation Communication.	31/12/2015	Scientific and policy reports
														4	Scientific output	Peer review publications relating to the funding of energy technologies and their impact on innovation, addressing in particular structural funds and new innovation monitoring techniques.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														5	Energy Technology Reference Indicators - 2015	Update report providing reference indicators for the performance of energy technologies up to 2050 in the framework of the SET-Plan, in particular, for electricity generation and demand-side technologies. It will provide key parameters needed for technical and economic assessments of energy technologies and for systemic modelling activities, e.g. process efficiency, capital and operating costs; also touching upon the input data needs for social and environmental assessments.	31/12/2015	Scientific and policy reports
														8	2016 Monitoring and review of the Action Plan	Operation of a robust reporting system based on SETIS, which will monitor the implementation of the Integrated Roadmap and the Action Plan. Drawing on the data supplied by Member States, reporting on progress will be made annually to allow assessment of the impact on energy policy objectives and a better orientation of EU and national support. The monitoring and review system is a key action of the Energy Technologies and Innovation Communication.	31/12/2016	Scientific and policy reports
														11	SETIS portal 2015	Maintain and further develop the SETIS online portal, as the main instrument for public dissemination of the SET-Plan activities and achievements. Continuously update the SETIS website with new analysis and information on energy technology developments in Europe, enrich it with online tools and produce and disseminate the SETIS magazine. An annual report summarizing these activities will also be produced.	01/12/2015	Scientific information systems and databases
														12	SETIS portal 2016	Maintain and further develop the SETIS online portal, as the main instrument for public dissemination of the SET-Plan activities and achievements. Continuously update the SETIS website with new analysis and information on energy technology developments in Europe, enrich it with online tools and produce and disseminate the SETIS magazine. An annual report summarizing these activities will also be produced.	01/12/2016	Scientific information systems and databases

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
3.2.b Analyse, research and carry out experimental activities on the development and deployment of energy efficiency technologies, with a focus on buildings, equipment and smart cities, including support for standardisation and the development of measurement standards. Assess technology innovation in energy-intensive industries and analyse the effectiveness of energy efficiency measures in energy supply. Support the implementation of the Energy Efficiency Directive II																		
163 - CoM West Technical and Scientific Assistance Covenant of Mayors	JRC will continue the analysis of the SEAPs submitted in the context of the Covenant of Mayors (CoM). It will focus on the overall evaluation of the impact and of the results achieved thanks to the implementation of the initiative. In this context it will compile a catalogue of the most efficient and feasible measures implemented at local level and to monitor the progresses of the CoM cities towards their energy efficiency targets, via the analysis of the SEAPs' implementation report.	JRC.F.7 PAOLO BERTOLDI	3.2.b	ENER	ENER	Chrysoula ARGYRIOU, DG ENER.B.3			19/12/2011 18/03/2015	7-Scientific, technical & policy consultancy (100%)	JRC.H.2	261 - CoM South Covenant of Mayors South	COM-AA	1	SEAP Analysis	This task consist in the analysis and monitoring of the Sustainable Energy Action Plans (SEAP) submitted by the participating cities.	18/03/2015	JRC Technical reports
191 - HARWIN Harvesting solar energy with multifunctional glass-polymer windows	In HARWIN new materials will be developed with the aim of constructing next generation windows. These windows will improve significantly energy efficiency of windows and the buildings. They will enable extension of window functionality beyond the current European State of Art. The improvements are based on reduced weight, reduced thermal conductivity and energy consumption, reduced material usage and life cycle environmental performances control of the windows.	JRC.H.8 FABRICE MATHIEUX	3.2.b	ENER	RTD	Ms Marzena ROGALSKA (HoU B.1) DG ENTR; Mr Paul HODSON (HoU C.3) DG ENER	ENV GROW RTD	- UNIVERSITAET BAYREUTH	01/09/2012 31/08/2015	4-Methods and testing (100%)			COM-IA	4	Inputs to deliverables led by other partners	JRC will contribute to many other deliverables led by other partners to ensure that design decision are taken taking into account the environmental performances along the life cycle, including: - D1.13 LCI and LCA methodology of glass flake polymer composites (02/2014). - D2.5 Experimental verification of AR, U and mechanical properties (10/2014). - D3.7 2nd stage components processed (08/2014). - D4.14: Inclusion of input from LCEA for frame (08/2014) - D4.15: Added value requirements (08/2014)	31/08/2015	Scientific and policy reports
232 - Standheat Standardisation for Heaters	The overarching objective of the project is to monitor and evaluate the European Standardisation Organisations (ESOs) development of harmonised standards on ecodesign and energy labelling of heaters and water heaters, including the development of transitional test methods	JRC.F.7 PAOLO BERTOLDI	3.2.b	ENER	ENER	Marcos GONZALEZ ALVAREZ (ENER.C.3)	ENV GROW RTD	CEN - European Committee for Standardization	05/11/2012 04/11/2015	4-Methods and testing (100%)		607 - 3Es Energy Efficiency in Equipment 701 - SPP Pilot Sustainable Product Policy Pilot Project	COM-AA	1	Water Heater TC monitoring	Reports on the results of the TC meetings, including participation in 5-8 TC meetings per product group. Reports on the suitability of water heater standards for becoming harmonised water heater standards, including participation in the public consultation and voting procedures	31/10/2015	JRC Technical reports
607 - 3Es Energy Efficiency in Equipment	The project focuses on improving energy efficiency in end-use equipment and supporting EU sustainable product policies, as part of JRC SPP Pilot Project. Two end-use sectors are specifically addressed: Information and Communication Technologies (ICT) and Lighting. The project investigates new and innovative technologies such as solid state lighting and smart meters and smart appliances for demand response. The participation in international and European standardisation is part of the project.	JRC.F.7 PAOLO BERTOLDI	3.2.b	ENER	n/a	NUJU Robert (ENER.C.3)	CNECT ENV GROW	- European Telecommunication Network Operators' Association CEN - European Committee for Standardization CENELEC - European Committee for Electrotechnical Standardization (CENELEC) EDCA - European Data Center Association ETSI - European Telecommunications Standards Institute (ETSI) IEC - International Electrotechnical Commission ISO - International Organization for Standardization (ISO) ITU - International Telecommunication Union	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)	JRC.J.5	701 - SPP Pilot Sustainable Product Policy Pilot Project 937 - ESA-EFME Environmental Sustainability Assessments - Footprints and Material Efficiency	INS-RS	1	Revision and Operation of Codes of Conduct for ICT	Revision of the technical specifications for all the Codes in 2015. The European Codes of Conduct are pre-normative and pre-regulatory initiative to improve ICT energy efficiency. At the moment there are 5 European Codes of Conduct: UPS, External Power Supplies, Digital TV Services, Data Centres and UPS. Under this deliverable is also included the operation of all 5 Codes of Conduct.	30/06/2015	Scientific and policy reports
														2	Revision and Operation of Codes of Conduct for ICT	Revision of the technical specifications for all the Codes in 2016. The European Codes of Conduct are pre-normative and pre-regulatory initiative to improve ICT energy efficiency. At the moment there are 5 European Codes of Conduct: UPS, External Power Supplies, Digital TV Services, Data Centres and UPS. Under this deliverable is also included the operation of all 5 Codes of Conduct.	30/06/2016	Scientific and policy reports
														3	Standardisation Phase for JRC SPP project	Report on the CENELEC standardisation process for professional refrigerators (ENTR Lot 1), in the framework of the JRC pilot project for the Sustainable Product Policy (SPP). The standardisation process in CEN/Cenelec will be followed to make sure that it fulfills the requirements of the Eco-design regulation	30/09/2015	Scientific and policy reports
														4	Workshop on Smart appliances as part of smart grid	Report and Proceedings of scientific expert workshop on data gathering, stock taking and the demand response potential offered by smart end-use equipment (lighting, appliances, ICT, air-conditioner, etc). With the increased penetration of renewables in the electricity grid, including self-generation, there is the need for equipment to adapt its power consumption to the grid status, to communicate with the smart grid via smart meters and to respond to price signals, through communication protocols	27/11/2015	Scientific and policy reports
														5	Proceedings EEDAL and EEMODS conferences	Provision of scientific support to the EEDAL and EEMODS international biannual conferences on energy efficient equipment. The conferences will be looking at the latest innovative technologies, the energy savings achieved with existing technologies, the potential for future energy savings, and future innovative policies. An important part of the conference is the experts' discussion on the need for development of new international standards for new technologies (e.g. smart appliances, SSL).	31/12/2015	Article contribution to conference proceedings published in other peer-reviewed periodicals
														6	Solid State Lighting standardisation	International and European standards to characterise the performance of solid state lighting (SSL) are still under development. Standards are needed for the acceptance of this technology in the market and to avoid barriers to trade. The report evaluates the current set of standards and the needed standards for the wide adoption of this technology. It will contribute to the developments of the IEC, CIE, CEN, Cenelec standards related to SSL.	18/12/2015	Validated methods, reference methods and measurements
														7	Report on Smart appliances as part of smart grid	The reports described the needed communication protocols, standards, and the role smart equipment can play in the smart grid and to support local (PV) energy generation. In particular business model and multilevel governance and decision making issues will be investigated together the policies needed to promote smart appliances and demand response (time of use tariffs, feed in tariff, net metering, etc.).	26/02/2016	Scientific and policy reports
														8	Scientific support to the EEDAL and EEMODS	Proceedings of the EEDAL and EEMODS conferences	26/02/2016	Books
701 - SPP Pilot Sustainable Product Policy Pilot Project	The pilot project addresses the integrated implementation of the legal instruments in the field of sustainable product policy. In particular, this will be done in two areas: 1. the preparatory phase, which develops the analysis to a stage where policy makers are enabled to take a decision regarding the favorable mix of policy instruments (product group 'Taps and Showers'); 2. the implementation phase, which develops Ecodesign implementing measures (product group 'Commercial Refrigeration').	JRC.J.5 Oliver WOLF	3.2.b	ENER	n/a	Paul HODSON, HoU ENER.C.3 Energy Efficiency; Pavel MISIGA, HoU ENV C.1, Tobias BIERMANN ENV.C.2	ENV GROW		01/01/2013 30/06/2015	7-Scientific, technical & policy consultancy (100%)	JRC.H.8	607 - 3Es Energy Efficiency in Equipment 937 - ESA-EFME Environmental Sustainability Assessments - Footprints and Material Efficiency	INS-ER	1	MEErP Taps and showers final report	This report covers the full analysis of the product group according to Ecodesign MEErP methodology. It serves as an input to the last stakeholder meeting which will discuss options for potential application of environmental product policy for taps and showers.	31/12/2014	Scientific and policy reports
														2	MEErP Commercial refrigeration final report	This report includes all elements as prescribed by the Ecodesign MEErP, and summarises the discussions of the stakeholders in the technical working group meetings. It serves as input to designing the Ecodesign implementing measure for commercial refrigeration (ENER Lot 12).	31/12/2014	Scientific and policy reports
														5	Towards implementing consistent SPP policy instrum	Analysis based on case studies of integrated implementation of and synergies between the legal instruments in the field of sustainable product policy (Ecolabel, Green Public Procurement, Ecodesign, Energy Labelling) in line with the Action Plan on Sustainable Industrial Policy / Sustainable Consumption and Production, Contribution to a streamlined process and associated methods regarding data collection, market analysis, environmental assessment, scenario development and stakeholder interaction.	31/05/2015	JRC Technical reports
														6	Case study report on taps-showers	Report on the environmental assessment of Taps-showers product group during the Preparatory Study (part of the Sustainable Product Policies (SPP) Pilot Project between JRC and DG ENV, ENER and ENTR).	31/03/2015	JRC Technical reports
748 - EFIS Energy efficiency in industry and energy supply	Assess the role of technology innovation, including the large scale deployment of best available techniques, in the reduction of energy consumption and greenhouse gas emissions in the European energy-intensive industry and its impact on the industrial competitiveness. Particular focus will be on the iron & steel, (petro-)chemical, non-ferrous metals and pulp and paper sectors.	JRC.F.6 Evangelos TZIMAS	3.2.b	ENER	n/a	BERGMAN Hans (CLIMA.B.2); HODSON Paul (ENER.C.3)	CLIMA GROW RTD		01/01/2015 31/12/2016	7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (60%)		189 - SILC Crosscutting Valorisation of SILC 1722 - IDATA Cost production data on energy and GHG emissions from energy-intensive industries 430 - CCUS Carbon Capture Utilisation and Storage	INS-RS	1	Energy costs for the EU heavy industry	Analyse the structure of production costs of the most important energy intensive industries in the EU and the third countries (iron & steel, cement, chemical and non-ferrous metals), allowing a better understanding of the role of regulatory and climate costs within the cost structure of those industries.	11/12/2015	Scientific and policy reports
														2	Heat pumps for district heating	Report presenting an analysis of the costs and benefits of using large scale heat pumps in district heating systems and comparing this option with traditional methods relying on fossil-fuel based conventional technologies. The difference in costs, as well as in fossil fuel consumption and greenhouse gas emissions will be evaluated.	25/09/2015	Scientific and policy reports
														3	Energy efficiency in the chemical industry	Report analyzing the role of technology innovation to reduce greenhouse gas emissions and energy consumption in the European chemical industry up to 2030. The analysis will follow a detailed bottom-up approach at facility level and will pay particular attention to the estimation of the potential and current role of cogeneration of heat and power in this industry	01/12/2015	Scientific and policy reports
														4	Energy efficiency in the aluminium industry	Report analyzing the role of technology innovation for the reduction of greenhouse gas emissions and energy consumption in the European aluminium industry up to 2030, and its impact on the international competitiveness of this industry. The analysis will be based on an in-house developed model, which will follow a detailed bottom-up approach at facility level.	15/12/2016	Scientific and policy reports
														5	Scientific output on energy efficiency in industry	Peer review papers on energy efficiency and CO2 reduction gains by the deployment of best available technologies in the energy intensive industry	17/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	Technology innovation in industry	Study gathering common findings from all previous JRC related models and studies about energy intensive industry (including those on cement and iron and steel) and those about the pulp and paper, chemical and petrochemical and aluminum industry. The focus will be on uncovering the barriers that limit the achievement of the identified potential of innovative technologies.	30/11/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
764 - KCEE Knowledge Centre for Energy Efficiency (KCEE) coordination	It provides the overall coordination of the Knowledge Centre for Energy Efficiency (KCEE). In this framework, it also focuses on the assessment of EU and national energy efficiency policies in view of the 2020 energy saving target and the implementation of the Energy Efficiency Directive. Additional focus is on new mechanisms to deliver energy efficiency such as energy service companies and energy companies' obligations. Citizens and organisations behaviour in energy decisions will be analysed	JRC.F.7 PAOLO BERTOLDI	3.2.b	ENER	n/a	Paul HODSON (ENER.C.3)	CLIMA CNECT DEVCO ENV GROW	CEN - European Committee for Standardization CENELEC - European Committee for Electrotechnical Standardization (CENELEC) EIB - European Investment Bank IEA - International Energy Agency ISO - International Organization for Standardization (ISO) UN FCCC - UN Framework Convention on Climate Change (UN-FCCC) UNEP - United Nations Environment Programme (UNEP)	01/01/2014 31/12/2016	2-Information systems & services (10%) 7-Scientific, technical & policy consultancy (90%)		2023 - TSSEED Technical/scientific Support to the EED and EPBD	INS-RS	1	Methods to evaluate energy savings	Development of new methods to calculate energy savings resulting from energy policies, and in particular the energy savings achieved towards the EU 2020 energy saving target.	30/06/2015	Scientific and policy reports
														2	Analysing of energy-related behaviours	Behavioural science analysis of the behaviours generally affecting energy consumption of products and technologies, by adopting a systemic (sociological) perspective. The report will highlight how decision making is affected by the context within which decisions are taken, i.e. how individual choices are embedded into systems of decisions and desires that go beyond purely rational choice and beyond the choices of the relevant actors (people and organizations) taken individually.	30/09/2015	Scientific and policy reports
														3	Innovative Financial Instruments for EE	Identification and assessment of dedicated innovative financial instruments for energy efficiency projects (e.g. Projects bonds, Asset backed securities, Covered bonds). Current initiatives (Climate Bonds, EIB Climate Awareness bonds, among others) will be reviewed and assessed as well as proposals for development. This report will also include highlights on selected sectors (e.g. buildings, industry, transport, and cities) in close collaboration with the relevant JRC projects	30/06/2015	Scientific and policy reports
														4	Coordination of the KCEE 2015	The activity will assure full operation and coordination of the KCEE. This includes keeping track of all the JRC activities on EE, creating collaboration and synergies among JRC projects dealing with EE, and providing shared data to policy DGs. An annual comprehensive Technical Report will be prepared as a synthesis of the KCEE work	25/12/2015	Scientific and policy reports
														5	Coordination of the KCEE 2016	The activity will assure full operation and coordination of the KCEE. This includes keeping track of all the JRC activities on EE, creating collaboration and synergies among JRC projects dealing with EE, and providing shared data to policy DGs. An annual comprehensive Technical Report will be prepared as a synthesis of the KCEE work	23/12/2016	Scientific and policy reports
														6	KCEE data hub web platform	The platform will serve the KCEE as an interactive, open web-based tool to share data and analysis among stakeholders. It will include in this initial phase: a) all relevant data for the buildings sector including trends in terms of energy consumption, existing Best Available Technologies (BATs) and current policies as well as financing schemes for energy renovation. b) The WIKEE collaborative tool allowing the participatory inclusion of the Member States The platform will be extended in a sec	27/02/2015	Scientific information systems and databases
														7	GIS for Energy Efficiency (first release)	Geographical Information Systems (GIS) layers and models with relevant information for energy efficiency analysis in Europe. The GIS for Energy Efficiency will be integrated in the KCEE web-platform and it will be an interactive tool where users (stakeholders) can upload and use customized layers within the system.	30/09/2015	Scientific information systems and databases
														8	Assessment of the savings potential in Cyprus	Report on a pilot study summarising the technical and scientific support provided to Cyprus in the design of EE policies and assessment of the savings potential.	30/11/2015	Scientific and policy reports
														9	KCEE Annual Conference	Annual conference to assess progress on the deployment of the KCEE	15/12/2015	Oral presentations
793 - EIB Energy in Buildings: Transforming the EU 2050 building stock from energy consumer to energy producer	The project explores different pathways to transform the EU 2050 buildings stock from energy consumer to energy producer. Robust scientific methodologies will be developed using and/or generating data to assess energy savings and production potential; technologies (BATs and nBATs) including the economics of their implementation; current policies including regulations as well as financial and economic instruments and their impact in achieving this transformation of EU 2050 buildings.	JRC.F.7 DANIELE PACI	3.2.b	ENER	n/a	Paul Hodson (ENER.C.3), Marzena Rogalska (GROW.G.1), Mikel Landabaso Alvarez (REGIO)	CLIMA CNECT ECFIN GROW REGIO	CEN - European Committee for Standardization IEA - International Energy Agency	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (50%) 7-Scientific, technical & policy consultancy (50%)		788 - EEinSC Energy Efficiency in Smart Cities 284 - MSHHELPDESK JRC Measurements and Standards Helpdesk 764 - KCEE Knowledge Centre for Energy Efficiency (KCEE) coordination 813 - SAFESUST Impact of sustainability and energy efficiency requirements on building design and retrofit 813 - SAFESUST Impact of sustainability and energy efficiency requirements on building design and retrofit 615 - PNR-Eurocodes Pre-Normative Research in support of 2nd generation of the Eurocodes 822 - ExpoMeth Human Exposures Methodological Portal in support of Public Health 214 - EEFF Improved modelling of energy efficiency 1083 - MONSCEN_REFF Indicators, Data, Scenarios for JRC LCA IA tool 1062 - RAW-MAT Supply chains and critical raw materials - towards a circular economy 1007 - LUISA Application of the LUISA Modelling Platform to Regional Policies and Territorial Cohesion 937 - ESA-EFME Environmental Sustainability Assessments - Footprints and Material Efficiency	INS-RS	1	Pathways to transform the EU2050 building stock	Modelling the economics of the energy potential (savings and production) of the building stock considering different pathways to achieve the transformation of the EU buildings stock from energy consumer to energy producer by 2050. The study requires the development of an in-house model that includes building performance model, building stock model and the use of the existing JRC macro-economic equilibrium model	31/03/2015	Scientific and policy reports
														3	Development of NZEBs concept	Review on the current European status of nZEBs categories, definitions, and calculation methodologies. Many open issues are presented and discussed to contribute to the clarification and the establishment of an agreed definition	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	GreenBuilding - NZEBs	Evaluation of the overall green building programme from 2006 to 2014	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														5	Energy efficiency refurbishment of buildings	Claimed energy savings and investment data provided by partners involved in the green building programme are assessed. The financial effectiveness of the implemented energy efficiency measures is assessed. Conclusions are drawn for further policy development to make the tertiary sector energy producer.	30/01/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														6	EPBD test methods	Contribution to the definition and finalisation of European standards for the implementation of the Directive 2010/31/EU of 19 May 2010 on the energy performance of buildings (EPBD). Analysis of definitions and performances assessment of buildings and building components (including the integration of renewable energies). Innovative standards, energy monitoring systems and test methods for NZEBs and smart buildings will be developed in the frame of the relevant CEN committees.	31/12/2015	Validated methods, reference methods and measurements
														7	Innovative financial mechanisms	Study to identify and develop financial instruments to be used by investors to supply the market with finance with the objective to accelerate the transformation of the buildings stock. The assessment would include the use of proceeds bonds (Projects bonds, Asset backed securities, Covered bonds) pension funds to raise finance for EE and climate change projects. A European Green EE bond partners group will be established.	30/06/2015	Scientific and policy reports
														8	Positive Energy Buildings design competition	The project aims to encourage creativity and cost-effective (less than 80.000€) innovative design options of houses for young families. A competition will be launched and the selected projects will be awarded	31/12/2016	Training
														9	Buildings Observatory (wiki EIB analytical tool)	Description: Online web-platform that includes: - Current trends on energy consumption, technologies and policies. - Pathways to achieve the market transformation of the buildings stock from energy consumer to energy producer	31/12/2016	Scientific information systems and databases
														10	Assessment of existing Positive Energy buildings	Benchmarking of existing positive energy buildings projects in Member States. The aim is to gain a better understanding of the existing technologies implemented including their cost for different climate in Europe. Data collected under this task will feed the buildings' observatory (Deliverable 9). An assessment of the progress in the design of Positive Energy buildings will be conducted every two years	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														11	Estimation of Heat saving and PV roof potential	Methodology estimating heat saving potentials and PV roof potentials using remote sensing (RS) and tools of Geographic Information Systems (GIS). A model will be defined based on high resolution imageries, digital elevation model and vector data including geometrical and descriptive physical parameters of buildings. This conceptual model can be spatially extended by a Building Management System providing for further possibilities to analyse energy consumption, potential carbon reduction etc	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														1722 - IDATA Cost production data on energy and GHG emissions from energy-intensive industries	This project undertakes a combined research and data collection exercise, using public, and where possible, commercial and industry data aiming to establish different parameters affecting costs and production process of the energy intensive industries in EU and 3rd countries. It will provide more insights into the competitiveness dynamics and the situation of major industries due to carbon pricing in the context of the EU ETS, such as steel, cement, chemical, and non-ferrous metal sectors.	JRC.F.6 Evangelos TZIMAS	3.2.b	ENER
2	Final report	Final report of the project describing all activities and the final versions of the working documents	31/12/2015	Scientific and policy reports														
3	Intermediate report	Intermediate report describing the 2014 activities	31/01/2015	Scientific and policy reports														
4	Fourth Working Document	First draft version of the series of data for the non-ferrous industry	30/06/2015	Scientific and policy reports														

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1903 - EFHEC Efficient Heating and Cooling	Provide DG ENER with technical assistance, analysis and input to support the implementation of Article 14 of Directive 2012/27/EU on energy efficiency. The JRC will provide methodology guidelines for the implementation and evaluation of the Comprehensive Assessment on improvement potentials of heating and cooling efficiency and the execution of the cost benefit analysis of individual electricity generation and industrial installations; evaluate the national exemptions from the CBA obligation	JRC.F.6 Evangelos TZIMAS	3.2.b	ENER	ENER	Eva HOOS (ENER.C.3)			01/07/2014 30/06/2017	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Methodology for the Comprehensive assessment	Background report on methods and best practices for the implementation of the comprehensive assessment and in particular on the following elements: i) data collection of heating and cooling consumption and production; ii) geographical and system boundaries; iii) baseline scenario; iv) alternative scenarios; v) forecast and definition of input/output factors, and vi) NPV calculations	02/02/2015	Scientific and policy reports
														2	CBA methodology for individual installations	Background report to implement the CBA obligation for individual installations, and in particular on methods and best practices to carry out installation level Cost-Benefit Analysis under Article 14(5)-14(7) of EED	31/05/2015	Scientific and policy reports
														3	Evaluation of type-exemptions	Evaluation and recommendations on the type-exemptions under Article 14(6) (nuclear, CCS; peak load/back-up and industrial/ district heat installations /networks based on heat and distance thresholds). The report will include the evaluation of Member States' notifications and recommendations for the most appropriate heat and distance thresholds and verification protocols for peak load and back-up installations.	31/05/2015	Scientific and policy reports
														4	MS notification of the Comprehensive Assessments	Provide evaluation of the Member States' notification of the Comprehensive Assessments, including whether the general principles of the country-wide CBA were correctly applied and whether the analysis provide a trustworthy and robust analysis of the efficient heating and cooling potentials	31/12/2016	Scientific and policy reports
														5	Validation workshop	Report on a JRC organised workshop to validate the JRC proposed methodology for the implementation of the Comprehensive Assessment and the installation level cost-benefit analysis.	31/01/2015	Scientific and policy reports
														6	Heat mapping	Background report providing advice on the method, tools and guidelines to prepare public heat maps.	30/06/2015	Scientific and policy reports
														7	Mid-term progress report	Mid-term progress report providing an account of the activities performed during the first half of the project.	31/12/2015	Scientific and policy reports
														8	Final report	Final report providing an account of the activities performed during the project.	31/08/2017	Scientific and policy reports
2023 - TSSEED Technical/scientific Support to the EED and EPBD	EED requires MSs to prepare every 3 years a NEEAP, to report annually on the energy savings achieved and a strong monitoring by the Commission. The EPBD requires active implementation of policies in the buildings sector by MSs. The AA includes the JRC support to DG ENER for the effective implementation of the EED and EPBD by MSs and the monitoring of the MSs progresses towards the 2020 energy savings (e.g. assessment of MS contributions, such as NEEAP, Building Renovation plans or annual reports)	JRC.F.7 PAOLO BERTOLDI	3.2.b	ENER	ENER	PONTIOLIO Serena (ENER.C.3), KAZAKEVICIUS Eduardas (CLIMA.C.1)	CLIMA		01/01/2015 31/12/2017	5-Monitoring, verification and surveillance (100%)			COM-AA	1	Assessment of NEEAPs	Member States have submitted National Energy Efficiency Plans (NEEAPs) in April 2014. The JRC will assess the NEEAPs and prepare a synthesis report that will be used by DG ENER for publication as Staff Working Document.	27/02/2015	Scientific and policy reports
														2	EED Article 4 Building Renovation	The project will carry out the assessment of Member States' Building Renovation plans as required by EED Article 4	27/06/2015	Scientific and policy reports
														3	EED Article 24(1) Analysis of the annual reports	MSs will submit every year a report on their progresses towards the 2020 target. The JRC will analyse the MSs reports. The project will produce a synthesis reports on the analyses of the annual reports with overviews of energy statistics reported by the Member States	30/07/2015	Scientific and policy reports
														4	Energy Service Companies (ESCOs)	organisation of expert workshop and report on further actions to promote the ESCO industry	27/03/2015	Scientific and policy reports
														5	Energy efficiency obligation schemes	Report on good practices with the implementation of the EED Article 7.	31/07/2016	Scientific and policy reports
														6	The renovation of central government buildings	Organisation of expert meeting and annual report on the impact of the implementation of the EED Article 5 in the Member States (incl. the analysis of the equivalence of the alternative approaches)	31/07/2015	Scientific and policy reports
														7	Metering and billing (EED Articles 9-11)	Organisation of an experts' workshop to share good practices with the implementation of the EED Article 9(3) including transparent rules for heat cost allocation. Report with guidance on the content of billing information on individual consumption of heat and hot water	23/10/2015	Scientific and policy reports
														8	Behavioural changes for energy efficiency	Organisation of an experts' workshop on designing cost-effective campaigns for SMEs and households. Report on principles and guidance on campaigns addressing behavioural changes among various groups of individual consumers and SMEs including guidance on methods for measuring energy impacts of such campaigns	27/11/2015	Scientific and policy reports
														9	Assessment of MS notifications according Art. 15	Research and a report on the assessment of Member States notifications of the energy efficiency potentials in electricity and gas infrastructure in particular regarding transmission, distribution, load managements and interoperability and connection to energy generating installations, including access possibilities for micro energy generators according to Article 15 (2) (a) and (b)	31/12/2015	Scientific and policy reports
														10	Demand Response	Report on the overview of existing technical and regulatory barriers and elements of the national electricity network regulations and network tariffs, which are related to energy efficiency including identification of incentives in transmission and distribution tariffs that are detrimental to the overall efficiency or those that might hamper participation of demand response in balancing markets and ancillary services procurement with details on the status of demand response in all Member States	31/12/2015	Scientific and policy reports
														11	Split incentives (EED Article 19)	Organisation of two technical workshops, the main focus of the workshop to be on Article 19.1(a) and Article 19.2 Workshop proceedings and report on the outcome of the workshop	26/11/2015	Scientific and policy reports
														12	Standardisation work under M/480	In accordance to mandate M/480, CEN EPBD standards must be placed under revision to address several inconsistency and ambiguity issues related to the current standards. The proposed default CEN options/parameters need to be consistent with the policy context. The JRC will examine the direct usability of these options in the revised standards, especially for the purpose of a common EU-wide voluntary certification scheme for non-residential buildings.	31/12/2015	Scientific and policy reports
														13	Nearly zero-energy buildings	Synthesis report on the national plans for nearly zero-energy buildings. Particular focus on the analysis of interim targets for new buildings and of national policies and support measures for refurbishing existing buildings to nearly zero-energy levels	31/12/2015	Scientific and policy reports
														14	Building Stock Observatory	Report with an inventory of relevant information and data on buildings at Member States level, including on financing. Liaising across its different institutes, the JRC will produce an inventory of buildings data and related analysis, including in relation to the Inspire geoportal.	31/12/2015	Scientific and policy reports
2266 - CoM West 2 Covenant of Mayors West 2	The JRC will continue to provide the technical and scientific support to the Covenant of Mayors (CoM). It will focus on the overall evaluation of the impact and results achieved in the implementation of the initiative. In this context it will analyse the most efficient and feasible measures implemented at local level and will monitor the progresses of the CoM cities towards their energy efficiency targets, via the analysis of the Sustainable Energy Action Plans (SEAPs) implementation report.	JRC.F.7 PAOLO BERTOLDI	3.2.b	ENER	ENER	Ariane VALENTA (ENER.B.3)	CLIMA CNECT		19/03/2015 18/09/2017	7-Scientific, technical & policy consultancy (100%)		1064 - EGARP+ Emissions for Global Atmospheric Research and Policy	COM-AA	1	Analysis of SEAPs	Report on the Sustainable Energy Action Plans analysed in 2015, including example of best practices, types of measures adopted and energy savings and CO2 emissions reductions.	25/12/2015	Scientific and policy reports
														2	Analysis of the monitoring plans	Report based on the monitoring plans presented by the signatories cities. Calculation of the overall energy savings and CO2 emission reductions as well as analysis of the measures implemented and possible discrepancies from the city SEAP.	22/12/2016	Scientific and policy reports
														3	Overall assessment of impact of the CoM Initiative	Report on the overall evaluation of the CoM Initiative after 10 years of operation. Assessment of the energy savings, CO2 emission reduction, and impacts on job creation and financial savings for cities. The CoM initiative contribution to the EU energy and climate 2020 goals will be modelled and forecast. The report will also include the best practices in terms of energy savings, financial solutions and other indicators.	22/12/2017	Scientific and policy reports
														4	Final report of the AA	A final report of the JRC contribution to the CoM initiative under this specific AA will be prepared	15/03/2018	JRC Technical reports
2743 - E4 iBuildings Eco-Energy Efficient Envelopes for Innovative Buildings	The project aims to develop innovative Cement Based Composites in which embed Phase Change Materials. The resulting physical properties make this product ideal to store energy (heat) into building envelopes, reducing the peak of heat fluxes, hence the energy consumption for heating and cooling. Each phase of the product development will be analysed with the life cycle view, driving choices of process and materials, to avoid the environmental burden advancing in the various stages of product life	JRC.G.4 MARCO LAMPERTI TORNAGHI	3.2.b	ENER	JRC	n/a	ENV GROW RTD	CEMBUREAU - European Cement Association TBE - Tiles and Bricks of Europe (TBE)	01/01/2015 12/12/2016	4-Methods and testing (100%)	JRC.H.8		INS-ER	1	Innovative PCMs applications in building	•Comparative analysis of PCMs for Cement Based Composite •Development of new strategies to embed selected PCMs in CBCs. •Mechanical characterization of CBCs and evaluation of heat storage capacity. •Comparison with solutions available on the market.	16/09/2015	JRC Technical reports
														2	Energy saving claddings to store heat in buildings	• Proposal of an enhanced solution for energy saving claddings, designed on the basis of the achieved results. • Conception and drafting of the experimental campaign to evaluate the claddings performances for thermo-mechanical properties.	21/12/2015	JRC Technical reports
														3	Impact evaluation of PCMs applications in EU28	• LCA (PEF) at material level: environmental profile of PCMs hypothesis of upscaling from laboratory to industrial production. • Scenario development for the impact evaluation of PCMs technologies and efficiency for the EU28 built environment, considering the geographic dimension.	21/12/2015	Validated methods, reference methods and measurements
														4	PCMs cladding: Multi-criteria Performance assess.	•Experimental results of the campaign performed on the designed cladding system. •Drafting technical guidelines for the thermo-mechanical performances.	12/12/2016	JRC Technical reports
														5	LCA for innovative energy saving claddings	•LCA (PEF) at product level for the innovative energy sag claddings. •LCA (PEF) at system level, for the cladding applied on a demo building. •Drafting technical guidelines for the environmental impact evaluation.	12/12/2016	JRC Technical reports
2940 - EE Cyprus Support to Energy Efficiency in Cyprus	The JRC will be providing scientific and technical support to Cyprus, contributing to the development of the national long term energy efficiency strategy. The work focuses on energy efficiency in buildings and on the potential for the application of high efficiency cogeneration and efficient district heating and cooling.	JRC.F.7 Heinz OSSENBRINK	3.2.b	ENER	n/a	MCCARTHY Mary (ECFIN.DDG2.SGICY); DI DONATANTONIO Luis (ECFIN.DDG2.SGICY); BEEKHUIS Geert (ECFIN.DDG2.SGICY); RESSL Stephan	IEA - International Energy Agency	01/01/2015 31/12/2015	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)		765 - SETIS SET-Plan Information System 2023 - TSSEED Technical/scientific Support to the EED and EPBD		INS-RS	1	Facilitate the transition toward NZEBs	Under this deliverable technical scientific support is provided to Cyprus authorities to implement article 9 of Directive 2010/31/EU by analyzing the local market conditions, policies and financing options, including innovative financing, for the transition toward Nearly Zero Energy Buildings (NZEB) with the aim of improving the energy efficiency and reducing the cost of energy in the buildings sector	31/12/2015	Scientific and policy reports
														2	Investments for renovating the building stock	Support in defining and implementing Cyprus' long-term strategy for mobilizing investments in renovating the building stock in the framework of article 4 of Directive 2012/27/EU.	31/12/2015	Scientific and policy reports
														3	Strategies, policies & measures heating and cooling	Report on possible strategies, policies and measures that may be adopted up to 2020 and up to 2030 to realise the energy efficiency potentials of district heating and cooling infrastructure	31/12/2015	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
2941 - ENEREXPO Energy and Food for EXPO	Scientific and technical assistance to support the preparation of the EU participation in World Expo 2015 in the area of energy use and sustainable energy solutions in the food sector. The JRC will analyse the energy use as well as the potential of using sustainable energy in the food sector, from production to final consumption.	JRC.F.7 Fabio MONFORTI-FERRARIO	3.2.b	ENER	ENER	Paula ABREU (ENER.C.1), Alexandra SOMBSTHAY (ENER.C.1)	RTD		01/01/2015 29/02/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)			COM-AA	1	"Best of" sustainable energy solutions	The JRC will suggest at least 10 "show cases" (best of) for successful and innovative as well as practical and replicable examples for sustainable energy use in food production and use in the EU. It will prepare alternative models for "best of sustainable energy solutions (in terms of technology and its application) for food production and use for an average food basket in the EU.	28/02/2015	Scientific and policy reports	
														2	Energy-related EXPO 2015 events	Provide assistance, through on-site assistance in Ispra and Milano and assuring participation, on organisation of energy-related EXPO2015 events, including suggestions for technical content and identification of potential speakers and participants.	31/10/2015	Oral presentations	
														3	Web-based activities	Ad-hoc technical assistance on the support for web-based and energy related EXPO activities, incl. preparation of input for "Cyber Expo", other web based activities as well as for energy-sector related input for preparation of the Expo2015-follow-up/ Expo2015- legacy related activities (upon request if necessary).	31/12/2015	Scientific information systems and databases	
3.2.c Carry out techno-economic modelling and analysis of energy demand, supply and consumption scenarios, at the national, regional and pan-European levels, for the 2030 energy and climate package and in support to the new European governance framework.																			
214 - EEFF Improved modelling of energy efficiency	This AA aims at improving the way in which energy efficiency measures are dealt with in the ECET new energy model. For this purpose the model under development at the IPTS will be enhanced with the respective features. After the finalisation of the modelling part, scenario analysis (application of the new tool) is envisaged.	JRC.J.1 Hans Peter RUSS	3.2.c	ENER	ENER	Nina GAREIS, DG ENER.C.3	CLIMA		15/07/2012 14/07/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		183 - RENEWABLE MODELLING Modelling of Renewable Energies	COM-AA	2	Evaluating progress in energy efficiency in the EU	Final report to ENER on AA including a Scenario on the progress in efficiency in the EU, possibly by Member State	15/09/2015	JRC contributions to policy documents	
796 - POTEnCIA / POLES Development and Maintenance of Energy sector economic models (POTEnCIA / POLES)	This institutional project comprises all activities to develop and maintain economic models of the energy sector to produce scenarios for impact EC assessments, more specifically Energy Model Potencia. Potencia foos upon a comprehensive picture (period 2000-2010) including the (gross and net nominal) installed capacities, the utilisation rates, the transformation input and exchanges and transfers, the electricity generation and the electric efficiencies, to model future scenarios	JRC.J.1 Hans Peter RUSS	3.2.c	ENER	n/a	Stefaan Vergote, HOU DG ENER.A.4	CLIMA		01/01/2013 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	2	Application of Model-E	Article / Report explaining the application of the new Model-E on Scenarios of use for DG ENER	15/12/2015	Scientific and policy reports	
1982 - MAREO Modelling and Analysis of Renewable Energy Options and Policies	The purpose is to represent the renewable energy sector in IPTS modelling tools POTEnCIA and POLES. IPTS will run the models to conduct scenario analyses upon request of DG ENER C. The overall objective, therefore, is to further improve the quantitative analysis of the impact of renewable energy policies on the overall energy system.	JRC.J.1 Hans Peter RUSS	3.2.c	ENER	ENER	Bernd Kuepfer DG ENER.C.1			01/06/2014 31/05/2017	2-Information systems & services (100%)		183 - RENEWABLE MODELLING Modelling of Renewable Energies	COM-AA	1	inception report	inception report will be produced providing a detailed outline of the planned maintenance work, the model changes and the set of standard data to be delivered.	30/06/2015	JRC Technical reports	
														2	Annual report	a report shall be delivered, providing an overview of the maintenance, enhancements and use of the models so far	30/06/2016	JRC Technical reports	
														3	Final report	A final report shall be delivered, providing an explanation of the activities performed and detailed changes made to the model describing in detail the tasks undertaken. The report shall include an analysis of the impacts these changes have on the modelling results. The final report will be delivered 36 month after the signature of the administrative arrangement having taken account of the comments on the draft final report	29/05/2017	JRC Technical reports	
2025 - Energy Economics Economic analysis of energy scenarios	The project comprises all activities related to modelling of scenarios and focusing on the energy sector. It should also cover all linked economic activities and sectors. Main scope is the exploitation of the energy model POTEnCIA, together with POLES & GEM-E3. Main focus of the project should be the delivery of scenarios addressing a variety of policy options and scenarios upon demand of DG ENER. This project involves the continuous improvement of the suite of models, its linkage, database etc.	JRC.J.1 Hans Peter RUSS	3.2.c	ENER	ENER	Kostis SAKELLARIS DG ENER.A.4; Jan Christoph NILL DG CLIMA.A.4	CLIMA		01/07/2015 30/06/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		1982 - MAREO Modelling and Analysis of Renewable Energy Options and Policies 2026 - CLIMA2015 CLIMA2015: Analysis & Modelling of Mitigation Scenarios 796 - POTEnCIA / POLES Development and Maintenance of Energy sector	COM-AA	1	Improved modelling of energy policy	Delivery of modelling scenarios, including baseline scenario and various policy scenarios based on DG ENER requests. Scenarios should implement the whole suite of models of JRC.J.1, namely POTEnCIA, POLES and GEM-E3.	30/06/2017	JRC Technical reports	
3.2.d Analyse smart power grids. This includes social modelling and simulation; cost-benefit analysis; integrated analysis of technical, techno-economic, social (including consumer engagement) and regulatory aspects; smart grid interoperability with ICT and transport systems, and with smart-metering systems (for the ICT dimension of smart grids, see point 2.1.d).																			
458 - IDER Interoperability and Distributed Energy Resources	The project aims at running the JRC-Petten branch of a network of laboratories, with specific focus on interoperability and distributed energy resources, in order to scientifically support the development of European energy and electricity policies in that area. The project will seamlessly work with the JRC-Ispra branch of the interoperability facilities, also in view of embarking upon cross-national transmission and market studies, and it will be adapted to the needs of the EU-US collaboration.	JRC.F.3 Luigi DEBARBERIS	3.2.d	ENER	n/a	J. Panek (ENER.B.3)	HOME	ANL - Argonne National Laboratory TABC - Trans-Atlantic Business Council	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)	JRC.F.6			INS-RS	5	System inertia change due to RES introduction	The electrical system inertia for a typical regional grid will be studied and issues of inertia change due to RES introduction will be quantified. Possible suggestions for increasing system reliability and increase security of supply will be developed.	30/09/2015	Technical systems
															6	Existing interoperability norms and future needs	A report to review existing interoperability norms as well as future needs in the different time frames up to 2050 will be compiled.	30/12/2015	Article contribution to other periodicals
															7	Interoperability - Common practices EU US	The practices in the US and the EU will be compared and common/best practices will be selected and developed	30/12/2016	Scientific and policy reports
483 - SMART GRID OBSERVE Emerging Power Systems and Markets Observatory	The aim of the project is to consolidate JRC's role of honest data broker of European power system/smart grid development and innovation challenges by collecting, processing and sharing data on power system/market characteristics, smart grid projects and smart grid competences/capabilities.	JRC.F.3 Gianluca FULLI	3.2.d	ENER	n/a	Manuel Sanchez Jimenez (ENER.B.3)	ECFIN GROW HOME RTD	- Union of the Electricity Industry EURELECTRIC ENTSOE - European Network of Transmission System Operators for Electricity Med-TSO - Association of Mediterranean Transmission System Operators for electricity Med-TSO,	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)				INS-RS	6	Smart/super grid interactive platform development	Further development, update and maintenance of an online platform for collecting and sharing power system spatial and non-spatial data.	30/12/2016	Scientific information systems and databases
															7	Market design assessment of smart grids	Assessment of challenges for smart grid deployment and implementation with special focus on market design (and social and regulatory) aspects	31/12/2015	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															8	Smart/super grid interactive platform development	Further development, update and maintenance of an online platform for collecting and sharing power system spatial and non-spatial data.	31/12/2016	Scientific and policy reports
														9	Competence & capability mapping	Mapping of smart grid research and innovation competences & capabilities, including an inventory of smart grid laboratories in Europe	31/12/2016	Scientific and policy reports	
485 - SMART GRIDS COMPLEX Smart Grids and Complex Systems Modelling	The aim of this project is to conduct independent performance assessment and cost-benefit analyses of smart/super grid projects throughout Europe and to carry out knowledge sharing/communication actions on trends and developments in smart/super grids implementation in order to support policy analyses and initiatives.	JRC.F.3 Gianluca FULLI	3.2.d	ENER	n/a	Manuel SANCHEZ JIMENEZ (ENER.B.3)	CNECT HOME	ENEL - ENEL S.P.A Min Ener Water IL - Ministry of Energy and Water Resources of Israel	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			272 - SMART GRIDS JRC-ENER JRC-ENER Smart Grids Administrative Arrangement	INS-RS	1	Agent-based simulation of multi-layer systems	Paper describing the further development of an integrated framework, including agent-based modelling techniques, for the assessment of smart grids as multi-layer systems	31/12/2015	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															2	Cost-benefit analysis methodologies and tools	Updated cost-benefit analysis methodologies, tools and applications for smart grids and trans-European projects assessment	31/12/2015	Validated methods, reference methods and measurements
															3	Agent-based simulation of multi-layer systems	Paper on agent-based simulation of multi-layer smart grid systems	30/12/2017	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															4	Cost-benefit analysis methodologies and tools	Paper describing updated cost-benefit analysis methodologies, tools and/or applications for smart grids and trans-European projects assessment	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
918 - ELECTRA European Liaison on Electricity grid Committed Towards long-term Research Activities	JRC contributions to FP7 ELECTRA project, aiming at reinforcing the EERA Joint Programme on Smart Grids. JRC contributes to 1- aligning and steering the national research programs and consolidating the results of those programs in support of the European strategic energy objectives (WP1) 2- new coordinated research activities on Fully Interoperable Systems (WP4); Controllable Flexibility (WP6) and Integration and Lab Testing for Proof of Concept (WP7) and 3- International Cooperation (WP10).	JRC.F.3 HEINZ WILKENING	3.2.d	ENER	RTD	Patrick Van Hove (RTD.G.2); Manuel Sanchez Jimenez (ENER.B.3)		- Institute of Power Engineering - Universität Oldenburg - INESC PORTO - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES DO PORTO - MILIEU ENERGIE EN - SINTEF ENERGI/FORSKNING A/S - University of Strathclyde DTU - Technical University of Denmark - Danmarks Tekniske Universitet TUBITAK - Scientific and	01/09/2013 31/12/2016	2-Information systems & services (50%) 4-Methods and testing (25%) 5-Monitoring, verification and surveillance (25%)				COM-IA	2	2nd International Workshop report	As foreseen in WP-1 "Networking, Coordination with external and advisory bodies, Knowledge Transfer and Dissemination", JRC will contribute to the organisation of the 2nd International Workshop.	31/03/2016	Monographs with JRC editorship
															4	Gap analysis for SG monitoring and control solution	Gap analysis and existing standards for proposed SG monitoring and control solutions	31/03/2016	Scientific and policy reports
															6	Requirements for the validation of voltage control	Technical requirements for the validation of vertical and horizontal integrated frequency and voltage control in future electricity systems	31/05/2016	JRC Technical reports
															7	Common interesting R&D topics for INCO with BRICS	Report summarizing the findings about common interesting R&D topics for INCO with BRICS countries	30/09/2015	Scientific and policy reports
															8	Overview of smart grids projects outside EU	Directory of recent smart grids projects and demo in the considered extra-EU countries	30/09/2016	Scientific information systems and databases

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1923 - ISG Interoperability and Smart Grids	The project aims at running the JRC-Ispira branch of a network of laboratories, with specific focus on interoperability and smart grids, in order to scientifically support the development of European energy and electricity policies in that area. The project will seamlessly work with the JRC-Petten branch of the interoperability facilities, also in view of embarking upon cross-national transmission and market studies, and it will be adapted to the needs of the developing EU-US collaboration.	JRC.F.3 Gianluca FULLI	3.2.d	ENER	n/a	Jan Panek (ENER.B.3)			01/01/2015 31/12/2016	3-Instrumentation & hardware (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)		664 - EVIAC Electric Vehicle Interoperability Assessment and Standardisation 458 - IDER Interoperability and Distributed Energy Resources	INS-RS	1	Electric vehicle charging impact on power system	Experimental analysis on power quality and reliability assessment of electric vehicle charging	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														2	Communication technologies for smart grids	Communication technology requirements, applications and testing for smart distribution networks	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Interoperability - Common practices EU US	The practices in the US and the EU will be compared and common/best practices will be selected and developed	30/12/2016	Scientific and policy reports
														4	Contribution to AFCC	Contribution to a conception report for the creation of the JRC Competence Centre on Alternative Fuels in Transport, in support to the Clean Power for Transport policy of DG MOVE	31/12/2015	Scientific and policy reports
2042 - SPSM DRAFT - Security and Privacy of Smart-metering systems	Identification and selection of Best Available Techniques (BATs) implementing the 10 common minimum functional requirements related to smart metering system (Recommendation 2012/148/EU) under a cyber-security and privacy perspective. The project will follow the well established "Sevilla Process" for the identification of BATs. The JRC is in charge of the coordination of the entire process and of the identification and analysis of the most suitable cyber-security technologies.	JRC.G.6 Igor NAI FOVINO	3.2.d	ENER	n/a	Mr Jan Panek - HoU ENER.B.3			15/09/2014 15/03/2016	7-Scientific, technical & policy consultancy (100%)		561 - TSI Trust, Security and Identity	COM-AA	1	Selection Criteria	Identification of a suitable set of criteria enabling the JRC-Team to cluster, evaluate and compare the different techniques under analysis. Criteria should take into consideration not only technical cyber-security aspects, but also architecture related constraints and privacy aspects.	16/03/2015	JRC Technical reports
														2	Techniques' Inventory and Clustering	Survey of the techniques used in Europe to implement, under a cyber-security and privacy perspective, the 10 minimum functional requirements mentioned in COM Recommendation 2012/148/EU.	15/09/2015	Scientific and policy reports
														3	Analysis of Techniques	Qualitative analysis of the techniques identified with respect to the criteria selected in the first project deliverable. Outcome is an evaluation of the techniques identified, reflected in a detailed summary evaluation report by JRC taking stock of the views and experiences of stakeholders.	15/01/2016	Scientific and policy reports
														4	BAT Selection	Selection of Best Available Techniques. The JRC will provide oversight and facilitate the selection procedure that will be performed independently by a Stakeholder Forum. The JRC will prepare also the final report of the project, to be endorsed by the Stakeholder Forum in the context of a final Forum workshop	15/03/2016	Scientific and policy reports
2540 - GRID4WIND Offshore Grid for Wind integration in the Northern Seas	The aim of this project is to support DG ENER in assessing offshore wind technological options (with possible cost compression paths), grid topological alternatives and transnational market arrangements towards the realisation of an offshore grid for wind farms in the Northern Seas.	JRC.F.3 Gianluca FULLI	3.2.d	ENER	ENER	Brendan DEVLIN (ENER.B)		ENTSOE - European Network of Transmission System Operators for Electricity	01/01/2015 30/04/2016	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Topological options for offshore grids	Assessment of topological options for multiterminal offshore high voltage direct current grids	29/02/2016	Scientific and policy reports
														2	Regulatory/market arrangements for offshore wind	Assessment of regulatory and market arrangement options for offshore wind integration in multiterminal power grids	30/06/2016	Scientific and policy reports
														3	Final report	Final report on estimation of cost reduction for the North Sea and coordination with Sea Star	30/11/2015	Scientific and policy reports
														4	Optimisation grid topology	Optimisation of the Grid topology for offshore wind in the Northern Seas	30/11/2015	Scientific and policy reports
														5	Assessment regulatory landscape	Regulatory landscape for offshore wind in the Northern Seas in the context of the 2030 Climate and Energy Policy Framework	30/11/2015	Scientific and policy reports
3041 - AnyPlace Adaptable Platform for Active Services Exchange	AnyPLACE aims at developing a modular, secure and flexible smart metering platform to support exchange of services between end-users, equipment manufacturers and service providers (market representatives, electricity network operators and ICT providers).	JRC.F.3 Anna Maria MENGOLINI	3.2.d	ENER	ENER	Manuel Jimenez Sanchez (ENER.B.3)		- INESC PORTO - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES DO PORTO	02/02/2015 01/02/2018	7-Scientific, technical & policy consultancy (100%)		485 - SMART GRIDS COMPLEX Smart Grids and Complex Systems Modelling 483 - SMART GRID OBSERVE Emerging Power Systems and Markets Observatory	COM-AA	1	End-user engagement strategies	Analysis of existing successful strategies of end-user engagement in adoption of smart grid solution and agent based model of interacting electricity end users at community level.	30/06/2015	Scientific and policy reports
														2	Policy and regulatory	Based on solutions developed and results achieved, regulatory recommendations and standardization guidelines that allow an efficient and timely deployment of flexible smart metering platforms in EU member states will be provided.	31/12/2017	Scientific and policy reports
														3	Environmental and Societal Impact	Evaluation of CO2 emission reduction due to smart grid services and societal impact of the proposed solution (in terms of efficiency, security and reliability)	31/12/2017	Scientific and policy reports
3.2.e Carry out security, safety, risk and techno-economic assessments of the EU energy supply from conventional sources (oil, natural gas), electricity, and unconventional energy sources, including unconventional hydrocarbons. Develop reporting systems and capacity building and mapping of offshore oil and gas safety technologies and practices necessary for the implementation of the directive on safety of offshore oil and gas installations.																		
244 - MILESECURE -2050 Multidimensional impact of the low-carbon European strategy on energy security up to 2050	The project aim is to explore, identify, analyse and evaluate the multidimensional impact of the European low-carbon strategy on energy security and socio-economic dimension up to 2050 perspective. JRC-IET is involved in four work packages: 1) Analysis of energy policies, trends and existing scenarios from the national to the worldwide level, 2) Societal processes for energy transition, 3) Towards a governance of the energy transition processes, and 4) Promotion, dissemination and networking.	JRC.F.3 Ricardo BOLADO LAVIN	3.2.e	ENER	RTD	Jose Antonio Hoyos Perez (ENER.A.4)	ENV		01/01/2014 31/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		488 - TEA Techno-Economic Assessment of Energy Security	COM-IA	244051	Key ideas for a governance of energy transition	This report illustrates the main findings regarding constitutive elements for a governance of energy transition. It includes a review of all the findings of the first two years of the project as well as of the model elaborated for identifying the constitutive elements for a governance of energy transition.	16/10/2015	Scientific and policy reports
														244052	Guidelines and recommendations for EU policies	This reports presents the guidelines and recommendations for European policies, which constitute the main project output.	18/12/2015	Scientific and policy reports
254 - TNCEIP Technical Support to the Thematic Network for Critical Energy Infrastructure Protection	Technical support: Maintenance of TNCEIP databases, creating Business plan and basic documents, actively promoting the exchange of information with external sources, both at technical level but also in terms of relation with external initiatives. Organisation of meetings, including supply of the venue when necessary.	JRC.G.5 Georgios GIANNOPOULOS	3.2.e	ENER	ENER	Adam SZOLYAK DG ENER.B.1	HOME	ENTSOE - European Network of Transmission System Operators for Electricity	17/12/2012 16/12/2015	2-Information systems & services (20%) 7-Scientific, technical & policy consultancy (80%)		1007 - CRITERIAL Resilience analysis of critical Infrastructures 1763 - ITIS-EUC Incident and Threat Information Sharing EU Centre for Critical Energy Infrastructures	COM-AA	1	Proceedings of meetings	Proceedings after each quarterly meeting	16/12/2015	Monographs with JRC editorship
														2	Position papers	Position papers on the thematic of each quarterly meeting	16/12/2015	Scientific and policy reports
487 - EUGas Gas Transmission Network Modeling	Develop hydraulic gas models at EU and at regional level (set of MS) of the EU Gas Transmission Network (GTN) to analyse the effect of gas crises, including the resilience of the network (network flexibility & emergency planning), as well as reliability aspects. These models will be used in support of the implementation of Regulation 994/2010 on security of gas supply and of the European Programme for Critical Infrastructure Protection.	JRC.F.3 Ricardo BOLADO LAVIN	3.2.e	ENER	n/a	HOYOS PEREZ, JOSE ANTONIO (ENER.A.4)	ENV HOME		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			INS-RS	487151	EUGas-26	Software program building upon EUGas-25, which will allow the simulation of gas crises at the level of the whole EU with the most updated available network data. It will also include the Croatian national gas transmission network.	30/04/2015	Scientific information systems and databases
														487152	EU gas transmission network improvement	A selection of projects for which a Final Investment Decision (FID) has already been made, and for which it has not been yet made (non-FID) by the end of 2014, will be implemented in and analysed with EUGas-26 to identify which of them produce a higher improvement in the gas network resilience.	30/10/2015	Scientific and policy reports
														487161	EUGas-26+	Study identifying which neighbouring countries could be of most interest for modelling their gas transmission networks and adding them to EUGas-26.	31/10/2016	Technical systems
488 - TEA Techno-Economic Assessment of Energy Security	This project develops a framework of different techno-economic models (e.g. global TIMES model TIAM & JRC EU-TIMES) to analyse the multidimensional aspects of energy security, such as access to energy sources or shocks to the energy system. It will assist decision making taking into account synergies and trade-offs between energy security and EU policy goals. This project coordinates the horizontal activities in the area of Security of Supply, including GIS and data gathering and processing	JRC.F.3 Ricardo BOLADO LAVIN	3.2.e	ENER	n/a	Jose Antonio Hoyos Perez (ENER.A.4)	ENV		01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	JRC.F.6	244 - MILESECURE -2050 Multidimensional impact of the low-carbon European strategy on energy security up to 2050 484 - SUPER GRIDS Transmission Systems and Super Grids	INS-RS	488141	TIAM/TIMES EU with gas model	Development of a gas model that incorporates supply, infrastructures and non-power sector gas demand elements. This model will be soft-linked with ETSAP-TIAM/TIMES EU and will allow analysing stresses originated in the gas sector affecting security of the whole EU energy system.	31/05/2015	Technical systems
														488151	Integration gas-electricity within ETSAP-TIAM	Full integration of gas and electricity networks in the framework provided by ETSAP-TIAM/TIMES model. This will allow an integral assessment of energy security in EU, addressing both stresses coming from the power sector and from the gas sector.	30/09/2015	Technical systems
														488161	Integrated EU Energy Security assessment	Report analysing a number of scenarios significant from the point of view of energy security for the EU. A wide scenario analysis with full acknowledgement of uncertainties will be performed. Stresses on the system originated from different energy sources will be analysed.	16/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
489 - SAFE-OIL Safety of Offshore Oil and Gas Operations	Assessment of the safety of offshore oil and gas installations and their role in the security of energy supply. JRC will develop tools for implementation of the EU offshore safety legislation - including a common incident reporting format and system and guidelines - together with MS and industry. It will also provide scientific secretariat of the EU Offshore Authorities Group, support capacity building within the MS and assess best safety technologies.	JRC.F.3 Michail CHRISTOU	3.2.e	ENER	n/a	Jan Panek, HoU, ENER-B.3; Joerg Koehli, ENER-B.3	ENV GROW MARE RTD	- Health and Safety Executive SINTEF - SINTEF	01/01/2014 31/12/2016	2-Information systems & services (20%) 6-Reference materials and measurements (20%) 7-Scientific, technical & policy consultancy (60%)		487 - EUGas Gas Transmission Network Modeling 488 - TEA Techno-Economic Assessment of Energy Security 490 - UH Unconventional Hydrocarbons	INS-RS	7	Guidance on requirements of Offshore Directive	Guidance document on the main requirements of the Offshore Safety Directive. The guidance will cover topics such as: content and assessment of the Report on Major Hazards, reporting and investigation of accidents, inspecting safety compliance, etc.	31/12/2015	Scientific and policy reports
														8	Capacity building 2015	Support capacity building in the MS on issues of Offshore Risk Management. Organise at least 1 Workshop on a risk management theme of high priority for the MS - to be decided together with DG ENER and EUOAG. Assistance to the MS through training, systematic mechanism for sharing best practice and targeted actions.	31/12/2015	Scientific and policy reports
														9	Capacity building - 2016	Support capacity building in MS on Offshore Risk Management issues. Organise at least 1 Workshop on an risk management theme agreed with DG ENER and EU Offshore Authorities Group. Wider support through sharing of best practices, training, etc.	31/12/2016	Scientific and policy reports
														10	Monitoring offshore safety	Support to monitoring offshore safety performance and impact of the Offshore Safety Directive. Statistical analysis of accident data in the reporting period and support to DG ENER in reporting on the Directive as requested therein.	31/12/2016	Scientific and policy reports
														11	Analysis and dissemination of lessons learned	Analysis of accident investigation reports, identification and dissemination of lessons learned.	31/12/2016	Scientific and policy reports
														13	Methodology for impact analysis in offshore sector	Development of a methodology for analysis and evaluation of impacts of regulatory decisions in the offshore oil and gas sector. Application in the level of standards used in drilling rigs	31/12/2015	Scientific and policy reports
														14	Methodology for offshore risk acceptability	Development of a methodology on risk acceptability criteria in the offshore oil and gas sector, to support decisions of Competent Authorities as required by the Offshore Safety Directive.	31/12/2015	Scientific and policy reports
														15	Peer reviewed paper on offshore safety competences	Peer reviewed paper on the competences necessary for a regulator in order to effectively oversight offshore oil and gas operations.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
490 - UH Unconventional Hydrocarbons	Unconventional hydrocarbons are a potential resource contributing to EU energy supply security and economic growth. The project will address energy security, technological, economic and policy aspects, including stakeholder engagement. The first focus will be on shale gas. Activities focus on complementing and providing support to the "European Science and Technology Network on Unconventional Hydrocarbon extraction".	JRC.F.3 Marcelo MASERA	3.2.e	ENER	n/a	Michael Schuetz (ENER.C.2); Alexandri JEVSEJENKO (CLIMA.C.1)	CLIMA ENV GROW RTD	- UNIVERSIDAD DE OVIEDO - Oil and Gas Institute in Krakow - Bundesanstalt für Geowissenschaften und Rohstoffe - GeoForschungsZentrum (GFZ) Potsdam - International Association of Oil and Gas Producers - Delft University of Technology - BP INTERNATIONAL LIMITED - ASSOCIATION EUROGEOSURVEYS* - Lancaster University - University of Mining and Metallurgy - British Nutrition Foundation - Geological Survey of Denmark and Greenland - Wroclaw University of Technology - UNIVERSITY OF SILESIA	01/01/2014 31/12/2016	1-Foresight studies & techniques (25%) 5-Monitoring, verification and surveillance (25%) 7-Scientific, technical & policy consultancy (50%)		487 - EUGas Gas Transmission Network Modeling 488 - TEA Techno-Economic Assessment of Energy Security 1961 - SGST Shale Gas S&T	INS-RS	1	Exploration, demonstration and production projects	Results of elicitation and analysis performed in the frame of the "European Science and Technology Network on Unconventional Hydrocarbon Extraction", including list of existing and (where relevant) planned projects in the EU and the establishment and maintenance of the database specifying the parameters outlined in the mandate of the Network.	31/07/2015	Scientific and policy reports
														2	Emerging Technologies for shale gas	Report, including updated list of emerging technologies that may be suitable for use in the EU, and their possible timeframe for use, building on the 2013 JRC report and in the frame of the "European Science and Technology Network on Unconventional Hydrocarbon Extraction".	30/10/2015	Scientific and policy reports
														765	Support to the Atlas of EU Unconventional Resource	Report on the best available estimation of resources in the EU, based on collaborations with the EuroGeoSurveys and the associated national survey services and their elaboration of the Atlas of EU Unconventional Resources. Provide a critical analysis and assess its application to several cases in Europe. The goal is to set the basis for the full application of the methodology to the whole EU.	24/09/2015	Scientific and policy reports
														969	Risk and impact of unconventional	Report on the risk and impact of unconventional gas and oil resources in Europe, providing an agreed methodology with relevant European actors, and the results of its application to selected cases in Europe. The analysis will cover the technological aspects of safety, environmental and other relevant topics. When required, it will be done in collaboration with EERA and the ETP on Unconventionals, and complemented by activities at IES, IHCP and IPTS.	16/11/2016	Scientific and policy reports
														970	Annual report on the running of the S&T Network	Manage and lead the day-to-day activities of the technical and operational secretariat of the UH S&T Network, and report annually on the working groups and results of the network as a whole.	31/03/2016	Scientific and policy reports
804 - EPCIP2012 EU Gas Network Vulnerability, Interaction with power grid, and Smart Grid Simulation Centre	Two methodologies will be developed to 1) identify and treat vulnerabilities of the EU gas transmission network and 2) study the interaction between the gas network and the power grid. Risk management recommendations will be developed. Additionally we will address the integration of Renewable Energy Sources (RES) with the smart grid and build innovative power system models to improve future architectures of power grids.	JRC.F.3 Ricardo BOLADO LAVIN	3.2.e	ENER	HOME	HOYOS PEREZ JOSE ANTONIO (ENER.A.4)	ENV		01/01/2014 30/09/2015	7-Scientific, technical & policy consultancy (85%) 6-Socio-economic & scientific modelling, scenarios and statistical analysis (15%)		233 - CIPS 2012 CIPS 2012 Action to be carried out with the JRC 487 - EUGas Gas Transmission Network Modeling	COM-AA	804002	Scenario analysis and recommendations to MS	This report will summarise a thorough study developed to analyse system behaviour and resilience, and derive a set of recommendations to MS on the need of risk management of interdependencies. This will consist of the following tasks: 1) Design of set of scenarios of interest to study system performance and resilience under failures propagating between both networks, 2) analysis of scenario results, and 3) deriving recommendations on risk management of interdependencies.	15/09/2015	Scientific and policy reports
														804004	Methodology and recommendations to MS	This report will contain a systematic application of the methodology developed in 804003 to identify most relevant vulnerabilities. The information generated will include most vulnerable network elements, potential consequences on the whole network and also elements contributing to enhance system resilience. The analysis of the information generated will be the basic material to suggest information needs for each transmission system operator and information exchange needs among operators.	15/09/2015	Scientific and policy reports
982 - MODU-SAFE Offshore oil and gas equipment study, with focus on mobile units	Study on the impacts of possible amendments to the product safety legislation (ATEX Directive 94/9/EC, Pressure Equipment Directive 97/23/EC and Machinery Directive 2006/42/EC) with respect to equipment intended for use in the offshore oil and gas industry, as requested by DG ENTR. Focus especially on the mobile drilling units, whose safety should be at equal level as that of the fixed units.	JRC.F.3 Michail CHRISTOU	3.2.e	ENER	GROW	L.F. Girao (GROW-1.5); Ian Fraser	ENV		22/11/2013 21/08/2015	2-Information systems & services (20%) 7-Scientific, technical & policy consultancy (80%)		489 - SAFE-OIL Safety of Offshore Oil and Gas Operations	COM-AA	2	Impact assessment of extension	Assessment of the economic and social impacts of the possible extension of the scope of the EU product safety legislation.	31/08/2015	Scientific and policy reports
														3	Software tool for reporting Annex IX events	This information system will facilitate the reporting of Annex IX events from operators and owners of offshore installations to the Competent Authorities of the Member States according to the common reporting format established under Implementing Regulation	21/08/2015	Scientific information systems and databases
1744 - OFFSHORE OIL AND GAS SAFETY 2013	The project provides support to the implementation of the Offshore Safety Directive. It allows the COM (DG ENER) to develop the necessary methods and tools to comply with requirements of the Directive, especially concerning Reporting of Major Accidents and assessment of adequacy of expert competences in the Member states.	JRC.F.3 Marcelo MASERA	3.2.e	ENER	ENER	Jan Panek, HoU, ENER-B.3			18/12/2013 17/12/2015	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)		489 - SAFE-OIL Safety of Offshore Oil and Gas Operations	COM-AA	1	Secretariat Support for Advisory Committee	Secretariat Support for Advisory Committee on the Implementing Act on the Common Reporting Format	17/12/2015	JRC Technical reports
														2	Stock-taking study on offshore activity	Stock-taking study on the type and size of offshore operations in the Member States.	17/12/2015	Scientific and policy reports
														3	Common Reporting Format	Development of a common reporting format for accident reporting	17/12/2015	Scientific and policy reports
														4	Adequacy of expert resources	Assessment of adequacy of competences and expert resources in the Member States	17/12/2015	Scientific and policy reports
														5	Software tool for reporting Annex IX events	This information system will facilitate the reporting of Annex IX events from operators and owners of offshore installations to the Competent Authorities of the Member States according to the common reporting format established under Implementing Regulation 1112/2014	30/11/2015	Scientific information systems and databases
1763 - ITIS-EUC Incident and Threat Information Sharing EU Centre for Critical Energy Infrastructures	As an outcome of the TNCEIP project, DG ENER has invited the JRC to implement an information sharing platform to handle Incident and Threat Information Sharing in EU for Critical Energy Infrastructures. Main task are: to implement the platform and to populate the platform with data from open source investigations.	JRC.G.5 Georgios GIANNOPOULOS	3.2.e	ENER	ENER	Adam SZOLYAK, ENER.B.1			20/12/2013 19/12/2015	2-Information systems & services (100%)		1001 - CIP-REAL Resilience analysis of critical Infrastructures 254 - TNCEIP Technical Support to the Thematic Network for Critical Energy Infrastructure Protection	COM-AA	1	Establishment of a dedicated office-type structure	Establishment of a dedicated office-type structure in order to report information on threat and open source information on incidents scanning (energy sector) on a daily basis and issue of a threat-awareness and incident bulletin on a weekly basis with a particular focus on ICT-related incidents	19/12/2015	Scientific and policy reports
														3	Analysis reports on incidents	Analysis reports on incidents to identify trends and propose lessons learned (on a quarterly or half year basis, in total 4 or 8	19/12/2015	Scientific and policy reports
														4	Yearly reports on the needs...	Yearly reports on the needs for tools, methodologies and research trends (in total 2)	19/12/2015	JRC Technical reports
														1942212	Review of MS RA - 3	Critical review and assessment of the second update of MS Risk Assessments. The review and assessment of the second update of MS Risk Assessments will be done attending to the conformity to the minimum requirements established in the Regulation and will also include the analysis of correlated risks and/or risks that have a cross-border effect. The assessment will be based on qualitative and quantitative indicators.	30/11/2016	Scientific and policy reports
1942 - RSGS-II TECHNICAL ASSISTANCE, ANALYSIS AND INPUT TO SUPPORT THE IMPLEMENTATION OF REGULATION 994/2010	Support to DG ENER in the implementation of the Regulation 994/2010 on Security of Gas Supply. It includes the analysis of the gas security of supply situation in the EU and individual Member States, technical and analytical assistance in the assessment of the updated Risk Assessments, Preventive Action Plans and Emergency Plans and in the preparation of the assessment report of the implementation of the Regulation.	JRC.F.3 Ricardo BOLADO LAVIN	3.2.e	ENER	ENER	Peter Pozsgai	ENV HOME		01/08/2014 31/07/2017	7-Scientific, technical & policy consultancy (100%)		804 - EPCIP2012 EU Gas Network Vulnerability, Interaction with power grid, and Smart Grid Simulation Centre 488 - TEA Techno-Economic Assessment of Energy Security 487 - EUGas Gas Transmission Network Modeling	COM-AA	1942221	Review of MS Plans - 2	The review and assessment of the first update of the Plans will be done attending to the conformity to the minimum requirements established in the Regulation and will also include the analysis of preventive and emergency measures that have a cross-border effect.	31/05/2015	Scientific and policy reports
														1942222	Review of MS Plans - 3	The review and assessment of the second update of the Plans will be done attending to the conformity to the minimum requirements established in the Regulation and will also include the analysis of preventive and emergency measures that have a cross-border effect.	30/06/2017	Scientific and policy reports
														1942231	Design of template to standardise MS RA and Plans	Based on the second round of assessments of the Plans, to establish a template for the Risk Assessment and Plans to ensure that all national documents are structured in the same way containing a harmonized set of data. This template will be made available to the GCG for their critical review and feedback.	31/10/2015	Scientific and policy reports
														1942312	Development of SoS indicators. Update	Update of the the SoS indicators generated in deliverable 1942311 based on the knowledge acquired during the development of the project.	29/02/2016	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
3.2.f Carry out analysis, techno-economic assessments, resource mapping, monitoring and experimental activities for the development and deployment of renewable energy. This includes photovoltaic technologies, biomass, biofuels and mini-hydro as well as emerging low-carbon technologies such as marine energies, pumped hydro storage, geothermal;																		
107 - SOPHIA Photovoltaic European Research Infrastructure	The project brings together the main European PV research infrastructures to provide the scientific community with common reference point for efficient and coordinated research work on PV technologies. The JRC contributes to the networking activities (mainly as leader of the expert group on module and system performance) and to the joint research activities on quicker lifetime prediction and on energy output prediction. ESTI facilities are also included in the transnational access programme.	JRC.F.7 Nigel TAYLOR	3.2.f	ENER RTD	RTD	Andreea STRACHINESCU OLTEANU (ENER.C.2); Mariano MENNA (RTD.B.3).	CLIMA	CENELEC - European Committee for Electrotechnical Standardization (CENELEC) EERA - European Energy Research Alliance IEC - International Electrotechnical Commission PV Ind EU - Photovoltaic Industry EU R&D Inst Int - Governmental and independent R&D institutions	01/02/2011 31/01/2015	4-Methods and testing (100%)		579 - PVREF Photovoltaics Performance Verification and Standards	COM-IA	2	Round robin studies	Technical report contributing to SOPHIA Deliverable 10.8 round robin studies	01/01/2015	JRC Technical reports
274 - BIOGASTASK 37 2013-2 BIOGASTASK 37 2013-2015	The IEA Bioenergy task carries out studies in the field of bioenergy covering technology development, economic and environmental issues. The JRC leads the work on biogas and biomethane. Activities consist of participating in and managing studies on the development of cost competitive technologies that have minimal environmental impact. The work contributes directly to EU policy implementation in the fields of energy, transport, environment, agriculture and rural development.	JRC.F.8 Luisa MARELLI	3.2.f	ENER	n/a	Kyriakos Maniatis (ENER.C2)	AGRI CLIMA	IEA - International Energy Agency	05/03/2013 04/03/2016	7-Scientific, technical & policy consultancy (100%)			COM-TW	1	Report on gaseous fuel production from algae	Study on energy recovery by anaerobic digestion from cultivated microalgae and macroalgae from contaminated waters.	30/09/2015	Scientific and policy reports
														2	Methane emissions from biogas plants	Assessment of methane emissions measurement at biogas plants and associated LCA studies carried out in collaboration with Swedish nationally-funded project.	31/03/2016	Scientific and policy reports
														3	Nutrient recovery from biogas plants	Study on nutrient recovery in large-scale biogas facilities in areas of intense animal rearing.	31/03/2016	Scientific and policy reports
														4	Biomethane transport fuel	Technical report on the production, standards and engine performance of biomethane use as a transport fuel. There will be report produced in collaboration with IEA Bioenergy and the IEA Advanced Motor Fuels implementing agreement.	30/06/2015	Scientific and policy reports
706 - RE-GIS Exploiting Renewable Energy potential in a changing world.	The opportunities provided by Renewable energies for the low carbon society is assessed by means of geographical analysis (GIS) and technological insights. The availability and exploitability of raw resources for renewable energy production is assessed in the different areas object of the study, with a special emphasis on Europe and its regions (e.g., Danube basin) and with a view to changing boundary conditions (e.g., technology progress, climatic changes, etc.).	JRC.F.7 Fabio MONFORTI-FERRARIO	3.2.f	ENER	n/a	Mrs Paula ABREU MARQUES (ENER.C.1)	AGRI DEVCO NEAR REGIO RTD	ENEA - Agenzia Nazionale per le Nuove Tecnologie, L'energia e lo Sviluppo Economico Sostenibile IEA - International Energy Agency IRENA - International Renewable energy Agency	01/01/2014 31/12/2016	2-Information systems & services (65%) 7-Scientific, technical & policy consultancy (35%)		441 - ReginnoPar Regional Innovation Partnerships 673 - S3P - DANUBE S3P Smart specialisation for the Danube region 677 - S3P - DANUBE- INCO.NET S3P DANUBE-INCO.NET on smart specialisation strategies 742 - PAH2DAN Poly-Aromatic-Hydrocarbons Health impacts assessment for Danube Air Nexus 749 - PVRES PV Resources, Innovation and Market Integration 799 - Stairway2Excellence Cohesion Policy & synergies with R&D funds: the "Stairway to Excellence" 894 - DRDSI Danube Reference Data and Service Infrastructure	INS-RS	2	Bioenergy and soil carbon in EU and the Danube	Agriculture crops are a valuable source of bioenergy for many European countries and very crucial in the Danube area. Nevertheless, energy production from residues should not threaten the Soil Organic Carbon stock. A study on preservation of SOC in Europe will be performed based on modelling results from Soil Quality Unit.	31/07/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	RE assessment in Europe 2015 update	Continuous update of geographical information layers of availability of renewable energy resources in Europe by means of data collection, harmonization and application of feasibility and sustainability constraints	31/12/2015	Scientific information systems and databases
														6	Forest potential assessment in Europe and Danube	Woody biomass is a relevant source of energy for several European countries, including the ones in the Danube area. The study will assess the overall forest energy potential for Europe and the Danube basin area. Starting from state-of-the-art geographical layers of biomass forest content and annual increment, elaborated and harmonized by the JRC Forest group, sustainability and accessibility constraints will be applied, under different mobilization scenarios.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	RE assessment in Europe 2016 update	Continuous update of geographical information layers of availability of renewable energy resources in Europe by means of data collection, harmonization and application of feasibility and sustainability constraints	31/12/2016	Scientific information systems and databases
														8	The near future availability of PV	Climate change models will be employed to assess the future availability of PV energy in Europe and Africa. This is a common deliverable with the RE-GIS-Africa project	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
745 - WET Wind Energy Technology	Carry out techno-economic and market studies and modelling activities to assess the contribution of wind power technology to the present and future energy system, addressing in particular the state-of-the-art and technological developments, deployment challenges, the future technological evolution towards cost reduction, the wind energy market status, deployment scenarios and the impacts of wind energy on the main European energy policy drivers.	JRC.F.6 Evangelos TZIMAS	3.2.f	ENER	n/a	Paul VERHOEF (DG RTD G3); Roberto Gambi (DG ENER C2)	CLIMA RTD	SET-Plan Com - SET-Plan Community	01/01/2015 31/12/2016	1-Foresight studies & techniques (20%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)		660 - MET ET Materials for energy technologies 765 - SETIS SET-Plan Information System 1711 - Wind value ANALYSIS OF THE SOCIAL AND ECONOMIC VALUE OF WIND ENERGY	INS-RS	1	2015 JRC wind energy status report	This report will assess the technology status of wind energy in 2015, focusing on the state of the art, ongoing developments, challenges and bottlenecks to further deployment. It will also address the market status and in particular global deployment, future projections and the strategies of key industrial players. Finally, it will assess the impact of wind energy on the cost of energy.	18/12/2015	Scientific and policy reports
														2	Cost of wind energy	Study analysing the factors related to the economics of production of wind electricity (capital and operational & maintenance costs and energy production) in order to evaluate the cost of wind electricity and to explore its future development. The study will also include an analysis of the technology innovations in design or supply chain, to identify improvements to installation, grid connection, market facilitation, and other areas in which certain approaches could reduce the cost of energy.	30/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	2016 JRC Wind energy status report	This report will assess the technology status of wind energy in 2016, focusing on the state of the art, ongoing developments, challenges and bottlenecks to further deployment. It will also address the market status, and in particular global deployment, future projections and the strategies of key industrial players. Finally, it will assess the impact of wind energy on the cost of energy.	06/12/2016	Scientific and policy reports
														4	Scientific output	Peer review papers addressing wind energy technology	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
749 - PVRES PV Resources, Innovation and Market Integration	This project addresses key factors in relation to the large-scale deployment of photovoltaic technologies, including: solar resource assessment, reliability, market development, synergies with storage technologies and grid impact scenarios. It will provide support to the SET Plan information system (SETIS) regarding solar electricity, as well as to monitoring the Solar Europe Industrial Initiative. Staff will help promote European R&D capabilities and innovation via the EUPVSEC Conference.	JRC.F.7 Nigel TAYLOR	3.2.f	ENER	n/a	Andreea STRACHINESCU OLTEANU (ENER.C.3); Paul VERHOEF (DG RTD G3)	CLIMA RTD	EERA - European Energy Research Alliance PV Ind EU - Photovoltaic Industry EU SET-Plan Com - SET-Plan Community	01/01/2014 31/12/2016	2-Information systems & services (40%) 7-Scientific, technical & policy consultancy (60%)		485 - SMART GRIDS COMPLEX Smart Grids and Complex Systems Modelling 579 - PVREF Photovoltaics Performance Verification and Standards 706 - RE-GIS Exploiting Renewable Energy potential in a changing world. 1699 - PV TP SEC III European Photovoltaic Technology Platform Secretariat 765 - SETIS SET-Plan Information System 2140 - LCEO Low Carbon Energy Observatory	INS-RS	1501	Enhanced PVGIS Capabilities	PV-GIS will be updated and enhanced to utilize results of studies performed in 2014, and in particular the incorporation of spectral effects and wind speed.	31/12/2015	Scientific information systems and databases
														1502	PV Status Report 2015	Annual PV status report provides an independent assessment of the PV market, investment, industrial policies, deployment, technology development and assessment of regulatory and policy framework conditions for current and future developments. The latter shall also draw from participation to IEA PVPS Tasks 1 "Strategic PV Analysis & Outreach" and 14 "Large Scale Integration of PV in the Grid".	31/08/2015	Scientific and policy reports
														1503	Development of EU PV research capacity 2015	A report on the status and development of European research and innovation capacity for photovoltaics, including investment and industrial policies. This includes the support to the technical programme of the EUPVSEC conference.	30/11/2015	Scientific and policy reports
														1504	Sensitivity study on energy yield methods	A detailed sensitivity study of the methods proposed in the newly proposed IEC methodology for energy rating and for energy yield, including consideration of economic impact.	30/09/2015	Scientific and policy reports
														1505	Off-grid PV system performance	Research paper on methods for calculating off-grid PV system performance and extension of the area of application to relevant Asian regions.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														1601	PV-GIS Upgrade 2016	PV-GIS will be updated and enhanced to incorporate the results of studies performed in 2015.	31/12/2016	Scientific information systems and databases
														1602	PV Status Report 2016	The annual PV status report provides an independent assessment of the PV market, deployment, technology development and assessment of regulatory and policy framework conditions for current and future developments. The latter shall also draw from participation to IEA PVPS Tasks 1 "Strategic PV Analysis & Outreach" and 14 "Large Scale Integration of PV in the Grid".	30/08/2016	Scientific and policy reports
														1603	Development of EU PV Research capacity 2016	A report shall describe the JRC work to promote the development of European research and innovation for photovoltaics, principally by its support to the EUPVSEC conference as a premiere event for the research organisations, industry, policy makers and investors. It shall also consider development in associated shared-cost actions supporting the work of the PV technology platform and the EERA PV group.	30/11/2016	Scientific and policy reports
755 - RE-PORT Monitoring Actual and Foreseeable Renewable Energy Deployment	This project monitors the actual deployment of renewable energies (RE), mainly in Europe, by means of the analysis of data coming from different sources producing series of "state-of-the-art" reference progress reports describing both the state of whole RE portfolio and its expected development in future years. The project includes support to the SET-Plan for development of some key renewable technologies.	JRC.F.7 Fabio MONFORTI-FERRARIO	3.2.f	ENER	n/a	Mrs Paula ABREU MARQUES (ENER.C.1)	RTD	IEA - International Energy Agency	01/01/2014 31/12/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)	JRC.F.6	765 - SETIS SET-Plan Information System	INS-RS	2	Contribution to the SET-Plan Technology map	Contribution to the periodical update of the SET-Plan Technology map for certain key renewable technologies (biogas, solid biomass and biofuels)	31/12/2015	Scientific and policy reports
														3	Analysis of 2013-2014 RE progress reports	Analysis of Member States' progress reports 2013-2014 on renewable energy in comparison with the targets planned in the National Renewable Action Plans (NREAPs). Progress reports are expected to be released by the MS before the end of 2015.	31/12/2016	Scientific and policy reports
														5	RE deployment in europe - update 2015	Maintenance and updating of a comprehensive database on RE deployment in Europe allowing the comparison of data arising from different reference sources (Progress reports, National Action plans, EuroStat, EUROserver, IEA, IRENA) - update to end 2015.	31/12/2015	Scientific information systems and databases
														6	RE deployment in Europe - update 2016	Maintenance and updating of a comprehensive data base on RE deployment in Europe allowing the comparison of data arising from different reference sources (Progress reports, National Action plans, EuroStat, EUROserver, IEA, IRENA) - update to end 2016.	31/12/2016	Scientific information systems and databases

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
757 - ERESET Emerging renewable energy technologies	Analyse the social and economic value of emerging low-carbon energy technologies paying particular attention to ocean energy and geothermal energy. The aims of the project are to: (i) assess the potential contribution of these technologies to the European efforts of decarbonising the economy, (ii) identify the barriers to their large scale deployment and uptake by the European energy market, and, (iii) assess the associated socio-economic impacts.	JRC.F.6 Evangelos TZIMAS	3.2.f	ENER RTD	n/a	VERHOEF Paul (RTD.G3)	MARE	SET-Plan Com - SET-Plan Community	01/01/2015 31/12/2016	7-Scientific, technical & policy consultancy (80%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (20%)		765 - SETIS SET-Plan Information System 1195 - NER300 Innovative low-carbon energy demonstration projects	COM-HA	1	Scientific output on emerging RES technologies	Peer reviewed papers based on the techno-economic assessment of geothermal and ocean energy with a main focus on i) the potential of enhanced geothermal systems and ii) the cost of energy and life cycle assessment for the ocean energy sector	20/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Socio-economics of ocean energy	Report on the socio-economic assessment of wave and tidal technologies including a focus on an improved way to assess the levelised cost of energy based on different technologies and resources available.	16/06/2015	Scientific and policy reports
														5	Reliability of ocean energy technologies	This report, produced in the frame of the DTOcean FP7 project, will present the advancement of different operational & maintenance (O&M) scenarios and strategies. It will build on the data generated during this project and will assess O&M costs by combining various cost elements, such as labour, vessels used, the downtime associated losses, etc.	10/12/2015	Scientific and policy reports
														6	Status of Engineered Geothermal Systems	This report will evaluate the current state of the art of power and heat production from Enhanced Geothermal Systems. A particular emphasis will be on those with sealed fracture systems that need to be reopened and stimulated (Engineered Geothermal Systems). An adequate proof of concept to scale up the technology is not available, although up to 3 MW plants have been operated for some time. The report will identify the financial incentives and policy needed to achieve this proof of concept.	17/06/2015	Scientific and policy reports
														7	Scientific output on emerging RES technologies	Peer reviewed papers based on the socio-economic and techno-economic assessment of emerging renewable technologies, such as OTEC, salinity gradient and EGS.	01/09/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1699 - PV TP SEC III European Photovoltaic Technology Platform Secretariat	The European Photovoltaic Technology Platform is an independent body which aims to be the recognized point of reference for key decision and policy makers. The Platform's mission is to develop a strategy and corresponding implementation plan for education, research & technology development, innovation and market deployment of photovoltaic solar energy. The secretariat provides organisational support to the Steering Committee and the other entities of the Platform.	JRC.F.7 Arnulf JAEGER-WALDAU	3.2.f	ENER RTD	RTD	Andreea STRACHINESCU OLTEANU (ENER.C.2); Fabio BELLONI (RTD.G3)	CLIMA	- EUROPEAN PHOTOVOLTAIC INDUSTRY ASSOCIATION	01/09/2013 31/08/2016	7-Scientific, technical & policy consultancy (100%)		1390 - RE-GIS-Africa Exploiting Renewable Energy potential in a changing Africa 749 - PVRES PV Resources, Innovation and Market Integration 706 - RE-GIS Exploiting Renewable Energy potential in a changing world.	COM-HA	2051	D2.5 Update Strategic Research Agenda	1st Update M18	28/02/2015	Scientific and policy reports
														2052	D2.5 Update Strategic Research Agenda	2nd update M36	31/08/2016	Scientific and policy reports
														2060	D2.6 Assessment of SRA implementation	Assessment of the implementation of the Strategic Research Agenda	31/08/2016	Scientific and policy reports
														2070	D2.7 PV a major electricity source	PV a major electricity source by 2020 and by 2030	31/08/2016	Scientific and policy reports
														2080	D2.8 Technical and regulatory challenges	Technical and Regulatory challenges for photovoltaic electricity generation exceeding 10%, 15%, 20% of European electricity demand	31/08/2016	Scientific and policy reports
														2090	D2.9 Single European Market for PV	Single European Market for photovoltaic systems	31/08/2016	Scientific and policy reports
1717 - CHEETAH Cost-reduction through material optimisation and Higher EnErgy output of solar photovoltaic modules	CHEETAH aims at 1- solving specific bottlenecks in the R&D Joint Program of EERA-PV, 2- strengthening the collaboration between PV R&D performers in Europe through sharing of knowledge, personnel and facilities, and 3- accelerating the implementation of developed technologies in the European PV industry. Within CHEETAH, JRC leads the task 12.5 on standardisation.	JRC.F.7 Nigel TAYLOR	3.2.f	ENER RTD	RTD	GETSIOU Maria (RTD.G3)		- EUROPEAN PHOTOVOLTAIC INDUSTRY ASSOCIATION - FORSCHUNGSVERBUND BERLIN E.V. DTU - Technical University of Denmark - Danmarks Tekniske Universitet CEA - Commissariat à l'Energie Atomique et aux Energies	01/01/2014 31/12/2017	7-Scientific, technical & policy consultancy (100%)			COM-HA	1	Guidelines for standards for next generation PV	A comprehensive status report on standards for PV systems and priorities for development work. This will bring together the innovative expertise from the R&D organisations as well as opinions of industry. A mid-term report will be produced as a separate deliverable that will be handled only internally and will serve as a main benchmark for the final report.	31/12/2015	JRC Technical reports
2146 - PhotoClass Towards an energy-based parameter for photovoltaic classification	An improved PV efficiency metric will be developed, based on energy output in European climatic conditions and including uncertainty evaluations. This will allow an energy yield risk assessment to be made, which is currently not possible. System planners and investors can exploit the results to optimise their services.	JRC.F.7 Ewan DUNLOP	3.2.f	ENER RTD	RTD	Gustav WINROTH (RTD.D.2)		CENELEC - European Committee for Electrotechnical Standardization (CENELEC) IEC - International Electrotechnical Commission PV Ind EU - Photovoltaic industry EU	01/05/2014 30/04/2017	4-Methods and testing (50%) 6-Reference materials and measurements (50%)			COM-HA	116	D1.1.6 Feasibility study	1.1.6 Report on the feasibility study on including wind speed and spectral data into the geospatial model Nov 2015	30/11/2015	Scientific and policy reports
														121	D1.2.1 Datasets of climatic conditions	Datasets of climatic conditions (standard days / years) created to represent typical European climatic zones (Mar 2015)	31/03/2015	Validated methods, reference methods and measurements
														122	D1.2.2 Methodology for standard climatic data	Paper describing the methodology used to select the standard European climatic data submitted for publication in a peer reviewed journal (Jul 2015)	31/07/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														123	D1.2.3 Software for energy yield maps	A software tool developed to produce maps of predicted energy-yield including uncertainty estimates and estimated annual variations based on the energy-based metric scores and predicted uncertainties, and module orientation (Jan 2016)	31/01/2016	Scientific information systems and databases
														124	D1.2.4 Energy-based metric for predicting yields	1.2.4 Paper on the benefits of using an energy-based metric to predict energy-yields relative to a peak-power based metric submitted for publication in a peer reviewed journal (May 2016)	31/05/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														132	D1.3.2 Measurement data with uncertainty	Measurement data with uncertainties delivered to NPL and REG(LU) (Aug 2016)	31/08/2016	Validated methods, reference methods and measurements
														325	D3.2.5 Integral irradiance responsivity data	Integral irradiance responsivity (linearity) characterised for at least 6 2x2 cm ² cells, at least 6 larger cells up to 6" in size, at least 6 mini-modules, and at least 6 modules using different types of solar simulator and natural sunlight, including uncertainties (Jul 2016)	31/08/2016	Validated methods, reference methods and measurements
														333	D3.3.3 Measurement methods for T dependence	Report on the validated measurement methods for the temperature dependence of PV devices of various physical sizes (Apr 2015)	30/04/2015	Validated methods, reference methods and measurements
														339	D3.3.9 Integral temperature dependence data	Integral temperature dependence characterised (20 °C – 60 °C) for at least 6 2x2 cm ² cells, at least 6 larger cells up to 6" in size, at least 6 mini-modules, at least 6 modules and 6 reference devices using different types of solar simulator or natural sunlight (Oct 2016)	31/10/2016	Validated methods, reference methods and measurements
														412	D4.1.2 Comparison of spectroradiometers	Report on the comparison of JRC's spectroradiometers with PTB's (Apr 2015)	30/04/2015	JRC Technical reports
														413	D4.1.3 Collimation tubes and shading disks	Collimation tubes and shading disks for spectroradiometers realised	30/04/2015	JRC Technical reports
														414	D4.1.4 Solar spectra monitoring data	Global, direct and angularly resolved diffuse solar spectra monitored	30/09/2015	Validated methods, reference methods and measurements
														415	D4.1.5 Paper on spectral sky scanning	Paper on spectral sky scanning submitted for publication in a peer reviewed journal. A report will also be prepared	31/10/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														432	D4.3.2 PV modules calibrated	3 PV modules calibrated as a reference for measurements with the LED-based solar simulator	29/02/2016	Validated methods, reference methods and measurements
														515	D5.1.5 Reports to standardisation organisations	Delivery of reports to relevant standardisation organisations, etc. completed	30/04/2017	Scientific and policy reports
														521	D5.2.1 Training course	1 training course organised and held	30/04/2017	Training

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3.2.g Carry out energy systems modelling, including energy storage valuation and inclusion of energy technologies in overall energy chains, to support the implementation of the European Strategic Energy Technology Plan (SET plan).																		
735 - ESM Energy Systems Modelling	Model the future prospects of low-carbon technologies and energy storage options at system level in order to analyse the interaction between policies, economics, resources, infrastructures and market uptake of these technologies.	JRC.F.6 CHRISTIAN THIEL	3.2.g	ENER	n/a	Andreea Strachinescu (DG ENER.C.2); Gwennael Jollif-Botrel (DG RTD.G.1); Jan Christoph NILL (CLIMA.A.4)	CLIMA RTD	SET-Plan Com - SET-Plan Community	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (20%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (80%)	JRC.F.3	INS-RS		7	JRC-EU-TIMES energy system model 2015	Recalibrated JRC-EU-TIMES model (to 2010 baseline), aligned to latest energy reference scenario, and with improvements on specific sectors and modeling techniques (e.g. enabling Monte-Carlo simulation)	31/12/2015	Scientific information systems and databases
														9	Electricity storage valuation modelling 2015	Expand the JRC-inhouse model DISPA-SET to a unit commitment model to study the RES-E (renewable energy sources for electricity) market integration, the interaction with electricity storage, and possible impacts on power markets.	31/12/2015	Scientific information systems and databases
														10	Flexibility aspects in the energy system	JRC-EU-TIMES based analysis of flexibility requirements in the energy system in combination with Dispa-SET. Impacts on the deployment of low carbon energy technologies and boundary conditions for the generation portfolio.	31/12/2015	Scientific and policy reports
														11	Scientific Output 2015	Submit manuscripts to peer-reviewed journals on energy modelling issues to strengthen the knowledge base portfolio of the JRC and to broaden its opportunities for support to EU energy relevant policies.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														12	JRC-EU-TIMES energy system model 2016	JRC-EU-TIMES model soft-linked to Dispatching models allowing holistic assessments of the interaction between variable renewable electricity, storage needs and power system security.	31/12/2016	Scientific information systems and databases
														13	Scientific Output 2016	Submit manuscripts to peer-reviewed journals on energy modelling issues to strengthen the knowledge base portfolio of the JRC and to broaden its opportunities for support to EU energy relevant policies.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1711 - Wind value ANALYSIS OF THE SOCIAL AND ECONOMIC VALUE OF WIND ENERGY	Carry out techno-economic and market studies to highlight the importance of wind power technology for the future energy system, including an analysis of the regulatory framework and addressing in particular the state-of-the-art and technological developments, differences between onshore and offshore technologies, deployment challenges, the future technological evolution towards cost reduction, the wind energy market status, deployment scenarios and other social and non-economic impacts.	JRC.F.6 Evangelos TZIMAS	3.2.g	ENER	ENER	STRACHINESCU OLTEANU Magdalena Andreea (ENER.C.2)	RTD		18/12/2013 16/11/2016	7-Scientific, technical & policy consultancy (100%)	660 - MET ET Materials for energy technologies 745 - WET Wind Energy Technology 765 - SETIS SET-Plan Information System 2140 - LCEO Low Carbon Energy Observatory	COM-AA		1	Regulatory framework in EU MS	Overview of the range of regulatory frameworks in force and policy tools used currently in EU Member States. A focus will be put on a- aspects that are different for those MS that have or will eventually have offshore wind farms and b- consenting aspects in five countries currently leading offshore wind deployment in the EU.	30/11/2014	Scientific and policy reports
														2	Annual global market status report	Analysis of the wind turbine and wind deployment markets, offshore and onshore, with the exception of small turbines. Aspects to be covered include installed capacity; electricity generated; split per country and per region; capacity factors, etc.; wind farms vs. individual turbines; ownership (community/utilities), etc.	30/04/2015	Scientific and policy reports
														3	Economic impacts of wind energy report	Analysis of the different economic impacts of wind energy including direct (e.g. trade balance, economic aspect of job creation) and indirect (e.g. reduction of fossil fuel imports) ones.	31/08/2015	Scientific and policy reports
														4	Wind power technology aspects report	Description of technological aspects of wind energy from the farm down to the key components of the turbine and from design to materials, such as the main turbine topologies, drive train configurations, gearbox and electricity generator technologies. The differences will be explored in terms of performance and material requirements.	31/05/2015	Scientific and policy reports
														5	Annual Global Market status report update	Update of the analysis of the wind turbine and wind deployment markets, offshore and onshore, with the exception of small turbines. Aspects to be covered include installed capacity; electricity generated; split per country and per region; capacity factors, etc.; wind farms vs. individual turbines; ownership (community/utilities), etc.	31/03/2016	Scientific and policy reports
														6	Non-economic impacts of wind energy	Analysis of social impacts of large scale deployment of wind energy in Europe, focusing on employment and the reduction of scenic value, and of other non-economic impacts such as on the reduction of GHG emissions, the decarbonisation of the EU economy, the EU security of energy supply, as well as on other environmental impacts and mitigation measures	31/03/2016	Scientific and policy reports
														7	Wind power technology aspects report update	Update of the description of technological aspects of wind energy from the farm down to the key components of the turbine and from design to materials, for example the main turbine topologies, drive train configurations, gearbox and electricity generator technologies. The differences will be explored in terms e.g. of performance and material requirements.	31/07/2016	Scientific and policy reports
														8	Update of Del. 1 covering Regulatory framework in the EU	Overview of the range of regulatory frameworks in force and policy tools used currently in EU Member States. A focus will be put on a- aspects that are different for those MS that have or will eventually have offshore wind farms and b- consenting aspects in five countries currently leading offshore wind deployment in the EU.	31/08/2016	Scientific and policy reports
														9	Impact of wind energy in the EU	A summary for policy makers based on the findings of this administrative arrangement	30/09/2016	Scientific and policy reports
3.2.h Support the implementation of the carbon capture and storage (CCS) directive and analyse the re-use of CO2.																		
430 - CCUS Carbon Capture Utilisation and Storage	Assess the potential impact of carbon capture utilisation and storage (CCUS) technologies in the European energy system with regards to greenhouse gas emissions reduction, industrial competitiveness and primary energy use. Investigate the technical and economic feasibility of CO2 re-use technologies. Assess the barriers to the large-scale deployment of CCS in the European industrial and power sectors focusing on technological innovation and the European CO2 storage capacity.	JRC.F.6 Evangelos TZIMAS	3.2.h	ENER	n/a	SCHUPPERS Jeroen (RTD.G.2); VELKOVA Maria (CLIMA.C.1); STRACHINESCU OLTEANU Andreea (ENER.C.2)	CLIMA RTD	CSLF - Carbon Sequestration Leadership Forum SET-Plan - Strategic Energy Technology Plan (SET Plan)	01/01/2015 31/12/2016	2-Information systems & services (10%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)	765 - SETIS SET-Plan Information System 748 - EFIS Energy efficiency in industry and energy supply	INS-RS		1	Technoeconomic analysis of CO2 re-use options	This scientific study will assess the potential costs and benefits of the most promising CO2 re-use options. In particular, through process flow modelling, the energy and carbon balances and the associated costs will be estimated for renewable methanol production, urea yield boosting, mineralisation, polymer manufacturing and formic acid production.	03/03/2015	Scientific and policy reports
														4	Scientific output on CCU	Peer review papers addressing the costs, benefits and market potentials of CCU.	16/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														7	Integrated approach to CO2-based supply chain	This analysis will elucidate competitive CCU value chains in the European context. Using mathematical modelling, the carbon sources (i.e. heavy industry) and sinks (i.e. CO2 utilisation plants) are matched together through optimum supply chains, that evaluate the net present value and the environmental impact through a life cycle assessment (LCA). This work considers CO2 capture, transportation (if needed) and conversion, and the use of renewable electricity.	14/12/2016	Scientific and policy reports
														8	Update of the European CO2 storage atlas	Continuous update of the Interactive tool that hosts the CO2 storage atlas with new or improved functionalities and with new corrected data coming from the Member States, based on feedback by DG ENER and CLIMA. Continuous provision of assistance to the policy DGs for the use of the tool and the exploitation of its underlying databases.	16/12/2015	Scientific information systems and databases
														9	Analysis of spatial CO2 storage potential in Europe	Valorisation of the European CO2 storage atlas and the results of the now completed CO2Stop project via the production of reports requested by DG ENER and DG CLIMA assessing spatial CO2 storage capacity in Europe to underpin policy initiatives, e.g. the conception of large infrastructure projects and to contribute to the policy dialogue on the role of CCS in the future European energy system. Support will also be provided for an Energy Storage Mapping and Planning study.	16/12/2016	Scientific and policy reports
														10	Continuous update of European CO2 storage atlas	Continuous update of the Interactive tool that hosts the CO2 storage atlas with new or improved functionalities and with new corrected data coming from the Member States, based on feedback by DG ENER and CLIMA. Continuous provision of assistance to the policy DGs for the use of the tool and the exploitation of its underlying databases.	16/12/2016	Scientific information systems and databases
3.2.i Analyse, simulate, assess, and carry out experimental research on the development of energy infrastructure in the EU and beyond including super power grids, infrastructure for large-scale deployment of renewable energy, and gas infrastructure.																		
484 - SUPER GRIDS Transmission Systems and Super Grids	The aim of this project is to develop scenarios and assess merits and options for the development of transmission systems and electricity highways in Europe and beyond. To this end, advanced steady state and dynamic models of the power system will be developed and integrated, with special focus on the interfaces/interactions between inter-continental (super) grids, North Seas offshore grids for wind, electricity transmission & distribution systems and gas & power networks.	JRC.F.3 Gianluca FULLI	3.2.i	ENER	n/a	Jose Antonio HOYOS PEREZ (ENER.A.4)	HOME	ENTSOE - European Network of Transmission System Operators for Electricity Med-TSO - Association of Mediterranean Transmission System Operators for electricity Med-TSO.	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	75 - AFTER A Framework for electrical power systems vulnerability identification, dEense and Restoration 173 - Top-VN Topological vulnerability assessment of power infrastructure 488 - TEA Techno-Economic Assessment of Energy Security 735 - ESM	INS-RS		2	Prototype Dynamic European transmission model	This prototype transmission model is expected to cover a European region and feature a much finer time granularity (respect to steady-state models) to assess phenomena and disturbances - e.g. linked to massive penetration of variable renewable energy technologies - which may impact the secure operations of the European power system.	29/05/2015	Scientific information systems and databases
														3	Offshore/onshore grids assessment	Topological and market assessment of a regional offshore super grids integrating large quantities of renewables.	31/12/2015	Scientific information systems and databases
														4	Transmission and distribution systems model	Further expansion of the European power transmission system model with inclusion of interfaces/interactions with the power distribution grids and of cybersecurity issues	31/12/2016	Scientific information systems and databases
														5	Dynamic European transmission model	This transmission model is expected to cover a large portion of Europe and feature a much finer time granularity (respect to steady-state models) to assess phenomena and disturbances - e.g. linked to massive penetration of variable renewable energy technologies - which may impact the secure operations of the European power system.	31/12/2016	Scientific information systems and databases
														1	Electricity in Cyprus: present outlook and future situation	Report on "Electricity in Cyprus: present outlook and future scenarios" with brief outlook on the present situation	01/01/2015	Scientific and policy reports
1924 - CYPRUS RES-GRID JRC-ECFIN-EMPL Cyprus RES grid integration studies Administrative Arrangement	Technical assistance to Cyprus for assessing the current state of the transmission and distribution electricity systems and proposing optimum solutions for increasing the amount of Renewable Energy Sources (RES) generation that can be fed on the electricity system.	JRC.F.3 Gianluca FULLI	3.2.i	ENER	EMPL	Stephan RESSL (ECFIN.DDG2.SGGY Cyprus)	ECFIN		01/01/2015 10/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		COM-AA		2	Steady state and dynamic models of transmission	Steady state and dynamic models of the transmission system	28/02/2015	Scientific information systems and databases
														4	Electricity distribution system evolution	Perspective analysis of the possible evolution of the electricity distribution system of Cyprus	28/02/2015	Scientific and policy reports
														5	Policy developments for electricity transition	Report on "Potential policy developments for electricity transition in Cyprus"	01/06/2015	Scientific and policy reports
														1	PCIs Assessment framework	Updated JRC/ENER joint report (Definition of an assessment framework for Projects of Common Interest in the field of Smart Grids) regarding the methodology developed to evaluate the economic, social and environmental impacts of Smart Grids Projects of Common Interest and including interrelations and differences among the methodologies developed by JRC to evaluate Smart Grids PCIs and by ENTSO-E to evaluate electricity transmission PCIs.	31/12/2015	Scientific and policy reports
1941 - SMART GRID PCIS JRC-ENER Smart Grid Projects of Common Interest Administrative Arrangement	Support DG ENER's activities on the identification of Projects of Common Interest (PCI) on energy infrastructure for the 2nd Union list, notably for electricity/gas transmission & storage/smart grid deployment. This relates to EU Reg. No 347/2013 and the work of the regional energy infrastructure WGs calling for identification of: 1) adoption of electricity and gas transmission & storage PCI; 2) smart grid PCI Union wide, necessary for energy infrastructure priority corridors & thematic areas.	JRC.F.3 Gianluca FULLI	3.2.i	ENER	ENER	Sebastian Gras (ENER.B.1); Constantina Filoiu (ENER.B.3); Olgerts VIKSNE (ENER.B.1); Monika SZIGRI (ENER.C.1); Marija MRDEZA (ENER.B.1)			01/01/2015 31/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		COM-AA		2	Smart Grid PCIs evaluation	Evaluation report regarding Smart Grid Projects of Common Interest project proposals to be included in the second Union-wide list of PCIs to advise the Regional Group regarding the compliance with the eligibility criteria in line with the Regulation (EU) No 347/2013.	31/12/2015	Scientific and policy reports

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2749 - OTG Offshore Transnational Grids (OTG) – Technical and Geopolitical Implications	The project shall identify and analyze the engineering and geopolitical challenges in building a transcontinental energy interconnection between Europe and North America. It would deal with the challenges applying sophisticated simulations of the electricity system and conducting a survey / analysis of oil and LNG supply questions. The final deliverable would include an analysis of the geopolitical impact of the initiative.	JRC.F.3 Luigi DEBARBERIS	3.2.i	ENER	n/a	M. A. STRACHINESCU OLTEANU (HoU ENER.C.2); BEMTGEN Jean-Marie		ETSO-E - European Network of Transmission System Operators	01/01/2015 30/12/2016	1-Foresight studies & techniques (100%)			INS-ER	1	State-of-the-art knowledge	D1 will provide an analysis on the availability of the technology required for the infrastructure and an exploration of the current situation on the policy arena of the transatlantic negotiations for green energy.	30/06/2015	Scientific and policy reports
														2	Experts Survey on technological barriers	This publication will provide a survey on the technology needs for the transcontinental interconnection (except of the electrical engineering field)	30/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Hardware&software simulation engineering solutions	This publication will provide the results of the hardware-in-the-loop and/or desktop simulations of the infrastructure	30/06/2016	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Geopolitical Implications on the International Are	The deliverable 4 will analyse the geopolitical barriers on the implementation of the transcontinental connection	30/09/2016	Scientific and policy reports
														5	Conclusions and future work	The deliverable 5 will combine the results of the previous deliverables, will provide viable solutions to advance the situation and will propose future improvements of the work.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
3040 - GAA JRC-ENER Generation Adequacy Assessment Administrative Arrangement	Development of a harmonised European methodology to assess generation adequacy at regional and European level. The objective will be to propose a suitable generation adequacy methodology to provide a consistent assessment approach across the Internal Electricity Market (IEM)	JRC.F.3 Gianluca FULLI	3.2.i	ENER	ENER	Tadhg O'Bráin (ENER.B.2); Andras Hujber (ENER.B.2)		ETSO-E - European Network of Transmission System Operators	01/01/2015 31/12/2016	4-Methods and testing (100%)			COM-AA	1	Review of existing GA assessment methodologies	JRC/ENER joint report regarding the different methodologies and metrics existing in Europe for the assessment of Generation Adequacy (GA)	30/06/2015	Scientific and policy reports
														2	Data requirement for GA assessment	It is necessary to have the most appropriate data set for the assessment. Each methodology needs different type of data set, so it is important to establish a common and understandable input data for the most suitable technique	31/12/2015	Scientific and policy reports
														3	Harmonised European methodology to assess GA	After developing the methodology and using the agreed data set, the assessment at European and regional level should be assess. The objective is to integrate the results with the results obtained at national level	31/12/2016	Scientific and policy reports
3.2. Support the implementation of the REMIT Regulation on wholesale energy market integrity and transparency. This includes: defining standard reports, improving data quality, developing routines to detect market abuse, particularly regarding interaction with physical flow data, and analysing volatility patterns and their fundamental factors.																		
2843 - DEMA Detection Energy Market Abuse	DG JRC will support ACER (Agency for the cooperation of Energy Regulators) to develop a coherent analysis framework to detect potential Energy Market abuses. It will include: definition of standard templates for reporting data and metadata; data cleansing (outliers and potential anomalies detection) and data anonymization; analysis of temporal and spatial patterns in the EU Energy Market; analysis of energy market volatility.	JRC.G.1 Andrea PAGANO	3.2.j	ENER	ENER	Andras Hujber, ENER-B2			01/05/2015 30/04/2016	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Analysis of outliers, anomalies and patterns	On the basis of data provided to ACER, JRC will contribute to data handling (systematizing/polishing/standardizing) in order to make the data collection suitable for analysis, and it will analyse and compare, on pilot set, the most effective methodologies for the (multivariate) detection of anomalous patterns.	01/11/2015	Scientific information systems and databases
														2	Analysis of Energy Market volatility	JRC will contribute to fine-tuning the detection of volatility in gas and electricity markets in order to establish a "benchmark" against which anomalous behaviours are defined. This includes modelling short term volatility (price spread), near- to mid-term (Option Pricing via Black-Scholes model) and long-term volatility (analysis of the fundamental factors influencing market volatility based on past trends).	15/04/2016	Scientific information systems and databases
3.3 Nuclear safety and security																		
3.3.1 Nuclear safety including: fuel and reactor safety, waste management and decommissioning, environmental monitoring and emergency preparedness																		
3.3.1.1 Nuclear reactor safety																		
3.3.1.1.a Collection, analysis, and assessment of nuclear power plants operational experience worldwide, and dissemination of information to the Member States' regulatory authorities:																		
494 - CLEARINGHOUSE European Clearinghouse on Operating Experience for Nuclear Power Plants (NPP)	The European Clearinghouse is a European network established to enhance nuclear safety through improvement of the use of lessons learned from Operating Experience (OE) of NPP. The objectives are: - Strengthening co-operation between EU Safety Authorities in OE - Establishment of European best-practice for assessment of operational events in NPPs - Strengthening EU resources in OE. - Support to the long-term EU research and policy needs on NPP Operational Experience Feedback	JRC.F.5 BENOIT ZERGER	3.3.1.1.a	ENER	n/a	Maurizio Boella		- Федеральное агентство по техническому регулированию и метрологии - Federal Agency for Nuclear Control BNSA NRA - Агенцията за ядрено регулиране - Bulgarian Nuclear Regulatory Authority ASN - Autorité de sûreté nucléaire BMU - Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit CNCAN - Comisia Nationala pentru Controlul Activitatilor Nucleare (RO) ENSI - Swiss Federal Nuclear Safety Inspectorate HAEA - ORSZÁGOS ATOMENERGIA HIVATAL - Hungarian Atomic Energy Authority IAEA - International Atomic Energy Agency (IAEA) ILENT - Inspectie Leefomgeving en Transport (NL) - Human Environment and Transport Inspectorate NEA - Nuclear Energy Agency (OECD) PAA - Państwowa Agencja Atomistyki Reg EU - EU Nuclear Safety Regulatory Authorities SSM - Strålsäkerhetsmyndigheten - Swedish Radiation Safety Authority SUJB - Státní úřad pro jadernou bezpečnost (CZ) - The State Office for Nuclear Safety UJD SR - Úrad jadrového dozoru (SK) - Nuclear Regulatory Authority of the Slovak Republic VATESI - Valstibine atomines	01/01/2014 31/12/2016	1-Foresight studies & techniques (40%) 7-Scientific, technical & policy consultancy (40%) 9-Education & training (20%)			INS-RS	4	Topical Operating Experience Report nbr. 4	Technical Report: Topical Operating Experience Report on Design.	31/12/2015	Scientific and policy reports
														5	Topical Operating Experience Report nbr. 5	Technical Report: Topical Operating Experience Report on specific subject of interest to the Clearinghouse members (precise topic still to be decided in consensus with the Clearinghouse Members in early 2015).	30/06/2016	Scientific and policy reports
														6	Topical Operating Experience Report nbr. 6	Technical Report: Topical Operating Experience Report on specific subject of interest to the Clearinghouse members (precise topic still to be decided in consensus with the Clearinghouse Members in early 2015).	31/12/2016	Scientific and policy reports
														14	Draft IRS reports	Clearinghouse review or draft of IRS (Incident Reporting System) reports submitted by Clearinghouse member safety authorities to the IAEA/OECD-NEA IRS. (expected number: 5 per year, provided enough draft reports submitted by the Clearinghouse Members)	31/12/2015	Scientific and policy reports
														15	Draft IRS reports	Clearinghouse review or draft of IRS (Incident Reporting System) reports submitted by Clearinghouse member safety authorities to the IAEA/OECD-NEA IRS. (expected number: 5 per year, provided enough draft reports submitted by the Clearinghouse Members)	31/12/2016	Scientific and policy reports
														16	Quarterly newsletters	Technical note (Quarterly Report) on systematic screening and assessment of worldwide operational event information to identify and timely disseminate applicable insights (OEF newsletter) of importance to the organisations participating to the EU Clearinghouse on OE. (4 reports per year)	31/12/2015	Scientific and policy reports
														17	Quarterly newsletters	Technical note (Quarterly Report) on systematic screening and assessment of worldwide operational event information to identify and timely disseminate applicable insights (OEF newsletter) of importance to the organisations participating to the EU Clearinghouse on OE. (4 reports per year)	31/12/2016	Scientific and policy reports
														18	Training on Root Cause Analysis	Training on Root Cause Analysis and Events investigations for the benefit of the European Nuclear Safety Authorities (one session per year)	31/12/2015	Training
														19	Training on Root Cause Analysis	Training on Root Cause Analysis and Events investigations for the benefit of the European Nuclear Safety Authorities (one session per year)	31/12/2016	Training
														20	Peer reviewed papers	Peer reviewed papers based on the topical studies (2 per year).	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
21	Peer-reviewed papers	Peer reviewed papers based on the topical studies (2 per year).	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
3.3.1.1.b Research on structural materials for analysis, and modelling of ageing of components and structures with a view to improving residual lifetime assessment techniques;																		
127 - MULTIMETAL Structural Performance of multi-metallic Components (MULTIMETAL)	The main objectives of MULTIMETAL are: • Develop a standard for fracture resistance testing in multi-metallic specimens. • Develop harmonized procedures for dissimilar metal welds brittle and ductile integrity assessment. The underlying aim of the project is to provide recommendations for a good practice approach for the integrity assessment of dissimilar metal welds as part of overall integrity analyses and leak-before-break (LBB) procedures.	JRC.F.4 Oliver MARTIN	3.3.1.1.b	RTD	RTD	Mykola Dzubinsky (mykola.dzubinsky@ec.europa.eu) RTD.D3		- STUDEVNIK NUCLEAR AB - Tecnotom - BAY ZOLTAN FOUNDATION FOR APPLIED RESEARCH EDF - Electricité de France EDF Energy - EDF Energy JSI - Jozef Stefan Institute NUGENIA - Nuclear Generation II & III Association VTT - Technical Research Centre of Finland - AREVA NP SAS* - AREVA GMBH* - COMMISSARIAT A L ENERGIE	01/02/2012 31/01/2016	4-Methods and testing (100%)			COM-IA	44	J value estimation of multi-metallic specimen 3D	This report summarizes the results and modelling approaches of the benchmark exercise on J value estimation of multi-metallic specimens using 3D models within WP4.2 of the FP7 project MULTIMETAL.	15/12/2015	Scientific and policy reports
														45	Recommendation on local approach analysis	This report gives recommendations on the use of local approach methods for design of specimens for fracture toughness testing of multi-metallic specimens. It is based on the results and conclusions from WP4.3 "Local Approaches" of the FP7 project MULTIMETAL.	15/12/2015	Scientific and policy reports
														52	Validation of different numerical assessment metho	The report summarizes the results of the benchmark exercise carried out within WP5.2 of the MULTIMETAL project. The aim of the benchmark exercise is to apply the most promising numerical approaches according to WP4 onto a common case (multi-metallic specimen with known material and fracture properties).	15/12/2015	Scientific and policy reports
														53	Final Report on structural performance of multi-me	The report summarises the validated analysis of the benchmark exercise results and derives practical recommendations for toughness assessment of multi-metallic specimen with known material and fracture properties	31/01/2016	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
448 - IntAG-LWR Integrity and Ageing of present Light Water Reactors and future Water cooled Reactors (IntAG-LWR)	The objectives of IntAG-LWR are: - the consolidation of existing knowledge and research to resolve open issues concerning the integrity assessment and ageing of present light water reactors (Gen II & III) and - research on the corrosion behavior (in particular stress corrosion cracking) of nuclear materials in supercritical water conditions as part of further development of water cooled reactors. - Tests on environmental fatigue behavior of stainless steels.	JRC.F.4 Oliver MARTIN	3.3.1.1.b	ENER	n/a	Maurizio BOELLA (HoU ENER.D.2)	RTD	IFRAM - International Forum for Reactor Ageing Management EDF - Electricité de France GIF - Generation-IV International Forum IAEA - International Atomic Energy Agency (IAEA) 451 - SANuC Safety Assessment of Nuclear Fuel Cladding (SANuC) 452 - SCRAMSMEX Stress corrosion CRACKing through Synergistic Modelling and Experimental approach (SCRAMSMEX) NEA - Nuclear Energy Agency (OECD) NRG - Nuclear Research and consultancy Group, NRG NUGENIA - Nuclear Generation II & III Association SNETP - Sustainable Nuclear Energy Technology Platform (SNETP) USNRC - United States Nuclear Regulatory Commission	01/01/2014 31/12/2016	4-Methods and testing (50%) 6-Reference materials and measurements (25%) 7-Scientific, technical & policy consultancy (25%)		127 - MULTIMETAL Structural Performance of multi-metallic Components (MULTIMETAL) 451 - SANuC Safety Assessment of Nuclear Fuel Cladding (SANuC) 452 - SCRAMSMEX Stress corrosion CRACKing through Synergistic Modelling and Experimental approach (SCRAMSMEX) 477 - SCWR-FQT Supercritical Water Reactor - Fuel Qualification Test 478 - NUGENIA+ Preparing NUGENIA for HORIZON 2020 (NUGENIA+) 737 - DATA Data Acquisition Transfer and Analysis (DATA)	INS-UR	20151	Comparative study crack growth rate in SCWR & BWR	This peer-reviewed paper summarizes the results of the comparative studies performed in JRC-IET's AMALIA Lab on the crack growth rate of austenitic stainless steels in super-critical water reactor (SCWR) conditions versus boiling water reactor (BWR) conditions.	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														20152	Residual stress measurements of weld mock-ups	In this peer reviewed paper the results of residual stress measurements by JRC on the dissimilar metal weld mock-ups of the FP7 project MULTIMETAL will be presented and a comparison will be made with the corresponding numerical residual stress profiles of the involved project partners.	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														20154	K/J value estimation of multi-metallic specimens 1	In this peer reviewed article the results of the benchmark exercise on numerical K/J value estimation of multi-metallic specimens performed within the FP7 project MULTIMETAL on two of the three mock-ups. Mock-ups 1 (narrow gap weld from EPR) and 3 (weld from VVER-440 reactor) will be summarized. Project partners must give their approval for publication of results.	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														20155	Test system environmental fatigue/creep fatigue	A test system allowing fatigue testing in LWR conditions will be installed in AMALIA. It will be used for studying the impact of various parameters like hold time and mean strain on environmentally assisted fatigue (EAF). The system is foreseen for the NUGENIA TA4 project INCEFA, the planned NUGENIA TA6 project PREMANU and can be connected to the planned lead loop. The system may also be used for own projects on EAF in collaboration with external partners.	15/12/2015	Technical systems	
														20156	Update of design & safety report of Lyra-10	The design & safety report of Lyra-10 (on-going irradiation campaign of reactor pressure vessel steel samples in HFR Petten) will be updated to include the latest experience feedback.	31/01/2015	Validated methods, reference methods and measurements	
														20157	Irradiation report on Lyra-10	This report will provide a summary of Lyra-10, an on-going irradiation campaign of reactor pressure vessel steels in the HFR Petten. The report will provide an overview of the irradiated materials, type of samples, irradiation fluences and any other relevant physical and/or material related property.	15/12/2015	Scientific and policy reports	
														20158	PIE of samples from Metsamor NPP, Armenia	NRG and JRC jointly acquired irradiated samples from Metsamor Nuclear Power Plant in Armenia (2 units of VVER-440 type reactor). The samples were placed into the reactor to produce surveillance data and have been irradiated for 27 years. In this report results of the JRC post-irradiation examination (PIE) of these samples will be summarized.	15/12/2015	Scientific and policy reports	
														20161	JRC results for benchmark exercise in MULTIMETAL	This conference paper describes the results of the numerical analyses performed by JRC for WP5.2 of the FP7 project MULTIMETAL. WP5.2 is a round-robin exercise on numerical approaches developed in WP4 of MULTIMETAL. The conference paper will be presented during a thematically suitable conference, e.g. PVP2016 or NENE2016.	15/12/2016	Scientific paper presented at a conference and published in a book of conference proceedings	
														20162	SCC Qualification of new materials for LTO of LWRs	This report describes qualification tests related to stress-corrosion cracking (SCC) for new metallic materials that could be used in new-build light water reactors and in operating reactor under long-term operation. The tests will be performed in the AMALIA Lab of JRC-IET and could be part of a larger European R&D project, most likely the NUGENIA TA6 project proposal PREMANU.	15/12/2016	Scientific and policy reports	
														20163	Post-irradiation examination of Lyra-10 samples	In this report the results of the post-irradiation examination of the samples of the Lyra-10 irradiation campaign will be summarized.	15/12/2016	Scientific and policy reports	
20164	K/J value estimation of multi-metallic specimens 2	In this peer reviewed article the results of the benchmark exercise on numerical K/J value estimation of multi-metallic specimens performed within the FP7 project MULTIMETAL on Mock-up 2 (dissimilar metal weld from operating PWR of French design) will be summarized. Project partners first need to agree on this exercise and, if the exercise has been performed, must give their approval for publication of results.	15/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index															
452 - SCRAMSMEX Stress corrosion CRACKing through Synergistic Modelling and Experimental approach (SCRAMSMEX)	The project aims to investigate the predictive power and limitations of the available stress corrosion cracking models through experimental validation. The findings will be used to support long term operation of Gen II-III NPPs beyond 40 years by improving the performance of identified target engineering-design models, advancing the state-of-the-art mesoscopic models and improving our understanding of physical mechanisms and in particular the role of grain boundaries.	JRC.F.4 Karl-Fredrik NILSSON	3.3.1.1.b	ENER	n/a	Maurizio BOELLA (HoU ENER.D.2)		EERA - European Energy Research Alliance IAEA - International Atomic Energy Agency (IAEA) 451 - SANuC Safety Assessment of Nuclear Fuel Cladding (SANuC) 452 - SCRAMSMEX Stress corrosion CRACKing through Synergistic Modelling and Experimental approach (SCRAMSMEX) NEA - Nuclear Energy Agency (OECD) NUGENIA - Nuclear Generation II & III Association SNETP - Sustainable Nuclear Energy Technology Platform (SNETP)	01/01/2014 31/10/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		448 - IntAG-LWR Integrity and Ageing of present Light Water Reactors and future Water cooled Reactors (IntAG-LWR) 478 - NUGENIA+ Preparing NUGENIA for HORIZON 2020 (NUGENIA+)	INS-RS	20151	Evaluation of selected SCC models	Report on the evaluation of selected continuum- and engineering-design models using dedicated SCC experiments in a controlled aqueous environment in AMALIA lab.	30/09/2015	JRC Technical reports	
														20152	Advanced meso-scale SCC models	Report on development and implementation of advanced meso-scale SCC models.	31/12/2015	JRC Technical reports	
														20161	Model and experiment SCC	Peer review paper on performance of selected engineering-level SCC models based on comparison with experiments. The paper will contribute by identifying the range of applicability and safety margins of these models, thereby directly supporting the industry.	31/12/2016	JRC Technical reports	
														20162	Application of SCC Model	Application of advanced SCC models to understand the early SCC initiation and propagation. Up to 90% of a component's safe life is spent in early (microscopic) crack initiation and only about 10% in macroscopic crack propagation, where cracks can be detected using NDE techniques. So it is very important to better understand the mechanisms that govern the early crack initiation phases. The paper will contribute to understanding of role of grain boundaries. The NUGENIA strategic multi-annual plan for optimal coordination with MS R&D programmes will provide information on the planned participation of NUGENIA in international events, collaboration agreements and working arrangements.	31/12/2016	JRC Technical reports	
478 - NUGENIA+ Preparing NUGENIA for HORIZON 2020 (NUGENIA+)	The objective of the NUGENIA+ project is to support the NUGENIA Association in its role to coordinate and integrate European research on safety of Gen II and III nuclear reactors in order to better ensure their safe long term operation, integrating private and public efforts, and initiating international collaboration that will create added value in its fields of activity.	JRC.F.4 Oliver MARTIN	3.3.1.1.b	RTD	RTD	SCHMITZ Bruno (HoU RTD.G.4), Takis Manolatos	ENER	IAEA - International Atomic Energy Agency (IAEA) 452 - SCRAMSMEX Stress corrosion CRACKing through Synergistic Modelling and Experimental approach (SCRAMSMEX) 477 - SCWR-FQT Supercritical Water Reactor - Fuel Qualification Test 482 - NURAM Severe Accident Modelling in support to Emergency Plan Preparedness for European NPPs	01/10/2013 30/09/2016	7-Scientific, technical & policy consultancy (100%)	JRC.E.4 JRC.F.5		448 - IntAG-LWR Integrity and Ageing of present Light Water Reactors and future Water cooled Reactors (IntAG-LWR) 452 - SCRAMSMEX Stress corrosion CRACKing through Synergistic Modelling and Experimental approach (SCRAMSMEX) 477 - SCWR-FQT Supercritical Water Reactor - Fuel Qualification Test 482 - NURAM Severe Accident Modelling in support to Emergency Plan Preparedness for European NPPs	COM-IA	2	NUGENIA multi-annual plan	The NUGENIA strategic multi-annual plan for optimal coordination with MS R&D programmes will provide information on the planned participation of NUGENIA in international events, collaboration agreements and working arrangements.	31/08/2016	Public information documents
															3	Proceedings of the NUGENIA Stakeholders Conference	Participants of the NUGENIA Stakeholders Conference will be beside its members organisations who have professional links to NUGENIA, e.g. EC/TREN, EC/RTD, IAEA, OECD-NEA, SNETP, Foratom, etc.	15/12/2015	Monographs with JRC editorship
															4	Report on NUGENIA School	The report will summarize the experience and feedback from the first NUGENIA courses resulting from NUGENIA projects and from NUGENIA internal questionnaire on training needs.	15/12/2015	Monographs with JRC editorship
															5	Formation of a UO ₂ - graphite reaction layer	Technical Report on the formation of a UO ₂ - graphite reaction layer. This deliverable is part of the project "Spark Plasma sintering Research in Nuclear Technology" investigating the possible formation of a thin reaction layer UO ₂ - graphite surface. The aim of this task is to assess the possibility of a short post-thermal treatment of SPS manufactured UO ₂ pellets to remove the reaction layer and to adjust the O/M ratio to the specification at the same time.	18/12/2015	JRC Technical reports
															6	Options for removal the reaction layer	Technical Report on the options for removal the reaction layer in a post heat treatment. This deliverable is part of the project "Spark Plasma sintering Research in Nuclear Technology" investigating the possible formation of a thin reaction layer UO ₂ - graphite surface. The aim of this task is to assess the possibility of a short post-thermal treatment of SPS manufactured UO ₂ pellets to remove the reaction layer and to adjust the O/M ratio to the specification at the same time.	16/12/2015	JRC Technical reports
															7	Contribution to CESAM Deliverable D40.45	JRC-IET is leading the CESAM WP40 and at the same time contributing to this WP40 by developing ASTEC V2.0 rev 3 input decks for different types of European Nuclear Power Plants. The D40.45 corresponds to the final set of Reference NPP ASTEC input decks	31/03/2017	Scientific and policy reports
															2284 - MAESTRO Experimental assessment of the seismic safety margin of Nuclear Power Plant Installations	The project is commissioned by EDF and aims towards the assessment of the seismic safety margin of a nuclear power plant installation in France as part of safety checks carried out every ten years. Within this framework the JRC will be using its unique installation of the reaction wall laboratory to carry out experimental reference tests on a number of full-scale reinforced concrete elements (columns, beams, slabs) subjected to various loading and boundary conditions as determined by EDF.	JRC.G.4 Fabio TAUCER	3.3.1.1.b	ENER
2	MAESTRO final report	Experiments, treatment of results, data release to EDF	15/12/2016	JRC Technical reports															
3.3.1.1.c Development and application of tools and methodologies for safety assessments of innovative reactor designs in synergy with the Generation IV International Forum GIF.																			
50 - ARCHER ARCHER: Advanced High-Temperature Reactors for Cogeneration of Heat and Electricity R&D	Large-scale integrated project (FP7) for performing R&D on High Temperature Reactors, with JRC contribution mainly to the safety, fuel and materials aspects.	JRC.F.4 Karl-Fredrik NILSSON	3.3.1.1.c	RTD	RTD	Panagiotis MANOLATOS (RTD)	ENER	- Rheinisch-Westfälische Technische Hochschule Aachen / Aachen University of Technology - University of Manchester - EMPRESARIOS AGRUPADOS INTERNACIONAL SA - AGH University of Science and Technology - Nuclear Research Institute Rez - UCAR SNC - DRESDEN UNIVERSITY OF TECHNOLOGY	01/02/2011 31/01/2015	7-Scientific, technical & policy consultancy (100%)	JRC.E.2	449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMA) 476 - NC2I-R NC2I-R: Nuclear Cogeneration Industrial Initiative - Coordination and Support Action 696 - PIE + Upgrade HTR-PIE	COM-IA	0	Final report	Final reports summarizing the results at project and sub-project levels.	30/04/2015	JRC Scientific support	
														5	D32.11: HFR-EU1 irradiation report	Detailed irradiation report from the HFR-EU1 test including non-destructive PIE. HFR-EU1 and HFR-EU1bis are completed HTR fuel irradiation tests in the HFR. Each test consists in irradiating 5 fuel spheres ("pebbles") at about 1000°C for 1-2 years. At the same time, the fission gas release from these pebbles is measured with the Sweep Loop Facility (see HFR-INET project). If release remains very low, this was the first step for fuel qualification.	30/01/2015	JRC Technical reports	
														6	D32.12: HFR-EU1 destructive PIE	Destructive PIE report on HFR-EU1 irradiated fuel elements.	28/02/2015	JRC Technical reports	
														12	MSS11: Contribution to documentary film	Documentary broadcast on TV, internet, ORF video-on-demand library	31/01/2015	Public information documents	
														14	D521: Final Review of the HTR Textbook	Text contributions and review of new textbook on HTR technology	30/01/2015	Books	

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
129 - JASMIN Joint Advanced Severe accidents Modelling and Integration for Na-cooled fast neutron reactors	The project covers the JRC support to the EURATOM FP7 JASMIN project. JRC-IET is leading the Work Package 2.4 on Neutronics and is supporting the validation of the severe accident code for innovative reactors ASTEC-NA against the CABRI experiments.	JRC.F.5 Luca AMMIRABILE	3.3.1.1.c	RTD	RTD	Roger Garbil RTD G.4	ENER	- UNIVERSITÄT STUTTGART AREVA NP - AREVA NP Main Company CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CIEMAT - Centro de Investigaciones Energéticas Medioambientales	01/12/2011 30/11/2015	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)		451 - SANuC Safety Assessment of Nuclear Fuel Cladding (SANuC) 578 - SAFARI Safety Assessment for Innovative Gen III+ and Gen IV reactors	COM-IA	20	Scientific report on contribution to JASMIN D2.10	As part of JRC-IET validation work of ASTEC-NA code performed against the CABRI experiments, the report includes the contribution to JASMIN deliverable D2.10 on Overall synthesis of ASTEC-NA validation and benchmarking.	30/11/2015	Scientific and policy reports
														21	Scientific report on contribution to JASMIN D3.7-8-9	At the end of the project, needs will be identified for ASTEC-NA extension to the other parts of the Sodium Fast Reactor (SFR) severe accident (transition phase, expansion phase, fire...), to new SFR fuel designs like carbides, and also to Lead Fast Reactor (LFR) severe accidents in contact with the LFR community. The report presents the JRC-IET contribution to JASMIN project on these topics in deliverables D3.7, D3.8 and D3.9	30/11/2015	Scientific and policy reports
367 - ND-MONNET Enhancing the service to EU and international partners by a new accelerator-based neutron source	This project will modernise the neutron fields facility at JRC-IRMM to improve services to MS in safety related measurements (C/96/29 and C/2009/71). The Van de Graaff accelerator will be replaced by a modern tandem accelerator MONNET. Peripheral equipment (beam transport and beam handling systems, computer control, interlock systems) will be adapted by staff to present-day standards with the operating budget of the accelerators. The current Van de Graaff accelerator will be decommissioned.	JRC.D.4 Arjan PLOMPEN	3.3.1.1.c	ENER	n/a	DG ENER D2 M. Boella (HoU) Nuclear Energy technology, Nuclear waste and Decommissioning		MS EU - Member states EU NEA - Nuclear Energy Agency (OECD)	01/01/2014 01/12/2016	3-Instrumentation & hardware (80%) 6-Reference materials and measurements (20%)	JRC.D.1		INS-RS	2	Implementation of peripheral equipment upgrades	Report on the upgrade of peripheral equipment, controls and monitoring for the beam transport and handling systems, the interlock system and the dosimetry system.	30/11/2015	JRC Technical reports
														3	Final report of the new accelerator installation	Final report on the new tandem accelerator installation, commissioning and performance optimization including a summary of the decommissioning of the van de Graaff accelerator and the modifications to the infrastructure of the building.	15/12/2016	JRC Technical reports
476 - NC2I-R NC2I-R: Nuclear Cogeneration Industrial Initiative - Coordination and Support Action	The strategic objective of NC2I-R is to support the development of the Nuclear Cogeneration Industrial Initiative as one of the pillars of SNETP towards demonstration. The JRC is mainly involved in experience feedback to define R&D strategies for further development.	JRC.F.4 Karl-Fredrik NILSSON	3.3.1.1.c	RTD	RTD	Panagiotis MANOLATOS RTD	ENER	- EMPRESARIOS AGRUPADOS INTERNACIONAL SA - SAPEM ENERGY INTERNATIONAL SPA - Nuclear Research Institute Rez - UNIVERSITÄT STUTTGART - University of Manchester - UNIVERSITY OF CAMBRIDGE - AREVA NP GMBH - AGH University of Science and Technology	01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)		50 - ARCHER ARCHER: Advanced High-Temperature Reactors for Cogeneration of Heat and Electricity R&D 449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMa)	COM-IA	6	D231: Gap analysis	Gap analysis of R&D infrastructures required to demonstrate and establish nuclear cogeneration.	30/11/2015	JRC Technical reports
														7	D431: Deployment scenarios	Contribution to analysis of different market entry and deployment scenarios up to 2050.	31/08/2015	JRC Scientific support
														8	D441: Specifications for demonstrator	Contribution to the choice of specifications for a demonstrator. Provide SET Plan and SETIS with technology readiness information on nuclear cogeneration.	30/06/2015	JRC Scientific support
														9	D521: Organization of seminars	Proceedings of seminar(s) on technology, economics, safety/licensing, EU capacity, non-technological aspects for public acceptance, international cooperation	31/10/2015	JRC Technical reports
														10	D541: International strategy (USA)	Contribution to strategic orientation and cooperation with the US NGNP Alliance.	30/06/2015	JRC Technical reports
507 - ND-CHANDA Challenges in nuclear data for innovative solutions to safety of nuclear energy	Competitive project CHANDA is a sustainable pan-European integrated research initiative combining the nuclear data infrastructures and capabilities, available in the EU to contribute to increasing the safety of nuclear systems at EU and international level (C/96/29;2009/71;2011/70). This project combines the SN3S contributions to CHANDA: besides an extensive research programme SN3S is leading 3 out of 13 Work Packages and provides one of 4 Domain Coordinators.	JRC.D.4 Arjan PLOMPEN	3.3.1.1.c	RTD	RTD	DG RTD G4 Roger Garbil		- University of Oslo - University of Jyväskylä - UNIVERSITAT POLITÈCNICA DE CATALUNYA - University of Bucharest - Universidad Politécnica de Madrid - University of Manchester - National Technical University of Athens - NPL Management Ltd - JOHANN WOLFGANG GOETHE-UNIVERSITÄT FRANKFURT AM MAIN - ANSALDO NUCLEARE S.P.A.	01/01/2014 30/11/2016	3-Instrumentation & hardware (75%) 9-Education & training (25%)		613 - NS-Targets Characterised targets for nuclear physics studies on reactor safety, waste transmutation, safeguards	COM-IA	4	Report on 2015 SV & TAA proposals	CHANDA proposals for transnational access and scientific visitors will be summarised including the evaluation and resource allocation of the Programme Advisory Committee, and the status of execution of approved proposals (CHANDA WP5 and WP6).	30/11/2015	JRC Technical reports
														5	Contribution to the target preparation workshop	Contribution to the target preparation workshop highlighting the IRMM capabilities and assigned projects in CHANDA.	31/10/2015	Scientific and policy reports
														6	Second status report Domain C	The second status report summarizes the achievements of Domain C (WPs8-12) including the deliverable for the WP10 on MYRRHA. The report contributes to the 1st CHANDA periodic reporting (WP13).	30/11/2015	JRC Technical reports
														7	Report on 2016 SV & TAA proposals	CHANDA proposals for transnational access and scientific visitors will be summarised including the evaluation and resource allocation of the Programme Advisory Committee, and the status of execution of approved proposals (CHANDA WP5 and WP6).	30/11/2016	JRC Technical reports
														8	Third status report Domain C	Status report concerning the activities of CHANDA Domain C by the SN3S coordinator. Domain C concerns work packages 8-12 of CHANDA. The report will be part of the second periodic report of CHANDA.	30/11/2016	Scientific and policy reports
														21	CAMP in-kind contribution (2015)	The JRC-IET shall submit to the USNRC one code assessment report per year or other work products of equivalent value. The assessment report (mutually agreed) shall contain assessment information on the NRC codes that are released through this Implementing Arrangement. The USNRC will have the nonexclusive right to publish these assessment reports containing nonproprietary information as NUREG/IA reports with proper reference to the originating side.	31/12/2015	Scientific and policy reports
														22	PRP on Objective Provisions Tree	The Objective Provision Tree (OPT) is identified as useful tool to document the provision of essential "lines of protection" with the aim to have a successful prevention, control or mitigation of phenomena that could potentially damage the nuclear system. The OPT allows assessing the defence-in-depth capabilities, including both the plant design features and the operational measures. The peer-reviewed article gives an overview of the OPT in the framework of innovative reactor safety assessment.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														23	Contribution to Generation IV International Forum	The scientific report summarizes the annual JRC-IET work as EURATOM contribution to the GIF Sodium-cooled Fast Reactor Safety & Operation project, the GIF Sodium-cooled Fast Reactor System Integration & Assessment (SFR SIA) project and to the GIF Risk & Safety Working Group (RSWG) activities	31/12/2015	Scientific and policy reports
578 - SAFARI Safety Assessment for Innovative Gen III+ and Gen IV reactors	The project provides independent safety assessment of innovative reactors and is composed of 2 parts: 1) Using coupled multi-physics codes (US NRC CAMP) to model innovative NPP behaviour during accident sequences. 2) Support to GIF related activities (Sodium Fast Reactor System Integration & Assessment and Safety & Operation and Risk & Safety WG) (where JRC is official Euratom implementing agent), IAEA on fast and innovative reactor design and within ESNII and NUGENIA TA6 (on Innovative LWR)	JRC.F.5 Luca AMMIRABILE	3.3.1.1.c	ENER	n/a	Georges Van Goethem (RTD.G.4)	RTD	ESNII - European Sustainable Nuclear Industrial Initiative GIF - Generation-IV International Forum GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IAEA - International Atomic Energy Agency (IAEA) IRSN - Institut de Radioprotection et Sécurité Nucléaire KIT - Karlsruhe Institute of Technology NEA - Nuclear Energy Agency (OECD) NUGENIA - Nuclear Generation II & III Association US DoE - US Department of Energy (DOE) USNRC - United States Nuclear Regulatory Commission	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)	JRC.A.4	129 - JASMIN Joint Advanced Severe accidents Modelling and Integration for Na-cooled fast neutron reactors 482 - NURAM Severe Accident Modelling in support to Emergency Plan Preparedness for European NPPs 493 - NUSP Support to DG ENER Nuclear Reactor Safety Policy and International Standards (OECD/NEA, IAEA) 850 - ESNII+ ESNII+ European Sustainable Nuclear Industrial Initiative	INS-RS	24	Contribution to IAEA activities on Fast Reactors	The scientific report summarizes the annual EURATOM contribution to the IAEA activities on Fast Reactors. In particular the report provides an overview of current Fast Reactor development and related activities discussed within the IAEA Technical Working Group (TWG) and related projects on SFR safety.	31/12/2015	Scientific and policy reports
														25	Safety & design issues of ESNII reactors	The scientific report provides a critical review of the status of development of some of the ESNII reactor concepts with particular focus on the safety and design issues.	31/12/2015	Scientific and policy reports
														26	PRP on ASTEC-NA validation against CABRI B1 test	This paper presents the Analysis Of Cabri-B1 Loss-Of-Flow Experiment Using Astec-NA	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														27	PRP on guidelines on the SAR for ESNII reactors	On the basis of outcomes of the SARGEN_IV project Task 5.2 activities, a peer-reviewed paper will be published on guidelines for the content of the Safety Analysis Report for the four fast neutron spectrum reactor concepts considered in the SNETP Deployment Strategy (SFR, LFR, GFR, and MYRRHA/FASTEF).	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														28	PRP on 3D multi-physics safety analysis for SFR	This paper presents the different steps followed towards the development of a multi-physics platform with capabilities to simulate complex phenomena using a coupled 3D neutronic-thermal-hydraulic scheme.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														31	CAMP in-kind contribution (2016)	The JRC-IET shall submit to the USNRC one code assessment report per year or other work products of equivalent value. The assessment report (mutually agreed) shall contain assessment information on the NRC codes that are released through this Implementing Arrangement. The USNRC will have the nonexclusive right to publish these assessment reports containing nonproprietary information as NUREG/IA reports with proper reference to the originating side.	31/12/2016	Scientific and policy reports
														32	Contribution to IAEA activities on Fast Reactors	The scientific report summarizes the annual EURATOM contribution to the IAEA activities on Fast Reactors. In particular the report provides an overview of current Fast Reactor development and related activities discussed within the IAEA Technical Working Group (TWG) and related projects on SFR safety.	31/12/2016	Scientific and policy reports
														33	Contribution to Generation IV International Forum	The scientific report summarizes the annual JRC-IET work as EURATOM contribution to the GIF Sodium-cooled Fast Reactor Safety & Operation project, the GIF Sodium-cooled Fast Reactor System Integration & Assessment (SFR SIA) project and to the GIF Risk & Safety Working Group (RSWG) activities	31/12/2016	Scientific and policy reports
														34	PRP on neutronics benchmark with ASTEC-NA	This paper presents the neutronics benchmark performed with the JASMIN project on the assessment of the severe accident code ASTEC-NA against SAS-SFR and TRACE over a postulated ULOF transient.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														35	PRP on safety assessment practices for ESNII	On the basis of outcomes of the SARGEN_IV project Task 5.2 activities, a peer-reviewed paper will be published on open issues relevant for research in the safety field associated with the four fast neutron spectrum reactor concepts considered in the SNETP Deployment Strategy (SFR, LFR, GFR, and MYRRHA/FASTEF).	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														36	JRC-IET activity in IAEA CRP Source Term for SFR	The scientific report outlines the first year of activity performed by JRC-IET in the framework of the IAEA Coordinated Research Project on Source Term for Sodium Fast Reactors.	31/12/2016	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
3.3.1.2 Nuclear decommissioning																			
3.3.1.2.a Development of decommissioning knowledge management in the EU, by stimulating exchanges and dissemination of information on innovations, lessons learnt and best practices in the field:																			
597 - CAST CAST - Carbon 14 Source Term	This multi-national project will investigate the C-14 source term likely from structural materials (cladding steels or Zry, structural materials, resins, graphite) in low and intermediate waste disposal sites. ITU contribution is to take irradiated cladding samples and measure the C-14 content in order to assess upper boundary values for releases and further investigate C-14 forms (gaseous/organic) and the partitioning.	JRC.E.2 Paul BOTTOMLEY	3.3.1.2.a	RTD	RTD	Manuela Lampitelli RTD, K.4	ENER	AREVA NP GMBH* AMEC - AMEC Consulting CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CIEMAT - Centro de Investigaciones Energéticas Medioambientales y Tecnológicas EDF - Electricité de France ENRESA - Empresa Nacional de	01/10/2013 30/09/2017	4-Methods and testing (50%) 9-Education & training (50%)	JRC.E.5	722 - SAR-Phebus-fp Fuel safety - volatile fission product releases from Phebus fp samples 763 - CCM1 Characterization of off-vessel corium melt - Phase 1	COM-IA	25	Progress report	WP2 & 3 Annual progress report-year 2 on irradiated cladding sample analysis	30/10/2015	Scientific and policy reports	
															210	Technical Report	Report on C-14 release testing at ITU from steel and/or zircaloy cladding under (slightly) acidic and/or alkaline conditions	31/12/2016	Scientific and policy reports
															211	Proceedings Dissemination Workshop	Work Package 7 Dissemination Seminar on Geological disposal	31/10/2016	Scientific and policy reports
3.3.1.2.b Development and assessment of innovative technologies and techniques for radiological characterisation, decontamination, radiation surveillance, mapping, reconstruction technologies and free release measurements.																			
434 - CONDWASTE Spent nuclear fuel waste conditioning	Development of accredited methods and processes for treatment of irradiated fuels and the characterisation of the final waste form. Reducing the ITU internal actinide inventory by conditioning of stored irradiated nuclear fuels and targets.	JRC.E.5 Birgit CHRISTIANSEN	3.3.1.2.b	ENER	n/a	M. Boella	ENER		01/01/2014 31/12/2016	4-Methods and testing (100%)	JRC.E.4		INS-RS	4	Measurement of 90Sr and 137Cs in HAW sol	Development of accurate methods for the analysis of 137Cs and 90Sr in high active waste solutions, both are nuclides with concentration constraints in the waste packages.	31/12/2015	Article contribution to other peer-reviewed periodicals	
														5	Conditioning of a 1st batch of fuel waste	Demonstration of the process developed from fuel selection to the final waste form.	30/12/2016	JRC Technical reports	
517 - ND-Fukushima Neutron Resonance Densitometry for the characterisation of molten Fukushima-Daiichi fuel	The Japanese Atomic Energy Agency (JAEA) selected Neutron Resonance Densitometry (NRD), developed at JRC-IRMM, as one of the most suitable methods to characterise molten fuel during decommissioning of the Fukushima Daiichi nuclear power plants (C2010/212). The feasibility and performance of the method will be assessed, analysis codes will be developed, demonstration experiments will be performed and the design of a dedicated facility will be made.	JRC.D.4 Arjan PLOMPEN	3.3.1.2.b	ENER	n/a	Boella (HoU) Nuclear Energy technology, Nuclear waste and Decommissioning and DG ENER ES S. Ciccarello (HoU) Nuclear accountability, Methods & Evaluation	IAEA - International Atomic Energy Agency (IAEA) IAEA - International Atomic Energy Agency (IAEA) JAEA - Japan Atomic Energy Agency JAEA - Japan Atomic Energy Agency		01/01/2014 31/12/2016	4-Methods and testing (100%)		613 - NS-Targets Characterised targets for nuclear physics studies on reactor safety, waste transmutation, safeguards	INS-RS	2	Demonstration of NRD in quantifying SNM	A report will be delivered that summarizes the results of NRD demonstration measurements at GELINA for the quantification of special nuclear materials (SNM). The report will include a description of the resonance analysis code that will be adapted for a successful application of NRD.	15/10/2015	Scientific and policy reports	
														3	Design of a NRD facility for SNM	A report will be delivered that describes the full technical details of an NRD facility for special nuclear materials (SNM) to be constructed at the site of the Fukushima Daiichi nuclear power plants. The potential of NRD for various applications will be discussed.	11/11/2016	Scientific and policy reports	
598 - LIDO Ligands for Decommissioning	New ligands for decommissioning nuclear installations with even better efficiency than those used today will be synthesised, with the goal to limit further waste volumes, while improving ligand stability and robustness in radiation fields. Due attention will be given to hydrogen risk in the event of storage without incineration.	JRC.E.4 OLAF WALTER	3.3.1.2.b	ENER	n/a	M. Boella	- NUKEM GMBH* - University of Manchester AMEC - AMEC Consulting AREVA NP - AREVA NP Main Company GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IAEA - International Atomic Energy Agency (IAEA) IRSN - Institut de Radioprotection et Sûreté Nucléaire KIT - Karlsruhe Institute of Technology NEA - Nuclear Energy Agency (OECD) NUGENIA - Nuclear Generation II & III Association SCK-CEN - Belgian Nuclear		01/01/2014 31/12/2016	4-Methods and testing (100%)			INS-UR	59820153	Synthesis and characterization of actinide complex	Synthesis and characterization of actinide complexes, new molecules for ligands with potential decommissioning applications	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														59820161	Ligands for decommissioning: Radiation stability	An evaluation as a contribution for an application of the ligands in decommissioning on the base of their radiation resistance will be performed and the results will be reported.	31/12/2016	JRC Technical reports	
														59820162	Ligands for decommissioning	In this period ligand synthesis is to be optimised and investigations on chemical stability of the complexes as well as on the determination of complex stability constants will be performed. The data is reported.	30/12/2016	JRC Technical reports	
														59820163	New ligands for decommissioning	The results of this JRC project will be published in a widely read technical journal. The results will concentrate on the synthesis routes and a full characterisation of the products obtained. Potential applications will be identified and assessed.	29/09/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
2280 - Metrodecom Metrology for Decommissioning Nuclear Facilities	Metrodecom is a research project by a consortium of 15 European partners with 45% funding from EURAMET. The main objectives include characterization of materials under decommissioning, measurements for waste segregation and free release, and monitoring of waste repositories. The ITU involvement concerns mainly the measurements of free release (simulated and real) waste streams in collaboration with Unit C1. IRMM is involved regarding development of reference standards.	JRC.E.8 Bent PEDERSEN	3.3.1.2.b	RTD	RTD	ENER E.1 P. Meylemans	ENER	EURAMET - European Organisation of Metrology (EURAMET)	01/09/2014 31/08/2017	3-Instrumentation & hardware (50%) 9-Education & training (50%)	JRC.D.4		COM-IA	1	Free Release measurement station	Setup and testing of the "free release measurement station" on the ESSOR decommissioning site. Also included are the neutron measurement system developed by ITU. Functional tests are completed, neutron and gamma background study completed, and first simulated waste items measured. Final report of measurements scheduled at end of project (36 months).	31/12/2015	JRC Technical reports	
														2	Waste segregation facilities	One specific objective of Metrodecom is the design and construction of a waste segregation station. This work is initiated by a survey of existing systems already in operation. Final reporting on waste segregation systems are scheduled towards the end of project (36 months).	31/12/2015	JRC Technical reports	
														3	Good practice guide for free release measurements	At completion of the free release measurements on the JRC Ispra site, ITU will take the lead in formulating a Good Practice Guide. Also the measurement procedure (both neutron and gamma) applied in the JRC Ispra campaign will be described. Final report and publications regarding the free release measurements are scheduled at the end of project (36 months).	31/12/2016	JRC Technical reports	
														4	Workshop and training course	After completing the measurement campaign at the JRC Ispra, a workshop and training course will be hosted by ITU. This course is targeted at decommissioning operators and will focus on the novel instrumentation, protocols and measurement procedures developed during the project. Representatives of measurement systems manufacturers will be invited to the workshop. The workshop will address not only free release measurements but all techniques concerned from the Metrodecom project	31/12/2016	Training	
														5	Reference Material & Standard Source	Reference Materials and Standard Sources for free release and segregation measurements. Radionuclide source for scanning of wastes. Standard solutions prepared and calibrated.	31/01/2016	Reference materials	
2748 - IntelligentShield An intelligent background radiation shield for low neutron count rate applications	Experimental Investigations of an intelligent neutron shield intended to reduce the background neutron count rate, caused by cosmic radiation, in a low-level nuclear waste detection system. When the intelligent shield detects neutrons from an external source, or muons produced in the atmosphere, a veto signal will temporarily interrupt the primary neutron detection system thus reducing the neutron background count and consequently improve the detection limit of nuclear materials.	JRC.E.8 Bent PEDERSEN	3.3.1.2.b	ENER	n/a	ENER P.1 P. Meylemans	IAEA - International Atomic Energy Agency (IAEA)		01/01/2015 31/12/2016	3-Instrumentation & hardware (100%)			INS-ER	10	Light output calibration of scintillation detector	The Van der Graaf facility at IRMM will be used to characterize the light output of the plastic scintillation detectors for specific neutron energies. The knowledge of signal pulse height as function of deposited energy is important for the identification of the particles interacting with the detectors. (JRC technical report)	31/12/2015	JRC Technical reports	
														20	Coincidence measurements with multiple scintillators	All scintillation detector output signals will be digitized individually. Logical signals from each detector will be routed to a coincidence circuitry to result in a veto signal if a positive identification of an muon or neutron event occurs. The work includes testing with neutron sources and atmospheric muon detections	31/12/2015	Technical systems	
														30	Fast neutron experiments on scintillation plates	One advantage of the scintillation detectors is the very fast response to radiation interactions. The temporal behavior of detections events in multiple detectors will be studied when exposed to mono energetic fast neutrons	30/06/2016	JRC Technical reports	
														40	Effectiveness of an active shield for neutron count	The results and conclusions from the experimental investigations with the Intelligent Shield will be described in a peer-reviewed article.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
3.3.1.3 Nuclear emergency preparedness and response (EP&R), environmental monitoring and radiation protection																			
3.3.1.3.a Research into severe accident modelling, radiological source term evaluation and accident management of NPPs, in coordination with EU Member States activities:																			
206 - CESAM Code for European Severe Accident Management	The project corresponds to JRC-IET contribution to Euratom FP7 CESAM project in collaboration with EU partners. JRC-IET is leading the Work Package 40: Plant Application and Severe Accident Management, consisting in development/validation of ASTEC V2 (Accident Source Term Evaluation Code) reference input decks for the main generic types of NPPs in Europe (PWR, BWR, CANDU). JRC-IET collaborates also to WP20:Modelling validation with work on Spent Fuel Pool and WP50: Dissemination of knowledge	JRC.F.5 GHISLAIN PASCAL	3.3.1.3.a	RTD	RTD	Mykola Dzubinsky (Tel: +32) 2 2994225/(e-mail: mykola.dzubinsky@ec.europa.eu)	ENER	UNIVERSITÄT STUTTGART - RUHRUNIVERSITÄT BOCHUM - VUJE AREVA NP - AREVA NP Main Company BARC - Bhabha Atomic Research Centre - Department of Atomic Energy (India) CIEMAT - Centro de Investigaciones Energéticas Medioambientales y Tecnológicas ENEA - Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH INRNE - INSTITUTE FOR NUCLEAR RESEARCH AND NUCLEAR ENERGY - BULGARIAN ACADEMY OF SCIENCES IRSN - Institut de Radioprotection et Sûreté Nucléaire JSI - Jozef Stefan Institute KIT - Karlsruhe Institute of Technology	01/04/2013 31/03/2017	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)	JRC.F.4	447 - NETKnow Nuclear Education, Training and Knowledge Management (NETKnow) 482 - NURAM Severe Accident Modelling in support to Emergency Plan Preparedness for European NPPs	COM-IA	2	JRC-IET contribution to CESAM Deliverable D40.42	JRC-IET is leading the CESAM WP40 and at the same time contributing to this WP40 by developing ASTEC V2.0 rev 3 input decks for different types of European Nuclear Power Plants. The D40.42 corresponds to the 1st set of Reference ASTEC V2.0 rev 3 input decks.	30/06/2015	Scientific and policy reports	
														3	Scientific Report calculations ASTEC V2.1 on SFP	As part of JRC-IET contribution to WP40 (Deliverable D40.44): Scientific Report presentations modelling and calculations done with ASTEC V2.1 and MAAP4/5 for a Spent Fuel Pool (SFP). Before performing the calculations, this requires the development of SFP "input decks" and the associated documentation for ASTEC V2.1 and MAAP4/5. For ASTEC V2.1 it will be done in collaboration with CESAM partners but for MAAP4/5 it will be done only by JRC-IET.	30/09/2015	Scientific and policy reports	
														4	CFD Calculations on SFP versus ASTEC V2.1	As part of JRC-IET contribution to WP20 (Deliverable D20.25): Scientific Report presentations modelling and calculations done with CFD codes (ANSYS CFX, Open Foam) and comparing it with ASTEC V2.1 calculations for a Spent Fuel Pool (SFP). Before performing the calculations, this requires the development of SFP "input decks" for ANSYS CFX and/or Open Foam.	30/09/2015	Scientific and policy reports	
														5	e-learning module for ASTEC V2.1	As part of WP50, development of an e-learning module covering the 1 week training course for the new version of the ASTEC software: ASTEC V2.1	30/11/2015	Training	
														6	Scientific Report calculations ASTEC V2.1 for BWR	As part of JRC-IET contribution to WP40 (Deliverable D40.44): Scientific Report presenting modelling and Severe Accident calculations done with ASTEC V2.1 and MAAP4/5 for a generic type of BWR. Before performing the calculations, this requires the development of full BWR "input decks" and the associated documentation for ASTEC V2.1 and MAAP4/5. For ASTEC V2.1 it will be done in collaboration with CESAM partners but for MAAP4/5 it will be done only by JRC-IET.	30/06/2016	Scientific and policy reports	
														7	JRC-IET contribution to CESAM Deliverable D40.45	JRC-IET is leading the CESAM WP40 and at the same time contributing to this WP40 by developing ASTEC V2.0 rev 3 input decks for different types of European Nuclear Power Plants. The D40.45 corresponds to the final set of Reference NPP ASTEC input decks.	31/03/2017	Scientific and policy reports	

JRC WORK PROGRAMME 2015 - 2016																																
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category														
482 - NURAM Severe Accident Modelling in support to Emergency Plan Preparedness for European NPPs	Direct collaboration with IRSN/GRS on ASTEC V2 software (the European code for Severe Accident analyses and Source Term Evaluation) as part of IRSN-JRC software agreement Work to be done in the frame of the NUGENIA TA2 (Severe Accidents) Direct collaboration with EU partners (IRSN, GRS, CEA, EDF, AREVA, CIEMAT, ENEA, UJV Rez, VUJE, KIT, VTT, LEI, USTUTT) in the field of Nuclear Power Plants Severe Accidents Analyses and Modelling and Emergency Plan Preparedness (Source Term evaluation)	JRC.F.5 GHISLAIN PASCAL	3.3.1.3.a	ENER	n/a	M. Garriba (Tel: +(352) 430133861, e-mail: massimo.garriba@ec.europa.eu)	RTD	- UNIVERSITAET STUTTGART - VUJE - Nuclear Research Institute Rez - RUSSIAN RESEARCH CENTRE "KURCHATOV INSTITUTE" - AREVA NP - AREVA NP Main Company - CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives - CIEMAT - Centro de Investigaciones Energéticas Medioambientales Tecnológicas - EDF - Electricité de France - ENEA - Agenzia Nazionale per le Nuove Tecnologie, L'energia e lo Sviluppo Economico Sostenibile - GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH - INRNE - INSTITUTE FOR NUCLEAR RESEARCH AND NUCLEAR ENERGY - BULGARIAN ACADEMY OF SCIENCES - IRSN - Institut de Radioprotection et Sécurité Nucléaire - KIT - Karlsruhe Institute of Technology - LEI - LIETUVOS ENERGETIKOS INSTITUTAS - Lithuanian Energy Institute - NUBIKI - NUBIKI Nuclear Safety Research Institute Ltd - Hungary - NUGENIA - Nuclear Generation II & III Association - VTT - Technical Research Centre of Finland	01/01/2014 31/12/2016	1-Foresight studies & techniques (50%) 6-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)		172 - TAREG AA.01/11 Support to International Nuclear Safety Policy 206 - CESAM Code for European Severe Accident Management 478 - NUGENIA+ Preparing NUGENIA for HORIZON 2020 (NUGENIA+) 493 - NUSP Support to DG ENER Nuclear Reactor Safety Policy and International Standards (OECD/NEA, IAEA) 494 - CLEARINGHOUSE European Clearinghouse on Operating Experience for Nuclear Power Plants (NPP) 578 - SAFARI Safety Assessment for Innovative Gen III+ and Gen IV reactors 713 - REM-EPR Emergency Preparedness and Response for REM 714 - ECURIE/EURDEP ECURIE/EURDEP	INS-RS	6	Summary Report on IVR benchmark for VVER1000	Scientific report compiling and summarising the Severe Accident calculations performed by the different partners (UJV Rez, IRSN, CEA, EDF, IVS, JRC-IET, etc.) in the frame of the In vessel Retention (IVR) benchmark for VVER 1000 that JRC-IET is leading until end of 2014.	31/03/2015	Scientific and policy reports														
														7	Peer Review Paper on ASTEC V2.0/V2.1 or MAAP4/5	Article contribution to a peer-reviewed periodical presenting the results obtained by JRC-IET while using ASTEC or MAAP computer code for Severe Accidents on different types of EU Nuclear Power Plants	01/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														8	Station Blackout for Boiling Water Reactors	Scientific Report presenting BWR design parameters and response from several types of Boiling Water Reactors (BWRs) to a Severe Accident scenario resulting from a Station Blackout. This report will include publicly available information and SA scenarios modelled by JRC-IET with MAAP4/5	31/03/2015	Scientific and policy reports														
														9	Station Blackout for Pressurised Water Reactors	Scientific Report presenting PWR design parameters and response from several types of Pressurised Water Reactors (PWRs) to a Severe Accident scenario resulting from a Station Blackout. This report will include publicly available information and SA scenarios modelled by JRC-IET with MAAP4/5 and ASTEC V2.0/V2.1	31/03/2015	Scientific and policy reports														
														10	JRC-IET contribution to ASTEC V2.1 validation	Scientific Report presenting JRC-IET "in kind" contribution to ASTEC V2.1 development and validation as part of JRC/IET and IRSN software agreement. This mainly includes specific Severe Accident calculations performed with ASTEC including associated uncertainties and sensitivities analyses as agreed with IRSN in 2014 to complement the validation matrix of the last ASTEC version.	01/09/2015	Scientific and policy reports														
														11	Peer Review Paper on IVR for VVER1000	Article contribution to a peer-reviewed periodical presenting the results obtained in the frame of the In Vessel Retention (IVR) benchmark for VVER 1000 that JRC-IET is leading until end of 2014.	01/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														12	Peer Review Paper on Severe Accident on SFP	Article contribution to a peer-reviewed periodical presenting the results obtained in the frame of the JRC-IET ongoing work on Severe Accident for Spent Fuel Pool (including ASTEC, MAAP and CFD calculations)	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														13	Peer Review Paper on ASTEC V2.1 or MAAP4/5	Article contribution to a peer-reviewed periodical presenting the results obtained by JRC-IET while using ASTEC or MAAP computer code for Severe Accidents on different types of EU Nuclear Power Plants	30/11/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														14	JRC-IET contribution to ASTEC V2.1 validation	Scientific Report presenting JRC-IET "in kind" contribution to ASTEC V2.1 development and validation as part of JRC/IET and IRSN software agreement (content to be agreed with IRSN in 2015). This mainly includes specific benchmark performed with some ASTEC modules against Severe Accident experiments stored in the STRESA Database to complement the validation matrix of the last ASTEC version.	01/09/2016	Scientific and policy reports														
														15	Source Term evaluations with ASTEC V2.1 for BWR	Scientific report presenting Source Term evaluations and sensitivity studies performed by JRC-IET with ASTEC V2.1 on different Severe Accident scenarios for a BWR	30/11/2016	Scientific and policy reports														
														16	Peer Review Paper on BWR Severe Accidents	Article contribution to a peer-reviewed periodical presenting the results obtained by JRC-IET on Severe Accident Analyses and Source Term evaluation for BWRs.	01/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														3.3.1.3.b Operation, development and technical support of tools for exchange of information in case of emergency (ECURIE) and for radiological monitoring (EURDEP) tuning of data streams between routine and emergency situations, including synergies and ensuring compatibility with cross-cutting initiatives in collaboration with key partner countries and relevant international organisations ;																		
														714 - ECURIE/EURDEP ECURIE/EURDEP	Manage, operate and further develop the European Community emergency information systems. This support activity (Council Decision 87/600) conceives, develops and tests the WebECURIE software and develops and maintains the EURDEP system. In addition, to act as a European scientific focal point for data exchange in case of radiological/nuclear emergency, assistance to EU MSs is provided and international meetings organised. Particular support is given to the IAEA to implement the IRMIS project.	JRC.E.8 Marc DE CORT	3.3.1.3.b	ENER	n/a	Costas Constantinou, Kevin Jackson (ENER D.3)	AGRI SANTE	EU MS R/N emergencies - EU MS Authorities competent for R/N emergencies - Env Rad Mon EU - Radioactivity Environmental Monitoring National laboratories and institutes - IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	2-Information systems & services (35%) 5-Monitoring, verification and surveillance (45%) 7-Scientific, technical & policy consultancy (20%)		713 - REM-EPR Emergency Preparedness and Response for REM	INS-RS	201501	Beta release of WebECURIE 3.0	WebECURIE is the official IT tool which EU MSs have to use to notify a nuclear/radiological emergency and subsequently provide information on the status of the emergency. The third beta release contains further functionalities as discussed and agreed with the user community.	30/11/2015	Technical systems
																												201502	Technical support to IRMIS	Technical assistance to the IAEA for the implementation and operation of IRMIS (world-wide EURDEP system). JRC provides, installs and tests updates of EURDEP and provides technical assistance to IAEA MSs during the test phase for exchanging national data with IRMIS. For 2015, an extension to the ASEAN countries is planned.	31/12/2015	Technical systems
																												201503	Interoperability & scalability of REM systems	Development and implementation of the integration of EURDEP with other REM data and information exchange systems, i.e. WebECURIE, REMdb, ... as well as to implement INSPIRE recommended rules.	30/11/2015	Technical systems
																												201504	Scientific publications	Ad hoc publications in peer reviewed journals on nuclear/radiological emergency information exchange systems	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
201601	Operational EC R/N emergency information systems	Maintenance of the WebECURIE software and EURDEP systems for the EC nuclear/radiological information exchange systems	31/12/2016	Scientific information systems and databases																												
201602	Official release of WebECURIE 3.0	WebECURIE is the official IT tool which EU MSs have to use to notify a nuclear/radiological emergency and subsequently provide information on the status of the emergency. This version concerns the tested beta release of WebECURIE 3.0, accepted by the ECURIE user community.	31/10/2016	Technical systems																												
201603	International EURDEP workshop	International scientific workshop to review the ECURIE and EURDEP developments every two years. It brings together the international scientific community to discuss and plan the way ahead and to improve the automatic exchange of environmental monitoring data in view of a nuclear/radiological accident.	30/09/2016	Scientific information systems and databases																												
201604	Technical support to IRMIS	Technical assistance to the IAEA for the implementation and operation of IRMIS (world-wide EURDEP system). JRC provides, installs and tests updates of EURDEP and provides technical assistance to IAEA MSs during the test phase for exchanging national data with IRMIS. The list of countries will be discussed and agreed with the IAEA in 2015	31/12/2016	Technical systems																												
201605	Interoperability & scalability	Publication in a peer reviewed journal of the technical redesign to integrate EURDEP with other REM systems, i.e. WebECURIE, REMdb, ... as well as to implement INSPIRE recommended rules.	30/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index																												
201606	Scientific publications	Ad hoc publications in peer reviewed journals on nuclear/radiological emergency information exchange systems	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index																												

JRC WORK PROGRAMME 2015 - 2016

Creation: 14/01/15 11:23:02

Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2291 - Metro ERM/ENV 57 Metrology for radiological early warning networks in Europe	The MetroERM project aims to deliver metrologically sound measurement of fundamental radiological quantities such as ambient dose equivalent rate, radioactive concentrations in air and ground contamination levels in real time. It will provide the opportunity to comprehensively address the harmonization of the radiological early warning networks in Europe.	JRC.E.8 Marc DE CORT	3.3.1.3.b	RTD	RTD	I. Alehno, ENER.DDG2.D.3	GROW	EU MS R/N emergencies - EU MS Authorities competent for R/N emergencies Env Rad Mon EU - Radioactivity Environmental Monitoring National laboratories and institutes	01/06/2014 31/05/2017	2-Information systems & services (35%) 5-Monitoring, verification and surveillance (45%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (20%)	JRC.D.4	715 - REM-db Euratom art 36 - EANR 714 - EURIE/EURDEP EURIE/EURDEP	COM-IA	201401	Dose rate instruments and methods	Questionnaire on dose rate instruments and methods used by network monitoring stations developed and circulated. Data set including the responses to the questionnaire including their evaluation.	30/03/2015	JRC Technical reports
														201501	Airborne radioactivity monitoring	Questionnaire on airborne radioactivity monitoring instrumentation and methods in use by national networks developed and circulated. Report on responses to the questionnaire including evaluation.	30/05/2015	JRC Technical reports
														201502	Calibration and verification procedures	Questionnaire on calibration and verification procedures for dosimetric systems and air sampling systems sent to the operators of European Early Warning Network systems. Report on the evaluation of the responses to the questionnaire.	31/03/2015	JRC Technical reports
														201503	Data harmonization in EURDEP system.	Using information from the questionnaires in D201401, D201501 and D201502, JRC will describe in a report the rationale and concept for data harmonisation in the EURDEP system, its purposes and possible uses, and the methodical approaches required to achieve the data harmonisation.	29/08/2015	JRC Technical reports
														201504	Airborne radioactivity comparison exercise	Organisation of the laboratory comparison exercise with custom made spiked filters based on the information from Questionnaire on the requirements for reference materials of airborne radioactivity monitoring created and sent to the operators of European early warning network systems. Development of a practical concept and identification of the interested laboratories. All European network operators will be invited to participate.	31/05/2015	Validated methods, reference methods and measurements
														201505	Standards for the airborne radioactivity exercise	Based on the selected radionuclides from the results of the questionnaire mentioned D.201505, calibrated standards will be prepared.	30/09/2015	Reference materials
														201506	Spiked filter sources	A laboratory intercomparison, together with BIS and NPL, will be conducted. The particularity of the laboratory comparison will be that the activity values will be traceable and the sources will be made to the specifications of each participant on filters supplied by them. The laboratories will be asked to provide filters they routinely use, for the source preparation.	31/12/2015	Reference materials
														201601	Mixed radionuclides standard for validation of rad	JRC and NPL will produce a mixed radionuclide standard, containing different radionuclides, to be used for the validation of radiochemical procedures for the assessment of alpha- and beta-particle emitting radionuclides for the purpose of environmental radioactivity monitoring.	31/01/2016	Reference materials
														201602	Results of the airborne radioactivity comparison e	JRC will collate the measurements from the participants of the airborne radioactivity exercise. JRC, BIS, CMI and NPL will develop and apply a methodology for the evaluation of intercomparison exercises, including a definition of criteria. The intercomparison results will be evaluated according to this method. Laboratories with results strongly deviating from the expected values will be contacted to recheck their measurements and calculations.	31/07/2016	Scientific information systems and databases
														201603	Reference material for air monitoring system	Based on the findings from the airborne radioactivity comparison activity, JRC with input from BIS, CMI, ENEA and NPL will develop a recommendation in the form of a procedure or set of instructions for laboratories on how to prepare a suitable reference material for testing an air monitoring system.	30/11/2016	Validated methods, reference methods and measurements
														201701	Harmonisation procedures for EURDEP	Technical concept for the implementation of the harmonisation procedures and algorithms into the EURDEP platform. They will correct dosimetric data for the inherent background of the probes and allow for the subtraction of the cosmic component as well as for site dependent characteristics. Algorithms to harmonise activity concentration measurements will also be developed.	31/01/2017	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
201702	Methods to deal with missing information and data	Methods to deal with missing information, which would be needed in order to apply harmonisation algorithms. On the one hand, the exclusion of uncorrected dose rate or activity concentration data may lead to an undue loss of overall information, whilst their un-harmonised inclusion, on the other hand, may generate artefacts and errors in the synoptic picture.	31/03/2017	JRC Technical reports														
201703	Workshop on the airborne radioactivity comparison	Report of the results of the airborne radioactivity including the uncertainty budgets at a workshop for comparison participants. The results will be analysed, conclusions will be drawn and possibilities for improvement will be assessed. Once all the results and analysis have been agreed with the comparison participants, JRC will write and submit a paper in a peer-reviewed journal.	31/03/2017	Training														
3.3.1.3.c Set up and operation of an EU reference centre for radioactivity measurements in food air, water and soil;																		
584 - RN-RefRad-Food-Feed Evaluation of food and standardisation of feed measurement methods	The reference centre for radioactivity measurements in food and the environment provides pro-active advice for emergency preparedness by evaluating radioactivity measurement methods for food and by standardising a method for feed. This project concerns methods used in the Member States' monitoring laboratories implementing Council Regulations 87/3954/Euratom, 733/2008/EC and 1048/2009/EC, and methods under the Feed Mandate III, M/522, Part 3, item 10, addressing Regulation 882/2004/EC.	JRC.D.4 Mikael HULT	3.3.1.3.c	ENER	n/a	Ivo Alehno, ENER D.3; Frans Verstraete, SANCO E.3; Michel Herzezele, ENER D.3	GROW	Env Rad EU - EU Member State authorities competent for environmental radioactivity Env Rad Mon EU - Radioactivity Environmental Monitoring National laboratories and institutes NRLs - NRLs - national reference laboratories Nat Reg - National Regulatory Bodies OCL - Official Control Laboratories	01/01/2014 31/12/2016	4-Methods and testing (60%) 7-Scientific, technical & policy consultancy (40%)	JRC.D.5	587 - RN-post Fukushima Post-Fukushima measurement support 586 - RN-Standards Harmonisation and standardisation of the radioactivity measurement system 713 - REM-EPR Emergency Preparedness and Response for REM	INS-RS	2	Interim report	Interim report describing the merits of the method developed and specifying the feasibility of validation studies including technical difficulties, when applicable, and the procedure for the determination of the performance characteristics. Method for I-131, Cs-134, Cs-137 in feed in the frame of CEN/TC 327 Animal feeding stuffs - Methods of sampling analysis. (Feed Mandate III, M/522, Part 3, item 10. Radionuclides, within the framework of EP and Council Regulation 882/2004/EC.)	24/07/2015	Scientific and policy reports
														3	Second interim report	Second interim report describing the results of the validation study of the method developed and specifying the performance characteristics of the method. Method for I-131, Cs-134, Cs-137 in feed in the frame of CEN/TC 327 Animal feeding stuffs - Methods of sampling analysis. (Feed Mandate III, M/522, Part 3, item 10. Radionuclides, within the framework of EP and Council Regulation 882/2004/EC.)	30/11/2016	Validated methods, reference methods and measurements

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
3.3.1.3.d Scientific and technical support to assist Member States in implementing the Basic Safety Standards.																			
715 - REM-db Euratom art 36 - EANR	The REM data base and its related reporting system is the implementation of the art. 36 of the Euratom Treaty and is a JRC obligation (art 39). The collection and evaluation of the environmental radioactivity data, the development of procedures and software and subsequent training is done in close collaboration with all EU national data providers. In addition, to prepare MSs with the implementation of the radon action plan under the new BSS, a natural radiation atlas of Europe is being prepared.	JRC.E.8 Marc DE CORT	3.3.1.3.d	ENER	n/a	Vesa Tanner, Alan Ryan	AGRI SANTE	Env Rad EU - EU Member State authorities competent for environmental radioactivity Env Rad Mon EU - Radioactivity Environmental Monitoring National laboratories and institutes	01/01/2014 31/12/2016	2-Information systems & services (30%) 5-Monitoring, verification and surveillance (40%) 9-Education & training (30%)	584 - RN-RefRad-Food-Feed Evaluation of food and standardisation of feed measurement methods 586 - RN-Standards Harmonisation and standardisation of the radioactivity measurement system	INS-RS		201402	Monitoring Report 2012	Report with quarterly average values of radioactivity levels in airborne particulates, surface water, drinking water, milk and mixed diet for the 27 countries of the European Union (sparse and dense network) for the year 2012.	30/12/2015	Scientific and policy reports	
														201501	Monitoring Report 2013	Report with quarterly average values of radioactivity levels in airborne particulates, surface water, drinking water, milk and mixed diet for the 28 countries of the European Union (sparse and dense network) for the year 2013.	29/12/2015	Scientific and policy reports	
														201502	Monitoring Report 2014	Report with quarterly average values of radioactivity levels in airborne particulates, surface water, drinking water, milk and mixed diet for the 28 countries of the European Union (sparse and dense network) for the year 2014.	30/12/2016	Scientific and policy reports	
														201503	Euratom article 35-36 working group meeting	Manage and organise the Euratom article 35-36 working group meeting(s) (maximum 2 meetings for 2015 depending on the needs of DG ENER D.3 and the EU Member States). The aim of these meetings is to improve the data processing and reporting procedures directly with a representation of the external stakeholders (6 Member States and DG ENER).	30/11/2015	Validated methods, reference methods and measurements	
														201504	REM Data Submission Tool training course	The REM Data Submission Tool allows MS Competent Authorities to import their monitoring data in the REM database. Regular training courses to teach how to use the tool correctly are organised. Up to 2 training sessions of 2 days each on the REM Data Submission tool procedures (upon request by EU Member States and with a minimum of 4 participants per session) are foreseen for 2015.	30/09/2015	Training	
														201505	Indoor radon and geogenic radon workshop	Organisation of an international workshop on the indoor radon measurements and geogenic radon model calculations in Europe. This workshop will provide a scientific discussion platform to the international radon community and will serve the JRC as guidance to prepare the European Atlas of Natural Radiation.	31/03/2015	Validated methods, reference methods and measurements	
														201506	Scientific publications	Ad hoc publications in peer reviewed journals on environmental (natural and artificial) radioactivity monitoring.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														201601	Operational REM data base	The Radioactivity Environmental Monitoring (REM) database collects the (obligatory) input from EU28 national authorities competent for environmental radioactivity. The database is operated and maintained on a daily basis and related software for producing the monitoring reports (deliverable 2) or on-line query is continuously developed to fulfil MSs requests. This is an ongoing activity; this deliverable should also exist for 2014 and for 2015.	31/12/2016	Scientific information systems and databases	
														201602	Monitoring Report 2015	Report with quarterly average values of radioactivity levels in airborne particulates, surface water, drinking water, milk and mixed diet for the 28 countries of the European Union (sparse and dense network) for the year 2015.	30/06/2017	Scientific and policy reports	
														201603	Collection and validation of radon datasets	Extended compilation of indoor radon levels maps on data received from national contact points as well as an improved version of the European geogenic radon map). These maps are not only prepared as scientific publication in peer reviewed journals but also in view of the publication of the European Atlas of Natural Radiation. On going activity, deliverable valid for the other years	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
201604	Euratom article 35-36 working group meeting	Manage and organise the Euratom article 35-36 working group meeting(s) (maximum 2 meetings for 2015 depending on the needs of DG ENER D.3 and the EU Member States). The aim of these meetings is to improve the data processing and reporting procedures directly with a representation of the external stakeholders (6 Member States and DG ENER).	30/11/2016	Validated methods, reference methods and measurements															
201605	REM Data Submission Tool training course	The REM Data Submission Tool allows MS Competent Authorities to import their monitoring data in the REM database. Regular training courses to teach how to use the tool correctly are organised. Up to 2 training sessions of 2 days each on the REM Data Submission tool procedures (upon request by EU Member States and with a minimum of 4 participants per session) are foreseen for 2016.	30/09/2016	Training															
201606	Scientific publications	Ad hoc publications in peer reviewed journals on environmental (natural and artificial) radioactivity monitoring.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index															
1552 - RN-MetroNORM IND57 - METRONORM Metrology for processing materials with high natural radioactivity	Standardised traceable methods for measurement of natural radionuclides in NORM industries will be developed. New reference materials will be made for the calibration of the measurement methods with traceability to national standards. Nuclear data of natural radionuclides will be improved so that as many as possible descendants of uranium and thorium decays can be accurately measured. The project will have impact on relevant Directives (e.g. BSS), regulations and IAEA standards.	JRC.D.4 Mikael HULT	3.3.1.3.d	RTD	RTD	I. Alekno, HoU ENER D.3 (Radiation protection)	ENER GROW	EURAMET - European Organisation of Metrology (EURAMET)	01/09/2013 31/08/2016	4-Methods and testing (40%) 6-Reference materials and measurements (60%)	95 - RN-MetroMetal IND04 - METROMETAL 588 - RN-RefData Reference nuclear decay data in support to nuclear policies 586 - RN-Standards Harmonisation and standardisation of the radioactivity measurement system	COM-IA		2	Gamma-ray intensities in the decay of U-235	The aim is to measure the 185.7 keV gamma intensity in the decay of U-235, which complicates the determination of the amount of Ra-226 in a sample.	30/09/2015	Validated methods, reference methods and measurements	
														3	Gamma-ray intensities in the decay of Ac-227	Measurement of selected gamma-ray intensities of Ac-227 and daughters, which form the main contribution to the inhalation dose from the U-235 decay series. The decay data exhibit many inconsistencies. More accurate measurements would also provide more confidence in the decay schemes.	30/06/2016	Validated methods, reference methods and measurements	
														4	Interlaboratory comparison for standardisation	Organisation of inter-comparison for the radionuclides, reference materials and standard sources produced in the project. A report will be produced with results from the inter-comparisons, including uncertainty values and the recommendation of a new standardised traceable method for the measurement of activity of natural radionuclides with an uncertainty up to 3%.	30/09/2016	Scientific and policy reports	
2292 - REM data support Support for managing data on environmental radioactivity in 2015	The project will provide support to the users and will perform essential improvements of the software and documentation in order to assure that the REM (Radioactivity Environmental Monitoring) Database and EURDEP applications stay operational and the preparation of annual monitoring reports is further automated	JRC.E.8 Marc DE CORT	3.3.1.3.d	ENER	ENER	Vesa Tanner DDG2.D3			01/01/2015 31/12/2015	2-Information systems & services (100%)	715 - REM-db Euratom art 36 - EANR 714 - ECURIE/EURDEP ECURIE/EURDEP	COM-AA		1	Support	To assure full support for internal users and external national end-users for the routine (REMdb) and emergency (EURDEP-ECURIE) systems	31/12/2015	Technical systems	
														2	Connection flexibility	To improve the systems software to exchange and report on environmental radioactivity (routine and emergency systems) and provide adequate technical/user documentation	31/12/2015	Technical systems	
														3	Assistance to the Euratom art.35 inspection visits	To assist DG ENER D.3 in fulfilling its mandate to inspect monitoring networks within a limited number of Member States. 3 missions (to be confirmed) to EU Member States are planned.	31/12/2015	Technical systems	
3.3.1.4 Safety of nuclear fuels, fuel cycle and radioactive waste management																			
3.3.1.4.a Generation of reference samples and scientific data on the safety performance of both LWR reactor fuels (conventional and non-conventional) and of innovative nuclear fuel in operational, transient and accident conditions, including codes and modelling for safety assessment:																			
10 - NFIR-VI NFIR - VI High Burnup Property Measurements at JRC	Investigations on irradiated fuel disks will be performed using optical microscopy and SEM laserflash (thermal diffusivity), EPMA (microanalysis). The goal is to determine safety relevant properties and behaviour of the High Burnup Structure at its onset and at high burnup. Effects of grain size and fuel composition are studied. NFIR is a worldwide collaborative project, where many prominent European research institutions and companies participate.	JRC.E.2 Dimitrios PAPAIOANNOU	3.3.1.4.a	ENER	n/a	n/a		- AREVA NP GMBH* EDF Energy - EDF Energy US DoE - US Department of Energy (DOE) Westinghouse - Westinghouse Electric Sweden AB* - ELECTRIC POWER RESEARCH INSTITUTE	01/03/2006 31/12/2015	4-Methods and testing (100%)	JRC.E.3	508 - RDSIF Reference data for the safety of irradiated fuels 707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1	COM-TW		5	SAR (Semi Annual Report) - May 2015	The obtained Post Irradiation Examination results obtained till the next NFIR Steering Committee meeting will be reported. The NFIR SC assesses and comments the data	30/05/2015	JRC Technical reports
															6	NFIR VI - Final Report	All obtained Post Irradiation Examination results obtained for the programme will be reported to the NFIR Steering Committee. The NFIR SC assesses and comments the data	31/12/2015	JRC Technical reports
21 - NFMS Nuclear fuel modelling and simulation	For the European Nuclear Stakeholders (fuel vendors, operators of nuclear reactors, utilities and National Licences Authorities) a set of simulations tools that accurately predict all important safety aspects of nuclear fuel performance under normal and off-normal irradiation conditions, are developed and/or validated. In particular, the set of multi-scale and multi-physics simulation tools will include TRANSURANUS, VESTA, MFPR and FACTSAGE. User training is provided for TRANSURANUS.	JRC.E.3 Paul VAN UFFELEN	3.3.1.4.a	ENER	n/a	M. Boella, ENER.D.2	RTD	- Technische Universität München - TECHNICAL UNIVERSITY OF SOFIA - FORTUM NUCLEAR SERVICES OY - University of Pisa - Ente per le Nuove Tecnologie, l'Energia e l'Ambiente- Casaccia - VUJE - Hungarian Academy of Sciences - Nuclear Research Institute Rez - Imperial College London - POLITECNICO DI MILANO - Royal Institute of Technology TUV SUD - TÜV SÜD Industrie Service GmbH ENSI - Swiss Federal Nuclear Safety Inspectorate EPRI - Electric Power Research Institute HZDR - Helmholtz-Zentrum Dresden-	01/01/2014 31/12/2016	2-Information systems & services (90%) 9-Education & training (10%)		10 - NFIR-VI NFIR - VI High Burnup Property Measurements at JRC 126 - PELGRIMM PELGRIMM - Pellets versus granulates: Irradiation, Manufacturing & Modelling 215 - PIE AREVA Post Irradiation Examination of commercial LWR fuel from German reactors 451 - SANuC Safety Assessment of Nuclear fuel Cladding (SANuC) 508 - RDSIF Reference data for the safety of irradiated fuels 512 - POLARIS Power Laser Apparatus for Reactor-Irradiated Samples	INS-UR		2120151	TRANSURANUS user group meeting	Dissemination of reference knowledge about nuclear fuel behaviour	31/12/2015	Oral presentations
															2120153	COMSOL He release model	He release model for UO2 and MOX fuel by means of the COMSOL software for the TRANSURANUS code	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															2120161	New TRANSURANUS version	New version of the TRANSURANUS code, with model for hydrogen uptake, double sided-cladding oxidation, hydrogen release, new material properties for cladding, transient release model, etc. Peer reviewed article about model developments and validation	31/12/2016	Technical systems
															2120162	COMSOL model of POLARIS	Three dimensional model of the POLARIS setup by means of the COMSOL software	31/12/2016	PhD thesis
															2120163	FP chemistry model for TRANSURANUS	Peer reviewed article(s) about the coupling of the TRANSURANUS code and a code for the fission product (FP) chemistry	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
2120164	Report for FUMAC CRP of IAEA	Report for the (FUMAC) Fuel Modelling under Accident conditions coordinated research project (CRP) of the IAEA	31/12/2016	Scientific and policy reports															

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
24 - INET Fuel contract PIE on INET Pebble fuel elements	The fission product retention capability of HTR pebble bed fuel in a loss of cooling accident scenario is to be tested. For this purpose, four INET pebbles irradiated in HFR will be transported to ITU (January 2015) for investigation. Burn up determination, simulated accident testing, ceramography on coated particles, deconsolidation and analysis of the broken particles will be performed.	JRC.E.2 Mathias LAURIE	3.3.1.4.a	ENER	n/a	n/a		- INSTITUTE OF NUCLEAR AND NEW ENERGY	01/05/2014 01/10/2017	3-Instrumentation & hardware (50%) 4-Methods and testing (50%)	JRC.E.5	696 - PIE + Upgrade HTR-PIE 707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1	COM-TW	23	Burn-up determination	The 4 INET pebbles irradiated in the HFR will be gamma counted in the Hots Cells and the Burn-up will be deduced from the Cs-137 content.	15/03/2015	JRC Technical reports
														210	KUFA test on INET fuel (first pebble)	Three HFR irradiated pebbles will be placed in the KUFA device to assess their retention capability during a loss of coolant accident transient. The heating curve and operating limits will be discussed with INET considering the irradiation results. First deliverable concerning the first INET pebble.	15/06/2015	JRC Technical reports
														211	KUFA test on the INET fuel (second pebble)	Three HFR irradiated pebbles will be placed in the KUFA device to assess their retention capability during a loss of coolant accident transient. The heating curve and operating limits will be discussed with INET considering the irradiation results. First deliverable concerning the second INET pebble.	01/10/2015	JRC Technical reports
														212	KUFA test on INET fuel (third pebble)	Three HFR irradiated pebbles will be placed in the KUFA device to assess their retention capability during a loss of coolant accident transient. The heating curve and operating limits will be discussed with INET considering the irradiation results. First deliverable concerning the third INET pebble.	31/12/2015	JRC Technical reports
														240	Electrochemical deconsolidation	One non-KUFA tested pebble will be deconsolidated by uniform dissolution in nitric acid under anodic polarization.	15/06/2015	JRC Technical reports
														241	Electrochemical deconsolidation (KUFA tested fuel)	One KUFA tested pebble will be deconsolidated with a uniform dissolution in nitric acid process using an anodic polarization.	15/04/2016	JRC Technical reports
128 - META-MOX 1 Irradiation Effects on Properties and Structure Evolution in conventional and advanced fuels Phase 1	JRC will perform Post Irradiation Examination (PIE) of: - very high burnup (105 GWd/T) MOX to assess the effect of Pu distribution in the fuel on the safety in-pile; - metal alloy fuel containing Np, Am, Cm (METAPHIX 1, 2 and 3); safety and effectiveness demonstration of closed nuclear fuel cycle concept to reduce long term radiotoxic inventory of high level waste. Competitive contracts 30583, 31122, 32050 and 32262.	JRC.E.2 Stephan BREMIER	3.3.1.4.a	ENER	n/a	n/a		CRIEPI - Central Research Institute of Electric Power Industry	01/04/2011 31/03/2016	4-Methods and testing (100%)		707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1	COM-TW	4	Final Report on MOX disks Contract Nr. 32050	This Third Work Party report is a final report. It describes all work and highlights the results obtained in the frame of the competitive contract.	31/03/2015	JRC Technical reports
														5	JFY2014 Yearly report on Metaphix fuels	This Third Work Party report is a summary of the work performed between the start of the competitive contract METAPHIX to the end of Japan Fiscal Year 2014	31/03/2015	JRC Technical reports
														6	Final Report Metaphix Contract Nr. 32050	This Third Work Party report is a final report. It describes all work and highlights the results obtained in the frame of the competitive contract.	31/03/2016	JRC Technical reports
161 - TEM CONCERTO CONCERTO - Transmission Electron Microscopy examinations on irradiated fuels	Characterize irradiated UO ₂ and chromia-doped UO ₂ fuels with aim to make progress in understanding mechanisms governing the low temperature (600 to 700°C) intragranular gas precipitation in the chromium doped fuel. A further assessment of damage evolution between doped- and undoped-fuel will be determined.	JRC.E.3 Thierry WISS	3.3.1.4.a	ENER	n/a	n/a		- AREVA NP SAS*	13/07/2012 12/07/2016	4-Methods and testing (100%)	JRC.E.2		COM-TW	2	Intermediate report	Intermediate report after the examination of the high burnup fuels	30/06/2015	JRC Technical reports
														3	Final Report for the customer	The results of the examinations and the interpretation will be summarised in a (confidential) report for the customer.	30/06/2016	JRC Technical reports
197 - HFR-INET HFR-INET: Contract with NRG for use of Sweep Loop Facility in HFR	Service contract with NRG for the use of the Sweep Loop Facility in the HFR Petten. The HFR-INET is an irradiation test in which spherical fuel pebbles for the HTR-PM demonstration reactor in China are irradiated while at the same time the fission gas release from this fuel is monitored. This monitoring is done by the Sweep Loop Facility, which was designed for earlier such tests and which is owned by JRC. The results are relevant for the safety performance of this fuel.	JRC.F.4 Karl-Fredrik NILSSON	3.3.1.4.a	ENER	JRC	Michael FUETTERER		- NUCLEAR RESEARCH AND CONSULTANCY	01/09/2012 30/06/2015	3-Instrumentation & hardware (100%)		449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMA)	COM-TW	1	Maintenance and repair (as required)	The service contract stipulates that the facility will have to be maintained in running order at all times during the HFR-INET experiment. Maintenance and repair will be performed as necessary.	30/12/2015	Technical systems
215 - PIE AREVA Post Irradiation Examination of commercial LWR fuel from German reactors	Post irradiation examinations are performed, both non-destructive and destructive of UO ₂ , UO ₂ /Gd ₂ O ₃ and MOX fuel rods irradiated at several European power plants. Fretting and shadow corrosion analysis, ceramography and metallography of fuel and cladding are included in the programme.	JRC.E.2 Dimitrios PAPAIOANNOU	3.3.1.4.a	ENER	n/a	n/a		IAEA - International Atomic Energy Agency (IAEA) - AREVA GMBH*	29/08/2012 31/12/2016	4-Methods and testing (100%)		707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1 722 - SAR-Phebus-fp Fuel safety - volatile fission product releases from Phebus	COM-TW	25	PIE results of the GUN-B Part-F fuel rods	The records with all obtained results of the Post Irradiation Examinations of the particular fuel rods campaign (GUN-B Part-F) will be sorted, well documented, checked and submitted to the customer.	31/05/2015	JRC Technical reports
														30	PIE results of the KKP fuel rods	The records will all obtained results of the Post Irradiation Examinations of the particular fuel rods campaign (KKP) will be sorted, well documented, checked and submitted to the customer.	31/12/2016	JRC Technical reports
369 - SyntCryst4NS Samples Synthesis and Crystallographic Structure Studies for Nuclear Safety	Synthesis and structural characterization of plutonium metal, actinide carbides, actinide oxides, actinide borides, and actinide coordination compounds of interest for the safety assessment of nuclear fuels, in support of the institute nuclear safety programme. The program is complemented by crystallographic and phase diagram studies of the investigated systems.	JRC.E.6 Rachel ELORIDI	3.3.1.4.a	ENER	n/a	ENER D.2 Maurizio Boella		- BenGurion University of the Negev - University of Edinburgh Sc Actinide - Scientific Community on Actinide Research	01/01/2014 31/12/2016	4-Methods and testing (60%) 6-Reference materials and measurements (40%)		122 - SEARCH SEARCH - Safe Exploitation related Chemistry for HLM Reactors 237 - TALISMAN TALISMAN - Transnational access to large infrastructures 365 - EARL European Actinide Research Laboratory 368 - SUPRACLEAR Standard nuclear data and Underpinning Research on nuclear fuels 509 - NMEC Nuclear materials under extreme conditions	INS-RS	21	Laser welding for nuclear fuel preparation	Installation and commissioning of a laser welding device in a glove box for sealing quartz tubes containing samples of nuclear materials. The device will replace plasma-torch sealing techniques, improving operational safety.	31/12/2015	Technical systems
														22	PhD of Michal Seweryn Dutkiewicz	This project uses binuclear N,N-coupled bis(β-diketimine) and Schiff-base pyrrole macrocyclic ligands (L) that form rigid organic architectures and can be made in multi-gram yields. These molecular systems can support one or two 5f-block cations and allow one to make mono- and multi-metallic compounds by sequential cation incorporation. The synthesis method allows the possibility of studying mixed valent and mixed actinide species by appropriate selection of the molecular building blocks	31/12/2015	PhD thesis
														23	Phase diagram studies related to nuclear safety	Study of chemical reactivity and thermal expansion of nuclear fuel materials (MOX, ADU, U carbides, Na-Ar-O) in different atmospheres (air and vacuum) up to 1900 K. The evolution of crystallographic structure and phase composition with increasing temperature and atmosphere conditions will complement the knowledge on phase diagrams and lattice expansion properties.	31/12/2015	Technical systems
														31	Production of Pu-242 and Np-237 metals	Development of installation for the production of high-purity plutonium-242 and neptunium-237 metal at the gram scale by mercury-amalgamation reduction of oxide materials. The production will cover the needs of metallic fuel safety study planned at ITU and those of external collaboration programs (EARL, TALISMAN).	31/12/2016	Technical systems
506 - SPECTRE SeParate EffeCTs to impRovE fuel safety in LWR cores	Simulated nuclear reactor fuel samples will be prepared, notably containing ruthenium, whose chemical behaviour will be investigated under different oxidising conditions. Self irradiation damage will be used to ascertain behavioural changes with respect to pristine fuel. Related to this activity nano crystalline UO ₂ will be synthesised, and its behaviour and resistance against self-irradiation determined using X-ray and nuclear magnetic resonance methods.	JRC.E.4 MARCO COLOGNA	3.3.1.4.a	ENER	n/a	M. Boella		- AREVA NP GMBH* CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IRSN - Institut de Radioprotection et Sûreté Nucléaire NUGENIA - Nuclear Generation II & III Association SNETP - Sustainable Nuclear Energy Technology Platform (SNETP) UKNNL - National Nuclear Laboratories of the UK	01/01/2014 31/12/2016	4-Methods and testing (100%)		511 - EFWAS Evolution of fuels and waste forms in storage and disposal conditions	INS-UR	50620151	Simulation of Ruthenium behaviour in fuel	Ruthenium is highly volatile in one chemical state, hence it is of concern in severe accidents. Within this deliverable fuel chemical boundary conditions limiting this chemical state will be determined in pristine and damaged material.	31/12/2015	JRC Technical reports
														50620152	Preparation of nano UO ₂ fuel in Pellet form	High quality pellets with tailored structure are the key to the study of nuclear fuel safety. JRC is equipped beyond the state of the art, enabling high burnup structure UO ₂ pellets to be produced – a world wide unique capability. The nanocrystalline structured pellets will be characterised and prepared for dedicated irradiation testing.	31/12/2015	JRC Technical reports
														50620161	Ruthenium behavioural limits in UO ₂	Irradiation damage in the fuel will distribute Ru in different sizes ranging from atoms at in grains, atoms and clusters at grain boundaries, and agglomerates throughout the fuel. The oxidation state of each of these forms will be assessed along with relative concentrations, enabling a thorough evaluation of potential impact of Ruthenium in off normal events in a nuclear reactor	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														50620162	Irradiation performance of nUO ₂ by ions	Samples will be examined using ion beam to simulate fission damage. The results will determine performance limits of current reactor fuel. Further, the potential of this microstructured fuel for future applications will be assessed.	31/12/2016	JRC Technical reports
508 - RDSIF Reference data for the safety of irradiated fuels	Produce scientific data by experimental investigations (sample preparation, measurement) on fresh and high burn-up irradiated UO ₂ and (U,Pu)O ₂ fuels and advanced minor actinides fuels. Improve models based on these results. These data and models are used in fuel performance codes for safety studies. 1-Thermophysical: thermal diffusivity, specific heat, thermal dilatation, differential thermal analysis, X-ray diffraction 2-Thermomechanics: indentation 3-Knudsen cell: high temperature release	JRC.E.3 Dragos STAIU	3.3.1.4.a	ENER	n/a	Maurizio Boella	RTD	- AREVA NP GMBH* - Technische Universität München AECL - AECL Chalk River - Canada CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CRIEPI - Central Research Institute of Electric Power Industry EDF - Electricité de France NEA - Nuclear Energy Agency (OECD) SCK-CEN - Belgian Nuclear Research Centre	01/01/2014 31/12/2016	4-Methods and testing (20%) 6-Reference materials and measurements (70%) 9-Education & training (10%)	JRC.E.4	10 - NFIR-VI NFIR - VI High Burnup Property Measurements at JRC 21 - NFMS Nuclear fuel modelling and simulation 126 - PELGRIMM PELGRIMM - Pellets versus granulates: Irradiation, Manufacturing & Modelling 509 - NMEC Nuclear materials under extreme conditions 510 - RDCANF Reference data for conventional and advanced nuclear fuels 512 - POLARIS Power Laser Apparatus for Reactor-Irradiated Samples 850 - ESNII+ ESNII+ European Sustainable Nuclear Industrial Initiative	INS-RS	50820151	Thermal conductivity of oxidised UO ₂	The investigation of the properties of oxidised UO ₂ is important for the understanding of the fuel properties changes during severe accidents. Samples preparation (cutting of disks from fuel pellets, heat treatments under appropriate atmosphere) and thermal diffusivity and specific heat measurements on oxidised UO ₂ . Analysis and modelling of the results. Review the literature data and prepare a journal article	30/10/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														50820152	Thermal properties of nuclear fuels	Obtain reference data for assessing the effect of individual parameters (e.g. composition, burn-up, irradiation conditions) on safety relevant properties like thermal conductivity and specific heat. Samples preparation, thermal diffusivity and specific heat measurements for unirradiated and irradiated fuels. The fuels can be UMo, (U, Am)O ₂ , or irradiated high burn-up MOX, depending on the priorities set with beneficiaries. Analysis of the results and preparation of peer reviewed articles.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														50820161	Thermal properties of nuclear fuels	Obtain reference data for assessing the effect of individual parameters (e.g. composition, burn-up, irradiation conditions) on safety relevant properties like thermal conductivity and specific heat. Samples preparation, thermal diffusivity and specific heat measurements for unirradiated and irradiated fuels. The fuels can be UMo, (U, Am)O ₂ , or irradiated high burn-up MOX, depending on the priorities set with beneficiaries. Analysis of the results and preparation of peer reviewed articles.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														50820162	Release of fission products from irradiated fuels	In order to understand the release of fission products during a nuclear accident, sample preparation and Knudsen cell mass spectrometric measurements will be done for irradiated UO ₂ and MOX fuels of commercial burn-ups. The results will be interpreted and analysed.	30/11/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
509 - NMEC Nuclear materials under extreme conditions	Paramount for the nuclear safety is the knowledge of fundamental properties of nuclear materials under extreme conditions (of temperature, pressure and chemical environment), particularly under accidental conditions. We will study actinide compounds and phases (e.g. occurring in corium) of interest using the high- and low-temperature facilities available at ITU. Data interpretation will be supported by a thorough characterisation and by thermodynamic and quantum-chemical calculations.	JRC.E.3 Dario MANARA	3.3.1.4.a	ENER	n/a	M. Boella, ENER D.2	RTD	- Delft University of Technology - Free University of Berlin - POLITECNICO DI MILANO CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives IRSN - Institut de Radioprotection et Sûreté Nucléaire JAEA - Japan Atomic Energy Agency NRG - Nuclear Research and consultancy Group, NRG ORNL - Oak Ridge National Laboratory	01/01/2014 31/12/2016	4-Methods and testing (40%) 6-Reference materials and measurements (60%)		106 - GACID GACID - Thermal properties of U-Pu-MA oxide fuels 369 - SynCryst4NS Samples Synthesis and Crystallographic Structure Studies for Nuclear Safety 510 - RDCANF Reference data for conventional and advanced nuclear fuels 516 - MANTRA Minor Actinide incineration in nuclear reactors 545 - SIDECAR Simulation of severely damaged light water reactor core fuel behaviour	INS-RS	3	Raman spectroscopy of actinide compounds	Raman spectra of pure and mixed actinide compounds are recorded and discussed. Vibrational fingerprints of different species are identified and used for semi-quantitative analyses of mixed samples. The technique is shown to be suited for a quick, effective, remote and non-destructive characterisation of segregation, redistribution, oxidation and other phenomena occurring in nuclear materials.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	HT phase equilibria in corium	Particular interest will be devoted to the behaviour of the mixture (commonly called "corium") potentially produced at temperatures exceeding melting between the nuclear fuel and structural materials (cladding, containment) in case of a mishap. New phase equilibria will be experimentally investigated by laser heating in pure and mixed compounds that would become, in an accidental scenario, the main constituents of corium. Results will be assessed with the help of thermodynamic calculations.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														5	Experimental molecular data of actinide molecules	Fundamental molecular data of inorganic molecules containing actinides are obtained by coupling Matrix-Isolation Raman (RMI) spectroscopy experimental data with quantum chemical calculations. The data will be used to extend the thermodynamic database for gas-phase properties of actinide materials, within the general goal of nuclear fuel safety.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														6	Quantum chemical assessment of actinide molecules	State-of-the art quantum chemical methods will be presented and applied to the computation of fundamental properties (molecular geometry, electronic structure, electronic transitions, dissociation energy, ionization energy) of actinide compounds. Results are paramount especially for the properties that are hardly accessible to direct experimental measurements with the currently available techniques.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														8	Laboratory study of radiological dispersion events	Aerosols release related to Radiological Dispersion Events (RDE's) are simulated and studied in order to support with experimental data a better understanding of the source term, to help improving codes for risk assessment (RODOS, ARGOS, HotSpot). A laser set-up has been developed for studying the separate effects of temperature, materials and different atmospheres on the produced aerosols. Aerosols' properties are then characterised with the help of different experimental techniques.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														9	Assessment of the Radiological Dispersion Events	The current project (RADES) aims at the characterization of aerosols release related to Radiological Dispersion Events, in order to support with experimental data a better understanding of the source term, to help improving codes for risk assessment (RODOS, ARGOS, HotSpot). The whole approach is validated and applied to UO2 and simulated spent fuel in order to establish the effect of sabotage and accident during transport of spent fuel or uncovering of spent fuel pond.	31/12/2015	PhD thesis
510 - RDCANF Reference data for conventional and advanced nuclear fuels	High temperature physico-chemical properties of actinide containing oxide and fluoride fuel materials and its vaporization behaviour will be experimentally determined using calorimetric and spectroscopic techniques in a view of safety assessment of nuclear reactors, particularly the LWRs, and MSR and SFR from the GenIV initiative. The novel data will give basis for the extension and improvement of a nuclear fuel database which is a very strong tool to predict the safety limits of a nuclear fuel.	JRC.E.3 ONDREJ BENES	3.3.1.4.a	ENER	n/a	M.Boella ENER D.2	RTD	- RUSSIAN RESEARCH CENTRE "KURCHATOV INSTITUTE" - Delft University of Technology - POLITECNICO DI MILANO CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CNRS - Centre National de la Recherche Scientifique IRSN - Institut de Radioprotection et Sûreté Nucléaire NEA - Nuclear Energy Agency (OECD) ORNL - Oak Ridge National Laboratory	01/01/2014 31/12/2016	4-Methods and testing (35%) 6-Reference materials and measurements (65%)		121 - FIRST-NUCLIDES FIRST-NUCLIDES Fast / Instant Release of Safety Relevant Radionuclides from Spent Nuclear Fuel 122 - SEARCH SEARCH - Safe Exploitation related Chemistry for HLM Reactors 368 - SUPRACLEAR Standard nuclear data and Underpinning Research on nUCLEAR fuels 2245 - SAMOFAR Safety Analysis of Molten Salt Fast Reactor	INS-UR	1003	Thermodynamic properties of Na-U-Np-O compounds	The study is performed in a view to understand the SFR fuel behaviour upon the sodium interaction with the oxide fuel during cladding breaching. Interaction of sodium with NpO2 contained in the fuel may lead to the formation of Na-Np-O ternary compounds and thus it is important from the safety point of view to understand their properties. Therefore, high temperature heat capacity and vaporization behaviour of selected compounds which are formed within the Na-U-Np-O system will be investigated.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														1004	Reference data of nuclear materials	A book on the update of reference data of nuclear materials will be made. It will review and recommend thermophysical properties of solid, liquid and gas phases of actinide elements and actinide containing oxide, nitride, carbide and fluoride compounds.	31/12/2016	Books
														1005	Vaporization behaviour of major fission products	Cesium and iodine are among the major fission products produced during irradiation of a nuclear fuel. The vaporization behaviour of the main Cs- and I-containing phases that are formed during fission will be studied using Knudsen cell mass spectrometer. The outcome of this investigation will help to better understand the release of fission products during nuclear accident. Multiple publications	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														1007	PhD thesis of Elisa Capelli	A PhD thesis dealing with the investigation of the molten salt reactor fuel properties will be finalized by Elisa Capelli.	31/07/2016	PhD thesis
														1008	PhD thesis of Anna Smith	A PhD thesis dealing with thermophysical properties investigation of Na-U-Np-O system will be finalized by Anna Smith.	30/09/2016	PhD thesis
														1009	Oxide fuel vaporization	Vaporization behaviour of actinide containing mixed oxide solid solutions that form the matrix of conventional nuclear fuel will be determined taking into account the latest improvements achieved with respect to the assessment of oxygen stoichiometry of the sample. The outcome of this study will provide better link between the fuel behaviour and its dependence on oxygen content. The results will demonstrate the fuel behaviour under high temperature conditions. Multiple publication.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1010	MSR fuel under accidental conditions	High temperature experiments will be performed on actinide containing liquid fluoride salt systems to simulate behaviour of molten salt reactor fuel under accidental conditions. Focus will be made on retention capacity of the liquid fuel for major fission products Cs and I as well as on the vaporization behaviour of the fuel components. Comparison will be made between the fission product release from this advanced fuel and the conventional solid oxide fuel. Multiple publication	30/06/2017	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
512 - POLARIS Power Laser Apparatus for Reactor-Irradiated Samples	The goal is to build an experimental facility for simulation of in-reactor thermo-mechanical behaviour of irradiated fuel, based on laser heating. Due to the extremely high heating power applicable to the sample normal operation conditions, off-normal and severe accidents can be simulated. POLARIS will allow measurement of local distribution of the thermal diffusivity, integral thermal conductivity, fuel-cladding conductance and interaction, gas release and melting behaviour.	JRC.E.3 Luka VLAHOVIC	3.3.1.4.a	ENER	n/a	M. Boella		- IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives EPRI - Electric Power Research Institute	01/01/2014 31/12/2016	3-Instrumentation & hardware (70%) 4-Methods and testing (30%)	JRC.E.2	508 - RDSIF Reference data for the safety of irradiated fuels	INS-RS	4	Void formation study	Perform a study on UO2 sample by repeating the FBR thermal conditions and study the void formation.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														5	Thermal conductivity of mixed oxides fuels	Investigation of the thermal conductivity of (U, Pu)O2 with different content of Pu by using the inverse method (see deliverable 3) and comparison with other methods like laser-flash and DSC-calorimetry. Samples preparation (cutting of disks from fuel pellets, heat treatments under appropriate atmosphere) and thermal properties measurements: thermal diffusivity, heat capacity and thermal conductivity. Analysis of the results. Review the literature data and prepare a journal article.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														6	Final Tests	Build the experiment inside the glove-box and foresee all the facilities in order to perform the experiment with the remote manipulators in order to be ready to study irradiated fuels.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
513 - KEMS-II New Knudsen Effusion Mass Spectrometer	The project consist in the construction of a new double focusing "Knudsen Effusion Mass Spectrometer" for replacement of an aging system. KEMS is a measurement technique providing fundamental data (thermodynamic) to assess nuclear fuel behaviour in normal or accidental condition but also long term storage or reprocessing. This system will be the only world-wide able to make measurement on reactor irradiated fuel and thus provide unique data for fission product behaviour in accidental condition	JRC.E.3 Jean-Yves COLLE	3.3.1.4.a	ENER	n/a	M. Boella ENER D.2		CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CRIEPI - Central Research Institute of Electric Power Industry IRSN - Institut de Radioprotection et Sûreté Nucléaire	01/01/2014 31/12/2016	3-Instrumentation & hardware (100%)			2	KEMS II Construction report	The new KEMS system will be constructed and assembled in the ITU laboratory in a shielded glove box and the report will give a detailed description of the system and its auxiliary components.	31/12/2015	Technical systems	
													3	KEMS II testing report	After the successful completion of the construction phase, the new shielded KEMS system will be extensively tested with inactive and radioactive reference materials and the report will describe in detail the results of these tests.	31/12/2016	Technical systems	
522 - ADIEU Actinide Isotopes : sEcurity of sUpply	The JRC EURATOM programmes on fuel safety rely on the availability of valuable isotopes in a chemically pure form for the production of reference samples and concomitant data. The quantity available for our programmes has decreased steadily. In this project an installation will be constructed, and commissioning, enabling the recovery of isotopes for further use.	JRC.E.4 OLAF WALTER	3.3.1.4.a	ENER	n/a	M. Boella			01/01/2014 31/12/2017	4-Methods and testing (100%)			INS-RS	52220161	Nuclide recovery: 3 final installation	The operation conditions on the separation unit as well as an instruction manual will be reported as a part of JRC's quality assurance	31/12/2015	JRC Technical reports
														52220171	Nuclide recovery: 4 description of usage	The operating conditions as well as the results for the applied separations will be reported and documented as a part of the JRC's Quality assurance	31/12/2016	JRC Technical reports
														52220181	Nuclide recovery: 5 final report	Final report on the separations applied will be given including the results and an evaluation. The operation conditions for all applied separations will be documented as a part of the JRC's Quality assurance.	31/12/2017	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
545 - SIDECAR Simulation of severely Damaged light water reactor Core fuel behaviour	Samples simulating the materials formed under severe nuclear reactor accident will be synthesised by sol gel methods. These will largely be based on mixed zirconium-uranium/plutonium oxides, typically found in light water reactors. They will be characterised by X-ray and nuclear magnetic resonance methods. Specific samples will be prepared for self-irradiation damage investigations. The evolution of structural and mechanical properties with damage will be determined.	JRC.E.4 ALICE SEIBERT	3.3.1.4.a	ENER	n/a	M. Boella		- Nuclear Regulatory Authority of the Slovak Republic - Hungarian Atomic Energy Authority CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IAEA - International Atomic Energy Agency (IAEA) IRSN - Institut de Radioprotection et Sûreté Nucléaire KIT - Karlsruhe Institute of Technology NEA - Nuclear Energy Agency (OECD) NRG - Nuclear Research and	01/01/2014 31/12/2016	4-Methods and testing (100%)		369 - SyntCryst4NS Samples Synthesis and Crystallographic Structure Studies for Nuclear Safety 509 - NMEC Nuclear materials under extreme conditions	INS-UR	54520151	Radiation damage in (U,Zr)O2	In 2014, samples of (U,Zr)O2 consistent of the composition expected when fuel reacts with its cladding in nuclear reactors will be made. Further they will incorporate a source for self irradiation, to simulate the behaviour of solidified fuel-cladding melts under near real conditions. This study will concentrate on the structural changes in the fuel.	31/12/2015	JRC Technical reports
														54520152	Synthesis and characterisation of (Pu,Zr)O2	MOX fuel is used in a large number of nuclear reactors. The detailed understanding of the behaviour of solidified fuels must include the possibility of incongruous solidification. Building on earlier synthesis of (U,Zr)O2, several compounds in the (Pu,Zr)O2 system will be prepared to investigate their structural and other properties.	31/12/2015	JRC Technical reports
														54520161	CORIUM: evolution of mechanical properties	Remediation of several damaged reactor cores requires knowledge on the mechanical properties of the material. For this purpose simulated materials are synthesised and their hardness as a function of self irradiation damage is investigated, to establish user data for the retrieval of fuel from damaged cores.	31/12/2016	JRC Technical reports
														54520162	Severely damaged fuel: Structural evolution	During a severe accident reactor fuel melts and reacts with the cladding. The properties of these materials are difficult to assess, but simulated material incorporating irradiation sources provides a means to understand the further degradation of this material as it cools. This report concentrates on experimental data on the structural evolution, and provides input for ab initio modelling codes, whose application in such materials is facilitated due to the lack of further fission.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
696 - PIE + Upgrade HTR-PIE	This is dedicated to retaining Post Irradiation safety testing capabilities on irradiated HTR fuel compounds to be used mainly for competitive projects. This project covers maintenance (KUFA: heating pebble furnace) and limited development (IMGA: coated particle analyzer) and metrology measurements (fixed point cells techniques and gamma spectrometry standards) complementary to existing systems.	JRC.E.2 Mathias LAURIE	3.3.1.4.a	ENER	n/a	M. Boella, ENER D.2		- ALSTOM POWER CENTRALES - University of Manchester - UNIVERSITY OF CAMBRIDGE - UGAR SNC - DRESDEN UNIVERSITY OF TECHNOLOGY - AMEC - AMEC Consulting CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives	01/01/2014 31/12/2016	3-Instrumentation & hardware (100%)		24 - INET Fuel contract PIE on INET Pebble fuel elements 50 - ARCHER ARCHER: Advanced High-Temperature Reactors for Cogeneration of Heat and Electricity R&D	INS-RS	20	Integrated micro gamma analyser	Preparation report for the implementation of IMGA in the Hot Cells In the framework of ARCHER a cold version of IMGA should be developed by beginning of 2015. This document will describe the work to be performed in order to have the complete system housed in the Hot Cells prior to INET fuel examination.	20/02/2016	JRC Technical reports
														40	Maintenance of the KUFA device	Logbook with curative and preventive maintenance. This document will sum up all the maintenance required to have the KUFA operational in June 2015 prior to the INET fuel testing.	15/06/2015	JRC Technical reports
707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1	JRC will perform detailed examination and safety-relevant scientific analysis of conventional, innovative and advanced fuels. High burnup - extended operation, fission product phase distribution, pellet-cladding interaction will be investigated on LWR commercial fuel and advanced fuel compounds.	JRC.E.2 Stephan BREMIER	3.3.1.4.a	ENER	n/a	M. Boella, ENER D.2	- Royal Institute of Technology - Rheinisch-Westfälische Technische Hochschule Aachen / Aachen University of Technology - Delft University of Technology - Ghent University - POLITECNICO DI MILANO - ARVEVA NP GMBH* - FORTUM NUCLEAR SERVICES OY - CETAMA - Commission d'Établissement des Méthodes d'Analyse du CEA (CETAMA) France - CIEMAT - Centro de Investigaciones Energéticas Medioambientales Tecnológicas	01/01/2014 31/12/2016	4-Methods and testing (100%)	JRC.E.3		10 - NFIR-VI NFIR - VII High Burnup Project Measurements at JRC 24 - INET Fuel contract PIE on INET Pebble fuel elements 121 - FIRST-NUCLIDES FIRST-NUCLIDES Fast / Instant Release of Safety Relevant Radionuclides from Spent Nuclear Fuel 128 - META-MOX 1 Irradiation Effects on Properties and Structure Evolution in conventional and	INS-RS	8	SEM on Metaphix 1 and 2 fuels	Reporting the Secondary Electron observations performed on Metaphix 1 and 2 fuels. This results are obtained in collaboration with CRIEPI (Japan)	30/06/2015	JRC Technical reports
														9	Basic studies on SIMS analysis optimisation	Contribution to SIMS 20, international conference on Sims applications. The contribution will concern the optimization of the Sims measurement of the fission gas Xe and Kr in irradiated fuels	15/10/2015	Poster presentation
														10	Publication on Fission Gas release mechanisms	Publication based on SEM/TEM/KEMS results	31/12/2015	Article contribution to other peer-reviewed periodicals
														11	SIMS measurements of Xe and Kr in KKG fuel	Publication in a peer reviewed journal on the optimization of the analysis of Xe and Kr in KKG UO2 fuel	31/03/2016	Article contribution to other peer-reviewed periodicals
														12	PhD Thesis on PIE of metallic fuels	PhD thesis related to the characterisation of metallic fuels related to the METAPHIX experiments	30/12/2016	PhD thesis
														14	2015 Electron Probe Analysis of fuels	Reports about the assessment of microprobe measurements of irradiated fuels carried out in 2015	31/12/2015	JRC Technical reports
														15	2016 Electron Probe Analysis of fuels	Reports about the assessment of microprobe measurements of irradiated fuels carried out in 2016	31/12/2016	JRC Technical reports
722 - SAR-Phebus-Ip Fuel safety - volatile fission product releases from Phebus Ip samples	The project covers the selected investigations of degraded irradiated fuel and cladding, reactor structural and moderator materials of typical PWR, BWR and reactor accidents such as TMI-2, Phébus, and Fukushima; especially the examination of properties of relevant oxide mixtures and the behaviour of fission products in the primary circuit in severe accidents.	JRC.E.2 Paul BOTTOMLEY	3.3.1.4.a	ENER	n/a	M. Boella, ENER D.2	- Chalmers University of Technology - KFKI Institute for Isotopes - TECHNICAL UNIVERSITY OF SOFIA - UNIVERSITÄT STUTTGART - ARVEVA NP GMBH* - VUJE - Nuclear Research Institute Rez - AECL - Chalk River - Canada - CIEMAT - Centro de Investigaciones Energéticas Medioambientales Tecnológicas - CRIEPI - Central Research Institute of Electric Power Industry - EDF - Electricité de France	01/01/2014 31/12/2016	4-Methods and testing (70%) 7-Scientific, technical & policy consultancy (30%)	JRC.E.3 JRC.E.4		215 - PIE AREVA Post Irradiation Examination of commercial LWR fuel from German reactors 597 - CAST CAST - Carbon 14 Source Term 728 - StoS Spent Nuclear Fuel Storage Studies - Phase A 763 - CCM1 Characterization of off-vessel corium melt - Phase 1 859 - DECOTwice Decontamination,	INS-RS	1	Advances in severe accident corium research	European & overseas partners in the SARNET2 will perform an in-Vessel Degradation 'state of the art' (SOAR) report. This will be a proposal 'CoreSOAR' to NUGENIA.	31/01/2016	Scientific and policy reports
														3	Studies in fission product re-precipitation	Synthesis of the major parameters determining the re-precipitation phenomenon and the implications for severe reactor accident mitigation based on re-precipitation testing carried out at ITU and elsewhere.	01/03/2015	PhD thesis
														4	The high temperature U-Zr Fe-O system.	In this multi-unit collaboration testing of ITU - prepared samples (E.4 Fuel Fabrication) will be measured by laser flash pyrometry (E3. Materials Research) to determine the melting ranges.	31/01/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														6	Hot cell fission gas-mixing and testing facility	Fission gas-mixing and testing facility for irradiated fuel in hot cell 106. Report on operational status.	31/03/2016	JRC Technical reports
														7	Advances in severe accident research	Contribution to NUGENIA to establish severe accident research needs within fuel safety projects	31/12/2016	Scientific and policy reports
														211	D2.11: Preliminary Updated Concept Paper [m. 24]	Update the ESNII+ Concept Paper issued in 2010 based on new elements developed within the ESNII+ project and external events (e.g. Fukushima-accident, financial crisis,...).	30/01/2016	Scientific and policy reports
														212	D2.12 ESNII+ Implementation plan 2016-2018: [m. 24]	Update the ESNII+ Implementation plan 2010-2012 issued in 2010 based on new elements developed within the ESNII+ project and external events (e.g. Fukushima-accident, financial crisis,...).	30/01/2016	Scientific and policy reports
850 - ESNII+ ESNII+ European Sustainable Nuclear Industrial Initiative	The role of JRC is to contribute to the survey of the activities to develop an strategic approach to Fast Reactors (concepts, implementation, and collaborations) and to provide new experimental results on material properties of fast reactor fuels, specifically the thermal conductivity of irradiated mixed oxide fuels.	JRC.E.3 Dragos STAIU	3.3.1.4.a	RTD	RTD	R. Garbil RTD K.4	- SCK CEN - VATTENFALL AB CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives EDF Energy - EDF Energy GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IRSN - Institut de Radioprotection et Sûreté Nucléaire KIT - Karlsruhe Institute of Technology KTH - KUNGLIGA TEKNISKA	01/09/2013 30/08/2017	4-Methods and testing (70%) 6-Reference materials and measurements (30%)	JRC.F.4 JRC.F.5		449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMA) 490 - MATISSE MATISSE - Materials' Innovations for a Safe and Sustainable nuclear in Europe 508 - RDSIF Reference data for the safety of irradiated fuels 576 - SAFARI Safety Assessment for Innovative Gen III+ and Gen IV reactors	COM-HA	531	D531: Critical review of international cooperation	Survey of activities and schedules on Fast Reactors (SFR, LFR and GFR) developed throughout the world. Critical review of international cooperation synergies and commonalities between different Fast Reactor systems: [month 36]	30/01/2016	Scientific and policy reports
														732	D732 Characterisations of fuels MOX-irr1 (M18)	CEA + JRC-ITU, M18 Complementary microanalysis: SEM and MET Gas retention - Knudsen cell	01/07/2016	Scientific and policy reports
														741	D741 Measurements of properties MOX-fresh1 (M36)	(CEA + JRC-ITU, M36) Melting temperature Vapour pressure	30/09/2016	Scientific and policy reports
														742	D742 Measurements of properties MOX-irr1 (M18)	D742 Measurements of properties MOX-irr1 (JRC-ITU, M18) Thermal diffusivity measurement in 2 radial positions, 2 axial positions Heat capacity: 1 position Vapour pressure: 2 positions	30/06/2015	Scientific and policy reports
														743	D743 Measurements of properties MOX-irr5 (M36)	D743 Measurements of properties MOX-irr5 (JRC-ITU, M36) Thermal diffusivity: 2 radial positions, 2 axial positions Heat capacity: 1 position	30/09/2016	Scientific and policy reports
														6121	Evaluation of the ASTRID core safety coefficients	D6.1.2-1: Evaluation of the ASTRID sodium cooled fast reactor, core safety coefficients: [draft M8, final M24]	30/01/2016	Scientific and policy reports
														1777 - 33218 TD OF SCK/CEN MOX 4 FRESH SAMPLES	Samples preparation and thermal diffusivity measurements for 4 fresh fuel samples.	JRC.E.3 Dragos STAIU	3.3.1.4.a	ENER
201601	Final report	Final report on samples preparation and thermal diffusivity measurements	30/09/2016	Validated methods, reference methods and measurements														
2211 - CORE-SOAR State of the art review of 'in vessel core degradation'	JRC-ITU will contribute to a State of the art review of 'in vessel core degradation' (last review performed in 1995). This is necessary in view of the large amount of experimental work (Phébus, QUENCH) and modelling developments (ASTEC, MELCOR) made in this period (eg. SARNET 1&2). It will be done with minimal funding to assist in Strategic Agenda funding priorities (for NUGENIA & elsewhere). Project coordinator: IRSN (T. Hastie), experts from other collaborators are also partners to NUGENIA.	JRC.E.2 Paul BOTTOMLEY	3.3.1.4.a	ENER	n/a	ENER.DG2.D.2, M. Boella		- VATTENFALL AB CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives EDF Energy - EDF Energy GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IRSN - Institut de Radioprotection et Sûreté Nucléaire KIT - Karlsruhe Institute of Technology KTH - KUNGLIGA TEKNISKA	01/01/2015 31/12/2017	5-Monitoring, verification and surveillance (30%) 7-Scientific, technical & policy consultancy (70%)		763 - CCM1 Characterization of off-vessel corium melt - Phase 1 722 - SAR-Phebus-Ip Fuel safety - volatile fission product releases from Phebus Ip samples	INS-RS	2015	State of the art intermediate report	Intermediate Report describing the progress, structure and extent of review.	31/12/2015	JRC Technical reports
														2016	State of the art Final report	Final Report describing the state of the art for fuel behaviour in the late stages of in-vessel core degradation.	31/12/2016	Scientific and policy reports
2242 - NARCO NNL Americium consolidation	Am is considered as the heat source for radiothermoelectric generators for space applications. In this project the pressing and sintering characteristics of AmO2 disks under up to six different Ar/H2/H2O atmospheres with either 0 ppm H2O or 1000-2500 ppm H2O is studied under contract with NNL, who are directly contracted by the European Space Agency (ESA)	JRC.E.4 Patrick LAJARGE	3.3.1.4.a	GROW	n/a	n/a		01/01/2015 31/12/2015	1-Foresight studies & techniques (100%)			COM-TW	224220151	Pelletisation of Americium dioxides	The results of the pressing and sintered density and sample microstructure will be presented	31/12/2015	JRC Technical reports	

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
3.3.1.4.b Development of innovative techniques for spent fuel and nuclear waste characterisation, including in preparation for decommissioning or remediation of site accidents;																		
126 - PELGRIMM PELGRIMM - Pellets versus granulates: Irradiation, Manufacturing & Modelling	PELGRIMM addresses Minor-Actinide (MA) bearing fuel developments for GIV Fast Reactor Systems. JRC synthesises and characterises fuel for the MARINE sub project, and prepares the irradiation capsule and follows the irradiation. JRC performs Post Irradiation Examinations of fuel from the SPHERE irradiation test. Furthermore, JRC models the fuel behaviour using its TRANSURANUS code.	JRC.E.4 DANIEL FREIS	3.3.1.4.b	RTD	RTD	Mykola Dziubinsky (RTD)	ENER	- RESEAU EUROPEEN POUR L'ENSEIGNEMENT DU NUCLEAIRE - LAGRANGE - AREVA NP GMBH* CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives EDF - Electricité de France EERA - European Energy Research Alliance	01/01/2012 31/12/2015	4-Methods and testing (100%)		451 - SANuC Safety Assessment of Nuclear Fuel Cladding (SANuC) 508 - RDSIF Reference data for the safety of irradiated fuels	COM-IA	12620161	SPHERE DE results	Post irradiation examination of two fuel pins from the SPHERE experiment to assess its safety performance during irradiation	30/12/2015	JRC Technical reports
259 - ESMDCM-1 Examination of stability of molten and damaged core materials after LWR severe accidents ESMDCM-1	The objective of this program is to characterize molten and damaged core materials under cooling and storage conditions after LWR severe accidents and obtain the data about their stabilities (leaching of fission products and actinides, microstructural changes that influence the mechanical properties, etc.). The data of this program will be effective for LWR severe accident management in the future, and also useful for the clean-up of Fukushima-Daiichi nuclear power plant.	JRC.E.5 Daniel SERRANO PURROY	3.3.1.4.b	ENER	n/a	n/a	ENER	SNETP - Sustainable Nuclear Energy Technology Platform (SNETP) - THE CENTRAL RESEARCH INSTITUTE OF E	19/12/2012 31/03/2016	4-Methods and testing (100%)		732 - CONWISA Corrosion of nuclear waste under intermediate storage and accident conditions	COM-TW	2	2014 JFY Annual Report	This report summarises the main outcomes obtained in 2014 Japanese Fiscal Year: - Corrosion rates of Spent Nuclear Fuel (burn-up of 60 Mwd/Kg HM) in dionised water, sea water, boric acid water and hydrazine water.	31/03/2015	Scientific and policy reports
728 - StoS Spent Nuclear Fuel Storage Studies, Phase A	Safety issues associated with spent fuel storage are objects of investigation at JRC-ITU. Assessment of possible impact on the structural integrity and behaviour of the spent fuel rod system during storage and its response to accidental conditions associated e.g. with accidents during handling or transportation is performed.	JRC.E.2 Dimitrios PAPAIOANNOU	3.3.1.4.b	ENER	n/a	M. Boella, ENER D.2	ENER	- AREVA NP GMBH* BAM - Bundesanstalt für Materialforschung und Prüfung (BAM) CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives	01/01/2014 31/12/2015	4-Methods and testing (100%)		121 - FIRST-NUCLIDES FIRST-NUCLIDES Fast / Instant Release of Safety Relevant Radionuclides from Spent Nuclear Fuel 215 - PIE AREVA Post Irradiation Examination	INS-RS	4	Impact tests on fuel segments	The main question put by European and international authorities involved in nuclear fuel transports to be answered concern the amount of fuel released during transport accidents. The recently developed and installed in a hot cell device will be used at the Institute for Transuranium Elements (ITU) to simulate fuel rupture events under impact loads.	31/12/2015	JRC Technical reports
763 - CCM1 Characterization of off-vessel corium melt - Phase 1	In view of the future challenges for site remediation faced in Fukushima, in particular the impact of off-vessel molten corium, a study on real off-vessel corium from the Chernobyl accident is performed as well as on 'hot particles' found in the vicinity of the Chernobyl site. This project includes gamma-spectrometry, tools and sample preparation for in-depth investigations, including measurements by EPMA, SEM, TEM, and Laser Flash.	JRC.E.2 PHILIPP POEML	3.3.1.4.b	ENER	n/a	ENER D.2, M. Boella	DEVCO	- Institut National de Recherche et de Sécurité GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IGD - TP - Implementing Geological Disposal of Radioactive Waste Technological Platform NUGENIA - Nuclear Generation II & III Association	01/01/2014 31/12/2016	4-Methods and testing (100%)	JRC.E.3	215 - PIE AREVA Post Irradiation Examination of commercial LWR fuel from German reactors 511 - EPWAS Evolution of fuels and waste forms in storage and disposal conditions 597 - CAST CAST - Carbon 14 Source Term 707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1 722 - SAR-Phebus-1p Fuel safety - volatile fission product releases from Phebus	INS-RS	4	SEM studies on off-vessel corium ceramics	Technical report on the results of scanning electron microscopy (SEM) studies of the corium and Chernobyl ceramics. This includes studies on the original surface of the material as well as studies on polished cross-sections of the samples.	31/12/2015	JRC Technical reports
														5	EPMA studies on off-vessel corium ceramics	Technical report on the results of electron probe micro-analysis (EPMA) studies of the Chernobyl ceramics. This includes studies on the original surface of the material as well as studies on polished cross-sections of the samples.	31/12/2015	JRC Technical reports
														8	TEM of off-vessel corium samples	Technical report on the results of transmission electron microscopy (TEM) studies on the Chernobyl ceramics.	31/12/2016	JRC Technical reports
														9	Laser Flash studies on Chernobyl ceramics	Laser Flash studies on off-vessel corium ceramics	31/12/2016	JRC Technical reports
														10	Studies on Chernobyl ceramics	Publication presenting the results and conclusions from the initial phase of the project.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														11	Studies on off-vessel corium ceramics	Final report on the initial phase of the investigations of the corium and Chernobyl samples.	31/12/2016	JRC Technical reports
859 - DECOtwice Decontamination, decommissioning and upgrade of equipment	The equipment installed in hot cell undergoes continuous maintenance and upgrading; obsolete facilities are decontaminated and decommissioned. Optimization tests to improve dismantling operations and, in parallel, preliminary testing of new experimental facilities will be carried out; it includes a drying system for wet, defective spent fuel (SF) rods, a system to apply vibration to SF rods, a focused ion beam (FIB) to prepare small specimens for analysis, a setup for creep tests on SF rods.	JRC.E.2 Dimitrios PAPAIOANNOU	3.3.1.4.b	ENER	n/a	M. Boella, ENER D.2	ENER	- AREVA NP GMBH* BAM - Bundesanstalt für Materialforschung und Prüfung (BAM) CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CRIEPI - Central Research Institute of Electric Power Industry CSN - Consejo de Seguridad	01/01/2014 31/12/2016	3-Instrumentation & hardware (100%)		215 - PIE AREVA Post Irradiation Examination of commercial LWR fuel from German reactors 707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1 722 - SAR-Phebus-1p Fuel safety - volatile fission product releases from Phebus	INS-RS	45	Renovation of cell, preparatory work	Preparatory work for renovation of cell (in view of staff reduction) for deliverable 50 postponed to 2016	30/12/2015	Technical systems
														50	Renovation of the lead cell No.2	The active waste and the old caisson will be removed. Electrical, Gas and Water connections will be refurbished. The pneumatic post system will be checked for proper functioning. The new glove box will be installed.	30/12/2016	Technical systems
														60	Installation of the FIB equipment in a lead cell	The recently purchased FIB equipment after a series of cold tests will be correspondingly prepared and installed in a refurbished lead cell (foreseen in the lead cell Nr. 1).	30/12/2016	Technical systems
2720 - AUTORAD Automated platform as a miniaturization tool for radiochemical analysis	This project addresses the development of rapid, sensitive and selective sensors for the determination of targeted radionuclides for different applications using a flow-based approach, allowing monitoring operations where at-site or in situ measurements are more effective than traditional sampling and manual laboratory analyses. Reduced worker exposure to radioactivity, improved safety, higher throughput, low costs and miniaturization are the principle advantages of this innovative approach.	JRC.E.5 Laura ALDAVE DE LAS HERAS	3.3.1.4.b	JRC	n/a	n/a	GROW RTD		01/01/2015 31/12/2016	4-Methods and testing (100%)	JRC.D.4		INS-ER	10	Prototype design & development	Flow system design and construction. Flow system development.	30/09/2015	Technical systems
														20	Prototype deployment: testing & validation	Optimisation of variables and determination of the main analytical parameters. Method validation.	01/05/2016	Technical systems
														30	Prototype Applications	Application of the prototype developed to real samples from different origin: nuclear, environment. Comparison with classical methods.	01/12/2016	Validated methods, reference methods and measurements
														40	Summary on sequential injection Lab-on-a-Valve	Contribution summarising the results on the sequential injection Lab-on-a-Valve platforms for the determination of targeted radionuclides	30/11/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														50	Automated platforms potential transfer	Prospection and critical evaluation of the potential applications to other fields and methods.	31/12/2016	Scientific and policy reports
3.3.1.4.c Preparation and delivery of reference samples and scientific data on the properties of spent fuel to reduce the radiological toxicity of wastes, closing the fuel cycle strategies as well as safety assessment of recycling technologies;																		
19 - FAIRFUELS FAIRFUELS - Fabrication, Irradiation and Reprocessing of FUELS and targets for Transmutation	Fabrication, Irradiation and Reprocessing of FUELS and targets for Transmutation provides a way towards a more efficient use of fissile material in nuclear reactors. The JRC fabricates the fuel for the SPHERE project, prepares the irradiation capsule, follows the irradiation and its evaluation. The aim of Fairfuels is to improve the knowledge in the area of fuels and targets to form a basis for the development of future demonstration systems	JRC.E.4 Joseph SOMERS	3.3.1.4.c	RTD	RTD	Georges van Goethem (RTD)	ENER	- SERCO LTD - IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE - LAGRANGE - Chalmers University of Technology CIEMAT - Centro de Investigaciones Energéticas Medioambientales Tecnológicas EERA - European Energy Research Alliance	01/02/2009 31/07/2015	4-Methods and testing (100%)	JRC.E.2	451 - SANuC Safety Assessment of Nuclear Fuel Cladding (SANuC)	COM-IA	1920141	Futurix FTA CerMet Destructive PIE	destructive examination will be carried out in the ITU hot cells facility and will consist in: Gas puncturing and analysis, pin cutting, pellets removal and metrology, density measurements, ceramographies (2 pellets), SEM examination and EPMA examinations	28/06/2015	JRC Technical reports
204 - SACSESS SACSESS - Safety of Actinide Separation processes	SACSESS project focus on the safety in partitioning and recovery of actinides in advanced fuel cycles. ITU tasks are the development of a hydrometallurgical process to separate only trivalent americium from high active waste solutions, as well as a hot cell demonstration of the process using a genuine fuel solution. The pyrometallurgy tasks are the development of exhaustive electrolysis and electroreduction techniques as well as demonstration of electrorefining using irradiated metallic fuels.	JRC.E.5 Pavel SOUCEK	3.3.1.4.c	RTD	RTD	Michel Hugon DG RTD K.4	ENER	- University of Edinburgh - Nuclear Research Institute Rez - Czech Technical University in Prague - LAGRANGE - UNIVERSITY OF LEEDS - UNIVERSITA DEGLI STUDI DI PARMA - Chalmers University of Technology - Lancaster University - University of Manchester - University of Twente	01/03/2013 28/02/2016	4-Methods and testing (85%) 9-Education & training (15%)		431 - REACT Actinide recovery and recycling	COM-IA	12	Half yearly beneficiary activity report 4	ITU project activity report, delivered every 6 months to the consortium partners.	31/03/2015	Scientific and policy reports
														13	Half yearly beneficiary activity report 5	ITU project activity report, delivered every 6 months to the consortium partners.	30/09/2015	Scientific and policy reports
														14	Half yearly beneficiary activity report 6	ITU project activity report, delivered every 6 months to the consortium partners.	31/03/2016	Scientific and policy reports
														30	Exhaustive electrolysis process	Performance of the exhaustive electrolysis process. Scientific report to the SACSESS program	30/04/2016	Scientific and policy reports
														40	Electroreduction of CERMET fuels	Scientific report on the electroreduction of CERMET fuels to the SACSESS program	31/10/2015	Scientific and policy reports
431 - REACT Actinide recovery and recycling	This internal project covers basic and applied research on the chemical recovery and purification of actinides for recycling in advanced fuel cycle schemes. Separation schemes based on hydrochemical (aqueous) as well as pyrochemical (both molten chloride and fluoride salts) methods are considered. The project with its basic aspects underpins and complements the ongoing research on actinide recovery carried out especially in the European collaborations, e.g. SACSESS and EVOL.	JRC.E.5 Rikard MALMBECK	3.3.1.4.c	ENER	n/a	M. Boella	ENER	ESNII - European Sustainable Nuclear Industrial Initiative SNETP - Sustainable Nuclear Energy Technology Platform (SNETP)	01/01/2014 31/12/2016	4-Methods and testing (100%)	JRC.E.3	204 - SACSESS SACSESS - Safety of Actinide Separation processes	INS-RS	1	Electrochemistry of An in molten fluoride salt	Scientific publication about the electrochemical behaviour of an actinide (likely either Th, U or Pu) fluoride in molten LiF-CaF2 salt melt.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Spectrophotometric study on AnCl3 in LiCl-KCl	This publication will describe the first study in the new set-up combining electrochemical (oxidation state change) and spectrophotometric (UV-vis, Raman, or TRLF) investigations of actinides in chloride molten salts	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Set-up for molten salt spectrochemistry	This report describes the set-up and active commissioning of the set-up for combined electro and spectrochemistry of actinides in molten chloride salts.	30/06/2015	Technical systems
														5	Active commissioning of glovebox chain	This technical report describes the new glovebox chain for hydrochemical investigations of separation systems for advanced fuel cycles.	31/03/2016	Technical systems
														6	Separation of Cm from Am	This publication describes a novel separation scheme for separation and purification of Cm from Am.	01/07/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
515 - INFEST INnovative FuEl SafeTy	Mixed Uranium and Plutonium oxide nitrides and carbides will be produced in a purity not attainable today using novel organometallic routes. Thus these high purity samples especially for the carbides and nitrides will enable a conclusive determination of their properties and safety assessment. Further, the potential safety risks of both plutonium dioxide and MOX during interim storage via a vis humidity interaction and hydrogen generation will be assessed.	JRC.E.4 ALICE SEIBERT	3.3.1.4.c	ENER	n/a	M. Boella		- Hungarian Academy of Sciences AREVA NP - AREVA NP Main Company CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives EERA - European Energy Research Alliance ENEA - Agenzia Nazionale per le Nuove Tecnologie, L'energia e lo Sviluppo Economico Sostenibile ESNII - European Sustainable Nuclear Industrial Initiative KIT - Karlsruhe Institute of Technology NRG - Nuclear Research and consultancy Group, NRG	01/01/2014 31/12/2016	4-Methods and testing (50%) 6-Reference materials and measurements (50%)		366 - MISSLaNS Modular Interface and Surface Science Laboratory for Nuclear Safety	INS-UR		51520151	Safe synthesis of high quality nitride fuels	Assessment of traditional routes to produce nitride or carbide fuel reveals safety limitations. Non nuclear research has switched to organometallic routes to produce such materials. New U and Pu bearing organic compounds will be prepared. Their controlled decomposition will provide new high quality nitride samples, enabling definitive assessment of the operational limits of such fuel forms.	31/12/2015	JRC Technical reports
								51520152							Interaction of humidity with PuO2 : an assessment	NMR, RAMAN and FTIR spectroscopic investigations will be performed on PuO2 powders exposed to controlled humidified atmospheres to understand and determine decomposition pathways, release and recombination mechanisms, along with oxidation of PuO2 itself. Also surface investigation methods will be applied depending on their availability.	31/12/2015	JRC Technical reports	
								51520161							Safe synthesis of carbide fuel	For the first time organometallic routes will be deployed as a means to achieve high purity uranium plutonium carbide samples essential for their property determination and ultimately safety assessment. Carbides are extremely pyrophoric and react with oxygen readily, making their synthesis extremely problematic.	31/12/2016	JRC Technical reports	
								51520162							Safe interim storage of PuO2: risk assessment	With an in depth knowledge of PuO2 oxidation and reduction of water and its recombination reactions, the safety of PuO2 storage will be assessed. The findings of this three year programme will be collated and published for a wider audience in a peer-reviewed periodical e.g. Journal of Nuclear Materials	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
516 - MANTRA Minor ActiNide incineration in nuclear reactors	Nuclear wastes toxicity (100000 years) can be reduced to less than 1000 years, if minor actinides are recycled. For their safety assessment, samples will be synthesised and their properties (and their evolution thereof) will be determined. These studies will focus on their structure, strength, heat transfer and interaction with coolant and cladding materials.	JRC.E.4 DANIEL FREIS	3.3.1.4.c	ENER	n/a	M. Boella		EERA - European Energy Research Alliance ENEA - Agenzia Nazionale per le Nuove Tecnologie, L'energia e lo Sviluppo Economico Sostenibile ESNII - European Sustainable Nuclear Industrial Initiative IRSN - Institut de Radioprotection et Sûreté Nucléaire KIT - Karlsruhe Institute of Technology NRG - Nuclear Research and consultancy Group, NRG SCK-CEN - Belgian Nuclear	01/01/2014 31/12/2016	4-Methods and testing (100%)		509 - NMEC Nuclear materials under extreme conditions	INS-UR		51620151	Neptunium target safety during a pin breach	Neptunium (20%) targets will be exposed to sodium and lead reactor coolants. At normal and off normal operating temperatures. Reaction product formation with the coolant will be assessed in relevant unscheduled conditions.	31/12/2015	JRC Technical reports
								51620152							Inert matrix fuels integrity	Inert matrix fuels are an essential feature for the transmutation of minor actinides in countries where nuclear phase out is foreseen. Limited information is available on their behaviour in pin breach conditions, which will be redressed in this deliverable.	31/12/2015	JRC Technical reports	
								51620153							Synthesis of U-Np oxide MOX targets	The synthesis and microstructural characterisation of U-Np bearing oxide fuels will be presented in a widely available peer reviewed journal. The data will include relation between green and sintered compact density, and shrinkage and crystal structure data.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
								51620161							Control rod fuel interaction	In severe off normal conditions, the fuel can interact with the neutron absorber (B4C) of the control rods. The interaction will be investigated dedicated diffusion couple in regular furnaces as well as when subjected to extreme conditions	31/12/2016	JRC Technical reports	
2050 - PyroTU PYROMETALLURGICAL PROCESSES JFY 2014	Demonstration and optimization of the pyrometallurgical processes using irradiated fuels and genuine high level liquid waste (HLLW). The programme of the current project consist of experiments on treatment of salt waste containing actinides, study on the electrorefining process using solid reactive Al cathodes and inert stainless steel cathodes and qualitative and quantitative analyses on TMI samples.	JRC.E.5 Laura ALDAVE DE LAS HERAS	3.3.1.4.c	JRC	n/a	n/a		CRIEPI - Central Research Institute of Electric Power Industry	01/04/2014 31/03/2016	4-Methods and testing (100%)		431 - REACT Actinide recovery and recycling	COM-TW		2014	Annual Activity Report JFY2014	Activity report containing the results of the experiment carried out during the Japanese fiscal year 2014. 1) Treatment of salt waste containing actinides. 2) Electrorefining tests on irradiated metallic fuels (METAPHIX experiments). 3) Irradiated fuel debris treatment tests (Three Mile Island samples)	31/12/2015	Scientific and policy reports
								2015							Annual Activity Report JFY 2015	Activity report containing the results of the experiment carried out during the Japanese fiscal year 2015:	30/06/2016	Scientific and policy reports	
2213 - SAINT Safety Assessment and Innovation of Nuclear fuel for Transmutation	Following Fukushima, greater emphasis is given to accident tolerant fuels (ATF). Though mainly for LWRs, the concept is applicable for fast reactor and transmutation fuels. Within this project, fuel restructuring mechanisms under normal and abnormal conditions will be investigated using volumetric heating methods, and ATF fuel concepts based on composites will be developed and assessed.	JRC.E.4 DANIEL FREIS	3.3.1.4.c	ENER	n/a	M. Boella		- Nuclear Research and Consultancy Group EERA - European Energy Research Alliance ENEA - Agenzia Nazionale per le Nuove Tecnologie, L'energia e lo Sviluppo Economico Sostenibile ESNII - European Sustainable Nuclear Industrial Initiative IRSN - Institut de Radioprotection et Sûreté Nucléaire KIT - Karlsruhe Institute of Technology SCK-CEN - Belgian Nuclear Research Centre SNETP - Sustainable Nuclear Energy Technology Platform (SNETP) UKNLL - National Nuclear	01/01/2015 31/12/2017	4-Methods and testing (100%)		516 - MANTRA Minor ActiNide incineration in nuclear reactors	INS-UR		221320151	Synthesis of composite fuel surrogate	Composite fuel surrogate samples will be synthesised based on an inert matrix (SiC) with embedded fuel surrogate particles (YSZ) produced by sol-gel method. Advanced pressing and sintering methods, such as SPS, will be utilised.	31/12/2015	JRC Technical reports
								221320152							Direct volumetric heating for separate effect test	A test set-up will be developed in order to perform direct volumetric heating for out-pile separate effect testing of nuclear fuel. First test will be performed on cold (non-radioactive) samples.	31/12/2015	JRC Technical reports	
								221320161							Synthesis of UO2 composite fuel pellets	Composite fuel samples will be synthesised based on an inert matrix (SiC) with embedded UO2 particles produced by sol-gel method. Advanced pressing and sintering methods, such as SPS, will be utilised.	31/12/2016	JRC Technical reports	
								221320162							Thermal and mechanical properties of SiC composite	Composite fuel surrogate samples will be characterised for their thermal and mechanical properties using different methods, such as ceramography, SEM, micro indentation, Laser Flash, Archimedes method and others.	31/12/2016	JRC Technical reports	
								221320163							Separate effect testing of SiC composite fuel surrogate	Separate effect tests will be performed on surrogate composite fuel samples using direct volumetric heating. Sample behaviour during simulated abnormal and accident conditions will be assessed.	31/12/2016	JRC Technical reports	
								221320171							Synthesis of MOX composite fuel pellets	Composite fuel samples will be synthesised based on an inert matrix (SiC) with embedded MOX particles produced by sol-gel method. Advanced pressing and sintering methods, such as SPS, will be utilised.	31/12/2017	JRC Technical reports	
								221320172							Separate effect testing of UO2 composite fuel	Separate effect tests will be performed on UO2 composite fuel samples using direct volumetric heating. Sample behaviour during simulated abnormal and accident conditions will be assessed.	31/12/2017	JRC Technical reports	
3.3.1.4.d Improve the scientific understanding of the physico-chemical mechanisms relating to the long-term behaviour of spent fuel and vitrified high level waste during long-term storage and in disposal scenarios.																			
366 - MISSLaNS Modular Interface and Surface Science Laboratory for Nuclear Safety	Ensuring the long term stability of nuclear waste requires detailed understanding of the surface corrosion mechanisms of these complex systems. To that purpose, simplified model systems are prepared and subjected to a defined corrosive environment. The evolution of the systems is monitored by surface analysis tools. To ensure ultimate process control, all sample preparation, reaction and analysis are done in one single surface science instrument, which will be used in different projects.	JRC.E.6 Thomas GOUDER	3.3.1.4.d	ENER	n/a	Maurizio Boella		- SKB INTERNATIONAL CONSULTANTS AKTIEBOLAG - Delft University of Technology - University of California, Los Alamos National Laboratory - University of Uppsala - UNIVERSITY OF BRISTOL - Academy of Sciences of the Czech Republic CU - Charles University Prague CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives IAEC - Israel Atomic Energy Commission KIT - Karlsruhe Institute of Technology LBL - Lawrence Berkeley National	01/01/2014 31/12/2016	3-Instrumentation & hardware (70%) 4-Methods and testing (30%)		548 - SPAM Spent fuel alteration mechanisms under long-term storage 515 - INFEST INnovative FuEl SafeTy	INS-UR		21	Study of Thin Films Model fuels	Preparation of actinide oxide films doped with fission products (noble metal particles at this stage) to be used as model fuel: Study of growth characteristics, morphology, composition and stability as function of mode of growth, substrate type and deposition conditions. Generation of fundamental data and process understanding of oxidative bulk dissolution of spent fuel and its inhibition by molecular hydrogen.	30/10/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
								22							Corrosion studies of waste model systems	The atomic force microscope will be modified for working under controlled atmosphere to simulate repository conditions. A specialized connection system will be developed to enable transfer from the samples reacted in the AFM to the rest of the surface diagnostic system (operating under vacuum). This unique instrumentation will be applied to important nuclear waste types to unravel the mechanisms of surface corrosion and dissolution under long term storage conditions.	31/12/2015	Technical systems	
								31							Commissioning report on nuclearization phase	After two year of full operation as open system, the surface science lab station will be open for work with transuranium materials. From that moment on, machine operation and maintenance will be more cumbersome. The initial phase will allow to ensure as well the flawless functionality of the complex system. A final report will be delivered. It will include a description of the closed system, and the safety release documents.	30/11/2016	JRC Technical reports	
								32							PhD Thesis	A PhD thesis on the study of surface corrosion reactions on actinide thin films will be defended at Delft university end of 2016. The grant goes from 09.2013 to 08.2016.	01/09/2016	PhD thesis	
511 - EFWAS Evolution of fuels and waste forms in storage and disposal conditions	Nuclear materials whether fuels (conventional, advanced), waste forms (glass, conditioning matrices) are subject to different types of radiation effects modifying their properties during operation or during storage or disposal. Radiation damage effects (fission, alpha-decay) and the impact of radiogenic inert gases (fission gases, helium) will be assessed for different materials (actinide doped ceramics or glass, fresh or irradiated fuels samples).	JRC.E.3 Thierry WISS	3.3.1.4.d	ENER	n/a	M. Boella, ENER D.2		121 - FIRST-NUCLIDES FIRST-NUCLIDES Fast / Instant Release of Safety Relevant Radionuclides from Spent Nuclear Fuel 237 - TALISMAN TALISMAN - Transnational access to large infrastructures 369 - SynCrysis4NS Samples Synthesis and Crystallographic Structure Studies for Nuclear Safety 506 - SPECTRE SeParate EffeCTs to impRove fuel safety in LWR cores 707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1 728 - StoS Spent Nuclear Fuel Storage Studies_Phase A 763 - CCM1 Characterization of off-vessel corium melt - Phase 1	01/01/2014 31/12/2016	4-Methods and testing (65%) 7-Scientific, technical & policy consultancy (20%) 9-Education & training (15%)			INS-RS		2	Solubility and behaviour of noble gases in glass	Experiments on the infusion of noble gases in nuclear waste glass and release experiments using gas desorption mass spectrometry.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
								3							Radiation damage in actinide based fuels	Microscopic analysis (transmission and scanning electron microscopy) of radiation effects in actinide fuels to study the aging with time	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
								4							Microstructure of irradiated fuel samples	Microscopic analysis (transmission and scanning electron microscopy) of irradiated fuels to study the radiation effects on the microstructure changes as a function of burnup and fuel type (UO2 vs. mixed oxide)	30/09/2015	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
								5							Helium release from mixed oxide fuels	Experiments on the infusion of helium in stoichiometric and non-stoichiometric polycrystalline mixed actinide oxide and release experiments using helium desorption mass spectrometry.	30/11/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	

JRC WORK PROGRAMME 2015 - 2016																																
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category														
548 - SPAM Spent fuel alteration mechanisms under long-term storage	Studies related to long-term storage of spent nuclear fuel (SNF) on alteration processes occurring under reducing conditions: - Poisoning of the SNF corrosion inhibiting effect of hydrogen by bromide - Interfacial corrosion processes under anoxic/reducing conditions by combining electrochemical techniques with analytical tools and surface spectroscopy - Oxidation and oxygen diffusion in UO2 and SNF - Analytics for surface properties and for leachates containing long-lived radionuclide	JRC.E.5 Paul CARBOL	3.3.1.4.d	ENER	n/a	Boella, M., EC-ENER, ENER.DDG2.D.2		- SKB INTERNATIONAL CONSULTANTS AKTIEBOLAG - STUDEVIK NUCLEAR AB ENRESA - Empresa Nacional de Residuos Radioactivos S.A. KIT - Karlsruhe Institute of Technology	01/01/2014 31/12/2016	4-Methods and testing (90%) 6-Reference materials and measurements (10%)	JRC.E.2 JRC.E.3 JRC.E.6 JRC.E.7	121 - FIRST-NUCLIDES FIRST-NUCLIDES Fast / Instant Release of Safety Relevant Radionuclides from Spent Nuclear Fuel 366 - MISSLAN Modular Interface and Surface Science Laboratory for Nuclear Safety 511 - EFWAS Evolution of fuels and waste forms in storage and disposal conditions 707 - SACA Fuel 1 Structural Analysis of Conventional and Advanced Fuels Phase 1 726 - StOS Spent Nuclear Fuel Storage Studies Phase A 732 - CONWISA Corrosion of nuclear waste under intermediate storage and accident conditions	INS-RS	1	Spent fuel characterisation	Identification of reactor fuel history, selection using specification, preparation (cutting, polishing, mounting) and characterisation of reference spent fuel samples for studies of fuel corrosion behaviour under repository condition.	30/10/2016	JRC Technical reports														
														3	Experiments on O-18 diffusion in UO2 and SNF	O-18 diffusion experiment in autoclave in hot cells, followed by shielded-SIMS analysis. Aim is to determine the oxygen-18 diffusion coefficient in spent fuel. Also parameters controlling the diffusion process in the simplified UO2 and SIMFUEL matrix will be studied and a comparison of O-18 diffusion in poly-crystalline UO2 and SIMFUEL with SNF will be made. Part is a deliverable in FIRST-Nuclides; due to experimental delay results will be delivered after end of project. Agreed with consortium.	29/12/2016	Scientific and policy reports														
														4	Methods to analyse Ac and FP in spent fuel	Innovative analytical procedures for determination and as well as localisation, isolation and speciation of long-lived fission products and actinides in nuclear fuels will be developed and validated. Independent analytical methods such as ICP-MS, ICP-OES, radiometry and microscopy will be employed for quality assurance of analytical results. This approach is necessary because matrix-matched radioactive certified reference materials are not available in most cases for analytical quality control.	30/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														5	Corrosion of UO2 and SF by electrochemical methods	Development of a setup for in-situ electrochemical measurement of corrosion potential of UO2 and spent fuel under anoxic/reducing conditions. The corrosion experiments on UO2 are performed in dedicated electrochemical cells attached to analysators such as XPS and AFM for measurement of surface properties, and can be performed without contact with any oxygen.	01/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														6	Corrosion of UO2 and SF in presence of H2 and Br	Experiment performed under reducing conditions (H2) studying the impact of disposal barrier systems and the elements which exist in natural groundwater, especially Br, on the hydrogen effect. The inhibited corrosion of SF by H2 could be offset by Br through reaction with hydrogen radicals and therefore need to be investigated. The experiments are important for long-term spent fuel disposal.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														8	Analytical method development	Innovative analytical procedures for the determination of long-lived fission products and actinides in nuclear fuels will be developed and validated. Independent analytical methods such as ICP-MS, ICP-OES and radiometry will be employed for quality assurance of analytical results. This approach is necessary because matrix-matched radioactive certified reference materials are not available in most cases for analytical quality control.	30/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														9	O-18 diffusion in UO2	Paper on O-18 diffusion in UO2+x obtained under oxidising and reducing conditions. The description of the modelled diffusion curve and mechanisms influencing the O diffusion coefficient in UO2+x will be described.	17/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														594 - LASTING Long term stability of vitrified waste: Irradiation damage	Reprocessing plants recover U and Pu from spent nuclear fuel. Minor actinides and fission products are vitrified in borosilicate glass. Dedicated samples will be produced and the impact of self irradiation on the structure will be determined by multinuclear NMR, a frontier technique for structure elucidation of glassy materials for permitting its crucial long term stability assessment. This is only now possible and only at the JRC.	JRC.E.4 LAURA MARTEL	3.3.1.4.d	ENER	n/a	Maurizio.BOEELLA@c.europa.eu	AREVA NP - AREVA NP Main Company CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives ESNII - European Sustainable Nuclear Industrial Initiative GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IAEA - International Atomic Energy Agency (IAEA) IGD -TP - Implementing Geological	01/01/2014 31/12/2016	4-Methods and testing (100%)			59420151 59420152 59420161	INS-ER	59420151	Glass Structural evolution with damage	Glass samples produced in 2014 will be analysed punctually using spectroscopic methods (infra red and NMR). The following aspects will be determined: variation of the speciation of the main network former (B,Si,Al) (i.e. change in first coordination sphere), variation of local environment of non framework cations (sodium, lithium, calcium), cation clustering, crystallisation and/or devitrification. Change in building units connectivity	31/12/2015	JRC Technical reports
																												59420152	Simulation of radiation damage in glass	The results of this programme will be published in dedicated reputable journal for a wider audience. The methods used and the characteristics of the glass will be presented in detail, along with the expected output of the programme.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
59420161	Vitrified waste structural stability assessment	Analysis of the glass samples will be continued during this final year of the project. The structural evolution and long term stability of the glass will be assessed and reported.	31/12/2016	JRC Technical reports																												
732 - CONWISA Corrosion of nuclear waste under intermediate storage and accident conditions	This project has an emphasis on intermediate waste storage and nuclear accidental scenarios and addresses: - Radionuclide release from nuclear waste under intermediate disposal including Instant Release Fraction. - Radionuclide release from spent fuel and high active waste under severe accident scenarios. - Development of innovative analytical techniques for nuclear waste characterisation.	JRC.E.5 Daniel SERRANO PURROY	3.3.1.4.d	ENER	n/a	ENER D.2, M. Boella	- SKB INTERNATIONAL CONSULTANTS AKTIEBOLAG ENRESA - Empresa Nacional de Residuos Radioactivos S.A. IRSN - Institut de Radioprotection et Sûreté Nucléaire SNETP - Sustainable Nuclear Energy Technology Platform (SNETP)	01/01/2014 31/12/2016	4-Methods and testing (50%) 5-Monitoring, verification and surveillance (50%)	JRC.E.2	105 - DRYEX Dry-out experiments of High Level Liquid Waste 121 - FIRST-NUCLIDES FIRST-NUCLIDES Fast / Instant Release of Safety Relevant Radionuclides from Spent Nuclear Fuel 129 - ESMDCM-1 Examination of stability of molten and damaged core materials after LWR severe accidents ESMDCM-1 548 - SPAM Spent fuel alteration mechanisms under long-term storage	INS-RS	2	Radionuclide Release from molten nuclear fuel	Oral presentation in MRS 2014 about results concerning radionuclide release from molten spent nuclear fuel.	31/12/2015	Oral presentations															
													3	Determination of Sr-90 by FIA-ICPMS	Determination of Sr-90 at ultratrace levels using an automated chromatographic system coupled to high resolution ICPMS. Applicability to corrosion studies in Fukushima accident conditions (sea water).	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index															
													4	2015 Annual Report ENRESA-CTM-ITU	Report about progresses made in ENRESA-CTM-ITU collaboration during 2015. Instant Release Fraction studies in cement-water. Secondary phase formation studies in ground water corrosion experiments.	31/12/2015	JRC Technical reports															
													5	Summary of Instant Release Fraction experiments	Contribution summarising the results of experiments on Instant Release Fraction to study the effect of irradiation history in the release of the most labile radiotoxic elements in the environment. It will be published in a peer reviewed Journal.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index															
													7	CRC-ICPMS analytical methods implementation	Implementation of specific analytical methods for long-life β-emitters in spent nuclear fuel leachates using Collision Reaction Cell ICPMS (Nexion 300) and flow injection analysis.	31/12/2015	Technical systems															
3.3.2 Nuclear security including: nuclear safeguards, combating illicit trafficking and nuclear forensics																																
3.3.2.1 Nuclear safeguards																																
3.3.2.1.a Development of improved and new methods for the verification of nuclear material during Euratom inspections by non-destructive measurements. Operational support to the implementation of the Euratom nuclear safeguards regime.																																
708 - DEFECT Partial defect verification for spent nuclear fuel	IAEA, EURATOM and Finland need verification means for the completeness of VVER-440 elements prior to encapsulation, with high priority (IAEA ASTOR meeting 2012, ENER request June 2013). DEFECT contributes developing a Single Photon Emission Computer Tomograph SPECT (IAEA projects JNT 1510, JNT A 1955). It studies alternative methods in case SPECT cannot solve to task for physics reasons. The methods are required most urgently in FI, but as well at other encapsulation plants.	JRC.E.8 Reinhard BERNDT	3.3.2.1.a	ENER	n/a	Head of Unit ENER.E.1-P. Meylemans	IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	3-Instrumentation & hardware (15%) 4-Methods and testing (55%) 9-Education & training (30%)		684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 709 - PuGAM Enhanced data treatment of Pu gamma spectra	INS-RS	7082	Performance of a SPECT Spent Fuel Tomograph	The document describes the performance of a SPECT Spent Fuel Tomograph both in laboratory tests and in field trials with real spent fuel - under water or dry, depending on the availability of test locations.	31/10/2015	Validated methods, reference methods and measurements															
													7083	Defect Verification with SPECT - Field Experience	The document describes field experience with SPECT for VVER-440 fuel, both the method and the technical implementation.	31/12/2016	Scientific information systems and databases															
													7084	Pu isotopic composition by gamma spectrometry	This training course for EURATOM and IAEA nuclear safeguards inspectors teaches the physics background and the main measurement methods for determining the isotopic composition of Pu and MOX	15/12/2015	Training															
													7085	235U mass determination for safeguards	This training course for EURATOM and IAEA nuclear safeguards inspectors gives an introduction to using the dedicated four detector setup for the 235U mass determination with the software USMTR	10/12/2015	Training															
709 - PuGAM Enhanced data treatment of Pu gamma spectra	Pu gamma spectra are evaluated automatically by EURATOM inspectors in bulk handling facilities. The comparison of the evaluation results with declared isotopic compositions can be improved if the covariances between the isotopic abundances are known and used for the data evaluation. The project aims at determining such covariances for typical isotopic compositions and typical planar Ge detectors, including complementary MCNP GAMMA modelling for the detectors in specific measurement situations.	JRC.E.8 Reinhard BERNDT	3.3.2.1.a	ENER	n/a	Meylemans Paul	IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	4-Methods and testing (70%) 9-Education & training (30%)		666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations 684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 708 - DEFECT Partial defect verification for spent nuclear fuel	INS-RS	7091	Equipment testing of new NDA instrumentation	Support for equipment testing of new NDA instrumentation: report on correlated neutron counting with MCA-527	30/06/2015	JRC Technical reports															
													7092	Training module: Uranium enrichment by MGAU	This training module for EURATOM nuclear safeguards inspectors is performed at Luxembourg and practices enrichment determination with MGAU	31/07/2015	Training															
													7093	Training: Uranium enrichment by gamma spectrometry	This training course for EURATOM and IAEA nuclear safeguards inspectors teaches the physics background and the main measurement methods for gamma spectrometric enrichment determination.	20/12/2015	Training															
													7094	Training module: RADAR/CRISP/IRAP	Support for training inspectors on ENER's RADAR/CRISP/IRAP software	31/12/2015	Training															
													7095	Implementation of Enhanced Pu Spectrum Evaluation	The document describes the implementation of new methods from the comparison of measured and declared isotopic abundances of Pu using covariances.	31/12/2015	Scientific and policy reports															
													7096	Upgrade of HEU MTR verification system	Upgrade of HEU MTR verification system at Cerca (final report)	31/12/2015	JRC Technical reports															
7097	U enrichment determination by gamma spectrometry	This training course for EURATOM and IAEA nuclear safeguards inspectors practices gamma spectrometric enrichment determination methods for UF6 cylinders, 220l drums and DW70 cubes	01/06/2016	Training																												

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
710 - ACTIVE-N Optimization of instrument parameters for pulsed neutron interrogation	Mass determination of fissile materials in the PUNITA facility requires precise optimization of components such as neutron counter modules, moderator materials, and detector electronics. New experimental configurations as well as recent modifications to the facility have impacted on the combined performance of the facility. Re-calibration of certain neutron parameters is required for specific experimental configurations. The MCNP simulation of the facility will be updated accordingly.	JRC.E.8 Bent PEDERSEN	3.3.2.1.a	ENER	n/a	Head of Unit ENER.E.1-P. Meylemans		IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	3-Instrumentation & hardware (40%) 4-Methods and testing (60%)		666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations 882 - ACVT Research on Novel Verification Technologies and Applications 884 - IAEA-ECSP Coordination of EC Support Programme to IAEA 711 - SNM-DETECT Coincidence signature by pulsed neutron interrogation for SNM detection	INS-UR	2	Calibration of the neutron detectors in PUNITA	Technical report on the absolute calibration of the neutron detection system on the updated PUNITA configurations including target emission to source monitor calibration, the absolute efficiency of fission neutron counters, and thermal flux calibration. The work includes updating of the MCNP geometry, and comparison of measured to MCNP calculated performance values for specific configurations.	30/12/2015	Technical systems
														3	Passive neutron course for Euratom inspectors	Hold the one-week passive neutron course for Euratom inspectors. Both spring and autumn sessions are planned. An additional effort is required this year to update the course material to adapt to the present course structure. (Link to "training project")	31/12/2016	Training
														4	Neutron interrogation in special applications	Pulsed neutron interrogation allows the assay of both uranium and plutonium based weapons components. Also fissile mass in the presence of a high spontaneous fission component (such as spent fuel) is conveniently assayed by active interrogation. The aim is to evaluate the feasibility of neutron interrogation to specific assay tasks e.g. arms verification.	31/12/2016	Validated methods, reference methods and measurements
														5	Active neutron correlation analysis	The standard method for mass determination using a pulsed neutron source is the differential die-away method. By combining this method with the neutron correlation method as using in standard passive assay a lower limit of mass determination can be achieved. Requires a list-mode analyzer such as the MCFA, and a well-tuned experimental facility such as PUNITA. The first test results on small fissile quantities will be reported in a scientific publication.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
989 - Gamma/neutron UP2 Gamma/neutron UP2	Following the installation of upgraded gamma measurement stations, two more systems of this kind shall be installed by DG ENER at UP2. The technical environment at the two measurement places in UP2 is different from that at UP3, hence modifications of the UP3 solution are required.	JRC.E.8 Reinhard BERNDT	3.3.2.1.a	ENER	n/a	Head of Unit ENER.E.2-S. Synetos		708 - DEFECT Partial defect verification for spent nuclear fuel 709 - PuGAM Enhanced data treatment of Pu gamma spectra	01/10/2013 02/12/2015	3-Instrumentation & hardware (100%)			COM-AA	1	field measurement	E8 makes field test measurements with a CP-5 cooled Ge detector of the Canberra crystal type GL0510 or G10515 in a Faraday cage, both on UP2 ENTRY and UP2 EXIT, to confirm the suppression of local electromagnetic disturbances (esp. at UP2 EXIT) with the latest design as applied at UP3. The detectors (property of DG ENER), the Faraday cage and the complete spectrometry chain and data transfer line (property of JRC) are available for this test.	31/12/2014	Technical systems
														2	proposals	Based on these measurements and the existing instrument configuration, proposals for the collimation of the gamma radiation will be made. The aims of potential modifications are to guarantee a sufficiently high gamma count rate and to guarantee that the gamma detector "sees" Pu also in cases where not all of the containers in the chassette are filled with Pu. Moreover, a setup of the Faraday cage at UP2 EXIT, which requires a modification of the biological shield will be proposed.	31/12/2014	Technical systems
														3	final report	Final report on the project	02/12/2015	JRC Technical reports
3.3.2.1.b Research and development of methods and standards to further improve the analysis of safeguards' samples including highly sensitive trace and particle analysis to allow detection of abnormal operating conditions or undeclared activities. Operational support to the Euratom inspection regime by analysis of safeguards samples, in reprocessing plants and enrichment or fuel fabrication facilities, including on-site support and development and production of reference material.																		
276 - OSL-LSS On-Site Laboratories OSL and LSS & COMPUCEA 2014 / 2015	The Euratom On-Site Laboratories at nuclear reprocessing facilities in La Hague (F) and Sellafield (UK) are operated on behalf of DG Energy. Nuclear material entering and leaving the facilities is measured by a team of inspector-analysts on weekly detachments from ITU. The activity is a long-term commitment between the JRC and DG Energy since 1999. COMPUCEA: The physical inventory at uranium fuel fabrication plants is determined on-site on behalf of DG Energy and IAEA.	JRC.E.7 Karin CASTELEYN	3.3.2.1.b	ENER	ENER	Ferenc Lipcsei, DG-ENER.E, EUFO 03/380		IAEA - International Atomic Energy Agency (IAEA)	01/04/2013 31/12/2015	3-Instrumentation & hardware (30%) 4-Methods and testing (30%) 5-Monitoring, verification and surveillance (40%)		700 - NSRD Nuclear Safeguards R&D 823 - ENER analysis Nuclear material and trace particle analysis for DG ENER 865 - AnSafe Analytical Support to safeguards authorities	COM-AA	3	Report 01/2015 Exploitation of the OSLs	The second report of three giving an overview of the activities in LSS and OSL from 01.11.2014 until 28.02.2015.	15/03/2015	JRC Technical reports
														4	Report 02/2015 Exploitation of the OSLs	The third report of three giving an overview of the activities in LSS and OSL from 01.03.2015 until 30.06.2015 summarising the activity of the LSS La Hague and OSL Sellafield during the contract year from 1.7.2014 until 30.6.2015.	15/07/2015	JRC Technical reports
														5	Report 03/2015 Exploitation of the OSLs	The first report of the renewed AA gives an overview of the activities in LSS and OSL from 01.07.2015 until 31.10.2015 summarising the activity of the LSS La Hague and OSL Sellafield during the contract year from 01.07.2015 until 30.06.2016.	15/12/2015	JRC Technical reports
														7	Sample results 2014 - 2015	Analysis results of the various samples analysed.	15/07/2015	JRC Technical reports
626 - NS-RefMat Actinide isotope reference materials for nuclear safeguards and security	Development of certified actinide reference materials fulfilling the JRC's obligation to implement requirements in line with the Article 8 and Annex V of the Euratom Treaty, the Treaty on the Non-Proliferation of Nuclear Weapons (NPT, INFCIRC/140) and the additional protocol (INFCIRC/540). These CRMs are provided to customer DGs, the IAEA via the EC Support programme and to Member States	JRC.D.4 Yetunde AREGBE	3.3.2.1.b	ENER	n/a	Peter SCHWALBACH (DG ENER.E.1.2)	GROW JRC	- Seibersdorf laboratories - IAEA - BRITISH NUCLEAR GROUP SELLAFIELD LT - URENCO NEDERLAND BV* AREVA NP - AREVA NP Main Company IAEA - International Atomic Energy Agency (IAEA) JAEA - Japan Atomic Energy Agency JNFL - Japan Nuclear Fuels Limited (JNFL) - Japan KAERI - Korea Atomic Energy Research Institute NMCC - Nuclear Material Control Center (NMCC) - Japan PSI - Paul Scherrer Institute	02/01/2014 31/12/2016	6-Reference materials and measurements (70%) 9-Education & training (30%)		684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 700 - NSRD Nuclear Safeguards R&D	INS-RS	5	IRMM-049e and 049f certificate	Certified Pu-242 isotopic reference material	06/12/2015	Reference materials
														6	IRMM-049e and 049f certification report	A report on the certification of a new IRMM Pu-242 isotopic reference material	01/12/2015	Scientific and policy reports
														7	IRMM-1027q certificate	Certificate of 1200 units of IRMM-1027q provided to DGENER onsite laboratories in Sellafield and La Hague and to JNFL-Japan	30/05/2015	Reference materials
														8	Development of new Thorium CRM	A publication on the development of a new Thorium reference material required for method validation in nuclear forensics and Earth Sciences	13/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														9	Development of a new americium CRM	A publication on the development of a new americium reference material required for method validation in nuclear forensics and safeguards	01/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														10	IRMM-1027q certification report	A report on the certification of a new batch of IRMM-1027q for fissile material control of irradiated nuclear fuel, provided on a regular basis to EURATOM and international authorities and industry	01/07/2015	Scientific and policy reports
														11	IRMM-1027r certificate	Certificate of 1200 units of IRMM-1027r provided to DGENER onsite laboratories in Sellafield and La Hague and to JNFL-Japan	10/03/2016	Reference materials
														12	IRMM-1027r certification report	A report on the certification of a new batch of IRMM-1027r for fissile material control of irradiated nuclear fuel, provided on a regular basis to EURATOM and international authorities and industry	31/12/2016	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
700 - NSRD Nuclear Safeguards R&D	Nuclear Safeguards R&D develops cutting-edge S/T instruments and techniques required for the safeguardability of fuel cycles in close co-operation with authorities (DG ENER, IAEA). The focus is on NDA and chemical plus mass-spectrometric methods. The experience from present fuel cycles serves to develop safeguards concepts and material analysis strategies for alternative fuel cycles. NSRD provides analytical technologies to other JRC Projects in the fuel cycle domain.	JRC.E.7 Klaus LUETZENKIRCHEN	3.3.2.1.b	ENER	n/a	Paul Meylemans	DEVCO HOME	- Direction of Military Applications (CEA) - Seibersdorf laboratories - IAEA ABACC - Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials CETAMA - Commission d'ETablissement des Methodes d'Analyse du CEA (CETAMA) France EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) JAEA - Japan Atomic Energy Agency KINAC - Korean Institute of Nuclear Non-proliferation and Control NBL - New Brunswick Laboratory (NBL), US NMCC - Nuclear Material Control Center (NMCC) - Japan ORNL - Oak Ridge National Laboratory US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	3-Instrumentation & hardware (30%) 4-Methods and testing (30%) 6-Reference materials and measurements (40%)	JRC.D.4 JRC.E.8	239 - ABACC Safeguards Strengthening the Safeguard Capabilities of ABACC 241 - NDT Nuclear Detection Training 276 - OSL-LSS On-Site Laboratories OSL and LSS & COMPUCEA 2014 / 2015 626 - NS-RefMat Actinide isotope reference materials for nuclear safeguards and security 630 - NS-QualControl Quality control tools for standardisation in the field of nuclear security and safeguards 684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 734 - Particles Particle analysis for nuclear safeguards verification 823 - ENER analysis Nuclear material and trace particle analysis for DG ENER 865 - AnSafe Analytical Support to safeguards authorities 903 - NUFOR Nuclear Forensics method and signature development 925 - SUCAB Support capacity building in nuclear security through training at EUSECTRA	INS-RS	7001	EC-SP IAEA: Chemical separation robot	ITU and IAEA are co-developing an automated chemical preparation system for use at reprocessing facilities. Actinide solutions are manipulated with minimum human intervention, a high throughput, lower doses and fall rate than manual processing. IAEA will support the software development. ITU will provide hardware specifications. IAEA foresees implementation at its Seibersdorf and Rokkasho laboratories (with NMCC), ITU at the OSL and LSS plus in-house. The work is within task EC-A-01391.	30/06/2015	Technical systems
														7002	EC-SP IAEA: Highly-active waste at Rokkasho RP	The aim is to develop a non-destructive method - based on HKED densitometry - for determining the plutonium content of High-Active Liquid Waste samples at the IAEA On-Site Laboratory at Rokkasho reprocessing plant in Japan. These samples contain sedimented solid particles. Presently, only Pu in solution can be measured. The new method will enable measuring Pu in the particles as well (within IAEA support project JNT-A-01946 "Analysis of HALW Samples containing Particles").	31/12/2015	JRC Technical reports
														7003	EC-SP IAEA: Medium-resolution gamma spectra	ITU is recording high-quality medium resolution gamma spectra from enriched U and Pu certified references. The aim is to (i) complement the international database of reference gamma-ray spectra with high-quality data for medium resolution spectrometers, and (ii) to feed phase I of the U/Pu isotopic codes inter-comparison jointly organized by the ESARDA NDA Working Group and IAEA (within EC IAEA task JNT-A-01684 "Sustainability and Maintenance of Software for Pu isotopes and U-enrichment")	30/06/2016	Validated methods, reference methods and measurements
														7005	EC-SP IAEA: Verification of mixed U-Pu spikes	Nuclear material accountability requires lowest, state-of-the-art uncertainties. Isotope dilution mass spectrometry is used with a Large Size Dried (LSD) spike prepared from Pu and U reference materials. IAEA, JAEA and IRMM are producing LSD spikes for, e.g., the Rokkasho reprocessing plant. To independently verify the U and Pu concentrations in LSDs, ITU performs annual verification campaigns for IAEA, JAEA and IRMM EC SP task EC-A-01806.	31/12/2016	JRC Technical reports
														7007	Analytical Service	The Analytical Service operates as part of E.7, performing nuclear material analyses for ITU scientific/technical units, such as waste water characterisation prior to release, gaseous radioactive emissions, trace elements in nuclear fuel, provision of material content info for transport declarations. The technologies used are either developed for purpose or have been designed for safeguards needs. About 160 sample request with up to 400 different analyses are performed annually.	31/12/2016	JRC Technical reports
														7008	NDA techniques for MOX analysis	Previous studies before 2003 have investigated calorimetry and neutron coincidence counting as NDA techniques for safeguards verification (accountancy) of plutonium in MOX samples. The present project extends the scope to a different set of samples and instruments. This will ensure the continuity of knowledge on these sophisticated analytical procedures. The outcome will improve the in-field applications of non-destructive techniques, in particular improve uncertainties of the Pu assay.	31/12/2015	JRC Technical reports
														7010	US DOE Action sheet 44: SME	NBL and ITU cooperate on measurement quality assurance to spike production, U and Pu analyses. ITU will participate in the NBL inter-comparison quality assurance programme. Task within the Euratom - US DOE Agreement Action sheet 44: Collaboration on Safeguards Measurement Quality Assurance and Reference Material Production and Use for Accountability Measurements	31/12/2016	JRC Technical reports
														7011	ISO 17025 accreditation	The Analytical Services are ISO 17025 accredited since 2005. Accreditation is mandatory to carry out safeguards analyses in particular for IAEA. The management system must continuously be improved and controlled. This requires an internal audit and review system in place, including annual management reviews and proficiency tests. Follow-up of corrective and preventive actions must be assured.	31/12/2016	Validated methods, reference methods and measurements
														7012	LIMS Laboratory Information Management System	A LIMS system was developed by E.7 to provide a platform for the information management of ISO 17025 accredited analysis methods. The system is web-based and allows also other Commission users, such as DG ENER, to launch analysis requests. Next steps are the development of modules for uncertainty calculation, statistics for management review, preparation of commercial documents, and customer satisfaction reviews. A Validation report will be issued.	31/12/2015	Scientific information systems and databases
														7013	HKED analysis: review soft- and hardware platform	X-ray densitometry coupled with X-ray fluorescence (HKED) is a key technique for U/Pu measurements in nuclear safeguards. The technique is a basis for accountancy measurements in the Euratom OSLs of La Hague and Sellafield. The hardware platform (VMS computers) for data taking is outdated. Two major routes are followed to modernise, (1) a commercial PC-based software and (2) emulation of the VMS system on a PC, which allows one to use the existing analysis software.	31/12/2016	Technical systems
														7014	MCNP modelling of actinide X-ray fluorescence	K-Edge densitometry coupled with X-ray fluorescence (HKED) is a powerful safeguards tool for quantitative U/Pu assay in aqueous reprocessing solutions. Pyro-processing, on the other hand, is based on salt matrices with high-Z elements. In order to reduce the HKED calibration effort, a Monte-Carlo approach to model the XRF response is being developed which includes experimental validation. The approach will be used to improve sample analysis.	31/12/2016	JRC Technical reports
														7015	Technical improvements at LSS and OSL	OSL Sellafield: a) Independent gamma station to improve efficiency. b) Alternative glove-box environment for Pu analysis to replace NDA box. LSS La Hague: a) New hard and emulation software for HKED analysis. b) Powder decanting system. c) Improve manipulation of sample jugs.	31/12/2016	Technical systems
														7016	US DOE Action sheet 49: HKED	AS 49: Collaboration to Conduct a Needs Assessment for an Internationally Approved Standard Test Method and Certified Reference Materials for the Hybrid K-Edge Densitometer. A joint study with ORNL to identify HKED limitations and to assess the need for developing an internationally acceptable standards test method and certified reference materials for existing HKED measurement systems.	31/12/2016	JRC Technical reports
														7017	EC-SP IAEA: UF6 COMPUCEA	A combined L-edge densitometer & U235 enrichment meter (COMPUCEA) has been developed at ITU. The mobile instrument is deployed for in-field physical inventory verifications at uranium fuel fabrication plants in the EU to determine the U content and U235 enrichment. Joint inspection teams are composed of DG ENER, IAEA and ITU staff. ITU will test the use of the method for U-enrichment measurement in UF6 samples under an SP1 task within the EU Support Programme to IAEA.	31/12/2016	JRC Technical reports
														7018	Upgrade of U and Pu assay by titration	Titration as a primary method is used to calibrate the radiometric methods deployed in the Analytical Service. However, the current setup is producing a significant amount of nuclear waste. Therefore investigations and testing of more suitable approaches are initiated aiming at a replacement of the current method.	31/12/2016	JRC Technical reports
														7019	High-resolution gamma spectra for U and Pu	ITU is testing software codes for determining the isotopic composition of U and Pu from high resolution gamma spectra. The aim is to give recommendations on how to record the spectra so that codes will provide the most accurate results. This study will help the analytical service of ITU to correctly measure the isotopic composition of U and Pu by gamma spectrometry. Safeguards inspectors and mobile expert teams will benefit from this study by being able to make justified decisions in the field.	31/12/2015	JRC Technical reports
7020	US DOE AS51: Neutron reference measurements	Euratom (JRC-ITU and DG ENER) and US-DOE-NNSA will undertake a cooperative effort aimed at improving neutron reference measurements. The objective of this Action Sheet is to study the potential for alternative neutron reference materials to Cf252, develop improved dead-time correction techniques, and performance test existing software used for neutron data acquisition and analysis to identify and document improvements.	31/12/2016	JRC Technical reports														

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734 - Particles Particle analysis for nuclear safeguards verification	This project provides cutting-edge technology required for environmental sample analysis for nuclear safeguards and non-proliferation, in co-operation with DG ENER and IAEA. The methods used are under constant development to enhance the abilities in detecting undeclared nuclear activities. The project also handles the upkeep of analytical laboratories with their equipment, in particular the LG-SIMS laboratory at ITU.	JRC.E.7 Magnus HEDBERG	3.3.2.1.b	ENER	n/a	Paul Meylemans		- Direction of Military Applications (CEA) - Seibersdorf laboratories - IAEA EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) JAEA - Japan Atomic Energy Agency	01/01/2014 31/12/2016	3-Instrumentation & hardware (30%) 4-Methods and testing (40%) 7-Scientific, technical & policy consultancy (30%)		684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 700 - NSRD Nuclear Safeguards R&D 823 - ENER analysis Nuclear material and trace particle analysis for DG ENER 865 - AnSafe	INS-RS	7342	Training on LG-SIMS for safeguards	Training of IAEA analysts as described in the EU-IAEA support program task EC-B-01752 "Training on Mass Spectrometry and Other Analytical Techniques". Training is performed for Euratom inspectors as requested.	31/12/2016	Training
														7343	Reduced hydrogen formation in SIMS analysis	A limitation in 236U measurements by SIMS is in the formation of 235U hydride. This work will study methods to reduce the formation of these hydrides.	31/12/2015	Validated methods, reference methods and measurements
														7344	Calculus software for SIMS analysis	The data produced in SIMS uranium analysis requires dedicated software packages for the data reduction. In addition there is a need for QC software to control individual measurements and to make the necessary statistics for standard measurements.	31/12/2016	Validated methods, reference methods and measurements
823 - ENER analysis Nuclear material and trace particle	In order to verify declared nuclear activities and to detect undeclared ones, high performance analyses are necessary.	JRC.E.7 Evelyn ZULEGER	3.3.2.1.b	ENER	ENER	P. Schwalbach (E01)		- Seibersdorf laboratories - IAEA IAEA - International Atomic Energy Agency	01/01/2014 31/12/2016	6-Reference materials and measurements (50%)		276 - OSL-LSS On-Site Laboratories OSL and	COM-AA					
1695 - 33435 OSL HYBRID K-EDGE RENEWAL	The purpose of the "OSL Hybrid K-edge Analysis Renewal Project" is the modification of the laboratory infrastructure to allow for enhanced nuclear material analysis by chemical and mass spectrometric methods. JRC-ITU will design, manufacture, purchase, install, and test the required equipment.	JRC.E.7 Lily DUINSLAEGER	3.3.2.1.b	ENER	ENER	F. Lipsel ENER E.1			01/01/2014 31/12/2015	3-Instrumentation & hardware (100%)			COM-AA	2	Technical system	Delivery of the technical system installed in situ and accompanying technical documents	31/12/2015	Technical systems
2641 - HPTA & DA Analysis HPTA & DA Analysis of Safeguards samples	Continuation of the established support to Euratom Safeguards activities. Unique analytical capabilities of JRC-ITU requested	JRC.E.7 Evelyn ZULEGER	3.3.2.1.b	ENER	ENER	P. Schwalbach (E01)		- Seibersdorf laboratories - IAEA IAEA - International Atomic Energy Agency (IAEA)	01/01/2015 30/06/2016	6-Reference materials and measurements (50%) 7-Scientific, technical & policy consultancy (50%)		865 - AnSafe Analytical Support to safeguards authorities 823 - ENER analysis Nuclear material and trace particle analysis for DG ENER 700 - NSRD Nuclear Safeguards R&D 276 - OSL-LSS On-Site Laboratories OSL and	COM-AA	1	Analysis of safeguards samples in Europe 2015	U and Pu concentration and isotopic composition as well as various impurity contents are requested to determine. In order to provide these analysis results, 15 different techniques are applied, such as Thermal ionisation mass spectrometry, LG-Secondary mass spectrometry, ICP-MS, gamma spectrometry and Compuca. The results are delivered in separated reports as requested by ISO 17025	30/12/2015	Scientific and policy reports
														2	Analysis of safeguards samples in Europe 2016	U and Pu concentration and isotopic composition as well as various impurity contents are requested to determine. In order to provide these analysis results, 15 different techniques are applied, such as Thermal ionisation mass spectrometry, LG-Secondary mass spectrometry, ICP-MS, gamma spectrometry and Compuca. The results are delivered in separated reports as requested by ISO 17025	30/06/2016	Scientific and policy reports
3.3.2.1.c Development of innovative containment and surveillance techniques, including advanced sealing and verification technologies to be applied to encapsulation plants, geological repositories and final disposal; ensuring the continuity of knowledge and verification of the design information of the technical characteristics of nuclear power plants and facilities; fingerprinting and monitoring of nuclear material containers in enrichment plants and large storage installations;																		
207 - LSS SEALS Upgrade of JRC La Hague Sealing System	Upgrade of JRC La Hague Sealing System already in use for several years. Finalisation of the work agreed in the AA: commissioning of reading systems and seals	JRC.E.8 Elena STRINGA	3.3.2.1.c	ENER	ENER	Head of Unit ENER.E.2-S. Synetos			24/05/2012 23/05/2015	3-Instrumentation & hardware (100%)		239 - ABACC Safeguards Strengthening the Safeguard Capabilities of ABACC 666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations 699 - ASIMM	COM-AA	1	Commissioning of Reading systems and seals	Commissioning of two reading heads and 50 ultrasonic newly developed seals, associated with in field support to the inspectors	23/05/2015	Technical systems
688 - SealSys Sealing Systems for Safeguards	Development of sealing systems requested by DG ENER and IAEA for safeguarding nuclear material. The activity consists in a continuous upgrade of existing sealing systems already in use throughout the world as well as the development of new sealing equipment for underwater and dry storage applications in particular low cost electronic seals. New prototypes will be manufactured, tested and delivered to our Customers.	JRC.E.8 Francois LITTMANN	3.3.2.1.c	ENER	n/a	Paul Meylemans	DEVCO	IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	3-Instrumentation & hardware (100%)		207 - LSS SEALS Upgrade of JRC La Hague Sealing System 239 - ABACC Safeguards Strengthening the Safeguard Capabilities of ABACC 666 - ENSPIC Enhancing Nuclear Security	INS-RS	4	Industrialisation of the low cost electronic seal	After receiving the results of the vulnerability assessment the design of the low cost electronic seal will be finalized and a first series of industrial seals will be manufactured and tested in house.	01/10/2015	Technical systems
														5	Commissioning on field of the newly designed readi	Following laboratory tests on the new reading heads and the new software a field test campaign will be carried out together with IAEA and DG ENER on plants where seals are already installed. Software and reading heads will be fine tuned accordingly.	15/12/2016	Technical systems
														6	Commissioning on field of the low cost electronic	The final version of the low cost electronic seal as result of the industrialization phase will be commissioned on field with IAEA and DG ENER. The hardware and firmware will be fine tuned according to the results of the commissioning phase.	01/10/2016	Technical systems
691 - 3DLASER R&D on 3D Laser Based Systems	Research and development on laser based identification and verification systems for containment and surveillance. Application areas covers the design information verification of nuclear facilities, identification of nuclear containers by unique surface maps, verification of containment and closure welds as well as 3D surveillance. Activities include the support and training to IAEA on JRC-developed laser based systems	JRC.E.8 Vitor SEQUEIRA	3.3.2.1.c	ENER	n/a	Head of Unit ENER.E.1-P. Meylemans		IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	3-Instrumentation & hardware (70%) 9-Education & training (30%)		684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 693 - INSPECTOR R&D on Infield Tools for the Complementary Access Inspector 988 - 3DLVS 3D Laser Based Verification Systems Support and Training	INS-RS	13	LMCV on Containers for Geological Repositories	Perform research in the area of authentication and integrity verification systems using laser based sensors. The activity will result in a technical report containing special case pre-requisite condition analysis and study of best-practice techniques for authentication of containers to be used for geological repositories.	31/10/2015	Scientific and policy reports
														31	3DLR Software Update	General updates and improvements of the application suite	01/03/2015	Scientific information systems and databases
														32	3DLR Software Update	General updates and improvements of the application suite	01/03/2016	Scientific information systems and databases
														34	3DLR Training of Safeguards Inspectors	Following the release of the 2015 3DLR version, prepare new material and provide training to new inspectors to 3DLR and refresh-courses for already trained inspectors.	16/03/2015	Training
														35	3DLR Training of Safeguards Inspectors	Following the release of the 2016 3DLR version, prepare new material and provide training to new inspectors to 3DLR and refresh-courses for already trained inspectors.	14/03/2016	Training
														50	Multimodal 3D data fusion and reconstruction	Development of new algorithms to reconstruct the content of closed containers by fusing data acquired from heterogeneous sensors (such as X-ray, colour cameras and 3D data). In particular the aim is calibrating precisely the employed sensors by exploiting the 3D information of the outer environment. Followed by the reconstruction of the 3D content of the containers by exploiting the information recovered using the calibrated sensors.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														51	3D Site Mapping and Localization	Development of algorithms for real time 3D localization in known environments and mapping of unknown environments. Moreover the research aims at exploiting the known 3D environment to bootstrap the real time navigation system and to solve the kidnapped robot problem.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														52	Real-time 3D Tracking using 2D and 3D Sensors	Carry out research on novel self-localization and tracking techniques for supporting inspection activities in indoor environment such as underground repositories. The techniques will be based on 2D and 3D laser data and will integrate other sensor data as appropriate.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
692 - VIDEOZOOM VideoZoom for safeguards image reviews	Research and development on the VideoZoom platform designed for inspectors reviewing surveillance streams. VideoZoom uses summarisation techniques and a zooming interface to enable inspector abilities to detect events, whether typical or anomalies. Inspectors see on-demand details or context information on the video content. The goal is to favor the detection of all relevant events in long videos. Effectiveness tests will be performed in evaluation sessions with safeguards inspectors.	JRC.E.8 Vitor SEQUEIRA	3.3.2.1.c	ENER	n/a	Head of Unit ENER.E.1-P. Meylemans		IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	2-Information systems & services (50%) 5-Monitoring, verification and surveillance (30%) 7-Scientific, technical & policy consultancy (20%)		693 - INSPECTOR R&D on Infield Tools for the Complementary Access Inspector	INS-RS	3	Expanded video search modalities - Publication	Beyond summarisation, VideoZoom will be enriched by direct video search modalities, including motion detection in selected areas of the image plane and searching by summary similarities. Search modalities will be embedded for use at image review time and to highlight matching summaries in the VideoZoom interface.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														5	Training in safeguards video reviews	Two evaluation sessions will be organized with DG ENER and IAEA inspectors performing safeguards video reviews with VideoZoom. The goal is to assess the efficiency and effectiveness of the tool for video reviews. Training on the use of the VideoZoom will be provided beforehand.	31/03/2016	Training	
693 - INSPECTOR R&D on Infield Tools for the Complementary Access Inspector	The project investigates tools, components and system architectures to be used by a safeguards inspector to enhance his/her observation skills as well as securely retrieve local, just-in-time information while performing unannounced visits/complementary access inspections. Accent is on infield non-proliferation assessments and detection of undeclared	JRC.E.8 Vitor SEQUEIRA	3.3.2.1.c	ENER	n/a	Paul Meylemans		IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	1-Foresight studies & techniques (30%) 2-Information systems & services (30%) 3-Instrumentation & hardware (40%)		691 - 3DLASER R&D on 3D Laser Based Systems 692 - VIDEOZOOM VideoZoom for safeguards image reviews	INS-UR	3	Technology review	Based on scenarios developed in 2014, roadmap of information technology tools for the investigative inspector.	29/06/2016	Scientific and policy reports	
														7	Prototype tools for the investigative inspector	Based on concepts developed in 2014 and technology review run in 2015, design and develop prototype tools to demonstrate what is feasible and elicit feedback from external experts.	30/11/2016	Technical systems	
														8	Final Report	Report on feedback from external experts on heads and new database managers	31/12/2016	Scientific and policy reports	
939 - Cernavoda 2013 JCSS for Cernavoda and Database Manager	Delivery of JCSS seals, reading equipment and software for the management of the database of seal signatures. Infield support during the inspection campaigns.	JRC.E.8 Francois LITTMANN	3.3.2.1.c	ENER	ENER	Head of Unit ENER.E.1-S. SYNETOS			20/06/2013 19/06/2015	3-Instrumentation & hardware (100%)			COM-AA	2	Commissioning on field of the newly designed reading	Following laboratory tests on the new reading heads and the new database manager a field test campaign will be carried out together with IAEA and DG ENER on plants where seals are already installed. In field support to the inspectors	30/06/2015	Technical systems	
987 - LASSY Laser Surveillance System	Installation of a laser curtain system on a part of the NPH storage pond at AREVA La Hague (F). The system will provide a second independent layer of containment and surveillance (Dual C&S).	JRC.E.8 Gunnar BOSTROEM	3.3.2.1.c	ENER	ENER	Head of Unit ENER.E.2-S. Synetos			11/10/2013 10/10/2015	3-Instrumentation & hardware (85%) 9-Education & training (15%)				COM-AA	2	LASSY- Field Support	Field support and data evaluation technical report.	10/10/2015	JRC Technical reports
988 - 3DLVS 3D Laser Based Verification Systems Support and Training	Provide Support to DG ENER on the 3D Laser Based Verification System (3DLVS) including further software development; infield support during Physical Inventory Verification (PIV) and Basic Technical Characteristics (BTC) verification; and training. Assemble and install two ad-hoc laser based systems at the Sellafield Product and Residue Store (SPRS) for i) Can identification verification and ii) Integrity checking of the separation grids on the ventilation stacks.	JRC.E.8 Vitor SEQUEIRA	3.3.2.1.c	ENER	ENER	Head of Unit ENER.E.2-S. Synetos				01/01/2014 31/12/2016	3-Instrumentation & hardware (50%) 9-Education & training (50%)	691 - 3DLASER R&D on 3D Laser Based Systems	COM-AA	31	3DLVS Development/Update - Release 2015	Repair and hardware support including improvements for the existing 3DLVS systems on request. Development on analysis applications used for specific scenarios. This activity also includes general updates and improvements including user-friendliness of the application suite.	01/12/2015	Technical systems	
														32	3DLVS Development/Update - Release 2016	Repair and hardware support including improvements for the existing 3DLVS systems on request. Development on analysis applications used for specific scenarios. This activity also includes general updates and improvements including user-friendliness of the application suite.	01/12/2016	Technical systems	
														41	3DLVS Training of Safeguards Inspectors - 2015	Following the release of the 2014 3DLVS version, prepare new material and provide training to new inspectors to 3DLR and refresh-courses for already trained inspectors	16/02/2015	Training	
														42	3DLVS Training of Safeguards Inspectors - 2016	Following the release of the 2015 3DLVS version, prepare new material and provide training to new inspectors to 3DLVS and refresh-courses for already trained inspectors. Two 3 days training per year (1 at Ispra, 1 at Luxembourg).	15/02/2016	Training	
1781 - 33288 KANUPP SEALS IAEA	Supply of sealing systems requested by IAEA for safeguarding nuclear material at KANUPP (Pakistan)	JRC.E.8 Francois LITTMANN	3.3.2.1.c	ENER	n/a	K. Schoop, ENER.DG2.E.1.003		- INTERNATIONAL ATOMIC ENERGY AGENCY	25/11/2013 24/11/2018	3-Instrumentation & hardware (100%)			COM-TW	20152	In field support to Karachi NPP	Commissioning, training and in field support for the installation and maintenance of the sealing systems provided	16/12/2015	Technical systems	
														20161	Status report	"status report" which summarises the results obtained in 2016 in the project,	31/12/2016	JRC Technical reports	
2980 - E-Seals 2015-2018 Support for sealing activity in La Hague, Cernavoda and Ignalina facilities	The objective is to provide ultrasonic sealing equipment and in-field support to DG ENER, for the inspections in the facilities of La Hague (France), Cernavoda (Romania), and Ignalina (Lithuania).	JRC.E.8 Elena STRINGA	3.3.2.1.c	ENER	ENER	P. Schwalbach				01/02/2015 31/01/2018	3-Instrumentation & hardware (70%) 5-Monitoring, verification and surveillance (30%)	688 - SealSys Sealing Systems for Safeguards	COM-AA	1	JCSS seal 1st batch	JCSS seals for Cernavoda: first batch of 50 seals	01/02/2016	Technical systems	
														2	JCSS seals, 2nd batch	JCSS seals for Cernavoda: second batch of 50 seals	31/12/2016	Technical systems	
														3	Reading head for La Hague	Reading head for La Hague	31/12/2017	Technical systems	
														4	Seals for La Hague	50 seals for La Hague	01/02/2018	Technical systems	
														5	Seals for Ignalina	100 seals without connector for the Ignalina facility	31/12/2016	Technical systems	
														6	Seals for Ignalina 2nd batch	100 seals without connector for the Ignalina facility	31/12/2017	Technical systems	
														7	Constor insert for Ignalina	200 Constor insert for Ignalina	31/12/2017	Technical systems	
														8	Reading system	One reading system for Ignalina	31/12/2016	Technical systems	
3.3.2.1.d Development of enhanced process monitoring and modelling, including advanced techniques for data authentication and remote control to allow the improvement of safeguarding complex, typically bulk-type, nuclear fuel cycle facilities, near-real time analysis of safeguards-relevant data																			
674 - PROMO Process monitoring of nuclear facilities	Support to DG ENER (and IAEA) for process monitoring at reprocessing and enrichment plants. This includes: Near Real Time Accountancy (NRTA), technical developments, validation and implementation, integration and improvement of safeguards analysis tools, DAI software maintenance and development and load cell monitoring at GCEP. The activity includes also the modelling of centrifuges and cascades for evaluation of GCEP performances.	JRC.E.8 Patrice RICHIR	3.3.2.1.d	ENER	n/a	HoU of DG ENER E1 - P. Meylemans		IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (100%)		14 - Loggers LH Logger replacement La Hague 665 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations 684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 686 - AS3ML Set-up of the AS3ML laboratory 712 - OSINS	INS-RS	201501	Tank Calibration Training	Tank calibration training courses are given to both EURATOM and IAEA inspectors who are foreseen to work in reprocessing plants. The courses aim to give them good practice to perform or survey tank (re)calibrations.	31/12/2015	Training	
														201502	DAI Training	The Data Analysis & Interpretation training courses are designed for EURATOM inspectors who are foreseen to work in facilities where the DAI is installed.	31/12/2015	Training	
														201503	Completion of GCEP work	Completion of GCEP 2014 work: modelling and monitoring	31/12/2015	Scientific and policy reports	
														201504	Integration of DAI / RADAR / CRISP	Development of a prototype tool integrating / supporting data exchange for systems DAI / RADAR / CRISP. Feasibility assessment	31/12/2015	Technical systems	
														201601	Tank Calibration Training	Tank calibration training courses are given to both EURATOM and IAEA inspectors who are foreseen to work in reprocessing plants. The courses aim to give them good practice to perform or survey tank (re)calibrations.	31/12/2016	Training	
														201602	DAI Training	The Data Analysis & Interpretation training courses are designed for EURATOM inspectors who are foreseen to work in facilities where the DAI is installed.	31/12/2016	Training	
696 - AS3ML Set-up of the AS3ML laboratory	The three main pillars that the new laboratory intends to put together are: • Measurement of nuclear material that remains anyway the main tool for NMAC • Monitoring the operation of facilities through an extensive collection of data from multiple types of sensors • Modelling the plant operations in order to be able to analyse the data collected by the monitoring system, compare to expected behaviour and derive conclusion on the appropriate operation of the plant according to declarations	JRC.E.8 Luc DECHAMP	3.3.2.1.d	ENER	n/a	Head of Unit ENER.E.1-P. Meylemans		IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2015	3-Instrumentation & hardware (100%)		665 - He3FREE Development of an innovative neutron coincidence counter 674 - PROMO Process monitoring of nuclear facilities 684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 688 - SealSys Sealing Systems for Safeguards	INS-RS	3	GCEP simulation	GCEP project: A test-bed facility to study the performances and define the requirements for a system to monitor weighing station in a Gas Centrifuge Enrichment Plant •Monitoring of the (feed, product and tail) load cells; coupled with •Verification of plant operation through cascade/centrifuge modelling •Tracking/identification/authentication of cylinders entering/exiting the facility •Monitoring of activity through tracking of movements of the loading machine	31/12/2015	Technical systems	
														4	interim and final storage	The simulation of an storage area is going to be equipped with all the types of sensors include (but not limited to): •Radiation detectors (gamma and neutron) •Surveillance equipment (cameras and lasers) •Weighing scales •Identification devices (bar-code readers, RFID,...) •Localisation devices (RFID, ultrasonic, geo-location,...) •Seals Since the use of real nuclear material is not foreseen within AS3ML, the signal of radiation detectors will have to be simulated.	31/12/2015	Technical systems	
998 - MAGNOX Magnox UCMS & Thorp Dai Maintenance	Magnox UCMS & Thorp Dai Maintenance	JRC.E.8 Patrice RICHIR	3.3.2.1.d	ENER	ENER	Head of Unit ENER.E.1-P. Meylemans		IAEA - International Atomic Energy Agency (IAEA)	15/11/2014 15/11/2015	5-Monitoring, verification and surveillance (100%)			COM-AA	1	Installation	Installation of the devices in MAGNOX and THORP in Sellafield	29/03/2015	Technical systems	
														2	Final report	Final report on the installation and maintenance of the devices	14/11/2015	Technical systems	
														3	Training for Euratom	Training provided to Euratom Inspectors	14/11/2015	Training	

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
3.3.2.1.e Collaboration for the advancement and harmonisation of research and development in the area of nuclear safeguards; providing a forum for collaboration and consultation involving European operators, regulators and researchers																			
685 - ESARDA Operation and Secretariat of ESARDA	Operation and Secretariat of the European Safeguards Research and Development Association, ESARDA. This includes management of Steering Committee and Executive Board's meetings organisation, reporting, networking with members and other organisations; maintenance and development of communication platforms; editing and publication of the ESARDA Bulletin; Annual meetings' programme management and publication of proceedings; interaction with WGs and general follow-up of the association's evolution	JRC.E.8 Filippo SEVINI	3.3.2.1.e	ENER	n/a	P. Meylemans (ENER.E.1)		ESARDA - European Safeguards R&D Association	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		100 - SCINTILLA Scintillation Detectors And New Technologies For Nuclear Security 207 - LSS SEALS Upgrade of JRC La Hague Sealing System 239 - ABACC Safeguards Strengthening the Safeguard Capabilities of ABACC 436 - INSAP Innovative concepts and methodologies for nuclear safeguards 665 - He3FREE Development of an innovative neutron coincidence counter 666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations 674 - PROMO Process monitoring of nuclear facilities	INS-RS		201501	Executive Board meetings 2015	Report of the Executive Board meetings.	31/12/2015	Scientific information systems and databases
															201502	Steering Committee 2015	Report of the Steering Committee meeting.	31/12/2015	Scientific and policy reports
															201503	ESARDA web-site 2015	Development, maintenance and updates of the ESARDA web-site, www.esarda.eu.	31/12/2015	Scientific information systems and databases
															201504	ESARDA Bulletins 2015	Continuation of ESARDA bulletin's publication, with JRC editorship. 3 numbers foreseen	31/12/2015	Monographs with JRC editorship
															201505	Chairing, vice-chairing ESARDA Working Groups 2015	Reports concerning: - Chairing of Export control-WG - Editorship and chairing of Editorial Committee - Chairing of Training & Knowledge Management WG - vice-chairing of Verification Technologies & Methodologies-WG	31/12/2015	JRC Technical reports
															201601	Executive board meetings 2016	Report of the Executive Board meetings	31/12/2016	Scientific and policy reports
															201602	Steering Committee 2016	Report of the Steering Committee meeting	31/12/2016	Scientific and policy reports
															201603	ESARDA web-site 2016	Development, maintenance and updates of the ESARDA website, www.esarda.eu	31/12/2016	Scientific information systems and databases
															201604	ESARDA bulletins 2016	Continuation of ESARDA bulletin's publication, with JRC editorship. 3 numbers foreseen	31/12/2016	Scientific information systems and databases
															201605	Chairing, vice-chairing ESARDA Working Groups 2016	Reports concerning: - Chairing of Export control-WG - Editorship and chairing of Editorial Committee - Chairing of Training & Knowledge Management WG - vice-chairing of Verification Technologies & Methodologies-WG	31/12/2016	JRC Technical reports
3.3.2.2 Prevention and mitigation of chemical, biological, radiological and nuclear (CBRN) hazards																			
3.3.2.2.a Development, testing, validation and application of enhanced methods and technologies for the detection of nuclear and radioactive materials outside regulatory control. Operational support to Member States and international organisations;																			
676 - NUDET R&D, evaluation, testing and training in detection technologies	Provide R&D and S/T support to EU's nuclear security policy by focusing on detection methods and instrumentation, their evaluation, comparison, categorisation striving for harmonisation/standardisation in the field. Relevant and related training in detection for nuclear security will be part of the project.	JRC.E.8 Hamid TAGZIRIA	3.3.2.2.a	HOME	n/a	Wiktor Wojtas HOME.A.1.002	DEVCO ENER TAXUD	FISICA NUCLEARE AWE - Atomic Weapons Establishment CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives IAEA - International Atomic Energy Agency	01/01/2014 31/12/2016	4-Methods and testing (50%) 9-Education & training (50%)		666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations	INS-UR		4	Training for FLO and T-T in detection	Organise courses to train front line officers and future trainers in detection and response to threats and illicit trafficking of radioactive and nuclear material.	31/12/2015	Training
															5	PhD Thesis	PhD Thesis of Francesca Rosas	31/12/2015	PhD thesis
															6	Training for FLO and T-T in detection	Organise courses to train front line officers and future trainers in detection and response to threats and illicit trafficking of radioactive and nuclear material.	31/12/2016	Training
711 - SNM-DETECT Coincidence signature by pulsed neutron interrogation for SNM detection	A new method for detection of SNM with a high potential for practical applications is being developed. The method concerns interrogation of a fissile sample with pulses of epithermal/thermal neutrons with subsequent detection of coincident prompt fission neutrons in an array of liquid scintillation detectors. The neutron coincidences in short time intervals are a strong signature for the presence of fissile material. The project includes experimental investigations at the PUNITA facility.	JRC.E.8 Bent PEDERSEN	3.3.2.2.a	ENER	n/a	Head of Unit ENER.E.1-P. Meylemans	HOME	CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives	01/01/2014 31/12/2016	3-Instrumentation & hardware (30%) 4-Methods and testing (70%)		665 - He3FREE Development of an innovative neutron coincidence counter 710 - ACTIVE-N Optimization of instrument parameters for pulsed neutron interrogation	INS-UR		2	Alternatives to He3 for safeguards instrumentation	Laboratory testing of specific alternatives to He-3 for neutron detection for applications in nuclear safeguards. A new prototype well-counter based on 2-inch BF3 gas proportional counters has been designed and constructed. The instrument is characterized in terms of parameters relevant for neutron multiplicity counting and compared to 3He based instruments.	30/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															3	Optimization of the coincidence detection method	The detection of SNM by means of coincidence signatures from induced fission needs to be optimized for in-field use by scaling up to a large number of detectors and a large sample cavity. This is done by MCNP calculations based on the performance values obtained in PUNITA. Also the preferred PSD analysis method needs to be implemented in FPGA hardware in order to achieve online analysis.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
979 - He3 ALT Alternatives to 3He based neutron detection systems in Safeguards (HE3 alt)	The present project constitutes a feasibility study of novel neutron detection technologies for nuclear safeguards purposes. Three specific technologies have been identified to have a high potential as alternatives to 3-He in standard safeguards instrumentation without compromising standard safeguards concepts such as detector geometry, die-away time, point model and the requirements for high efficiency and gamma-neutron discrimination.	JRC.E.8 Hamid TAGZIRIA	3.3.2.2.a	ENER	ENER	Head of Unit ENER.E.1-P. Meylemans			20/06/2013 19/10/2015	3-Instrumentation & hardware (100%)		684 - IAEA-ECSP Coordination of EC Support Programme to IAEA	COM-AA		1	Technical report or publication	Report on the technologies selected and the work (literature survey, Monte Carlo modeling and validations etc) that led to the selection of the technology and the prototype to be built.	19/10/2015	JRC Technical reports
															2	Prototype of neutron detection system	This deliverable will deliver a scaled down prototype of a He-3 alternative neutron detection system following modeling, investigations and validations of models.	19/10/2015	Technical systems
1820 - ITRAP ITRAP+10 PHASE 2	The objective, based in the experience gained implementing the first phase, is: To strengthen the capacity of the EU MS labs for testing of detection radiation equipment. To test mobile detection equipment, based on revised testing procedures. To investigate the integration of RN and explosives detection techniques. To give feedback to standardisation organisations from experience gained through the implementation of ITRAP+10.	JRC.A.4 MARIANA GONÇALVES	3.3.2.2.a	HOME	HOME	Wiktor Wojtas, DG HOME A1	DEVCO		17/12/2013 16/12/2015	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		JRC.D.4 JRC.E.8	COM-AA		12	Project Final Report	Deliverable of the WP1 Project management is the Final Report of the project.	17/12/2015	JRC Technical reports
															13	Workshop for standardisations organisation	Organisation of a Workshop for standardisations organisations and production of the conclusions report	30/06/2015	Training
															22	Intercomparison exercise	Identifying EU national labs to be recognized in testing of equipment: Revision of the testing procedures and organisation of a round robin exercise. Reports on the procedures and on the intercomparison results.	18/12/2015	Validated methods, reference methods and measurements
															32	Results of test of mobile equipment	Report on results of tests of mobile detection equipment, feedback to standards and reports to vendors of each instrument (3-5 instruments in total)	18/12/2015	JRC Technical reports
															42	Integration of RN and E. Test case	Applicability of RN and E detection standards to combined equipment and Organisation of a test case. Technical report	19/12/2015	JRC Technical reports
51	Feedback from ITRAP+10 experience	Suggestions for improvements of the current standards will be reported to the corresponding standardisation organisations (from the reports under ITRAP+10). The Phase II of the project will ensure that the suggested improvements are well communicated (and explained if necessary) by the working groups of the standardisation organisations (presentation to WGs' meetings)	05/02/2015	JRC Technical reports															
3.3.2.2.b Development and qualification of nuclear forensics methods and techniques to fight against illicit trafficking and provide operational support to Member States and international organisations;																			
271 - IMPLEMENTATION CBRN JRC support to the implementation of the EU CBRN Action Plan	JRC support to the implementation of the EU CBRN Action Plan: Actions RN.24, RN.25, H.21 and H.55 The project is structured in 3 WPs: - WP1: Enhanced operational support to EU MS in nuclear forensics - WP2: Influence of weather conditions on the detection capabilities of a standard Radiation Portal Monitor -WP3: Setting-up a Virtual reality based training capacity	JRC.E.8 Paolo PEERANI	3.3.2.2.b	HOME	HOME	Wiktor Wojtas, HOME.1.002		IAEA - International Atomic Energy Agency (IAEA)	21/12/2012 31/12/2015	3-Instrumentation & hardware (100%)		100 - SCINTILLA Scintillation Detectors And New Technologies For Nuclear Security 631 - NS-AgeDating Standards in support to the EU CBRN Action Plan and Centres of Excellence 666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations	COM-AA		2	First Prototype of VR training tool	Preliminary prototype with basic capacity of a VR-based tool for training first responders in the use of detection instruments for nuclear security	30/12/2015	Scientific information systems and databases
															1	IRMM-1000 uranium CRM	Development of a new CRM in cooperation with JRC-ITU for age-dating of nuclear material in nuclear forensics and nuclear security, supporting Council Decision 2012/212/CFSP	05/01/2015	Reference materials
631 - NS-AgeDating Standards in support to the EU CBRN Action Plan and Centres of Excellence	Development of new CRMs and organisation of interlaboratory comparisons for age-dating in nuclear forensics and isotopic fingerprinting in nuclear security, supporting Council Decision 2012/212/CFSP and COM 2009 15505 EU CBRN Action Plan	JRC.D.4 Yetunde AREGBE	3.3.2.2.b	ENER	n/a	Peter Schwalbach (ENER.E.1.2), Sorin Popa (DEVCO)	DEVCO GROW HOME	- URENCO NEDERLAND BV* - Seibersdorf laboratories - IAEA - BRITISH NUCLEAR GROUP SELLAFIELD LT AREVA NP - AREVA NP Main Company	02/01/2014 22/12/2016	6-Reference materials and measurements (80%) 7-Scientific, technical & policy consultancy (20%)	JRC.E.7	INS-RS		4	Reference material for nuclear security	Certified reference material on 243Am for nuclear material analysis in nuclear forensics and nuclear security, supporting Council Decision 2012/212/CFSP	31/12/2016	Reference materials	
														6	Set of uranium reference particles	Development of a set of uranium reference particles certified for major and minor uranium isotope ratios in support to CBRN activities	31/12/2016	Reference materials	
903 - NUFOR Nuclear Forensics method and signature development	Development and further optimization of appropriate analytical methodologies for Nuclear Forensics: Identification and consolidation of measurable parameters providing hints on the history of the material. Use of stable isotopes, Raman spectroscopy, morphological studies and uranium age dating performance testing as well as the application of "genetic fingerprinting" on radioactively contaminated evidence carrying DNA will be studied. Analysis of seized samples upon request of MS or IAEA.	JRC.E.7 Klaus MAYER	3.3.2.2.b	HOME	n/a	Wiktor Wojtas HOME.A.1.002	DEVCO ENER	Centres of excellence (COE) - 3RD ROUND CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives EEAS - European External Action Service EUROPOL - EUROPOL IAEA - International Atomic Energy Agency (IAEA) JAEA - Japan Atomic Energy Agency LLNL - Lawrence Livermore National Laboratory STUK - Radiation and Nuclear Safety Authority US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	4-Methods and testing (75%) 9-Education & training (25%)		271 - IMPLEMENTATION CBRN JRC support to the implementation of the EU CBRN Action Plan 631 - NS-AgeDating Standards in support to the EU CBRN Action Plan and Centres of Excellence 684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 700 - NSRD Nuclear Safeguards R&D 734 - Particles Particle analysis for nuclear safeguards verification 856 - ITDB IAEA Illicit Trafficking Database 907 - SUPPIO International Cooperation in the Nuclear Security Area	INS-UR		90320151	Presentation at nuclear conferences	Topical contributions on the results of a uranium age dating interlaboratory exercise on the use of Nd isotopes in nuclear forensics and on morphological studies will underline the leading position of JRC-ITU in the area of nuclear forensics	31/12/2015	Scientific paper presented at a conference and published in a book of conference proceedings
															90320152	Scientific publications	Papers on novel signatures and improved methodologies (such as the use of Nd isotopes) in nuclear forensics will be published.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															90320153	Report on seized material	Upon request of Member States, of the IAEA or competent authorities in countries outside the EU, nuclear forensic analysis of nuclear material found to be out of regulatory control will be carried out at JRC-ITU. The findings are documented in an analysis report.	31/12/2015	JRC Technical reports
															90320154	Nuclear forensics workshops E&I	In the framework of Enlargement & Integration also nuclear security will be addressed. Several workshops for experts from selected E&I countries will focus on nuclear forensics capacity building.	31/12/2015	Training
															90320155	Scientific publications	A review paper on nuclear forensics (contribution to Handbook of Nuclear Proliferation and Policy) will be published.	31/12/2015	Article contribution to a monograph
															90320161	Presentations at int'l nuclear security conference	Conference contributions on nuclear forensics methodology, on experience gained in recent case work, on morphological studies	31/12/2016	Scientific paper presented at a conference and published in a book of conference proceedings
															90320162	Scientific publications	A review paper on nuclear safeguards and security of plutonium (contribution to Pu Handbook) will be published.	31/12/2016	Article contribution to a monograph
90320163	Report on seized materials	Upon request of Member States, of the IAEA or competent authorities in countries outside the EU, nuclear forensic analysis of nuclear material found to be out of regulatory control will be carried out at JRC-ITU. The findings are documented in an analysis report.	31/12/2016	JRC Technical reports															

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
938 - GIFT-CBRN Integrated Forensic Toolbox	The FP7-SEC project addresses current practice and challenges in forensic science with focus on CBRN contaminated evidence. Methods for fingerprints and DNA from contaminated evidence are developed for work package 4. ITU is task leader for Task 5.3 on RN forensic analysis and provides a report on Nuclear Forensic of nuclear materials and signatures of radiological materials. Experiments for remote location of Alpha emitters by UV technology are performed together with STUK.	JRC.E.7 Erich HRNECEK	3.3.2.2.b	RTD	RTD	REA B.4	GROW HOME	- NETHERLANDS ORGANISATION FOR APPLIED SCIENTIFIC RESEARCH - National Institute for Public Health and the Environment AWE - Atomic Weapons Establishment CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives	01/09/2014 31/08/2017	4-Methods and testing (100%)			COM-IA	201401	Interim report GIFT	ITU contributions to WP 3 and 4. Methods for obtaining fingerprints and DNA samples from contaminated forensic evidence are developed.	20/12/2015	JRC Technical reports	
														201501	2nd Interim report GIFT	Report on ITU contributions to Work packages 3 and 4. Experiments for remote location of Alpha emitters by UV technology are performed and evaluated together with STUK.	20/12/2016	JRC Technical reports	
														201601	Final project report GIFT	Finalise experiments contributing to WP3,4,5. Final project report on ITU contributions: WP3 technical report on the validation of a radiation sources measurement tool WP4 technical report describing the Recovery of DNA from contaminated items WP4 technical report describing methods for latent fingerprints under CBRN conditions WP5 technical report on Nuclear Forensic of nuclear materials and signatures of radiological materials	20/12/2017	JRC Technical reports	
1776 - 30692 TRAINING for BFS	Under the contract n. 30692 with the German Federal Office for Radiation Protection (Bundesamt für Strahlenschutz - BFS), 2 hands-on training exercises per year are held for BFS Mobile Expert Support Teams on detection, categorization and identification of nuclear or other radioactive materials.	JRC.E.7 Erich HRNECEK	3.3.2.2.b	ENER	n/a	n/a		- BUNDESAMT FÜR STRAHLENSCHUTZ-BFS'FE	01/09/2007 31/12/2015	9-Education & training (100%)			COM-TW	1	Messübungen für die Allgemeine Gammaskopimetrie	Training course for BFS experts on gamma spectrometry methods for the measurement of nuclear materials to increase nuclear security preparedness	01/07/2015	Training	
														2	Messübungen für die Allgemeine Gammaskopimetrie	Training course for BFS experts on gamma spectrometry methods for the measurement of nuclear materials to increase nuclear security preparedness	20/12/2015	Training	
3.3.2.2.c Enhancement of preparedness for nuclear or radiological incidents (e.g. radioactive dispersion) including benchmarking of environmental dispersions models, enhancement of field-deployable measurement instruments.																			
2286 - UDINEE Urban Dispersion International Evaluation Exercise	Evaluation of the Atmospheric Dispersion Models' (ADM) capacities to simulated Radiological Dispersion Device (RDD) events in an urban environment. The evaluation of models contributes to assess the real capacity of these systems to respond to emergency under many aspects such as: timeliness of the prediction, accuracy of the prediction, limitations. The evaluation exercise will be performed by using the ENSEMBLE system and a meteorological-tracer database generated in the Joint Urban 2003 Oklahoma	JRC.E.8 Marc DE CORT	3.3.2.2.c	HOME	HOME	Olivier Luyckx, Wiktor Wojtas DG HOME A.1			01/10/2014 30/09/2016	2-Information systems & services (100%)		271 - IMPLEMENTATION CBRN JRC support to the implementation of the EU CBRN Action Plan	COM-AA	1	International workshop	Organise an international workshop to discuss the outcome of the simulation exercise	30/07/2016	Validated methods, reference methods and measurements	
														2	Final Report	Final report of the project. It should describe the work accomplished and the results obtained when carrying out the project. The final report must contain a relevant executive summary that may be used for publication. The final product shall also contain a database of existing models and decision support system, incl. their assessment shall also be one of the project results.	30/09/2016	JRC Technical reports	
														2015	Inception report	"Inception report" which summarises the detailed methodology and workplan.	31/12/2015	JRC Technical reports	
3.3.3 Nuclear standardisation, knowledge management, training and education																			
3.3.3.1 Raise excellence in the nuclear science base for standardisation																			
3.3.3.1.a Research on the fundamental properties and behaviour of innovative nuclear and structural materials as relevant for safety assessment and model validation;																			
368 - SUPRACLEAR Standard nuclear data and Underpinning ReseArch on nuCLEAR fuels	Investigations of safety-related physico-chemical, structural, vibrational, and electronic properties of nuclear fuels materials (Na-U-O, UO ₂ , NpO ₂ , AmO ₂ , UCx). Combined experimental-theoretical studies linking microscopic observations and macroscopic properties. Update of the international Karlsruhe Nuclide Chart (KNC) for nuclear science textbooks (University, Schools, Industry).	JRC.E.6 Jean-Christophe GRIVEAU	3.3.3.1.a	JRC	n/a	n/a	EAC	- University of California, Los Alamos National Laboratory CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives KIT - Karlsruhe Institute of Technology Sc Actinide - Scientific Community on Actinide Research	01/01/2014 31/12/2016	3-Instrumentation & hardware (30%) 6-Reference materials and measurements (55%) 9-Education & training (15%)			237 - TALISMAN TALISMAN - Transnational access to large infrastructures 365 - EARL European Actinide Research Laboratory 369 - SynCryst4NS Samples Synthesis and Crystallographic Structure Studies for Nuclear Safety 510 - RDCANF Reference data for conventional and advanced nuclear fuels 524 - LAMA Local structure of nucleAr MAterials	INS-RS	21	MOX fuel: Thermal properties and ageing effect	X-ray diffraction studies of thermal expansion and annealing effects on self-irradiation damaged mixed-oxide (MOX) fuel materials (in polycrystalline and single-crystal forms), combined with heat capacity measurements for modelling ageing effects.	31/12/2015	Article contribution to a monograph
															22	Phonon dispersion studies of Neptunium Dioxide	Experimental studies of lattice vibrational properties ("phonon dispersion branches") of neptunium dioxide, to measure the forces between atoms that determine macroscopic elastic constants and thermal conductivity (i.e. the most important macroscopic properties for the safety performance of a fuel material).	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															23	PhD Amir Hen	PhD thesis of Amir Hen. This work will report on the basic (synthesis, structural, magnetic, electronic and thermodynamic) properties of intermetallic neptunium-based compounds. Collaboration JRC-Israel Atomic Energy Commission.	31/12/2015	PhD thesis
															24	Nuclear Fuels Related Materials data 2015	Reference data for the basic characterization of Nuclear Fuels Related Materials (advanced or conventional), including structural, magnetic, electronic and thermodynamic properties at extreme conditions (low temperature, high field, high pressure).	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															25	New 9th edition of Karlsruhe Nuclides Chart	Release of the 9th edition of the Karlsruhe Nuclides Chart, a comprehensive collection of nuclear data providing information on ground states, decay modes, lifetimes, isotopic abundances, and cross-sections of known nuclides. The chart is continuously updated to take into account new discovery and improved data.	30/12/2016	Monographs with JRC editorship
															31	Sodium coolant oxides fuels interaction effects	Establishment of phase diagrams for systems resulting from the interaction of oxide fuels with liquid sodium coolant in accidental conditions, as basic input for the development and validation of safety models for Gen IV reactors.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															32	Report on controlled and updated nuclides KNC 2016	Scientific report containing the list of updated nuclides data for the expansion of the Karlsruhe Nuclide Chart database in preparation of its 10th edition, which is planned to be released in 2018.	31/12/2016	JRC Technical reports
															33	Synchrotron spectroscopy techniques	Demonstration of the potential of novel spectroscopic techniques based on polarized (XMCD) and unpolarized (NIXS) synchrotron radiation in the x-ray band for the physical characterization of actinides in fuel materials.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
35	Nuclear Fuels Related Materials data 2016	Reference data for the basic characterization of Nuclear Fuels Related Materials (advanced or conventional), including structural, magnetic, electronic and thermodynamic properties at extreme conditions (low temperature, high field, high pressure).	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index															
385 - ND-Fission Fission neutron standard and advanced studies of neutron-induced fission for innovative systems	This project determines high quality nuclear data requested with high priority by the OECD Nuclear Energy Agency, the IAEA and Member states laboratories, which are needed for assessing the fission neutron standard and for nuclear criticality safety calculations(C/96/29,2009/71; 2012/C 327/01). Accurate fission parameters will be determined to improve inventory estimates, to further increase the understanding of the neutron spectrum from fission and to assess heating by gamma rays.	JRC.D.4 Arjan PLOMPEN	3.3.3.1.a	ENER	n/a	DG ENER D2 Nuclear Energy technology, Nuclear waste and Decommissioning		CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives IAEA - International Atomic Energy Agency (IAEA) NEA - Nuclear Energy Agency (OECD) US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	6-Reference materials and measurements (75%) 9-Education & training (25%)				INS-UR	2	Feasibility of Cf-252 neutron spectrum measurement	A report will describe the result of a feasibility study for measuring the Cf-252 prompt fission neutron spectrum along with supporting measurements of the fission fragments with high resolution using the VERDI setup. The latter are of interest for developing a physical model for the prompt fission neutron spectrum and other key parameters characterising the fission process. The report also documents progress with the prompt fission gamma measurements.	01/11/2015	JRC Technical reports
															3	Feasibility fission gamma measurements for Pu-239	A report will describe the efforts undertaken to study the feasibility of accurate measurements of the prompt fission gamma-spectrum and intensity for Pu-239 in a thermal neutron spectrum. Issues will be identified along with potential counter measures. The potential for a successful follow-up project for this high priority issue will be evaluated with recommendations concerning the required technical and method upgrades.	01/11/2016	JRC Technical reports
															4	First measurements of the Cf-252 neutron spectrum	The report will describe the result of first measurements of the Cf-252 prompt fission neutron spectrum along with the analysis of the results of the measurements of the fission fragments with the VERDI setup. The implications of both efforts for the understanding of the fission neutron spectrum and the fission process will be highlighted. An evaluation of the need for follow up work will be included in view of potential further efforts in Horizon2020.	11/11/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
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449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMa)	The objective is to support the development and qualification of materials and components and associated assessment methods for next generation reactors. The project integrates modelling and experimental work, with emphasis on high temperature issues. The project is strongly linked to JRC contribution to EERA Joint Programme on Nuclear Materials. Policy support is included through contribution to ENEF and SNETP (ESNII & NC2I).	JRC.F.4 Karl-Fredrik NILSSON	3.3.3.1.a	ENER	n/a	Mykola DZUBINSKY, Scientific / Technical Project Officer in RTD.DDG3.K.4 (Fission) Unit, mykola.dzubinsky@c.europa.eu	ENER	50 - ARCHER ARCHER: Advanced High-Temperature Reactors for Cogeneration of Heat and Electricity R&D 74 - MATTER MATTER: Materials Testing and Rules 450 - PreMaQ Pre-normative Materials Qualification Research (PreMaQ) 451 - SANuC Safety Assessment of Nuclear Fuel Cladding (SANuC) 476 - NC2I-R NC2I-R: Nuclear Cogeneration Industrial Initiative GIF - Generation-IV International Forum IAEA - International Atomic Energy Agency (IAEA) KIT - Karlsruhe Institute of Technology NRG - Nuclear Research and consultancy Group, NRG SNETP - Sustainable Nuclear Energy Technology Platform (SNETP) VTT - Technical Research Centre of Finland	01/01/2014 31/12/2016	1-Foresight studies & techniques (20%) 4-Methods and testing (30%) 7-Scientific, technical & policy consultancy (50%)	JRC.E.3 JRC.E.4	INS-RS	20151	On Thermal fatigue in P91	Submission of peer review paper on thermal fatigue at elevated temperatures in P91 and 316L steel pipes. The paper will include modelling and experimental results. The content will depend of the progress and results obtained.	15/09/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														20152	Update EERA JPNM SP1: ESNII support	Update of EERA JPNM Sub-programme 1: ESNII support. The sub-programme is update annually to cover new needs and progress in ongoing projects. JRC as sub-programme leader writes the report. The report is approved by the EERA JPNM Steering Committee.	31/12/2015	JRC Scientific support
														20153	High temp. crack propagation	Submission of peer review paper on crack propagation for static (creep) and cyclic (creep-fatigue) at elevated temperature for nuclear steels. The computed results will be compared with experimental data. The overall objective is to derive methodologies with different complexities from Design Codes to advanced physics-based models.	31/12/2015	JRC Technical reports
														20155	CEN WS64 – Phase 2, Gen-IV Reactors, Annual Report	JRC is convenor for the Group on long- and medium term needs for Design Codes and pre-normative research for Gen IV nuclear reactors. The project started in mid 2014. This Deliverable is the report of the first year's activities in the Gen IV Working Group.	15/08/2015	Scientific and policy reports
														20156	Technical design dossier LFR material test lab	Integrated technical design of the LFR material testing facility, incl. descriptions, engineering specifications, and operational characteristics of all systems, components, and other equipment. Testing program for functional and performance tests and for commissioning of the laboratory.	30/04/2015	Technical systems
														20157	Design and safety report LFR material test lab	Design and Safety Report covering the whole life-cycle of the laboratory and including: a/ a description of the facility and its safety features; b/ a risk analysis of the facility, incl. environmental and health aspects; c/ hydrogen safety aspects.	30/04/2015	Technical systems
														20158	Integration of JRC with international Networks	Contribution to EU and international Networks is an important part of our work. The foreseen work includes: - Cooperation in GIF bodies to align JRC work programme on Gen IV reactors with international strategy. - Contribution and review of GIF project plans, annual reports (SFR, LFR, VHTR, SCWR) - Contribution to Euratom-GIF coordination - Contribution and review of SNETP strategy documents	15/12/2015	Scientific and policy reports
														20161	Update EERA JPNM Roadmap	Update of EERA JPNM Sub-programme 1: ESNII support. The sub-programme is update annually to cover new needs and progress in ongoing projects. JRC as sub-programme leader writes the report. The report is approved by the EERA JPNM Steering Committee.	31/12/2016	JRC Scientific support
														20162	Integrity of welds and role of residual stress	Report on structural integrity and residual stress measurements for welds in Gen IV components. This activity has been proposed as a EERA JPNM Pilot project. If approved the work will start in 2014. The overall objective is to derive a methodology for weld integrity addressing residual stresses, non-homogeneous material properties and geometrical factors.	31/12/2016	Scientific and policy reports
														20163	Methodology for crack propagation	Report on methodology for high temperature crack propagation under cyclic loading and creep. Probably this will also be a peer-reviewed article. The content of the report will reflect the progress in 2016.	31/12/2016	JRC Technical reports
20164	Challenges in material R&D for advanced reactors	Review of material issues associated to advanced reactor concepts to prioritise further JRC research needs on materials. Feedback of material performance limits to evaluate safety performance of advanced reactor concepts.	20/12/2016	Scientific and policy reports														
20165	Installation and commissioning LFR material lab	Technical report on construction, delivery, installation, and commissioning of the LFR material testing laboratory.	15/04/2016	Technical systems														
451 - SANuC Safety Assessment of Nuclear fuel Cladding (SANuC)	The objective is to develop methodologies, tools & improve material data for safety assessments of fuel cladding integrity. The project will: 1) review current methodologies & data for modelling of cladding & fuel-cladding interaction; 2) improve selected models & material data; 3) perform & contribute to supporting experiments in the field;	JRC.F.4 Karl-Fredrik NILSSON	3.3.3.1.a	ENER	n/a	Mykola DZUBINSKY, Scientific / Technical Project Officer in RTD.DDG3.K.4 (Fission) Unit, mykola.dzubinsky@c.europa.eu	ENER	19 - FAIRFUELS FAIRFUELS - Fabrication, Irradiation and Reprocessing of FUELS and targets for Transmutation 21 - NFMS Nuclear fuel modelling and simulation 126 - PELGRIMM PELGRIMM - Pellets versus granulates: Irradiation, Manufacturing & Modelling 128 - JASMIN Joint Advanced Severe accidents Modelling and Integration for Na-cooled fast neutron reactors 448 - IntAG-LWR Integrity and Ageing of present Light Water Reactors and future Water cooled Reactors (IntAG-LWR) 449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMa) 477 - SCWR-FQT Supercritical Water Reactor - Fuel Qualification Test 480 - MATISSE MATISSE: Materials' Innovations for a Safe and Sustainable nuclear in Europe 578 - SAFARI Safety Assessment for Innovative Gen III+ and Gen IV reactors 515 - INFEST Innovative Fuel Safety	01/01/2014 31/12/2016	4-Methods and testing (50%) 6-Reference materials and measurements (20%) 7-Scientific, technical & policy consultancy (30%)	JRC.E.3 JRC.E.4	INS-RS	20151	Status report on cladding integrity assessments	The integrity of fuel pin and fuel-cladding interaction have been recognised as important safety topics, among others in the European Energy Research Alliance (EERA) Joint Programme on Nuclear Materials (JPNM). In preparation to fulfilment of our commitments in the MATISSE FP7 project, a review will be performed of methodologies, codes and existing material property data, focusing on the cladding and fuel-cladding interaction. Gaps and further R&D needs will be identified.	30/06/2015	Scientific and policy reports	
													20152	Selection of cladding integrity analysis tool	On the basis of outcomes of Deliverable 20151, a suitable computational modelling tool will be selected & a reference input for fuel cladding integrity analysis will be set up. Direction of further work will be outlined towards the goal of supporting priorities of the European Energy Research Alliance (EERA) Joint Programme on Nuclear Materials (JPNM) and collaborative activities with TSOs on fuel modelling under transient & accident conditions. Focus of the latter is on Gen II-III systems.	31/12/2015	Scientific and policy reports	
													20153	PRP on pellet & SpherePac driver fuel irradiation	Based on the design of FAIRFUELS SPHERE irradiation, a peer-review paper will be published describing the design of the SPHERE irradiation on the behaviour of pellets and SpherePac UO ₂ -based MA-bearing driver fuels containing 3% Am. SpherePac fuels have an advantage of dust-free fabrication process (reducing risk for contamination) & they are hypothesised to cater better for solid FP swelling, increasing thus safety margins for cladding failure.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
													20154	Fuel Cladding Test methodologies (SP, SCM, RC)	This report will summarize the results from the round robin test programme on thin-walled cladding tubes. JRC will use small punch, segmented expanding cone mandrel test and ring compression. The project is a EERA JPNM Pilot project.	30/08/2015	Scientific and policy reports	
													20155	M5: Data Compilation and Assessment for Implementa	Technical report on M5 light-water reactor cladding material properties. Data from open literature sources, incl. the ASTM proceedings and technical documentation from other cladding integrity codes, will be collected and assessed for both normal and off-normal conditions. Assessment for implementation of available M5 cladding material properties into TRANSURANUS and possible new and/or modified FORTRAN routines for TRANSURANUS will be prepared.	30/06/2015	Scientific and policy reports	
													20162	PRP on pellet & SpherePac blanket fuel irradiation	Based on the design of PELGRIMM MARINE irradiation, a peer-review paper will be published describing the design of the MARINE irradiation on the behaviour of pellets and SpherePac UO ₂ -based MA-bearing blanket fuels containing 15% Am. SpherePac fuels have an advantage of dust-free fabrication process (reducing risk for contamination) & they are hypothesised to cater better for solid FP swelling, increasing thus safety margins for cladding failure.	30/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
													20164	Report on modelling of CABRI Safety Experiments w	Technical report on the analysis of CABRI reactor safety experiments with the TRANSURANUS code. Recommendations for further modelling methodology development and for code improvements will be provided.	30/12/2016	Scientific and policy reports	
													20165	Final Report Mechanical Tests for fuel claddings	This report will summarize the results and the conclusions from the EERA JPNM pilot project TASTE on mechanical tests for thin-walled fuel claddings. All tests methods will be assessed with respect to their strength and weaknesses from which general recommendations will be made.	30/09/2016	Validated methods, reference methods and measurements	
480 - MATISSE MATISSE: Materials' Innovations for a Safe and Sustainable nuclear in Europe	JRC main role is to contribute to the roadmaps for structural materials and fuel. JRC is leader for the WP on support to safety of ESNII reactors w.r.t. i) creep-fatigue ii) coatings iii) fuel-cladding interaction iv) material degradation in heavy liquid metal. The JRC technical contribution is mainly for creep-fatigue and fuel cladding interaction.	JRC.F.4 Karl-Fredrik NILSSON	3.3.3.1.a	RTD	RTD	Mykola Dzubinsky	ENER GROW	21 - NFMS Nuclear fuel modelling and simulation 74 - MATTER MATTER: MATerials TESting and Rules 449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMa) 450 - PreMaQ Pre-normative Materials Qualification Research (PreMaQ) 451 - SANuC	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)	JRC.E.2	COM-IA	3	Creep-fatigue materials database	Database of creep-fatigue test data generated in the MATISSE project using IET's web-enabled data base MatDB with DOIs (Matisse Del. 5.1.4)	15/12/2016	Scientific information systems and databases	
													4	Report on creep-fatigue crack growth	A synthesis report on developed and applied computational models for creep-fatigue crack growth with comparison of predictions with tests performed and recommendations for engineering applications (Matisse Del. 5.1.3)	30/06/2016	Scientific and policy reports	
													6	D5.31: Data and models for fuel cladding	Progress report for fuel cladding with special emphasis on review of data and models. Input to WP1.	31/10/2015	JRC Technical reports	
													7	Strategic Vision Paper	JRC contribution to the EERA JPNM strategic vision paper including a detailed R&D roadmap and deployment strategy in line with the SET-PLAN and in particular with the SET-Plan Materials for Energy Road-Map and taking into account the ESNII and the SNETP requirements (Matisse Del. 1.2.1).	30/04/2016	JRC contributions to policy documents	

JRC WORK PROGRAMME 2015 - 2016																			
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524 - LAMA Local structure of nuclear Materials	Dedicated samples pertinent to the nuclear fuel cycle will be prepared and their crystallographic structure characterised by three methods (X-ray Diffraction and Absorption, Nuclear Magnetic Resonance) to determine long, mid and short range order and disorder in the positioning of the individual atoms. The results will be made available to research groups in Europe for use as input into theoretical studies, and theory validation programmes.	JRC.E.4 DAMIEN PRIEUR	3.3.3.1.a	JRC	n/a	n/a		- UNIVERSITY OF CAMBRIDGE - UNIVERSITY OF SHEFFIELD - University of Manchester - Imperial College London - CENTRE NATIONAL DE RECHERCHES METEOROLOGIQUES METEO FRANCE CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives EERA - European Energy Research Alliance ESNII - European Sustainable Nuclear Industrial Initiative KIT - Karlsruhe Institute of Technology NRG - Nuclear Research and consultancy Group, NRG PSI - Paul Scherrer Institute SNETP - Sustainable Nuclear Energy Technology Platform (SNETP)	01/01/2014 31/12/2016	4-Methods and testing (100%)		368 - SUPRACLEAR Standard nuclear data and Underpinning Research on nuclear fuels	INS-UR		52420151	SUPERFACT Local Structure	Twenty years ago JRC pioneered the synthesis and irradiation of minor actinide fuels in the SUPERFACT programme. These materials are still stored in the JRC-ITU today. Following their recovery, they will be annealed and their local structure determined by means of X-ray spectroscopy, enhancing the local structure of archive material will be determined	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															52420152	Local structure in Uranium lanthanide dioxides	XAS and MAS NMR studies in the (U,Ln)O ₂ -x system	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															52420153	Solid solutions NMR shifts of (U,Np)O ₂	A series of samples will be doped in 17O for NMR measurements in JRC's unique magic angle spinning NMR spectrometer. The local concentration of the oxygen - metal subunits will be established	29/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															52420161	MOX fuels - a local structure evaluation	XAS and MAS NMR study of local structure in stoichiometric and substoichiometric MOX fuels	24/11/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
3.3.3.1.b Providing state-of-the-art nuclear reference materials, measurements and data. Development and implementation of relevant test standards, databases and assessment tools, contributing to internationally recognised nuclear databases and pre-normative research to support European standardisation activities;																			
406 - ND-Standards Enhancing nuclear data quality assurance through a new IAEA Standards Evaluation	Quality assurance for safety assessments relies on quality assured standards for nuclear data (COM/2011/311, C/2009/71, C/96/29). The IAEA Standards Evaluation provides a comprehensive set of reference nuclear data standards providing the basis for accurate nuclear measurements. This project contributes new experimental data using the JRC accelerator-based neutron sources and recommendations for new and extended neutron reaction standards: B-10(n,a), Li-6(n,t), Au-197(n,g), Li-7, Ti-48(n,n,g).	JRC.D.4 Arjan PLOMPEN	3.3.3.1.b	ENER	n/a	DG ENER D2 Nuclear Energy technology, Nuclear waste and Decommissioning		IAEA - International Atomic Energy Agency (IAEA) MS EU - Member states EU NEA - Nuclear Energy Agency (OECD)	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)			INS-RS	3	JRC data for the Ti-48 standard	Summary report on the JRC contributions to the establishment of a new gamma-ray standard with the Ti-48(n,n,g) reaction.	05/12/2015	Scientific and policy reports	
														4	JRC recommendations for the IAEA standards	Final report on the JRC activities and consequent recommendations for the IAEA Nuclear Data Standards evaluation including the extension of the nuclear data standards for the Li-6(n,t) reaction.	15/11/2016	Scientific and policy reports	
450 - PreMaQ Pre-normative Materials Qualification Research (PreMaQ)	Building on advanced non-destructive evaluation methods developed in the unit, like ultrasonic, neutron diffraction, thermoelectric power measurements, x-ray tomography, small punch creep and fracture tests, and nano-indentation, three objectives are pursued: I. Materials Characterisation pre-normative R&D, in order to characterise manufacturing quality, service-induced degradation, and inspectability of nuclear structural materials and components II. Applications lifetime/integrity assessments of welded components with respect to thermal fatigue related crack initiation and growth III. Standardisation harmonised methods and international standards development for the characterisation of advanced materials and welded components, in particular the ISO/TC 135 WG on residual stress measurements and the revision of the CEN WA 15627 on Small Punch testing.	JRC.F.4 Karl-Fredrik NILSSON	3.3.3.1.b	GROW	n/a	Hein Bollens (HoU) GROW.J.4	NEAR RTD	CEN - European Committee for Standardization EERA - European Energy Research Alliance ESNII - European Sustainable Nuclear Industrial Initiative GIF - Generation-IV International Forum ISO - International Organization for Standardization (ISO) NUGENIA - Nuclear Generation II & III Association SNETP - Sustainable Nuclear Energy Technology Platform (SNETP)	01/01/2014 31/12/2016	3-Instrumentation & hardware (20%) 4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (30%)		74 - MATTER MATTER: MATerials TESting and Rules 448 - IntAG-LWR Integrity and Ageing of present Light Water Reactors and future Water cooled Reactors (IntAG-LWR) 449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMA) 480 - MATISSE MATISSE: Materials' Innovations for a Safe and Sustainable nuclear in Europe 737 - DATA Data Acquisition Transfer and Analysis (DATA)	INS-UR		20151	Nano-indentation testing of metal alloys	Report on the protocol for measuring nano-mechanical properties of alloys at different temperatures and comparison with material data derived from Standard tests. This report serves as a feasibility study of nano-indentation.	31/10/2015	Validated methods, reference methods and measurements
															20152	Commissioning of TOFD inspection system	Commissioning of new TOFD system to detect and size thermal fatigue cracks.	30/06/2015	Technical systems
															20153	ECCC round robin Small Punch Creep Test	Multi-laboratory SP test programme for test result intercomparison and development of models for relating SP creep to uniaxial creep. The results of this work will influence deliverable 20161 (CEN CWA 15627 on SP creep).	30/11/2015	Validated methods, reference methods and measurements
															20154	Updated instrument control system HFR/HB4	Installation of updated software and hardware at residual stress diffractometer HFR/HB4 to replace obsolete equipment (more than 15 years old)	31/12/2015	Technical systems
															20155	Development of a High Cycle Fatigue (HCF) test rig	User manual and source code documentation of a dedicated data acquisition and control software tool for carrying out environmental very high cycle fatigue tests with ultrasonic excitation in asymmetric push-pull mode	15/04/2015	Technical systems
															20161	Revision of CEN CWA 15627 on SP creep	Revised code-of-practice CEN CWA 15627 for small punch creep testing, reflecting results from validation testing	30/11/2016	Validated methods, reference methods and measurements
															20162	revised ISO standard document on residual stress	Submission of revised draft of standard document on residual stress measurements by neutron diffraction to ISO for consideration as full standard	30/10/2016	Validated methods, reference methods and measurements
460 - ND-ReferenceData Nuclear reference data for safety, security, waste and innovation	This project determines reference nuclear data for copper, calcium and cerium in the interest of nuclear safety, security, waste and innovation (C/2009/71, C/2011/70, 2012/C 327/01). New data will be provided for total, radiative capture and inelastic scattering reactions using the GELINA facility. These data will be confronted with existing evaluations to provide recommendations for improvement. Thereby the project improves safety assessments involving these nuclear materials.	JRC.D.4 Arjan PLOMPEN	3.3.3.1.b	ENER	n/a	DG ENER D2 Nuclear Energy technology, Nuclear waste and Decommissioning		MS EU - Member states EU NEA - Nuclear Energy Agency (OECD) US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	6-Reference materials and measurements (75%) 9-Education & training (25%)			INS-RS	2	Neutron cross section data for calcium	Summary report with the results of the calcium total cross section and radiative capture cross section measurements, their analysis and interpretation including recommendations for improved evaluated files	30/11/2015	Scientific and policy reports	
														3	Cerium nuclear reference data for nuclear safety	This project determines reference nuclear data for cerium in the interest of nuclear safety, waste and innovation. New data will be provided for cerium total and radiative capture cross sections using the GELINA facility. These data will be confronted with existing evaluations to provide recommendations for improvement. Thereby the project improves safety assessments involving this material of interest to innovative ceramics and detectors.	01/12/2016	Scientific and policy reports	
499 - ND-CIELO CIELO: Pilot studies for a world-wide standardised nuclear data file for nuclear safety	A Collaborative International Evaluated Library Organisation (CIELO) aims at world-wide standardisation of evaluated nuclear data for harmonized safety assessments in nuclear energy by the international experts (C/2009/71, C/2011/70, 2012/C 327/01). CIELO starts with a pilot launched by the OECD-NEA addressing a small number of high priority nuclides: H-1, O-16, Fe-56, U-235, U-238, Pu-239. JRC will be in charge of two nuclides contributing with accurate measurements and expert advice.	JRC.D.4 Arjan PLOMPEN	3.3.3.1.b	ENER	n/a	DG ENER D2 Nuclear Energy technology, Nuclear waste and Decommissioning		IAEA - International Atomic Energy Agency (IAEA) MS EU - Member states EU NEA - Nuclear Energy Agency (OECD)	01/01/2014 31/12/2016	6-Reference materials and measurements (30%) 7-Scientific, technical & policy consultancy (70%)			INS-RS	2	Methods of evaluation for U-238 and O-16	A summary report will be presented to the CIELO project subgroup of the OECD-NEA summarizing: 1) The available methods and their status of existing evaluations for U-238 2) The available methods and their status of existing evaluations for O-16	15/11/2015	Scientific and policy reports	
														3	Final recommendations for U-238 and O-16	This summary report will provide the final recommendations for new evaluations of U-238 and O-16. The report includes: 1) The outcome of high resolution, high accuracy transmission measurements for U-238 2) The outcome of high resolution, high accuracy transmission measurements for O-16 3) The recommended evaluation for U-238 4) The recommended evaluation for O16.	31/12/2016	Scientific and policy reports	
502 - ND-ReactorDosimetry Improving the international reactor dosimetry standards of the IAEA IRDFF-library	Reactor dosimetry determines a.o., the operational life time of reactor components and fuel and therefore for reactor safety (C/2009/71, C/2011/70, 2012/C 327/01). Reference dosimetry standards are kept by the IAEA in the International Reactor Dosimetry library for Fission and Fusion (IRDFF). This project contributes to the IAEA-CRP on validation of key dosimeter reactions of the IRDFF through improved characterisation of the neutron-sources used to develop and test these dosimeters.	JRC.D.4 Arjan PLOMPEN	3.3.3.1.b	ENER	n/a	DG ENER D2 Nuclear Energy technology, Nuclear waste and Decommissioning		IAEA - International Atomic Energy Agency (IAEA) MS EU - Member states EU	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)			INS-RS	2	Characteristics of the T(d,n) neutron source	Summary report on the experimental efforts for the characterisation of the H-3(d,n) source reaction for accelerator produced neutrons on the basis of experiments carried out at IRMM and its partner laboratories (ENEA, PTB, NPL). The impact on dosimeter reactions validation will be highlighted.	31/10/2015	Scientific and policy reports	
														3	Improved data for dosimetry standards	A report will be made for the IRDFF-CRP of the IAEA detailing the outcome of new high accuracy measurements for dosimeter reactions with reference to nuclear data standards. The characteristics of the neutron source reactions determined in the previous years will be taken into account in the form of new simulation tools.	15/10/2016	Scientific and policy reports	

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category														
586 - RN-Standards Harmonisation and standardisation of the radioactivity measurement system	In line with Article 8 of the Euratom Treaty, consultancy on the construction of a distributed radioactivity standard and provision of reference measurements for key comparisons of the Consultative Committee for Ionizing Radiation (CCRI) of the International Committee for Weights and Measures (CIPM), used to harmonise and standardise the radioactivity measurement system and to establish equivalence in radioactivity measurement results between EU member states and countries world-wide.	JRC.D.4 Mikael HULT	3.3.3.1.b	ENER	n/a	Ivo Alehno, D3		BIPM - International Committee on Weights and Measures IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	4-Methods and testing (50%) 6-Reference materials and measurements (50%)			INS-RS	2	Reference measurements of 137Cs	Reference measurements for a key comparison of the Consultative Committee for Ionizing Radiation (CCRI) of the CIPM, used to establish traceable reference values in air filter comparison for DG ENER and Member States' laboratories, under Commission Recommendation 2000/473/Euratom on the monitoring of radioactivity levels in the environment.	31/01/2015	Validated methods, reference methods and measurements														
														4	Reference measurements of a radionuclide	Reference measurements depending on scheduling of CCRI key comparisons (of a radionuclide relevant in either nuclear medicine, radioactive waste management, decommissioning, or nuclear safety and security)	30/09/2016	Validated methods, reference methods and measurements														
														5	Reference paper on uncertainty of half-lives	Write a reference paper on the uncertainty of half-lives, as part of an Uncertainty Monograph of the CCRI(II)	31/01/2015	Article contribution to a monograph														
														6	Reference paper uncertainty in alpha spectrometry	Write a reference paper on uncertainties in alpha-particle spectrometry, as part of the Uncertainty Monograph of CCRI(II)	31/01/2015	Article contribution to a monograph														
														7	Reference paper DSA counting	Write a reference paper on uncertainties in defined-solid-angle counting as a primary standardisation technique of activity, as part of the Uncertainty Monograph of CCRI(II)	31/01/2015	Article contribution to a monograph														
														8	Reference paper uncertainty 4pi-gamma counting	Write a reference paper on uncertainties in 4pi-gamma counting as a primary standardisation technique for activity, as part of the Uncertainty Monograph of CCRI(II)	31/01/2015	Article contribution to a monograph														
														9	Reference paper counting statistics	Contribute to the writing of a reference paper on uncertainties in nuclear counting, as part of the Uncertainty Monograph of CCRI(II)	31/01/2015	Article contribution to a monograph														
														10	Reference values for hospital calibrators	Provide reference values for the activity of F-18, In-111 and Tc-99m for proficiency tests of calibrations of activity in Belgian hospitals. Diagnostics with these nuclides will become more and more quantitative, therefore traceability to the becquerel needs to be established through primary and secondary calibrations.	01/04/2016	Validated methods, reference methods and measurements														
														11	Reference paper of PMM	Reference paper on the calculation of the power-moderated mean to establish a mean and uncertainty of a discrepant data set	31/07/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														587 - RN-post Fukushima Post-Fukushima measurement support	Provide measurement results to a study of the Pacific Ocean inventory of radionuclides released during the Fukushima reactor accident (Oceanographic Society, Meteorological Research Institute of Japan and Fukushima University) aiming at tracing of ocean currents and the assessment of the long term effect on the dose to humans. Provide measurement support to the certification of reference materials for radionuclides in different food and environmental matrices.	JRC.D.4 Mikael HULT	3.3.3.1.b	ENER	n/a	Michel Herzeele, ENER D.3, Ivo Alehno, ENER D.3	SANTE	Korean Research Institute of Standards and Science National Metrology Institute of Japan IAEA - International Atomic Energy Agency (IAEA) IAEA-MEL - Marine Environment Laboratory of IAEA Nat Reg - National Regulatory Bodies	01/01/2014 31/12/2016	4-Methods and testing (50%) 6-Reference materials and measurements (80%)			INS-RS	2	Certification measurement results	Provide measurement results to the certification of a food matrix reference material of Korean Research Institute for Standards and Science (KRISS) or national Metrology Institute of Japan (NMIJ).	30/09/2015	Validated methods, reference methods and measurements
																												4	Certification measurement results	Provide measurement results to the certification of a food or environmental matrix reference material of IAEA.	31/10/2016	Validated methods, reference methods and measurements
588 - RN-RefData Reference nuclear decay data in support to nuclear policies	Provide method development and nuclear decay data in support to nuclear safety, safeguards and radioactive waste management, and to new applications in nuclear medicine, in the framework of COM(2012)242 Proposal for a Council Directive laying down basic safety standards, Council Decision 2010/212/CFSP (relating to non-proliferation of nuclear weapons) and Communication COM(2010)423 to EP and Council on medical applications of ionizing radiation and supply security of radioisotopes for medicine.	JRC.D.4 Mikael HULT	3.3.3.1.b	ENER	n/a	Ivo Alehno, D3		ESARDA - European Safeguards R&D Association Env Rad EU - EU Member State authorities competent for environmental radioactivity IAEA - International Atomic Energy Agency (IAEA) Nat Reg - National Regulatory Bodies Reg EU - EU Nuclear Safety Regulatory Authorities	01/01/2014 31/12/2016	4-Methods and testing (50%) 6-Reference materials and measurements (50%)			INS-RS	4	Reference data for a new tool for safeguards	Pu and Am conversion electron spectrometry using silicon drift detectors; reference data for a newly developed method.	31/12/2015	Validated methods, reference methods and measurements														
														5	New tool for safeguards	Pu and Am conversion electron spectrometry using silicon drift detectors; development of a new method for application in safeguards.	31/08/2015	Scientific and policy reports														
														6	U-235/Ac-227 decay chain characteristics	The U-235/Ac-227 decay chain is important as NORM (naturally occurring radionuclide material), accounting in building materials for the major part of the dose. The daughter product Ra-223 is recognised as important emerging radioisotope for alpha immunotherapy.	31/10/2016	Scientific and policy reports														
														7	Half-life of Na-22	Na-22 is the most important calibration source of beta-plus nature. There is discrepancy of the half-life in literature. We will provide a new value with the lowest uncertainty.	01/04/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
613 - NS-Targets Characterised targets for nuclear physics studies on reactor safety, waste transmutation, safeguards	Provision and development of well characterised high-quality targets for the measurements of constants critical for nuclear safety reactor systems and for dealing with long-lived nuclear waste supporting Council directive 2009/71/EURATOM and the Council Conclusions EUCO 10/11 of 24/25 MARCH 2011. Providing targets for studies on neutron resonance densitometry analysis carried out under the JRC-JAEA CA for future verification measurements of the debris (melted fuel) of Fukushima	JRC.D.4 Yetunde AREGBE	3.3.3.1.b	ENER	n/a	P Schwalbach (ENER.E.1.2)	GROW	CERN - European Organization for Nuclear Research CERCA/AREVA - CERCA/AREVA - France IAEA - International Atomic Energy Agency (IAEA) JAEA - Japan Atomic Energy Agency	01/01/2014 31/12/2016	3-Instrumentation & hardware (40%) 4-Methods and testing (45%) 6-Reference materials and measurements (15%)		507 - ND-CHANDA Challenges in nuclear data for innovative solutions to safety of nuclear energy 517 - ND-Fukushima Neutron Resonance Densitometry for the characterisation of molten Fukushima-Daiichi fuel	INS-RS	2	Well-characterised targets	30 well-characterised targets on demand for neutron data measurements in support to nuclear safety and nuclear safeguards	10/12/2016	Validated methods, reference methods and measurements														
														4	Publication on target preparation for safeguards	Article on target preparation techniques in support of applications in nuclear safeguards	01/07/2015	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														5	Publication on actinide target preparation	Peer reviewed article on preparation of actinide thin targets for key minor and major actinides for high accuracy nuclear data studies; including new instrumental equipment	22/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
630 - NS-QualControl Quality control tools for standardisation in the field of nuclear security and safeguards	Development of metrological quality/conformity assessment tools for method validation and quality control in nuclear material verification and detecting undeclared nuclear activities supporting Council Decision 2012/212/CFSP. This project includes pre-normative research, provision of reference measurements, organisation of interlaboratory comparisons and contributions to document standards in the nuclear field aiming at standardisation and innovation (COM(2010)614).	JRC.D.4 Yetunde AREGBE	3.3.3.1.b	ENER	n/a	Peter SCHWALBACH (DG ENER.E.1.2)	GROW JRC	UKRI - UK Research and Innovation Seibersdorf laboratories - IAEA BRITISH NUCLEAR GROUP SELLFIELD LT AREVA NP - AREVA NP Main Company CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CERCA/AREVA - CERCA/AREVA - France CETAMA - Commission d'Analyse du CEA (CETAMA) France IAEA - International Atomic Energy Agency (IAEA) IAEA-MEL - Marine Environment Laboratory of IAEA JAEA - Japan Atomic Energy Agency JNFL - Japan Nuclear Fuels Limited (JNFL) - Japan KAERI - Korea Atomic Energy Research Institute	02/01/2014 31/12/2016	4-Methods and testing (40%) 6-Reference materials and measurements (60%)		684 - IAEA-ECSP Coordination of IEC Support Programme to IAEA 700 - NSRD Nuclear Safeguards R&D	INS-RS	8	Report on REIMEP-20 for safeguards	Report on REIMEP-20: Interlaboratory Comparison on uranium isotope mixtures (focusing on spread of U-234 close to natural)	31/12/2015 10/12/2016 06/06/2016	Validated methods, reference methods and measurements Scientific and policy reports														
														9	Article on improved TIMS methods for actinides	Publication in a peer reviewed journal on development of an MTE method for Th and Am measurements	30/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
														10	Report on study on NUSIMEP on soil	Report on feasibility of carrying out a NUSIMEP ILC for laboratories in nuclear safeguards, nuclear security and environmental control on isotopic signatures from soil samples of different geographic origin (contaminated - non-contaminated)	04/11/2015	Scientific and policy reports														
														11	Book chapter on Pu Quality Control Tools	Los Alamos National Laboratory, in collaboration with worldwide institutions, took the initiative to update the Plutonium Handbook with publication foreseen by the American Nuclear Society in 2016. The Plutonium Handbook, edited by O.J. Wick, was first printed in 1967. IRMM has been invited to contribute with a chapter on interlaboratory comparisons - conformity assessment (REIMEP, EQRAIN) and Reference materials	01/11/2016	Article contribution to a monograph														
737 - DATA Data Acquisition Transfer and Analysis (DATA)	Data is a driving force for knowledge generation and innovation. The DATA project will contribute to delivering innovative procedures for collecting, exchanging, and analyzing data, namely related to nuclear structural materials. It will also support harmonization of European design codes and consolidate research data on material aging.	JRC.F.4 TIMOTHY AUSTIN	3.3.3.1.b	ENER	n/a	Georges van Geotherm, DG Research and Innovation, Unit K4 Fission, CDMA 1/47, +32 2 295 14 24, georges.van-geotherm@ec.europa.eu	RTD	CEN - European Committee for Standardization GRS - Gesellschaft für Anlagen und Reaktorsicherheit MBH IAEA - International Atomic Energy Agency (IAEA) Nuc Ind - Nuclear Industry US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	2-Information systems & services (100%)			50 - ARCHER ARCHER: Advanced High-Temperature Reactors for Cogeneration of Heat and Electricity R&D 448 - IntAG-LWR Integrity and Ageing of present Light Water Reactors and future Water cooled Reactors (IntAG-LWR) 449 - MaCoSyMA Materials, Components, Systems and Methods for Advanced Nuclear Systems (MaCoSyMA) 450 - PreMaQ Pre-normative Materials Qualification Research (PreMaQ) 480 - MATISSE Materials' Innovations for a Safe and Sustainable nuclear in Europe	INS-RS	4	European aging knowledge base prototype	A prototype European knowledge base on NPP component ageing mechanisms will be delivered based on the findings of the feasibility study undertaken in 2014.	15/12/2015	Scientific information systems and databases													
															5	Support to test laboratories	In support of the environmental fatigue and creep fatigue activities that are planned in the scope of IntAG-LWR (JBP id 448), work will be performed that uses the standard data formats delivered by the ELSSI-EMD and SERES CEN Workshops (JBP id 224) to integrate MatDB with the laboratory test facilities operated by JRC-IET.F04 and thereby allow data to be transferred direct to the database.	15/12/2015	Scientific information systems and databases													
															6	ODIN content development	Extend and open-up the ODIN content to a wider end-user community, with four specific activities in mind, namely the migration of the CCFE fusmat database; the renegotiation of the operator agreement pertaining to the IAEA Surveillance Database (in the scope of the IAEA MoU); the aggregation of open content (in the scope of the NIST IA); assigning DOIs to existing content.	15/12/2015	Scientific information systems and databases													
															7	Standardization website	Refine the website design and extend the content to include F4 non destructive testing activities and CEN/WS 64 - Phase 2 (Design and Construction Code for mechanical and civil engineering for Gen II to IV nuclear facilities).	15/12/2015	Scientific information systems and databases													
															8	Technologies for engineering materials data	In this peer reviewed paper the progress in the development of technologies for engineering materials data with which JRC.F.4 has been closely involved will be reported.	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index													
															9	Ageing knowledge base content development	Extend the scope of the knowledge base by adding the content from synthesis reports on two more ageing mechanisms.	15/12/2016	Scientific information systems and databases													
															10	Develop the ODIN portal to support ageing analysis	In support of the European aging knowledge base, this work aims to expose the ODIN content for the purposes of implementing materials aging analysis packages, such as the master-curve analysis. To expose the content a public API (application programming interface) will be implemented against which services (e.g. materials aging analysis packages) can be developed.	15/12/2016	Scientific information systems and databases													

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
3.3.3.1.c Standardisation and harmonisation of the radiological characterisation and measurement methods used in the EU for waste management, decommissioning and environmental monitoring and remediation;																		
845 - RN-ILC Comparisons on radionuclide determinations for monitoring labs	To provide comparisons of radionuclide measurements in environmental matrices and foodstuff for Member States' laboratories, monitoring radionuclides in the environment and food, in order to improve the comparability and reliability of measurement results reported to the Commission by the Member States as laid down in Commission Recommendation COM/2000/473 and Articles 35 and 36 of the Euratom Treaty.	JRC.D.4 Mikael HULT	3.3.3.1.c	ENER	n/a	Ivo Alehno, ENER D.3	SANTE	Env Rad Mon EU - Radioactivity Environmental Monitoring National laboratories and institutes NRLS - NRLS - national reference laboratories Nat Reg - National Regulatory Bodies OCL - Official Control Laboratories	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (100%)		587 - KNEPOST Fukushima Post-Fukushima measurement support 586 - RN-Standards Harmonisation and standardisation of the radioactivity measurement system 584 - RN-RefRad-Food-Feed Evaluation of food and standardisation of feed	INS-RS	2	Comparison report	Report describing the results of the air filter comparison, in particular the performance of the participating monitoring laboratories distributed to the laboratories, member state representatives (nominating authorities), and DG ENER D.3.	28/10/2015	Scientific and policy reports
															5	Investigation for foodstuff for next ILC exercise	Investigation of suitable samples of foodstuff having reference values for radionuclide activity concentration, traceable to SI units and established by IRMM to be distributed to the participating monitoring laboratories of the future ILC.	16/12/2016
3.3.3.1.d Development of EU standards on security and on structural material properties, in cooperation with European standards organisations CEN (European Committee for Standardisation), and CENELEC (European Committee for Electro-technical Standardisation).																		
585 - RN-CBRN-Standards Development of improved standards for testing nuclear security-relevant equipment	To propose and develop improved IEC and CEN standards on qualification of radiation detection equipment used against illicit trafficking within the CBRN framework, under the EU CBRN Action Plan COM/2009/273, and in the framework of the EU security industrial policy - Action Plan for an innovative and competitive security industry COM/2012/417 and the Mandate M/487 to CEN.	JRC.D.4 Mikael HULT	3.3.3.1.d	HOME	n/a	Wiktor WOTJAS	ENER GROW	CEN - European Committee for Standardization Cust Aut MS - MS Customs Authorities EU MS R/N emergencies - EU MS Authorities competent for R/N emergencies IAEA - International Atomic Energy Agency (IAEA) IEC - International Electrotechnical	01/01/2014 31/12/2016	4-Methods and testing (100%)	JRC.E.8	666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations 271 - IMPLEMENTATION CBRN JRC support to the implementation of the EU CBRN Action Plan 866 - ERNCIP	INS-RS	2	Interim report on concepts for draft standard	Interim report describing the concept of improvements to the draft standard including technical difficulties, when applicable, based on experience in the ITRAP+10 project.	30/09/2015	Scientific and policy reports
															3	Standards for equipment testing	Based on experience with ITRAP+10 and after discussions in relevant IEC and CEN working groups, arrive at a new revision of an existing standard (or draft a new standard) for qualification of radiation detection equipment used for nuclear security tasks.	16/12/2016
3.3.3.2 Knowledge management, training and education																		
3.3.3.2.a Monitoring EU trends in human resources in the nuclear energy field through the Nuclear Human Resources Observatory (EHRO-N). Development of tools for knowledge management and preservation of the EU's competence, support to the implementation of the European Credit System for Vocational Education and Training (ECVET) initiative on the mutual recognition of nuclear qualifications in Europe (Copenhagen 2002 process);																		
445 - EHRO-N European Human Resource Observatory in the Nuclear Energy Sector (EHRO-N)	EHRO-N has been set-up in support to DG ENER to determine the situation of nuclear-educated HR in Europe (i.e. supply and demand), assess the trends and suggest policy options for improvement. The IET is the Operating Agent to provide a central point for collection of data and trend analyses on issues related to nuclear HR and nuclear safety expertise in the EU. The implementation of the ECVET principle in the nuclear energy sector plays an additional role.	JRC.F.4 Ulrik VON ESTORFF	3.3.3.2.a	ENER	n/a	Niina Yliknuusi, Maurizio Boella	EAC NEAR RTD	ENEN - European Nuclear Engineering Network IAEA - International Atomic Energy Agency (IAEA) MS EU - Member states EU NEA - Nuclear Energy Agency (OECD) Nuc Ind - Nuclear Industry	01/01/2014 31/12/2016	2-Information systems & services (10%) 7-Scientific, technical & policy consultancy (60%) 9-Education & training (30%)		211 - GENTLE GENTLE - Graduate and Executive Nuclear Training 447 - NETKnow Nuclear Education, Training and Knowledge Management (NETKnow)	INS-RS	1	Annual Report 2016	An annual report on the EHRO-N activities will be produced summarizing the results achieved as well.	15/12/2016	Scientific and policy reports
														3	KSCs for NPP Construction, Operation and Decommission.	A job taxonomy on the ECVET based Knowledge, Skills and Competences (KSC) system will be finalized and disseminated, comprising more than 150 job descriptions in the nuclear energy sector.	02/03/2015	Scientific and policy reports
														6	Annual Report 2015	An annual report on the EHRO-N activities will be produced summarizing the results achieved as well.	07/12/2015	Scientific and policy reports
														8	Peer-reviewed Paper on nuclear HR Situation in EU	A peer-reviewed paper will be published on the HR situation in the nuclear energy sector in the EU, including results and recommendations from the second survey.	06/07/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														10	Road Map EHRO-N	A Road Map for EHRO-N will be delivered, describing the milestones planned up to 2020	30/03/2015	Scientific and policy reports
														11	Retaining Critical Competences in Nuclear Safety	An analysis of existing practices and of needed initiatives will be performed in order to arrive to a report, which serves as basis for a strategy for retaining critical competences in nuclear safety	02/03/2015	Scientific and policy reports
														12	Report on most wanted nuclear job profiles	A study will be carried out for identifying the nuclear job profiles, which are most in demand and therefore, at risk to be forming a HR gap.	30/03/2015	Reference materials
447 - NETKnow Nuclear Education, Training and Knowledge Management (NETKnow)	Support to sustainable Nuclear Education, Training and Knowledge Management is the key objective of this project. Therefore, four types of activities for the valorisation of the R&D chain are identified: 1) to preserve and maintain IET-related nuclear safety knowledge, 2) to contribute to the initiative NUSHARE proposed by DG RTD, 3) to create modern and sustainable nuclear training initiatives in IET-related nuclear safety competence areas, 4) to collaborate with the IAEA on nuclear safety KM.	JRC.F.4 Ulrik VON ESTORFF	3.3.3.2.a	ENER	n/a	Georges van Goethem, Bruno Schmitz	IAEA - International Atomic Energy Agency (IAEA) Nuc Ind - Nuclear Industry	01/01/2014 31/12/2015	2-Information systems & services (50%) 9-Education & training (50%)		125 - CORONA Establishment of a regional competence centre for WWER technology and nuclear applications 206 - CESAM Code for European Severe Accident Management 445 - EHRO-N European Human Resource Observatory in the Nuclear	INS-RS	3	FAQ Section Part2 on Nuclear for the broad public	On request of DG RTD initiative NUSHARE A FAQ section of 10 questions was planned in Part1. The second part of 10 Questions will be realized by 2015.	01/09/2015	Technical systems	
													4	Multimedia tool on severe accident lessons learnt	A multimedia tool will be developed with the IAEA for the lessons learnt from the three major nuclear accidents (3-mile island, Chernobyl, Fukushima). Experts will be interviewed and monitored, in order to benefit from their experience and lessons learnt. The scope is the immediate crisis management, not the technical safety matters of the plant.	01/02/2015	Training	
													7	KM workshop	Jointly with the IAEA, a workshop will be organised devoted to Knowledge Management and HR related work in the nuclear energy field. It will consist of 4 sessions: managing knowledge for LTO, knowledge transfer methods & tools, managing knowledge for transparent public communication on nuclear, KM promoting strong safety culture.	01/04/2015	JRC Technical reports	
3.3.3.2.b Review of the tools used for public participation in the nuclear energy field, and development of a knowledge centre for transparency governance;																		
446 - E-TraCK Energy Transparency Centre of Knowledge (E-TraCK)	Transparency and public participation form key conditions for gaining public trust. Traditional decision-making based on pure technical arguments with minimal public involvement is often leading to project failures. This ENER-JRC initiative has the objective to become a central point of reference for monitoring, disseminating and sharing information and practices regarding energy in Europe with the purpose of promoting and enhancing participation in the implementation of energy policies.	JRC.F.4 Ulrik VON ESTORFF	3.3.3.2.b	ENER	n/a	Maurizio Boella	EP - European Parliament MS EU - Member states EU NEA - Nuclear Energy Agency (OECD)	01/01/2014 31/12/2016	2-Information systems & services (100%) 7-Scientific, technical & policy consultancy (0%)		288 - RESPONSIBLE Support to Implementation of Responsible and Safe Management of Spent Fuel and Radioactive Waste	INS-RS	1	Annual Report 2016	The project activities will be reported in an Annual Report, covering main results achieved	08/12/2016	Scientific and policy reports	
													3	Dissemination of E-Track knowledge	Papers and articles will be prepared for the broad dissemination of E-Track and its projects.	01/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
													5	Annual Report 2015	The project activities will be reported in an Annual Report, covering main results achieved	07/12/2015	Scientific and policy reports	
													7	Peer-reviewed Paper on Public Participation	A peer-reviewed paper on Public Participation will be prepared and published, including the status of E-Track	11/07/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
													8	A report on Public Participation on RWM in the EU	A report on Public Participation on Radioactive Waste Management will be produced, reflecting the state of the art	02/02/2015	Scientific and policy reports	
9	Participatory Practices	A survey on participatory practices in the field of radioactive waste management in the EU-28 will be performed and edited into a report.	01/09/2015	Scientific and policy reports														
3.3.3.2.c Ensure the preservation, further build-up and dissemination of specific scientific and technical knowledge related to nuclear safety and security by establishing and managing the Nuclear Safety and Security School. Provision of operational support and training to Member States and international organisations																		
211 - GENTLE GENTLE - Graduate and Executive Nuclear Training	The GENTLE project is a pan-European effort in the field of education and training (E&T) on Nuclear Energy. It brings together leading European academic and research institutions with the goal to set up a life-long learning programme, strongly supported by stakeholders from industry. As a partner in this project, JRC-ITU will host student research projects, contribute to training courses, and organise a module of the Executive Master Course. Moreover, JRC-ITU is coordinator of a work package.	JRC.E.3 CONCETTA FAZIO	3.3.3.2.c	RTD	RTD	RTD.K.4 (George Van Goethem)	ENER	Technology and Economics - POLITECNICO DI MILANO - University of Manchester - Delft University of Technology - University of Tartu - Universidad Politécnica de Madrid - Lappeenranta University of Technology CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives - IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE - POLITECNICO DI MILANO - Delft University of Technology CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives IAEA - International Atomic Energy Agency (IAEA)	01/01/2013 31/12/2016	9-Education & training (100%)		514 - EN3S European Nuclear Safety & Security School 550 - ET-SNSG Developing competence in nuclear measurements for standardisation of safety assessments	COM-IA	1	2014 Annual Report for WP2	The 2014 annual report for WP2.2 containing extended summaries of the Student Research projects and Student Internships (Deliverable D2.2. from the DoW).	28/02/2015	JRC Technical reports
														2	2015 Annual Report for WP2	The 2015 annual report for WP2.2 containing extended summaries of the Student Research projects and Student Internships (Deliverable D2.3 of the DoW).	29/02/2016	JRC Technical reports
														4	Program for Module 3 of MCNE	The detailed programme and content of the module 3, "Nuclear Fuel from Ore to Waste" of the GENTLE Executive master Course on Nuclear Energy.	28/02/2015	Training
														5	The pilot of module 3 of the e-MCNE	The organisation of the pilot of module 3 of the e-MCNE in Karlsruhe	31/03/2016	Training
514 - EN3S European Nuclear Safety & Security School	The European Nuclear Safety and Security School (EN3S) is a JRC initiative that focusses on nuclear educational and training making use of JRC's unique facilities and knowledge in the fields of nuclear security and safety, nuclear fuel cycle and basic nuclear science. In the period 2014-2016 the work will strongly focus on establishing a well-structured organisation for the EN3S and developing E&T courses in collaboration with European partner organisations from the various fields.	JRC.E.3 CONCETTA FAZIO	3.3.3.2.c	ENER	n/a	M. Boella ENER D.2, P. Meylemans ENER E.1	DEVCO HOME RTD	- POLITECNICO DI MILANO - Delft University of Technology CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	9-Education & training (100%)		271 - GENTLE GENTLE - Graduate and Executive Nuclear Training 237 - TALISMAN TALISMAN - Transnational access to large infrastructures 241 - NDT Nuclear Detection Training 365 - EARL European Actinide Research	INS-RS	2	Annual Activity Report 2015	Description of the activities undertaken and the new collaborations in the field of nuclear training and education established	15/12/2015	JRC Technical reports
														3	Annual Activity report 2016	Description of the activities undertaken and the new collaborations in the field of nuclear training and education established	15/12/2016	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
550 - ET-SN3S Developing competence in nuclear measurements for standardisation of safety assessments	In line with the Commission's report COM(2011)/563 on Education and Training in the Nuclear Energy Field and the provisions of the EURATOM Treaty 237/01 article 9, education and training is provided in nuclear data, measurements, instrumentation and (destructive) analysis contributing to competence development in nuclear safety assessments, safeguards and security. For 2015 ENEN and ESARDA courses, enlargement and integration workshops and PhD students are involved.	JRC.D.4 Arjan PLOMPEN	3.3.3.2.c	ENER	n/a	DG ENER D2 M. Boella (HoU) Nuclear Energy technology, Nuclear waste and Decommissioning	HOME NEAR	- University of Tartu - Universidad Politécnica de Madrid - Delft University of Technology - Lappeenranta University of Technology - Budapest University of Technology and Economics - University of Manchester - CONSORZIO INTERUNIVERSITARIO PER LA RICERCA TECNOLOGICA NUCLEARE CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives E&I countries - Enlargement & Integration - countries ENEN - European Nuclear	01/01/2014 31/12/2016	9-Education & training (100%)			211 - GENTLE GENTLE - Graduate and Executive Nuclear Training 447 - NETKnow Nuclear Education, Training and Knowledge Management (NETKnow) 514 - ENS3 European Nuclear Safety & Security School	INS-RS	2	2015 SN3S training and education	Summary report describing the contributions, course material and proceedings of the SN3S unit for 1) The advanced BNEN/ENEN course 2) Phd Thesis (-es) 3) GAMMA-3 and THEORY-3 workshops. 4) ESARDA courses for destructive analysis 5) Organisation of ND2016 the international conference on Nuclear Data for Science and Technology. Additional deliverables for these separate items are expected.	21/12/2015	Training
															3	2016 SN3S training and education	Summary report describing the contributions, course material and proceedings of the SN3S unit for 1) The GENTLE intersemester course 2) The Safe Application of Radiation And radionuclides vocational training 3) The Nuclear Data School 4) Phd Thesis (-es) 5) GAMMA-4workshop. 6) ESARDA course on destructive analysis 7) Organisation of ND2016 the international conference on Nuclear Data for Science and Technology from 11 to 16 September. Additional deliverables are expected	21/12/2016	Training
3.3.3.2.d Enhancement of the access of researchers from EU Member States and beyond to DG JRC nuclear laboratories (e.g. JRC nuclear data measurement facilities, safeguard laboratories, European Actinide Research Laboratory, open access facilities at DG JRC sites, etc.).																			
237 - TALISMAN TALISMAN - Transnational access to large infrastructures	TALISMAN is aimed at offering the possibility to researchers/students of universities or research institutions to perform specific experiments in any facility of the consortium, a network of twelve facilities. Experiments are selected by a scientific committee twice a year. JRC-ITU is offering the possibility to perform various kinds of studies on actinides materials.	JRC.E.6 Philippe RAISON	3.3.3.2.d	RTD	RTD	Ms Katerina PTACKOVA RTD K4		- Chalmers University of Technology - University of Manchester - LAGRANGE CU - Charles University Prague CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CNRS - Centre National de la Recherche Scientifique HZDR - Helmholtz-Zentrum Dresden-Rossendorf e.V. KIT - Karlsruhe Institute of Technology	01/01/2013 31/12/2015	6-Reference materials and measurements (40%) 9-Education & training (60%)			368 - SUPRACLEAR Standard nuclear data and Underpinning Research on nUCLEAR fuels 369 - SynCryST4NS Samples Synthesis and Crystallographic Structure Studies for Nuclear Safety 511 - EFWAS Evolution of fuels and waste forms in storage and disposal conditions 514 - ENS3 European Nuclear Safety & Security School	COM-IA	10	Organisation of 2 summer schools on actinides	Organisation of an annual international summer school in actinide sciences using expertise among the whole network but also invited international experts with the aim of providing a bridging culture between the usually highly specialised approaches and challenges in associated or related fields. It will be hosted alternatively by ITU in Karlsruhe (2013, 2015) and by CEA in Marcoule (2014)	31/07/2015	Training
															22	Call for applications and selection N°5	Launching of the call for applications for the use of the Consortium laboratories and selection of the projects by the Scientific and Executive Committees where ITU is represented. Two calls per year are organized	31/01/2015	Scientific and policy reports
															23	Call for applications and selection N°6	Launching of the call for applications for the use of the Consortium laboratories and selection of the projects by the Scientific and Executive Committees where ITU is represented. Two calls per year are organized	30/06/2015	Scientific and policy reports
															30	Providing access to JRC-ITU for external users	Access for external users whose projects were accepted after the evaluation of the projects in the different calls. ITU is leading the WP6. The results of the projects will be disseminated through scientific publications	31/12/2015	Training
															41	Final report on the use of facilities	Contribution to the final report on the use of the ITU facilities	31/12/2015	Scientific and policy reports
365 - EARL European Actinide Research Laboratory	Running ITU's laboratories as an open-access facility for experiments on actinide and radioactive materials. The JRC organizes call for applications from academic and research organizations, coordinates the activity of proposals selection panels, maintains state-of-the-art dedicated instrumentations, and provides scientific and technical support for the execution of the experiments. The project allows the execution of university PhD programmes on actinide materials	JRC.E.6 Eric COLINEAU	3.3.3.2.d	ENER	n/a	Maurizio Boella	- UNIVERSITY OF SHEFFIELD - University of California, Los Alamos National Laboratory - Institute of Public Health - UNIVERSITY OF BRISTOL - ISTITUTO TECNOLOGICO E NUCLEAR - Gdansk University of Technology - University College London - University of Manchester - University of Edinburgh - UNIVERSITA DEGLI STUDI DI PARMA - W. TRZEBIATOWSKI INSTITUTE OF LOW TEMPERATURE AND STRUCTURE RESEARCH (POLISH ACADEMY OF SCIENCES) - UNIVERSITY OF CAMBRIDGE CU - Charles University Prague CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CNRS - Centre National de la Recherche Scientifique ESRF - European Synchrotron Radiation Facility IAEC - Israel Atomic Energy Commission	01/01/2014 31/12/2016	3-Instrumentation & hardware (50%) 9-Education & training (50%)			237 - TALISMAN TALISMAN - Transnational access to large infrastructures 368 - SUPRACLEAR Standard nuclear data and Underpinning Research on nUCLEAR fuels 369 - SynCryST4NS Samples Synthesis and Crystallographic Structure Studies for Nuclear Safety 514 - ENS3 European Nuclear Safety & Security School	INS-UR	21	Access for external Users 2015	Access to ITU unique facilities for transuranium elements is provided, free of charge, to external Users through 2 annual calls and subsequent selection of proposals by a scientific panel. A report describing the activity (number of operating days, users, projects...) will be issued.	30/12/2015	Scientific and policy reports	
														22	Output from collaborative research work	The JRC hosts researchers and PhD students from eligible countries and carry out collaborative research on actinide materials on arguments proposed by the external partners. The results obtained are published in the open literature and form the body of PhD thesis focussed on actinide and nuclear science.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														23	45èmes Journées des Actinides (JdA-2015)	The Journées des Actinides (JdA) is a traditional forum for discussions on different aspects related to the chemistry and physics of actinides. There is a strong emphasis on encouraging the participation of young researchers and students to ensure training and education of the current and future generation of scientists in this area. Extended abstracts proceedings will be available	10/06/2015	Training	
														31	Access for external Users 2016	Access to ITU unique facilities for transuranium elements is provided, free of charge, to external Users through 2 annual calls and subsequent selection of proposals by a scientific panel. A report describing the activity (number of operating days, users, projects...) will be issued.	31/12/2016	Scientific and policy reports	
														32	46èmes Journées des Actinides (JdA-2016)	The Journées des Actinides (JdA) is a traditional forum for discussions on different aspects related to the chemistry and physics of actinides. There is a strong emphasis on encouraging the participation of young researchers and students to ensure training and education of the current and future generation of scientists in this area. Extended abstracts proceedings will be available.	09/06/2016	Training	
														33	Scientific collaborations 2016	The JRC hosts researchers and PhD students from eligible countries and carry out collaborative research on actinide materials on arguments proposed by the external partners. The results obtained are published in the open literature and form the body of PhD thesis focussed on actinide and nuclear science.	20/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														34	11st School on Phys. Chem. Actinides SPCA2016	The School on the Physics and Chemistry of the Actinides is an opportunity for students, young scientists or scientists new in the field, to gain from expert masterclasses in different areas of actinide science.	08/06/2016	Training	
504 - ET-TAA Serving EU and international partner needs through transnational access to JRC facilities	Establishment and operation of a transnational access scheme to the SN3S measurement facilities providing on a yearly basis experimental time for external users from the member states and abroad (2012/C 327/01): 1000 h at the GELINA accelerator, 400 h at the Van de Graaff and 400 h at the underground laboratory HADES. The project will establish a Programme Advisory Committee for evaluation and advice on the allocation of resources. For each proposal an SN3S contact person will be responsible.	JRC.D.4 Arjan PLOMPEN	3.3.3.2.d	ENER	n/a	DG ENER D2 Nuclear Energy technology, Nuclear waste and Decommissioning	MS EU - Member states EU	01/01/2014 31/12/2016	9-Education & training (100%)				INS-RS	2	2015 Progress report SN3S-TAA	Summary report including the minutes of the two 2015 PAC meetings, a summary report of the proposals, their evaluation and allocated resources and a list of summaries of support provided to approved proposals.	30/11/2015	Scientific and policy reports	
														3	Final report SN3S TAA	The final report of the 3 year SN3S TAA initiative will include the minutes of the two PAC meetings in 2016, the summary of proposals, their evaluation and resource allocation and summaries of the support provided to approved proposals. A user group meeting will be held to evaluate the initiative and recommend on follow-up.	31/10/2016	Scientific and policy reports	
2279 - SAFEST Severe Accident Facilities for European Safety Targets	Improve the capabilities, performances and attractiveness of large research infrastructures built in Europe to solve complex safety issues. Link this facilities forming a pan-European integrated laboratory for Corium research. Promote transnational access for European researchers. Initiation of experimental research road maps both within the EU and with third countries.	JRC.E.3 Dario MANARA	3.3.3.2.d	RTD	RTD	B. Schmitz, RTD.DDG3.G.4	ENER		01/07/2014 30/06/2018	9-Education & training (100%)			509 - NMEC Nuclear materials under extreme conditions	COM-IA	201501	Proposal on coordination research roadmaps	Document describing the coordination of the development of experimental research roadmaps on corium properties.	13/02/2015	JRC Technical reports
															201502	European corium experimental research roadmap	Definition of research challenges to contribute to further reinforcement of Nuclear Power Plant safety. Description of experimental research possibilities in the corium-dedicated facilities participating in SAFEST.	30/10/2015	JRC Technical reports
															201601	Status report 2016	"status report" which summarises the results obtained in 2016 in the project,	31/12/2016	JRC Technical reports
3.3.3.3 Non-nuclear energy applications of radionuclides and technologies																			
3.3.3.3.a Research into the further development of medical applications, namely new cancer and infectious disease therapies based on alpha irradiation.																			
433 - TAT Targeted Alpha Therapy	The aim of this project is to develop targeted alpha therapy (TAT) for the treatment of cancer and infectious diseases. In this respect the project contributes to all stages of developing TAT from bench to bedside, including the development of methods for production of alpha emitters and for radiolabeling, preclinical testing and clinical studies. In addition training to hospital personnel is provided to assure safe handling of alpha emitters in clinical settings.	JRC.E.5 Alfred MORGENSTERN	3.3.3.3.a	ENER	n/a	S. Mundig ENER D.3.002	SANTE	- ROMA LA SAPIENZA - Albert Einstein College of Medicine - University of Gothenburg - Czech Technical University in Prague - Institut de recherches subatomiques - JOHANNES GUTENBERG UNIVERSITAET MAINZ - ERASMUS MEDICAL CENTER ROTTERDAM - Technische Universität München - Delft University of Technology - KING'S COLLEGE LONDON - INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE - Medical University of Warsaw - INSTITUTE OF NUCLEAR CHEMISTRY AND TECHNOLOGY ICRM - Institut de Recherche en Cancérologie de Montpellier ORNL - Oak Ridge National Laboratory RUNMC - Radboud University Nijmegen Medical Centre Uni Hei DE - University Hospital Heidelberg	01/01/2014 31/12/2016	4-Methods and testing (100%)			2901 - ENDOPROST Endoradiotherapy of castration resistant prostate carcinoma using PSMA-targeted ligands 2902 - VITA Development of anti-CD99 Therapy against Ewing sarcoma	INS-RS	2	Development of chelates and labeling protocols	The project will develop and test novel molecules suitable for the stable binding of alpha emitters to tumor selective carrier molecules. These linkers are prerequisite for the synthesis of stable radiolabeled compounds. In addition, the project will improve and develop new protocols for radiochemical synthesis of radiolabeled compounds, with particular focus on the automation of synthetic procedures in order to reduce radiation exposure and increase radiation protection of medical staff.	24/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															3	Preclinical testing of novel radiolabeled drugs	The preclinical testing of novel radiolabeled compounds is an important step before the initiation of clinical trials in patients. In this respect we will investigate the stability, therapeutic efficacy and toxicity of novel radiolabeled drugs in vitro and in animal models in vivo and we will analyse the data with respect to a potential translation into humans.	14/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															4	Clinical testing of TAT	Clinical testing of peptides labeled with alpha emitters for the treatment of neuroendocrine tumors, brain tumors and bladder carcinoma. Accrual of data on therapeutic efficacy and tolerability. Dissemination of results in peer-reviewed journals.	15/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															5	9th Symposium on Targeted Alpha Therapy	This series of symposia on Targeted Alpha Therapy brings together experts working in the field of targeted alpha therapy. The symposia typically hosts approximately 100 international participants from medicine, biology, chemistry and physics, provides an overview on the state of the art of TAT and provides an excellent forum for networking and collaboration. The 9th symposium in this series will be organised by JRC-ITU.	31/07/2015	Scientific paper presented at a conference and published in a book of conference proceedings
															6	Training on safe handling of alpha emitters	Training on the safe handling on alpha emitting radionuclides in clinical settings. The trainings will be provided to staff in hospitals and cancer research centers to improve radiation safety when handling alpha emitters. Main aspects of the training sessions include the detection, analysis and quantification of alpha emitters, safe operation of Ac-225/Bi-213 radioculide generators, as well as measures for shielding and radiation protection to minimize radiation exposure of operating staff.	24/12/2016	Training

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
3.3.4 Support to EU internal policy on nuclear safety and security																			
3.3.4.a Technical and scientific assistance to the implementation of the EU nuclear safety Directive (including the support in the technical review of national reports) and Chapter 4 of the Euratom Treaty Articles 41-43 (including aspects such as safety, radioactive waste management, and decommissioning); and support to EC participation in IAEA's IRRS missions and in the European Nuclear Safety Regulator's Group (ENSREG).																			
493 - NUSP Support to DG ENER Nuclear Reactor Safety Policy and International Standards (OECD/NEA, IAEA)	Direct support to DG ENER in Nuclear Reactor Safety (EU Nuclear Safety Directive, EURATOM Treaty Art. 41-43, follow-up EU 'Stress Tests', etc.) Cooperation with the IAEA in Nuclear Reactor Safety for the development of new Safety Standards, participation in Peer Review missions (OSART, IRRS), Technical support to the IAEA Incident and Emergency Center Cooperation with the OECD/NEA CSNI and CNRA in Nuclear Reactor Safety to develop 'State of the Art' reports in the field of AM and OEF	JRC.F.5 GHISLAIN PASCAL	3.3.4.a	ENER	n/a	M. Garribba, tel : +(352) 430133861 , e-mail : massimo.garribba@ec.europa.eu	RTD	IAEA - International Atomic Energy Agency (IAEA) NEA - Nuclear Energy Agency (OECD)	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			INS-RS		9	Annual Report to DG ENER on Nuclear Reactor Safety	Scientific Report presenting to DG ENER an overview of the JRC-IET Nuclear Reactor Safety Assessment Unit (NRSAs) contributions to international Meeting/Committees/Working Group (mainly from IAEA and OECD/NEA) during the year. This report highlights especially the key points related to Nuclear Reactor Safety which could have an impact on EU Nuclear Safety Policies.	01/12/2015	Scientific and policy reports
															10	Support to DG ENER (Article 41-43 EURATOM Treaty)	Technical Report for DG ENER in support of EC viewpoint in relation to the Article 41-43 of the EURATOM Treaty. (provided requests from DG ENER)	01/12/2015	Scientific and policy reports
															11	Support to development of IAEA NS Standards	Support to the development of international standards in Nuclear Safety through support to the IAEA Nuclear Safety Standard Committee (NUSSC), participation in IAEA preparation and review of Draft Safety Standards in the field of Nuclear Reactor Safety (upon request from DG ENER or from the IAEA).	01/12/2015	Scientific and policy reports
															12	JRC-IET contribution to OECD/NEA Report on SFP	JRC-IET contribution to the " Scientific Report on Spent Fuel Pool (SFP) under loss of cooling accident conditions" to be developed by the OECD/NEA/ Committee on the Safety of Nuclear Installations (CSNI)-Working Group on Accident Management (WGAMA)	31/03/2015	Scientific and policy reports
															13	JRC-IET contribution to OECD/NEA Report on ST	JRC-IET contribution to the " Scientific Report on Fast running tool to evaluate Source Term in case of a Severe Accident on a Nuclear Power Plant" to be developed by the OECD/NEA/ Committee on the Safety of Nuclear Installations (CSNI)-Working Group on Accident Management (WGAMA)	30/06/2015	Scientific and policy reports
															14	Support to DG ENER (Revised CD 2009/71/NS)	Technical Report for DG ENER in support of the implementation of the Revised Council Directive 2009/71/EURATOM establishing a Community framework for the nuclear safety of nuclear installations. (provided requests from DG ENER). This Revised Council Directive to be adopted in 2014 builds on the lessons learned from Fukushima and the EU Stress Tests. It introduces EU-wide nuclear safety objectives, address the safety of the entire lifecycle of nuclear installation and includes on-site EP&R.	30/09/2015	Scientific and policy reports
															15	Support to development of IAEA NS Standards	Support to the development of international standards in Nuclear Safety through support to the IAEA Nuclear Safety Standard Committee (NUSSC), participation in IAEA preparation and review of Draft Safety Standards in the field of Nuclear Reactor Safety (upon request from DG ENER or from the IAEA).	01/12/2016	Scientific and policy reports
															16	Support to DG ENER (Article 41-43 EURATOM Treaty)	Technical Report for DG ENER in support of EC viewpoint in relation to the Article 41-43 of the EURATOM Treaty. (provided requests from DG ENER)	01/12/2016	Scientific and policy reports
															17	Support to DG ENER (Revised CD 2009/71/NS)	Technical Report for DG ENER in support of the implementation of the Revised Council Directive 2009/71/EURATOM establishing a Community framework for the nuclear safety of nuclear installations. (provided requests from DG ENER). This Revised Council Directive to be adopted in 2014 builds on the lessons learned from Fukushima and the EU Stress Tests. It introduces EU-wide nuclear safety objectives, address the safety of the entire lifecycle of nuclear installation and includes on-site EP&R.	30/09/2016	Scientific and policy reports
18	Annual Report to DG ENER on Nuclear Reactor Safety	Scientific Report presenting to DG ENER an overview of the JRC-IET Nuclear Reactor Safety Assessment Unit (NRSAs) contributions to international Meeting/Committees/Working Group (mainly from IAEA and OECD/NEA) during the year. This report highlights especially the key points related to Nuclear Reactor Safety which could have an impact on EU Nuclear Safety Policies.	01/12/2016	Scientific and policy reports															
3.3.4.b Provide integrated scientific support to the policy DGs to improve the emergency preparedness at EU level, in particular monitoring strategies, sampling methods, reporting techniques and validation of measurements, and strengthening the EU's capacity for response by improving its capabilities. Support further developments in the areas of radioactivity dispersion in the environment, dose estimation, and alert systems in coordination with the NERIS platform;																			
713 - REM-EPR Emergency Preparedness and Response for REM	Analysis of existing environmental radioactivity networks. This study will focus on the design of the existing national monitoring networks, how to improve the harmonisation between their results, also in the context of using existing radio-ecological models. In addition, a study with other JRC institutes will be started to explore how best use can be made of existing information and procedures to provide integrated JRC emergency support.	JRC.E.8 Marc DE CORT	3.3.4.b	ENER	n/a	Vesa Tanner, Alan Ryan	AGRI SANTE	EU MS R/N emergencies - EU MS Authorities competent for R/N emergencies Env Rad Mon EU - Radioactivity Environmental Monitoring National laboratories and institutes IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2017	2-Information systems & services (30%) 5-Monitoring, verification and surveillance (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (20%)		714 - ECURIE/EURDEP ECURIE/EURDEP	INS-RS		201017	beta release of operational JRC R/N EPR	Development of an operational platform, based on deliverable 201401, by making use of existing and available JRC models and information systems, to address the prediction of the migration of radionuclides in the environment (i.e. typically on agricultural produce to support decision making on economic countermeasures)	30/12/2017	Technical systems
															201401	JRC capabilities for R/N EPR	A study with relevant JRC institutes will be started to explore how best use can be made of existing information and procedures to provide integrated JRC emergency support. This study will allow designing an operational platform, making use of existing JRC models and information systems, to address the prediction of the migration of radionuclides in the environment (i.e. typically on agricultural produce to support decision making on economic countermeasures)	28/12/2016	Scientific and policy reports
															201501	Study on European monitoring networks	Analysis report on the existing emergency monitoring systems in the EU (static networks and mobile equipment). The procedure to collect information will be first discussed and agreed within the ECURIE-EURDEP Working Group, which is composed of representatives from the MSs, DG ENER and JRC. The objective of the study is to improve harmonisation of monitoring in emergency on European scale.	30/06/2015	Scientific and policy reports
3.3.4.c Technical and scientific assistance for the implementation of the EU Directive on the responsible and safe management of spent nuclear fuel and radioactive waste, including the support to the technical review of the national programmes and reports;																			
288 - RESPONSIBLE Support to Implementation of Responsible and Safe Management of Spent Fuel and Radioactive Waste	Technical assistance to the implementation of the EU Directive for the responsible and safe management of spent nuclear fuel and radioactive waste, including support for the technical review of Member States' national programmes	JRC.E.6 GUNNAR BUCKAU	3.3.4.c	ENER	n/a	ENER.DDG2.D.2, M. Boella		IAEA - International Atomic Energy Agency (IAEA) IGD -TP - Implementing Geological Disposal of Radioactive Waste Technological Platform MS EU - Member states EU NEA - Nuclear Energy Agency (OECD)	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		1250 - GEO-DISSEMINATION Dissemination activities on Geological Disposal for NDA and the IGD-TP	INS-RS		55201502	Member States Notification of National Programmes	JRC is providing support to DG ENER in review and assessment of the Member States Notifications of National Programmes as required by the Waste Directive. This includes documentation of the status in the Member States and the status and outcome of the review process through the EURATOM Waste Directive Observatory.	31/12/2015	JRC contributions to policy documents
															55201601	IAEA Joint Convention Review Meeting	JRC is providing input to review meeting of the IAEA Joint Convention on the Safety of Spent Fuel and Radioactive Waste Management. The contribution consists of input to the EURATOM report and assessment of Country Group reports. Within this activity, the EURATOM Waste Directive Observatory is also up-dated through new Member States Reports, and used in assessment of the Member States situation and progress.	30/06/2016	JRC contributions to policy documents
1250 - GEO-DISSEMINATION Dissemination activities on Geological Disposal for NDA and the IGD-TP	JRC is providing support for two dissemination events in the field of geological disposal for the Implementing Geological Disposal Technology Platform (IGD-TP). The first event is GEODISPOSAL 2014, where JRC is providing support, and the second event is GEODISS II, where JRC is organizing a one-day seminar. A competitive contract is concluded with the coordinator of the IGD-TP, namely UK Nuclear Decommissioning Authority (NDA).	JRC.E.5 GUNNAR BUCKAU	3.3.4.c	RTD	n/a	RTD K.4, Christophe Davies	ENER	IGD -TP - Implementing Geological Disposal of Radioactive Waste Technological Platform MS EU - Member states EU	01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)		288 - RESPONSIBLE Support to Implementation of Responsible and Safe Management of Spent Fuel and Radioactive Waste	COM-TW	2	Report of EURADISS 2015	JRC is organizing a one-day dissemination event on IGD-TP activities, falling under the EURATOM Framework Programme. It takes place in association with international clay conference (EURADISS) or IGD-TP Exchange Forum. The outcome are recommendations to be discussed at the IGD-TP Exchange Forum	30/11/2015	Scientific and policy reports	

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
4.A Deeper and Fairer Internal Market with a Strengthened Industrial Base																			
4.1 Internal Market, Industry, Entrepreneurship and SMEs																			
4.1.a Analysis of the determinants for a sustainable supply of raw materials and assessment of the criticality of raw materials for low carbon technologies;																			
660 - MET ET Materials for energy technologies	Evaluate the role of materials as potential bottlenecks to the transition to a low-carbon economy through the assessment of supply and projected demand of raw materials used in energy technologies and other sectors that use the same critical materials (e.g. defence) based on a critically screening using market and geopolitical factors. Maintain and expand the existing on-line information system for policy makers on the importance of materials for the energy sector (MIS).	JRC.F.6 Evangelos TZIMAS	4.1.a	GROW	n/a	ANCIALUX Paul (ENTR)	ENER RTD		01/01/2015 31/12/2016	1-Foresight studies & techniques (30%) 2-Information systems & services (30%) 7-Scientific, technical & policy consultancy (40%)		745 - WET Wind Energy Technology 765 - SETIS SET-Plan Information System 1905 - EVAL RMEIP Monitoring and evaluation of Raw Materials EIP	COM-AA		1	Critical materials for the European defence sector	Identification of critical raw materials for the defence sector, relying on the methodology and databases developed in-house for assessing the energy sector. The work comprises the development of a suitable methodology, the collection of the necessary information and data and the application of the methodology to determine the level of criticality of the identified raw materials.	30/10/2015	Scientific and policy reports
															2	Materials information system (MIS)	Provide information about the materials that are used in the SET-Plan technologies. More specifically, the existing web-based tool (MIS) will be continuously updated in order to offer a user-friendly, attractive visualisation of the materials that are used in each of the SET-Plan technologies. Each material that is a constituent of a technology will be described from cradle-to-grave with the purpose of informing policy-makers on the facts and figures on materials used in SET-Plan technologies.	18/12/2015	Technical systems
															3	Critical materials for energy technologies	Report identifying the metals which could become a bottleneck to the supply-chain of various low-carbon energy technologies. It builds on the existing research conducted by the JRC and focuses in particular on developments during the period 2012-2015 and on new technologies identified by the SET-Plan. The report will also address materials demand from sectors competing for critical materials, such as ICT, consumer electronics, transport and defence.	30/11/2016	Scientific and policy reports
															4	Scientific output	Peer review papers addressing the link between raw materials and energy technology deployment	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1062 - RAW-MAT Supply chains and critical raw materials - towards a circular economy	Security of Supply of Critical Raw Materials (CRMs) is essential to the European economy. DG ENTR has identified a list of materials at the EC scale - considered critical. Support the Raw Materials Knowledge Base for LCA of raw materials, including for identifying CRMs and assessment of social, economic and environmental performance of raw materials. For selected waste streams of scarce/toxic secondary raw materials, prevention, reuse, recycling and recovery will be considered using LC approach.	JRC.H.8 David PENNINGTON	4.1.a	GROW	n/a	Lie Heymans, Slavko Solar	ENV RTD	USGS - U.S. Geological Survey	01/01/2014 31/12/2016	2-Information systems & services (10%) 4-Methods and testing (25%) 7-Scientific, technical & policy consultancy (65%)		1905 - EVAL RMEIP Monitoring and evaluation of Raw Materials EIP 2308 - PL- SC-CRM Planned: Support to selection methods for critical raw materials	INS-RS		3	Assessment of raw materials resources with LCA	Analysis of the framework, methods, and data to be used in Life Cycle Assessment, including recommendations related to the criticality of raw materials for when assessing the supply, use, and end-of-life resource consumption of goods and services. Different options will be evaluated for how e.g. security-of-supply can be taken into account in the existing ISO 14040/44 LCA framework; focusing on the resource use inventory and the resource impact assessment.	18/12/2015	Scientific and policy reports
															4	Case study - assessment of end-of-life criteria RM	The systematic identification of (critical) secondary raw materials using criteria for e.g. recycled content and recoverability will be highlighted through a case study for selected raw materials. The case study will build on, and further illustrate, the JRC LCA methodology for policy impact assessment.	18/12/2015	Scientific and policy reports
															5	Establishment of JRC RM Information System	JRC support to the EU Raw Materials Knowledge Base under the EIP on Raw Materials - a European framework that provides a service on data and information on raw materials, including primary and secondary mineral raw materials. The Life Cycle Data Network is part of the EURMKB. The Raw Materials Scoreboard, other LC analyses of industrial supply chains using relevant raw materials, methods for evaluations and selection of critical RM will be reported. Collaboration with F.3, F.6, H.2, H.4, H.6, J.	30/09/2015	Scientific information systems and databases
															6	Support - international cooperation in EU RMKB	As part of the JRC support to the EU Raw Materials Knowledge Base the Life Cycle Data Network will host quality-assured life cycle data from world public and private organisations and will develop methodological guidance and data about CRMs through int'l cooperation with key partners such as USGS and CMI.	18/12/2015	Scientific information systems and databases
															7	Multicriterial LC assessments for CRMs	LCA-based indicators are used in the JRC's sustainability social, economic, and environmental LCA policy impact assessment tool to investigate the possibility of enhancing the selection methodology for critical raw materials. The research goes from a qualitative legislative-oriented criterion towards an impact assessment multi-criteria approach.	23/09/2016	JRC Technical reports
															8	Life-cycle method for identification of CriticalRM	Proposed life-cycle based method for the identification of Critical Raw Materials. Support to EU policies addressing shortage and security of critical raw materials. The method will focus on end-of-life criteria in environmental assessment and multi-criteria approach for integrated life-cycle impact analysis and investigates how to identify product alternatives that have lower supply chain reliance on critical raw materials and higher end-of-life recoverability.	20/12/2016	JRC Technical reports
1708 - MINERALS4EU Minerals Intelligence Network for Europe	The main aim of the Mineral4EU FP7 (Coordination and Support) project is to develop a sustainable Minerals Intelligence Network to facilitate access to the EU mineral resources information and to promote collaboration among experts. The mineral information system will also provide statistical information (EU Minerals Year Book), tools and expertise (foresight study) to enhance resource efficiency, secure minerals supply and support sustainable minerals development for Europe.	JRC.H.6 Robert TOMAS	4.1.a	GROW	RTD	German Esteban Muniz, DG Research & Innovation RTD.DDG3.G2	ENV		01/09/2013 31/08/2015	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)			COM-IA	20151	Operational EU-MKDP (Minerals4EU Knowledge data)	Implementation and the operational web-based Information System to provide access to the consolidated EU - Minerals Intelligence Knowledge.	31/08/2015	Scientific information systems and databases	
1905 - EVAL RMEIP Monitoring and evaluation of Raw Materials EIP	Support the European Innovation Partnership (EIP) on Raw Materials through an administrative arrangement with DG ENTR by carrying out the monitoring and review scheme. The work entails the assessment of the progress made on the implementation of the Strategic Implementation Plan (i.e. monitoring), as well as its impacts on achieving the objectives and targets of the EIP (i.e. evaluation).	JRC.F.6 Evangelos TZIMAS	4.1.a	GROW	GROW	HEYMANNS Lie (ENTR)	RTD		01/10/2014 26/07/2016	7-Scientific, technical & policy consultancy (100%)	JRC.H.8	660 - MET ET Materials for energy technologies 1062 - RAW-MAT Supply chains and critical raw materials - towards a circular economy	COM-AA		1	Annual Monitoring Report	Report that will map the state-of-play of the ongoing EIP commitments, with a special focus on the commitments' inputs, activities and outputs. Data collection will be done based on a mandatory electronic questionnaire.	31/12/2015	Scientific and policy reports
															2	SIP Implementation Document	The purpose of the SIP Implementation Document is to track progress made with regards to the EIP's Strategic Implementation Plan (SIP) at action area level. The SIP Implementation Document is foreseen to present an overview of the following issues: i) Assessment of the progress made to the action areas' objectives, ii) Use of the different instruments (Horizon 2020, Structural and Investments Funds etc), and, iii) Commitments and other initiatives undertaken by all relevant actors	31/12/2015	Scientific and policy reports
															3	Raw Materials Scoreboard	The Raw Materials Scoreboard is part of the evaluation activities envisaged for the European Innovation Partnership (EIP) on Raw Materials. Its aim is to assess the state-of-play of the EIP's general objectives, to keep an overview on the competitiveness of the raw materials sector and to increase the visibility of the challenges related to raw materials. The scoreboard will be developed within an Ad-Hoc Working Group, including feedbacks from the different stakeholders.	31/08/2015	Scientific and policy reports
2308 - PL- SC-CRM Planned: Support to selection methods for critical raw materials	The purpose of the work to be carried out under the Administrative Arrangement is for DG JRC to provide DG GROW with technical assistance, analysis, appropriate data and support for the assessment of the methodology that has been applied for the publication of the list of critical raw materials for the EU in 2011 and 2014. Following this assessment, DG JRC is asked to provide a refined - and where appropriate - revised methodology. This will serve as a basis for DG GROW's future work on the revision.	JRC.H.8 David PENNINGTON	4.1.a	GROW	GROW	Alexis Van Maercke	ENV		01/01/2015 30/06/2016	7-Scientific, technical & policy consultancy (100%)			COM-AA	n/a	n/a	n/a	n/a	n/a	
4.1.b Assessment of the compatibility of Galileo signal structures and other Global Navigation Satellite Systems (GNSS), including in respect to interference, jamming, spoofing and the impact of ionospheric scintillation on satellite navigation systems; analysis for the uptake of Galileo and the European Geostationary Navigation Overlay Service (EGNOS) applications to benefit the EU economy and its citizens;																			
848 - CORSA-Nav European GNSS Infrastructure Security	To carry out compatibility studies and laboratory tests on the coexistence of multi-GNSS systems, interference to GNSS from communications systems, detection and countermeasures to RF threats such as jamming and spoofing, signal authentication, definition of Galileo commercial service (CS) and testing of CS user equipment, certification of PRS receivers, integrity monitoring and augmentation for positioning in difficult environments to ensure security of the Galileo services.	JRC.G.5 Pravir CHAWDHRY	4.1.b	GROW	n/a	SIEBERT Christian	HOME		01/01/2014 31/12/2016	4-Methods and testing (25%) 6-Reference materials and measurements (25%) 7-Scientific, technical & policy consultancy (50%)		167 - CIPS 2011 CIPS 2011 233 - CIPS 2012 CIPS 2012 Action to be carried out with the JRC 861 - CORSA-Space Space Weather impact on GNSS 2003 - GALENT Galileo support to Enterprise	INS-RS		3	Support to GSA and ENTR on Galileo security	As per requests from European GNSS agency, technical studies and expert advisory support to project evaluation, facilitation of laboratory tests and demonstration of GSA projects (DETECTOR, iGoing, CS-Demo, GALCS etc.), on Galileo system security.	15/12/2015	Scientific and policy reports
															4	Support to Galileo PRS and future evolution	JRC will carry out technical studies and laboratory tests for the Galileo-2 programme evolution and specific needs of public regulated service (PRS) as and when requested.	15/12/2016	Scientific and policy reports
															7	GNSS Summer school 2015	In collaboration with European Space Agency, JRC will once again organise the GNSS summer school in 2015.	31/10/2015	Training
861 - CORSA-Space Space Weather impact on GNSS	We study the impact of space weather (SW) on global navigation satellite systems (GNSS). Specially designed GNSS receivers are installed at equatorial locations to gather real-time data on ionospheric scintillation and its correlation with SatNav signals received at the ground monitoring station. A reference library of such space weather data will be created and deployed at JRC GNSS laboratory for (a) validation of SW prediction models, (b) test of GNSS receivers under scintillation conditions.	JRC.G.5 Pravir CHAWDHRY	4.1.b	GROW	n/a	Sylvia Kainz-Huber	HOME MOVE	NOAA - National Oceanic and Atmospheric Administration	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (40%) 6-Reference materials and measurements (30%) 7-Scientific, technical & policy consultancy (30%)		233 - CIPS 2012 CIPS 2012 Action to be carried out with the JRC 848 - CORSA-Nav European GNSS Infrastructure Security	INS-UR		3	Validation of models of ionospheric scintillation	As part of the collaboration with NOAA, JRC will validate prediction models of ionospheric scintillation and help improve the accuracy of space weather prediction. The report will contribute to the conception of policy on Space situational awareness and global crisis management.	31/05/2015	Scientific and policy reports
															4	Global network of space weather monitoring	The JRC monitoring stations will be integrated with similar efforts elsewhere in the world (including the EU) to become part of a global network for space weather monitoring, thus providing capability for network-wide access to the monitoring data and related modelling and analysis tools.	15/12/2016	Technical systems
1762 - MISW Mitigation of space weather threats to GNSS receivers - FP7-Space	The objective for the JRC is to monitor ionospheric scintillations using JRC's stations in Peru and Vietnam and to provide these data to the project partners to enable modelling and validation of ionospheric gradients and scintillations, to model the impact of scintillation on satellite navigation systems, to develop algorithms to mitigate space weather vulnerabilities both at the receiver and system levels and devise recommendations on best practices for future satellite navigation services.	JRC.G.5 Pravir CHAWDHRY	4.1.b	GROW	GROW	PETRE Olivier (REA.B.1.002), CHIARINI Paola (REA.B.1.001)		GSA - European GNSS Agency	01/02/2014 31/07/2016	7-Scientific, technical & policy consultancy (100%)			COM-IA		1	Provision of ionospheric scintillation data	To install, update and maintain ionospheric scintillation monitoring stations of JRC and to provide the data on severe scintillation events to project partners.	30/06/2015	Technical systems

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2003 - GALENT Galileo support to Enterprise	The project will support DG ENTR on the Galileo programme during its deployment phase. Focus will be on the security and performance assessment of Early Service, Open Service, Commercial Service and lead activities towards the Exploitation Phase. Other tasks such as multi-GNSS compatibility, will be carried out in response to the requests of DG ENTR. The project will also contribute JRC GNSS security test infrastructure and expertise to facilitate H2020 projects in the area of GNSS Security.	JRC.G.5 MATTEO PAONNI	4.1.b	GROW	GROW	SIEBERT Christian		GSA - European GNSS Agency	01/01/2015 31/12/2016	4-Methods and testing (25%) 6-Reference materials and measurements (25%) 7-Scientific, technical & policy consultancy (50%)		848 - CORSA-Nav European GNSS Infrastructure Security	COM-AA	1	Galileo Early Service	Support to Galileo Early Service will include technical services to DG ENTR such as monitoring, testing, performance evaluation, anomaly detection and benchmarking of Galileo signals and services while the new satellites are being launched and deployed.	30/06/2015	Validated methods, reference methods and measurements
														2	Compatibility of signals and interoperability - 1	Phase 1 of CSI studies on Galileo signal compatibility with other GNSS systems.	31/12/2015	Scientific and policy reports
														3	TBD - based on request from ENTR	TBD - based on request from ENTR	30/06/2016	Scientific and policy reports
														4	TBD	TBD - based on request from ENTR	31/12/2016	Scientific and policy reports
4.1.c Development and evaluation of Earth observation applications and spatial information analysis tools in cooperation with other relevant entities (e.g. the Group on Earth Observations (GEO)) to increase the value of the Copernicus programme to public sector users, assess the fitness-for-purpose of the Copernicus products and services in relation to the European Commission users' needs, facilitate innovation by the private sector and support the EU broader space dialogues.																		
404 - GEMMA Geospatial Emergency Mapping and Copernicus Validation	GEMMA implements Copernicus Emergency Mapping Services-EMS; its key tasks are EMS contract management & maintenance of EMS tools developed by JRC and QA & validation of EMS products. Its activities also include remote-sensing based technical analysis to support EC-UN-World Bank Post-disaster needs assessment agreement. GEMMA R&D activities include fast GPU computing, crowd mapping & geospatial solutions for emergency management. In 2015, GEMMA will, via expert group, identify S&T advances for EMS	JRC.G.2 Delilah AL KHUDHAIRY	4.1.c	GROW	n/a	Francoise Villette (ENTR.G.3); Jorg Roos (ECHO)	DEVCO ECHO	EEAS - European External Action Service FPI - Foreign Policy Instruments Service	01/01/2014 31/12/2016	2-Information systems & services (55%) 4-Methods and testing (20%) 7-Scientific, technical & policy consultancy (25%)			INS-RS	201501	Final report EMS services	A final report will summarize project activities for the 3 EMS service contracts and evaluate performance parameters for the period 2012-2015. It will include suggestions for the implementation of the post-GIO phase (2015-2020). Relevant R&D results are described as well.	15/07/2015	JRC Technical reports
														201502	Peer-reviewed manuscript GPU processing Sentinels	A manuscript on the integration of Sentinel data into GPU-accelerated processing workflow for emergency mapping will be submitted to a peer reviewed periodical	15/09/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														201503	Ad-hoc support to PCNA/PDNA	Geospatial analysis, including image processing and interpretation, in support to ad-hoc requests for contributions to Post Crisis Needs Assessments/Post Disaster Needs Assessments (PCNA/PDNA), including field assessment missions	18/12/2015	JRC Technical reports
														201504	Contributions to IWG-SEM	The contribution to the International Working Group - Satellite Emergency Mapping will focus on benchmarking of common map products, quality control and product validation guidelines.	16/10/2015	JRC Technical reports
														201505	User Workshop on new EMS services	The workshop will be a first occasion to evaluate the new EMS services, established under the new Copernicus regulation. The JRC contribution will focus on evaluation of performance parameters and product validation, and will outline required improvements, if needed.	30/11/2015	Oral presentations
														201506	RPAS in Emergency Mapping	Deployment of very light fixed wing remotely Piloted Aircraft Systems (RPAS) using RGB and NIR cameras for rapid mapping purposes in the scope of emergency mapping. The RPAS at the JRC will be deployed and further tested in 'real' post disaster needs assessment field operations, as well in exercises and emergencies planned with EU civil protection authorities.	01/12/2015	JRC Technical reports
														201507	New Copernicus EMS rapid mapping service	The new rapid mapping service of the Copernicus Emergency Management Service (EMS) will start in Jan/Feb 2015 with improved workflow and an enhanced product portfolio. The report will describe the main changes with respect to the former EMS Rush service, provide an overview of actions performed during the hand-over period from the RUSH to the new rapid mapping, status of the new service, and main actions for next period.	06/12/2015	Scientific and policy reports
														201508	Expert Group for innovation in Copernicus EMS	The expert group will be convened by the JRC to provide recommendations on the integration of scientific and technical advances and innovation in the Copernicus Emergency Management Service and particularly its 3 services: validation, rapid mapping and risk and recovery mapping. The use of new sensors, image processing tools and internet technologies are amongst the issues that shall be addressed by the EMS Expert Group.	15/11/2015	Scientific and policy reports
														201601	Review report on new EMS services	The newly established EMS services will be reviewed against the agreed performance parameters for the first year of operations. The report will focus on the new JRC role in supervision, evaluation and product validation. It will include a technology review.	15/10/2016	JRC Technical reports
														201602	Peer-reviewed manuscript on Geospatial Steering	A manuscript on the advanced Geospatial steering in the processing workflow for emergency mapping will be submitted to a peer reviewed periodical	16/09/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
750 - EOSS Earth Observation Support to Copernicus Climate and Marine Services	The project aims at assessing, harmonizing and analysing Earth Observation (EO) marine data products, from EU and third party missions, in support of Copernicus Climate and Marine Services. The assessment and harmonization of EO ocean colour data products will rely on in situ measurements performed in oceans and seas. Quality assured and harmonized multi-mission EO data sets will be used to investigate seasonal and long-term variability of marine ecosystems and ocean carbon cycle.	JRC.H.1 Giuseppe ZIBORDI	4.1.c	GROW	n/a	Mauro Facchini, ENTR.G.2 (Mauro.Facchini@ec.europa.eu), Reinhard Schulte-Braucks, ENTR.G.3 (Reinhard.Schulte-Braucks@ec.europa.eu)	CLIMA ECHO ENV	- EUROPEAN SPACE AGENCY NIST - National Institute of Standards and Technology CEOS - Committee on Earth Observation Satellites (CEOS) EUMETSAT - European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) GCOS - Global Climate Observing System (GCOS) NASA - NASA - National Aeronautics and Space Administration NOAA - National Oceanic and Atmospheric Administration	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)			INS-RS	201501	In-situ data for assessing EO marine products	In situ reference bio-optical measurements will be regularly performed in support of the Article 5 of the proposed Copernicus Regulation. Measurements for the assessment of EO ocean colour data products will be collected through: i. autonomous systems at fixed sites and ii. occasional targeted oceanographic cruises. Measurements, benefitting from International Collaboration Agreements, will be operationally applied to assess EO data from ongoing ocean color missions.	31/12/2015	Validated methods, reference methods and measurements
														201503	EO reference data for monitoring seas and oceans	Global data sets will be updated for the creation of reference climate data records (CDR). Series of Essential Climate Variables from different missions will be analysed to promote harmonization and to assess their status as CDRs. The variability of derived ecosystem properties, relevant for marine ecology and carbon cycle, will be studied in support of EU climate impacts and adaptation policy. New missions will be considered to bridge current data records with Copernicus Sentinel-3.	31/12/2015	Scientific information systems and databases
														201601	In-situ data for assessing EO marine products	In situ reference bio-optical measurements will be regularly performed in support of the Article 5 of the proposed Copernicus Regulation. Measurements for the assessment of EO ocean colour data products will be collected through: i. autonomous systems at fixed sites and ii. occasional targeted oceanographic campaigns. Measurements from the autonomous systems will benefit from a Collaboration Agreement with the National Aeronautics and Space Administration (NASA).	31/12/2016	Validated methods, reference methods and measurements
														201602	Uncertainties of EO marine data products	Uncertainties of primary and derived EO ocean colour data products (including those from the Copernicus Sentinel-3 mission) will be quantified using in situ data from oceans and various regional seas in support of Article 11 of the Proposed Copernicus Regulation. The objective entails the bio-optical characterization of the regions of interest through the analysis of the in situ data.	30/09/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														201603	EO reference data for monitoring seas and oceans	Global EO data sets will be regularly updated for the creation of reference climate data records. EO data from different missions will be analysed through inter-comparison techniques to promote harmonization. New missions (e.g., VIIRS) will be considered to bridge the current EO data record with Copernicus Sentinel-3.	31/12/2016	Scientific information systems and databases
														201604	Methods for analyzing ocean biosphere variability	Advanced statistical methods will be reviewed and applied to time series of the ocean biosphere in support of EU climate impacts and adaptation policy. Essential Climate Variables will be complemented with primary production estimates from new developments of the JRC's marine photosynthesis model to better constrain the ocean carbon cycle. Developments will specifically address the properties of the European seas.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
900 - SPACE Space Policy and the Copernicus Programme	(ex TOGA) The European Earth Observation Programme Copernicus' goals include supporting public sector users. This project will test the value and adequacy of Copernicus products/services, in particular from its global land component and developing climate monitoring service, to inform EU Environment, Development and Climate action policies. The project's partnerships will also reinforce international (EU and Global) co-operation in Europe's space policy.	JRC.H.5 Michael CHERLET	4.1.c	GROW	n/a	Mauro Facchini G2 mauro.facchini@ec.europa.eu	AGRI CLIMA DEVCO ECHO ENV	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) GCOS - Global Climate Observing System (GCOS) UNEP - United Nations Environment Programme (UNEP) WMO - World Meteorological Organization (WMO)	01/01/2014 31/12/2016	1-Foresight studies & techniques (50%) 7-Scientific, technical & policy consultancy (50%)			INS-RS	1	Copernicus Global Land Service	Management of sub-delegation agreement with ENTR for running the Copernicus operational global land service 2014 to 2016 (period covered by the current framework contract)	19/12/2015	Scientific and policy reports
														2	Fitness-for-purpose of Global Land Service product	In partnership with Africa Union Commission, African Regional Economic Communities and associated Commission Services the value and fitness for purpose of the output from the Copernicus global land service for environmental resource management, reporting linked to multilateral environmental agreements, for Official Development Assistance partner countries of the EU and for the post 2015 sustainable development goals will be tested.	22/12/2015	JRC Technical reports
														3	Civil Space Dialogues	Through partnership with partner space agencies and EO users outside EU, especially USA, China, Africa Union Commission, Republic of South Africa, Russia and possibly Japan the project will report to the EU's civil space dialogues on scientific advances with our partners and will act as an implementing agent through involvement of staff from these partners in Copernicus product and service evaluation activities.	22/12/2015	JRC contributions to policy documents
														4	GMES and Africa process	DG ENTR and DEVCO continue to refine the GMES and Africa process. JRC will work to secure African endorsement of the GMES and Africa thematic Action Plans and establish a road-map for their implementation through our network of partners. Land resource assessment applications will be developed for the MESA project's eStation as a test bed.	19/12/2015	JRC contributions to policy documents
														5	Land degradation neutrality indicators	Indicators of land degradation neutrality, required in the follow up to Rio plus 20 are required and will be prototyped using output from the Copernicus global land service	18/12/2015	Validated methods, reference methods and measurements
														6	Indicators on competition for land	The land resource is under pressure from population growth, economic growth and globalisation. Land conversion rates and land capability/suitability information (soil, land-productivity...) population, with Copernicus global land service output will quantify land degradation rates, availability of land for food, fuel-wood or other land use. Also provide global case study for the Land as a Resource communication.	19/12/2015	Scientific and policy reports
														7	World Atlas on Desertification	New edition of the World Atlas of Desertification (WAD), reviewed by JRC/UNEP experts' panel, providing baseline information on land degradation issues. The Atlas will inform EU strategies for the land-degradation neutral world Rio+20 goal, contributes to the UNCCD and will use Global Land Service outputs for key global metrics on land degradation	18/12/2015	Scientific and policy reports
														8	EU input to the UNCCD science to policy process	EU positions in global land and desertification issues are supported through formal representation of the EC, in the UNCCD's Committee for Science and Technology (CST) in coordination with the Council Working Party on International Environment Issues (WPIEI) and links IPBES and ITPS. Our science and results on monitoring, assessment and on economic valuations of land degradation are provided for discussion of the UNCCD's science and implementation process. (previously del 3 of LDNC)	30/09/2015	JRC contributions to policy documents
														9	Advanced change detection techniques	As part of our Transatlantic collaboration to strengthen Earth Observation data use, new satellite data streams from Europe and USA - such as the recently launched Landsat 8 and the upcoming launch of EU's Sentinel 2 - must be integrated to address many resource management issues, particularly in developing countries. New change detection methodologies will be developed to optimally benefit from the huge image availability from these sensors in the near future.	21/12/2016	Scientific and policy reports
														10	Best practices for assessment of Copernicus	JRC Report documenting best practices in the assessment of Copernicus products and the evaluation of the fitness-for-purpose of the Services. Undertaken in the context of the Copernicus Cluster, taking advantage of sectoral policy competences concerning land resources and official development assistance programming.	30/09/2016	JRC Reference reports
														11	Civil Space Dialogues	Through partnership with partner space agencies and EO users outside EU, especially USA, China, Africa Union Commission, Republic of South Africa and Russia the project will report to the EU's civil space dialogues on scientific advances with our partners and will act as an implementing agent through involvement of staff from these partners in Copernicus product and service evaluation activities.	20/12/2016	JRC contributions to policy documents
														12	Evaluation of land ECV retrieval methods	Model-based quality assurance framework to overcome limitations in quality control of satellite-derived ECVs caused by different definitions and retrieval methods. Reconstruction of a large number of virtual landscape-scale environments towards the generation of satellite-specific EO data with a validated model to which a given ECV retrieval scheme is applied.	30/12/2015	JRC Technical reports
														13	Validation of CCS land ECV products	Automatic validation tool, based on deliverables 2 (2014) and 3 (2014), to extract and compare ECV products against in-situ reference data towards the In-situ validation of actual ECV products (albedo, leaf area index, FAPAR) with GCOS accuracy criteria	31/12/2016	JRC Technical reports
														14	Multi-mission consistency of ECV land products	Development of verification tools to check 1) the spatio-temporal coherency and 2) the physical consistency of ECV products over land. Publications of long-time records and their analysis in the scientific literature	31/12/2015	Technical systems
1025 - Copernicus4Agri Supporting Copernicus implementation in the Agricultural domain	To support the implementation of COPERNICUS focusing on crop monitoring, yield forecasting, area estimates & CAP controls, exploring further innovations using the Sentinel program. Effort is given to the field of area estimates and to develop synergies with the LUCAS (Land Use/Cover Area frame Survey) by ESTAT. Input to Steering groups of relevant RTD or ESA projects, and assessing products' fitness for purpose. New applications may be explored (monitoring irrigation, precision agriculture).	JRC.H.4 Olivier LEO	4.1.c	GROW	n/a	Mauro Facchini, HoU ENTR G2 G. Genovese, Deputy HoU AGRI L2	AGRI CLIMA DEVCO ECHO ESTAT RTD	ESA - European Space Agency - Italia FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EEA - European Environment Agency GEO - The Group on Earth Observations	01/01/2014 31/12/2016	2-Information systems & services (30%) 4-Methods and testing (40%) 5-Monitoring, verification and surveillance (30%)	JRC.H.5		INS-RS	1	Product assessment of fitness for purpose	Scientific report on the results of preparatory and exploratory activities to evaluate the use of selected COPERNICUS products (Global Land, in particular Proba V, Sentinel-1) for operational agricultural monitoring.	15/12/2015	Scientific and policy reports
														2	User board / Steering Committees / conferences	Scientific inputs on MARS/ DG AGRI needs in relevant ESA or DG RTD research projects related to the development of S2 products or of innovative applications in the field of Agriculture Monitoring and CAP control. Presentations related to EU Crop Monitoring and Early warning or CAP control activities in relevant COPERNICUS conferences.	14/12/2015	JRC Technical reports
														3	Contributions to GEO Global Agriculture Monitoring	Scientific report and support on the GEOGLAM G20 initiative. This includes the sharing of MARS data sets and tools with the global community of practice, inputs on the definition of a system of systems and on the appropriate procedure to produce monthly global reporting to the AMIS (Agricultural Market Information System).	15/12/2015	JRC Technical reports
														4	Product assessment of fitness for purpose	Scientific report on the results of preparatory and exploratory activities to evaluate the use of selected COPERNICUS products (Global Land, in particular Proba V, Sentinel-1) for operational agricultural monitoring.	15/12/2016	JRC Technical reports
														5	Improving synergies COPERNICUS-LUCAS	The following three synergies identified between Copernicus and LUCAS will be addressed over Europe: (1) Copernicus used to improve the accuracy of LUCAS area estimates; (2) Copernicus as quality control tool checking if / ensuring that the same LUCAS points are visited in different years, which is important for estimating land cover change rates; and (3) LUCAS field data can be used to train / assess the accuracy of the COPERNICUS mapping products.	15/12/2015	JRC Technical reports
														6	Area frame sampling in Developing Countries	Area frame sampling (AFS) provides unbiased crop statistics but is hardly used in developing countries (DC) for various reasons including lack of skills and awareness of the various options. It also needs to be adapted to landscape and national conditions (including resources and skills) in order to be cost efficient and sustainable. This report aims to propose options for implementing AFS in DC as a function of the local conditions.	15/12/2015	JRC Technical reports
														7	Field data for COPERNICUS in developing countries	The need for field data in the EU is satisfied to a large extent with LUCAS. Outside the EU the situation is much more difficult because most countries are very reluctant to share micro-data from national surveys. The collaborations to be carried out with developing countries under the framework of the FAO global strategy for agricultural statistics should provide data. Such data will be used to test the validity of procedures that combine photo-interpretation with field surveys along the road	15/12/2016	JRC Technical reports
1707 - Q4MECV Quality Assurance for Essential Climate Variables	The project will develop: a robust generic system for the QA of satellite and in-situ algorithms and data records that can be applied to all ECVs in a prototype for future sustainable services in the frame of the GMES/Copernicus Climate Change Service; multi-use tools and SIIcommunity reference standards; quality-assured multi-decadal Climate Data Records for 3 atmospheric ECV precursors (NO2, HCHO, and CO) and 3 land ECVs with full uncertainty metrics for every pixel ready for model ingestion.	JRC.H.7 Nadine GOBRON	4.1.c	GROW	n/a	Reinhard Schulte-Braucks, ENTR, G3 (Reinhard.Schulte-Braucks@ec.europa.eu); Mauro Facchini, ENTR, G2 (Mauro.Facchini@ec.europa.eu)	AGRI CLIMA ENV	CEOS - Committee on Earth Observation Satellites (CEOS) GCOS - Global Climate Observing System (GCOS) GEO - The Group on Earth Observations WMO - World Meteorological Organization (WMO)	01/01/2014 31/12/2017	5-Monitoring, verification and surveillance (100%)			COM-IA	3	Satellite derived ECV definition, field protocols	Report compiling information on the exact definition (including assumptions) of the ECV products generated by the satellite retrieval algorithms and precise description of field measurements and data analysis protocols.	30/06/2015	Validated methods, reference methods and measurements
														4	Harmonised retrieval for FAPAR properties	Development of JRC-FAPAR algorithm for AVHRR	31/12/2015	Validated methods, reference methods and measurements

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1710 - CLIPC Climate Information Platform for Copernicus	CLIPC will provide access to climate information of direct relevance to scientists, policy and private sector decision makers. The platform will complement Copernicus pre-operational service by focusing on datasets providing information on climate variability on decadal to centennial time scales from observed and projected climate change impacts in Europe through a toolbox to generate, compare and rank key indicators. The toolkit will be made available for integration with Climate-Adapt.	JRC.H.7 Nadine GOBRON	4.1.c	GROW	n/a	Reinhard SCHULTE-BRAUCKS ENTR.G3; Mauro FACCHINI, ENTR.G2	AGRI CLIMA DEVCO ECHO ENV	EEA - European Environment Agency WMO - World Meteorological Organization (WMO)	01/12/2013 30/11/2016	5-Monitoring, verification and surveillance (100%)			COM-IA	3	Calculation of existing impact indicators and form	Framework to complement existing climate indicators with additional data sets that are the focus of the consortium and expected value added over the original indicators. Provide phenological indicators.	31/08/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Implementation of existing and new climate impact	Report for steps for potential users on how to integrate available data in new climate impact indicator including consistency check and interpretation guidelines	30/11/2016	Validated methods, reference methods and measurements
														5	Impact aggregation and exploration	Development of tools 1) for scenario-based exploration of climate change impact indicators - Scenario based indicator exploration 2) for comparing, ranking and aggregating climate change impact indicators Comparison, ranking and aggregation of impact indicators 3) for specifying uncertainties of climate change impact indicators and toolbox module testing (Uncertainty assessment of impact indicators).	30/11/2016	Validated methods, reference methods and measurements
2148 - GHG-CCI P2 GHG-CCI Phase 2: Essential Climate Variable (ECV): Greenhouse Gases (GHG) CO2 and CH4	The project aims at extending and improving the global CO2 and CH4 satellite-derived concentration data to obtain long-term atmospheric GHG time series, needed for various carbon and climate related applications. It demonstrates how to use these satellite-derived data sets to improve our knowledge of the sources and sinks of the two major greenhouse gases CO2 and CH4. Another aspect is the preparation for new satellite missions like NASA's OCO-2 (CO2) and ESA's Sentinel-5-Precursor (CH4).	JRC.H.2 Peter BERGAMASCHI	4.1.c	GROW	n/a	Mauro FACCHINI (ENTR.G2)	CLIMA		01/03/2014 28/02/2017	5-Monitoring, verification and surveillance (100%)			COM-TW	1	Evaluation of XCH4 products	Evaluation of XCH4 products by comparisons with surface-flask optimized TM5 model data.	28/02/2015	Scientific and policy reports
														2	Global CH4 inversion using CRDP XCH4 products	Inverse modelling of methane surface fluxes using all "Baseline" CRDP XCH4 products (from CP2) for a one year time period (likely 2010).	28/02/2016	Scientific information systems and databases
														3	Global CH4 inversion using CRDP XCH4 products	Inverse modelling of methane surface fluxes using all "Baseline" CRDP XCH4 products (from CP3) for a one year time period (likely 2010).	28/02/2017	Scientific information systems and databases
2162 - MACC-III MACC-III (Monitoring Atmospheric Composition and Climate)	MACC-III will bridge between the end of the on-going MACC-II project and the start of the operational Copernicus service for atmosphere. The main objective of MACC is to further develop and run a pre-operational data-assimilation system for the major atmospheric constituents, including air pollutants, aerosols and GHGs. The task of JRC is to further develop and perform the pre-operational CH4 inversions, using satellite and surface measurements.	JRC.H.2 Peter BERGAMASCHI	4.1.c	GROW	GROW	FACCHINI Mauro (ENTR.G.2)	CLIMA ENV		01/08/2014 31/03/2015	5-Monitoring, verification and surveillance (100%)			COM-IA	1	Inverted CH4 surface fluxes 01-06/2014	Inverted CH4 surface fluxes for 01-06/2014 (MACC-III D43.1) 6-months update of "delayed-mode" CH4 inversions	31/03/2015	Scientific information systems and databases
														2	Report on the quality of the inverted CH4 fluxes	Report on the quality of the inverted CH4 fluxes (MACC-III D43.4)	31/03/2015	Scientific and policy reports
														3	Upgraded CH4 flux inversion system	Improve CH4 flux inversion system based on the technical experience of the routine processing and the scientific feedback of validation (MACC-III D44.2).	31/03/2015	Technical systems
2167 - PL-Copernicus 1 Planned: Administrative Arrangement on Technical support to Copernicus Programme	Multi-annual Administrative Arrangement with DG ENTR on the JRC technical support to the Copernicus Programme. Including: management of the Copernicus operational services for Emergency Management and Global Land; detached staff to the Copernicus Units in DG ENTR; data information architecture support, quality control and evaluation of Copernicus Services; in-situ reference datasets for calibration and validation, fitness for purpose of Copernicus Products and Services for EU Policy etc.	JRC.H.5 Mark DOWELL	4.1.c	GROW	GROW	Mauro FACCHINI	AGRI CLIMA CNECT DEVCO ECHO ENV HOME MARE MOVE REGIO		01/10/2014 30/09/2017	2-Information systems & services (30%) 4-Methods and testing (20%) 5-Monitoring, verification and surveillance (50%)	JRC.G.2 JRC.G.3 JRC.H.1 JRC.H.3 JRC.H.4 JRC.H.6 JRC.H.7		COM-AA	201501	Copernicus 1 AA 2015 report	Copernicus 1 AA 2015 report	31/10/2015	Scientific and policy reports
														201601	Annual report	Copernicus 1 AA 2016 report	30/10/2016	JRC Technical reports

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2276 - EO&SS@BigData Earth Observation (EO) & Social Sensing Big Data Pilot Project	The EO & Social Sensing pilot is JRC's 1st flagship 'Big Data' project. It will help build a structured approach at JRC on Big Data in EO & Social Sensing: from research & data management to processing/analysis. It also will build apt data & scientific computing environments to underpin JRC's support to the Copernicus programme. These environments also aim to accelerate progress & offer new opportunities in JRC research in EO & social sensing in environment, security, Citizen Science, Science2.	JRC.G.2 Delilah AL KHUDHAIRY	4.1.c	GROW	n/a	NAGY-ROTHENGASS Marta	CNECT	Delilah AL KHUDHAIRY	01/01/2015 31/12/2018	2-Information systems & services (90%) 9-Education & training (10%)	JRC.H.6		INS-UR	201501	System Architecture	System Design & Technical requirements for the Pilot's 3 environments: 1. Shared Data 2. Sandbox Computing 3. large scale processing& analysis; this includes also the assessment of the role of the JRC Data Centre. During this phase a thorough analysis of user requirements will be undertaken through comprehensive interviews and workshops with the relevant JRC projects. A comprehensive analysis of existing solutions and options will also be undertaken and documented	30/10/2016	JRC Technical reports
														201502	CID Operation	This includes the operations of the Community Image Data portal providing satellite image archiving and data dissemination services. It covers management, processing and archiving of data from selected JRC and DG stakeholders.	15/09/2015	Technical systems
														201503	CID migration plan	Once the architecture of the JRC BigData portal is defined (del 201501), a detailed migration is planned and described in a report.	15/12/2015	JRC Technical reports
														201601	Shared Data Information System	A Shared Data Information System is delivered ready for data -access, -loading, -management, and -storage of Earth Observation data and social sensing data identified in the systems architecture (del 201501).	30/10/2016	Technical systems
														201602	System Architecture - Web-based knowledge sharing	System Design & Technical requirements for the Pilot's web-based collaborative knowledge sharing environment for internal JRC users and JRC external partner community to access the Pilot's 3 other environments (dels 201601&3, 201702) ; this includes assessment of the role of JRC Data Centre. During this phase a thorough interview-based analysis of user requirements will be undertaken with relevant JRC projects. System design & technical requirements will be documented	01/06/2016	JRC Technical reports
														201603	Sandbox computing Environment	Based on Del. 201501 a Sandbox Computing Test Environment is setup for use by relevant JRC projects to run & test prototype code and models in the fields of earth observation & social sensing, before they maybe transferred to the Pilot's large scale IT Environment. 'Users & service supply governance' & 'roles & responsibilities' documentations will be delivered to facilitate use of the Sandbox; stress tests & experiments with JRC user projects will be done during the 'test phase' of the SandBox	01/10/2016	Scientific information systems and databases
														201604	CID Operation	The deliverable includes operations of the Community Image Data portal providing satellite image archiving and data dissemination services. It covers management, processing and archiving of data from selected JRC and DG stakeholders	31/12/2016	Technical systems
														201605	CID migration	The first step in the migration of CID data content (and other selected stakeholders data) into the Shared Data Information System (see also del. 201601). CID operation will have to continue for a period overlapping with the Shared Data Information System.	30/12/2016	Technical systems
														201606	Operations of the Sandbox computing environment	The deliverable covers the maintenance and operations of the Sandbox computing environment	31/12/2016	Technical systems
														201701	Web-based Collaborative knowledge sharing - I	A Web-based Collaborative knowledge sharing Environment is established for sharing/disseminating results with internal JRC community and through which JRC user communities can run data processing/analysis tools and models in the Sandbox and large-scale IT environments and to also access the share data environment; stress tests and trials with select users will be operated through the test phase.'Users & service supply governance' and 'roles & responsibilities' documentations are also delivered.	30/09/2017	Technical systems
														201702	IT Environment for largescale experiments&analysis	Based on Del. 201501 an IT Environment is delivered for running large-scale experiments and routine operational, data processing/analysis. It is aimed for use by relevant JRC projects in earth observation & social sensing & by external user community as part of the Pilot's goal to be a BigData node.'Users & service supply governance' & 'roles & responsibilities' documentations are delivered to facilitate its use;stress tests and experiments with internal and external users are planned too.	30/09/2017	Technical systems
														201703	operations-Sandbox & large scale IT environments	The deliverable covers the maintenance and operations of the Sandbox computing and largescale IT processing and analysis environments	31/12/2017	Technical systems
														201801	Web-based Collaborative knowledge sharing II	A Web-based Collaborative knowledge sharing Environment is established for sharing/disseminating results with external JRC partner community and through which partners and other users can run data processing/analysis tools and models in either the Sandbox or large-scale IT environments; stress tests and trials with select users are operated through the test phase. 'Users & service supply governance' and 'roles & responsibilities' documentations are also delivered	30/03/2018	Technical systems
														201802	JRC Big Data EO and Social Sensing Node	JRC Big Data EO and Social Sensing Node is established as part of the emerging international network of Big Data nodes; stress tests and trials with wider user partner community will be operated throughout the test phase. A Communication Strategy will be delivered and also executed through enacting the identified actions	01/10/2018	Technical systems
201803	Transfer of Pilot environments to Ispra Site dir.	All the following JRC Big Data EO and Social Sensing environments established during the Pilot: • Shared Data Environment for Access, Management, Storage/Repository of data and the results of analysis • Sandbox Computing Test Environment for testing prototype code/models • IT Environment for running large-scale experiments and data processing/analysis • Collaborative knowledge sharing Environment are transferred to the responsibility of the JRC Ispra Site Directorate G2 and h6 joint!	30/01/2019	Scientific information systems and databases														
201804	Operations-Sandbox & largescale IT environments	The deliverable covers the maintenance and operations of the Sandbox computing and large scale IT processing and analysis environments	31/12/2018	Technical systems														
4.1.d Promotion and analysis of Key Enabling Technologies (KETs) in regional smart specialisation strategies;																		
675 - S3P - KETs S3P Monitoring of the uptake of KETs at regional level	The main objective of this project is to assist the regions in identifying their respective economic niches and competitive advantages in the development and deployment of KETs. This is also one of the priorities identified and actively developed by the High-Level Group on KETs.	JRC J.2 Manuel PALAZUELOS MARTINEZ	4.1.d	GROW	n/a	Michel Catinat DG ENTR	REGIO RTD	OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		219 - S3P - CONNECT S3P - Digital Agenda 663 - S3P S3P Smart specialisation platform	INS-RS	1	Annual report	End of the year report on the smart specialization activities with regard to Key Enabling Technologies	31/12/2015	JRC Technical reports
														2	Final report	End of the year report on the smart specialization activities with regard to Key Enabling Technologies	31/12/2016	JRC Technical reports
4.1.e Pre-, co- and peri-normative research, reference measurements and materials; harmonised methodologies; contribution to EU standardisation in environmental assessment, biotechnologies, nanotechnologies, security products and solutions including CBRNE detection methods; advanced materials and characterisation of new products and technologies; implementation, harmonisation and evolution of the Eurocodes; Measurements and Standards Helpdesk for the European																		
64 - NANOVALID Developing Reference Methods for Nanomaterials	Aims to develop reliable reference methods and materials for the fabrication, physicochemical characterization, hazard identification and exposure assessment of engineered nanomaterials, including methods for dispersion control and labelling of nanomaterials. Current approaches and strategies for risk and life cycle assessment will be improved, modified and further developed, and their feasibility assessed by means of practical case studies. Associated risks to human health will be examined.	JRC.H.6 David RICKERBY	4.1.e	GROW	RTD	Christos Tokamanis, Nicolas SEGEBARTH (RTD.D.3)	ENV FISMA RTD SANTE	OECD - Organisation for Economic Co-operation and Development (OECD)	01/11/2011 30/10/2015	1-Foresight studies & techniques (35%) 4-Methods and testing (35%) 6-Reference materials and measurements (30%)			COM-IA	671	Accidental Risk Report	Report on the basis of cases studies (industrial accident or traffic accident)	30/04/2015	JRC Technical reports

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131 - SMART-NANO Sensitive MeAsuRemenT, detection, and identification of engineered NANOparticles in complex matrices	SMART-NANO (Sensitive MeAsuRemenT, detection, and identification of engineered NANOparticles in complex matrices) is aiming to develop an innovative technology platform that provides a total solution "from sample-to-result" for the detection, identification, and measurement of engineered nanoparticles (ENPs) in a wide range of matrices. The outcome of the project will be a miniaturized, modular, cartridge-based technology platform.	JRC.I.4 LUIGI CALZOLAI	4.1.e	GROW	RTD	Nicolas Segebarth - RTD.G.4 - Nanoscience and Nanotechnology, Otto Linher (ENTR.F.2)	ENV SANTE	CEFIC - European Chemical Industry Council (CEFIC) Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Cosmetics Europe - European Cosmetics Association ECHA - European Chemicals	01/08/2012 31/05/2016	4-Methods and testing (100%)		375 - NanoCharacter Characterisation and analytical methods for nanomaterials	COM-HA	2	SMART-NANO Third Year Report	This report summarises the progress and achievements of the 3rd year of the SMART-NANO project.	15/11/2015	JRC Technical reports
														3	SMART-NANO Final Report	This report summarises the progress and achievements of the SMART-NANO project.	31/07/2016	JRC Technical reports
159 - NanoChop Chemical and optical characterisation of nanomaterials in biological systems	Development of methods to characterise nanomaterials for their physical, chemical and optical properties in biological matrices. This JRC project focuses on the development of a series of nanoparticle reference materials that will be further used by the EMRP project partners.	JRC.D.2 Andrea HELD	4.1.e	GROW	RTD	Otto LINHER ENV F.2	ENV SANTE	- EURAMET EV EUROPEAN ASSOCIATION OF N	01/08/2012 31/05/2015	6-Reference materials and measurements (100%)			COM-HA	1	Final Report	Final Report	31/05/2015	JRC Technical reports
175 - SAFECLADDING Improved fastening systems of cladding wall panels of precast buildings in seismic zones	The current design practice of precast buildings is based on a model where the cladding panels enter only as masses without stiffness. This approach does not work, as it was dramatically shown by recent earthquakes, like the 2012 Emilia (Italy) earthquake. The project is aimed at investigating the seismic behavior of precast structures with cladding wall panels and to develop innovative connection devices and novel design approaches for a correct conception and design of the fastening systems.	JRC.G.4 Paolo NEGRO	4.1.e	GROW	RTD	carvalho dias maria ENTR		CEN - European Committee for Standardization	01/08/2012 31/07/2015	4-Methods and testing (100%)		610 - ELSALab ELSA Laboratories: Reaction Wall and HOPLAB facilities 615 - PNR-Eurocodes Pre-Normative Research in support of 2nd generation of the Eurocodes	COM-HA	1	Test report on full-scale prototypes	The report will contain results obtained on cyclic and pseudodynamic tests performed at ELSA on a single-storey industrial building equipped with different configurations of precast cladding elements. The tests will be conducted for two main groups of cladding arrangements (horizontal and vertical), for a broad range of different fixture schemes and for different levels of intensity. The results will be used to develop and calibrate numerical models to derive general guidelines for design.	31/01/2015	JRC Technical reports
284 - MSHELPDESK JRC Measurements and Standards Helpdesk	The JRC Measurements and Standards Helpdesk provides reliable and independent information on standards and measurements for specific regulatory/policy issues on request of the policy departments of the Commission. It can also provide preliminary technical reviews with limited scope in areas of interest to the policy departments. The helpdesk employs the expertise of the whole JRC via an internal network of contact points.	JRC.D.3 Josephine MCCOURT	4.1.e	GROW	n/a	Hein BOLLENS - ENTR.B.5 - hein.bollens@ec.europa.eu	AGRI CLIMA ENV FISMA HOME JUST NEAR RTD SANTE TRADE		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			INS-RS	2	Activity report to Enterprise and Industry DG 2015	The activity report will describe the interventions of the helpdesk detailing the request and replies/opinions/technical advice given by the JRC network of experts	15/12/2015	Scientific and policy reports
														3	Activity report to Enterprise and Industry DG 2016	The activity report will describe the interventions of the helpdesk detailing the request and replies/opinions/technical advice given by the JRC network of experts	15/12/2016	Scientific and policy reports
375 - NanoCharacter Characterisation and analytical methods for nanomaterials	Development of materials and methods needed for the implementation of EU legislation regarding nanomaterials, such as the definition of 'nanomaterial' and labelling requirements for nanomaterials in consumer products. The methods and processes developed aim at synthesizing nanomaterials and characterising their physical, chemical, biochemical properties that have a potential impact on biological interactions and their stability in time.	JRC.I.4 Douglas GILLILAND	4.1.e	GROW	n/a	Otto Linher (ENTR.F.2)	ENV SANTE	CEFIC - European Chemical Industry Council (CEFIC) Chem Cos Pharm Food Agri - Chemicals, Cosmetics, Pharmaceuticals, Food, and Agrochemicals Industry Cosmetics Europe - European Cosmetics Association Agency (ECHA) EFSA - European Food Safety	01/01/2014 31/07/2016	4-Methods and testing (75%) 7-Scientific, technical & policy consultancy (25%)	JRC.I.1	131 - SMART-NANO Sensitive MeAsuRemenT, detection, and identification of engineered NANOparticles in complex matrices 593 - NanoTrace (Radio)labelling of nanomaterials for tracing in biological systems 595 - NanoUptake Biokinetics of nanomaterials:	INS-RS	4	Advanced characterisation methods for NMs	Advanced characterisation methods for nanomaterials in complex matrices based on ToF SIMS and XPS and synchrotron Radiation techniques.	31/10/2015	JRC Technical reports
														5	Protocols for detection of TiO2 and SiO2 NP	JRC Report/publication on the optimization of detection protocols for titanium dioxide and silicon dioxide in complex matrices.	31/12/2015	JRC Technical reports
														6	SP-ICP-MS for detection of Ag NP	Protocol for Single Particle ICP-MS detection of Ag NP.	27/07/2016	JRC Technical reports
														7	NP biota interaction in natural waters	PhD report and publication on the characterisation and detection of NPs in biota from natural waters.	15/12/2016	PhD thesis
														8	Comparative study of detection protocols for NP	Comparative study of detection protocols for different types of nanomaterials for different physical chemical properties.	31/12/2016	JRC Technical reports
427 - MSCAPACITY Measurements and standards in accreditation: capacity building for key policy areas	Laboratory accreditation is a critical part of the EU quality infrastructure (Regulation (EC) No 765/2008). This project develops capacity to interpret the metrological requirements of ISO/IEC 17025 in a harmonised way by training and by building expert networks. It focuses on needs linked to the single market and external trade (European Neighbourhood Policy), security and consumer protection. The project targets reference, designated and control laboratories and inspection authorities.	JRC.D.3 Josephine MCCOURT	4.1.e	GROW	n/a	Nike Boennen, ENTR.C.1	DEVCO NEAR SANTE TRADE	MS EU - Member states EU OPCW - Organisation for the Prohibition of Chemical Weapons	01/01/2014 31/12/2016	9-Education & training (100%)			INS-RS	9	TrainMIC programme 2015 - report	Training in Metrology in Chemistry (TrainMIC) programme aiming at a harmonised interpretation of the metrological requirements of ISO/IEC 17025 – the main standard for chemical and bio-analytical testing laboratories in different sectors such as environment, food or consumer protection - is managed by the JRC. Training is given by licenced local trainers in the Member States. The programme trains ca 500 practitioners in MS laboratories every year.	31/12/2015	Training
														11	Workshop on technical requirements ISO17025	This workshop organised in an acceding country or a country covered by the European Neighbourhood Policy (ENP) will assist laboratory quality managers and practitioners to understand how to implement the requirements of ISO/IEC-17025 in the laboratory. The training will be organised as a TrainMIC workshop. This workshop will contribute to capacity building at a national level and towards the development of a Common Knowledge and Innovation Space as defined in the ENP.	13/12/2015	Training
														12	Workshop on technical requirements ISO17025	This workshop organised in an acceding country or a country covered by the European Neighbourhood Policy (ENP) will assist laboratory quality managers and practitioners to understand how to implement the requirements of ISO/IEC-17025 in the laboratory. The training will be organised as a TrainMIC workshop. This workshop will contribute to capacity building at a national level and towards the development of a Common Knowledge and Innovation Space as defined in the ENP.	13/12/2015	Training
														13	Workshop on technical requirements ISO17025	This workshop organised in an acceding country or a country covered by the European Neighbourhood Policy (ENP) will assist laboratory quality managers and practitioners to understand how to implement the requirements of ISO/IEC-17025 in the laboratory. The training will be organised as a TrainMIC workshop. This workshop will contribute to capacity building at a national level and towards the development of a Common Knowledge and Innovation Space as defined in the ENP.	31/10/2015	Training
														14	Quality assurance training early-stage researchers	The JRC organises a training course for early-stage (doctoral/postdoctoral) researchers on how to establish quality assurance (QA) for analytical measurements. Employers increasingly require laboratory staff to work according to ISO/IEC 17025. This training in the area of quality assurance of analytical measurements helps to implement the new legislative framework 765/2008/EC and 768/2008/EC which underlines the importance of competent people in the laboratories.	31/08/2015	Training
														15	Harmonising accreditation technical assessments	Harmonised accreditation practice via a common understanding of interpreting the requirements of ISO/IEC 17025 in the laboratory is essential for the proper functioning of accreditation. The training will be organised as a TrainMIC workshop.	15/11/2015	Training
														16	e-learning module for technical assessors	Easy to use, easy to access self-contained e-learning module will help technical assessors of accreditation bodies to harmonise their practices.	31/12/2015	Training
														17	Case study applying CoP theory in expert networks	A case study on an expert network or e-learning community to apply theories on communities of practise to facilitate expert collaboration.	31/07/2015	Scientific and policy reports
														18	Scientific article on communities of practise	As part of a PhD thesis study on communities of practise as a tool for knowledge transfer.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
579 - PVREF Photovoltaics Performance Verification and Standards	The European Solar Test Installation (ESTI) will provide independent measurements of the electrical performance of PV devices for EU research projects, national laboratories and industry. For this purpose it shall maintain ISO 17025 accreditation. It will perform pre-normative research on new and improved performance measurement methods, and work with the PV community to introduce these into European and international standards. It will also address long-term reliability of PV devices.	JRC.F.7 Nigel TAYLOR	4.1.e	GROW	n/a	ENTR B05 (Hein BOLLENS)	ENER RTD	CENELEC - European Committee for Electrotechnical Standardization (CENELEC) EERA - European Energy Research Alliance IEC - International Electrotechnical Commission PV Ind EU - Photovoltaic industry EU R&D Inst Int - Governmental and independent R&D institutions SET-Plan Com - SET-Plan Community	01/01/2014 31/12/2016	4-Methods and testing (80%) 5-Monitoring, verification and surveillance (20%)		749 - PVRES PV Resources, Innovation and Market Integration 765 - SETIS SET-Plan Information System 793 - EIB Energy Buildings Transforming the EU 2050 building stock from energy consumer to energy producer	INS-RS		1501	ESTI laboratory management system 2015	Reports on validation of measurement systems, procedures, techniques and on reduction of uncertainty in the ISO 17025 accredited ESTI Management. This system underpins the role of ESTI as reference lab and allows the issuance of legally valid calibration certificates. Each year a number of procedures are updated and improved. The functioning of the system is also audited, both internally and with an annual external audit by the relevant accreditation body (Accredia).	31/12/2015	Validated methods, reference methods and measurements
															1502	ESTI Measurement Traceability Report 2015	ESTI performs various benchmarking activities with external organisations annually, including inter-comparisons for pyrheliometers, cavity radiometers and broadband spectroradiometers. The results of these activities and potential impact on measurement uncertainty are presented in a summary report. In 2015 this will include the results of ESTI's participation to the 5-yearly inter-comparisons to the World Radiometric Reference group, PMOD, Davos.	31/12/2015	Validated methods, reference methods and measurements
															1503	ESTI Calibrations and Verifications 2015	Report on a) calibration of devices for national laboratories; b) verifications made on request of technologies developed in EU programmes; c) calibrations performed for EU education institutions and d) calibrations for SMEs under agreed regional support programmes, e) ESTI solar resource database (meteo tower, sun disk data); f) verification of ESTI's measurement capabilities in inter-comparisons with peer laboratories (e.g. AIST, NREL, CEA-INES, Fraunhofer ISE)	31/12/2015	Validated methods, reference methods and measurements
															1504	PV Performance Scientific Publications	The efforts made by ESTI to improve its measurement capabilities are disseminated by the publication of scientific articles - Solar Cell Efficiency Tables (with external co-authors) - Best practices for PV power measurement - Consolidated results of benchmarking, round robin and other inter-comparisons for measurement procedures already included in the ESTI quality management system.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															1505	PV Standards Status 2015	Summary report comprising: - status and strategy of International Electrotechnical Commission (IEC) Technical Committee 82 activities, where JRC chairs the main technical committee and leads projects in working group 2 (flat plate modules) and working group 7 (concentrated photovoltaics); - status and strategy of the European Committee for Electrotechnical Standardisation (CENELEC) TC-82 activities, where JRC is convenor of Working Group 1 - status of International Quality Assurance Forum	31/12/2015	Scientific and policy reports
															1506	Pre-normative R&D for power and energy measurement	Establishing and verifying measurement procedures for emerging technologies including organic and dye-sensitised photovoltaic devices, multi-junction flat-plate devices and building integrated products. The project will also take benefit of formal collaboration with peer-organisation in Europe and internationally. The results of these studies are disseminated to the relevant standards working groups.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															1508	Scientific analysis of long-term PV performance	R&D will be performed addressing single and multiple stressors, acceleration of such effects and measurement of resulting performance degradation. This will be complemented by long-term exposure studies and conditioning monitoring measurements. The work will be performed also in collaboration with external organisations in an international dialogue on quality assurance of PV modules.	30/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															1601	ESTI laboratory management system 2016	Reports on validation of measurement systems, procedures, techniques and on reduction of uncertainty in the ISO 17025 accredited ESTI Management. This system underpins the role of ESTI as reference lab and allows the issuance of legally valid calibration certificates. Each year a number of procedures are updated and improved. The functioning of the system is also audited, both internally and with an annual external audit by the relevant accreditation body (Accredia).	31/12/2016	Validated methods, reference methods and measurements
															1602	ESTI Calibrations and Verifications 2016	Report on a) calibration of devices for national laboratories; b) verifications made on request of technologies developed in EU programmes; c) calibrations performed for EU education institutions and d) calibrations for SMEs under agreed regional support programmes, e) verification of ESTI's traceability and measurement capabilities in inter-comparisons and other activities with peer laboratories (e.g. AIST, NREL, CEA-INES, ESA ESTEC, Fraunhofer ISE).	31/12/2016	Validated methods, reference methods and measurements
															1604	PV Standards Status 2016	Summary report comprising: - status and strategy of International Electrotechnical Commission (IEC) Technical Committee 82 activities, where JRC leads projects in working group 2 (flat plate modules) and working group 7 (concentrated photovoltaics); - status and strategy of the European Committee for Electrotechnical Standardisation (CENELEC) TC-82 activities, where JRC is convenor of Working Group 1 - status of International Quality Assurance Forum	31/12/2016	Scientific and policy reports
610 - ELSALab ELSA Laboratories: Reaction Wall and HOPLAB facilities	To maintain, operate and keep up to date the reaction wall and HOPLAB facilities to provide a service for projects carrying out experimental test campaigns while ensuring high standards of safety and quality. This includes regular and improved maintenance, strategic planning for new investments, implementation of safety standards, ISO certification, calibration and management of sensing equipment, maintenance of the ELSA database, implementation of protocols for qualification and procurement.	JRC.G.4 Pierre PEGON	4.1.e	GROW	n/a	Marzena ROGALSKA	RTD		01/01/2014 31/12/2016	2-Information systems & services (15%) 3-Instrumentation & hardware (25%) 4-Methods and testing (60%)		123 - SILER Seismic-Initiated events risk mitigation in LEad-cooled reactors 175 - SAFECLADDING Improved fastening systems of cladding wall panels of precast buildings in seismic zones 612 - RINET Networking and advancement of RIs for innovation safety	INS-RS		3	ELSA Lab operation and maintenance report 2015	Experiments planning and control, review of strategic planning for new investments, implementation of safety standards, successful re-certification according to ISO9000 quality management (July 2015), preventive maintenance plans for hydraulic equipment, further progress on the implementation of protocols for qualification of the infrastructure.	15/12/2015	JRC Technical reports
															4	Implementation and operation of the ISO building	Effective implementation and use of the ISO building with regards to management of the equipment and instrumentation of the laboratory. Plan for implementation of the control room through the use of multi-media communication systems for raising the impact of the service to stakeholders and dissemination activities of the ELSA Unit.	15/12/2015	JRC Technical reports
															5	ELSA Lab operation and maintenance report 2016	Experiments planning and control, review of strategic planning for new investments, implementation of safety standards, successful re-certification according to ISO9000 quality management (July 2016), assessment of the effects of planning and control, as well as on the implementation of protocols for qualification, on the performance of the Laboratory.	15/12/2016	JRC Technical reports
612 - RINET Networking and advancement of RIs for innovation safety and sustainability in the building sector	Build up a sustained platform for collaboration of Research Infrastructures (RIs) in earthquake engineering and structural dynamics in the EU encompassing the objectives of the ESFRI. Establish a framework for collaboration with NEES-USA and promote collaboration with other leading networks and RIs outside the EU. Development of new technologies, techniques and standards promoting efficient and joint use of RIs. Evaluation of innovative technologies, including robotics in construction.	JRC.G.4 Fabio TAUCER	4.1.e	GROW	n/a	Marzena Rogalska, Head of Unit, DG ENTR B.1	RTD	ESFRI - European Strategy Forum on Research Infrastructures	01/01/2014 31/12/2016	2-Information systems & services (25%) 6-Reference materials and measurements (50%) 9-Education & training (25%)		610 - ELSALab ELSA Laboratories: Reaction Wall and HOPLAB facilities	INS-RS		3	Distributed database in the building sector	Achievements and benefits of sharing of experimental data between RIs in the EU and with the NEES network in the US. Development of protocols for the exchange of data between the NEES database and the central distributed database developed in the FP7 project SERIES. Population of the EU distributed database with experimental data.	15/12/2015	JRC Technical reports
															4	Joint use of RIs in earthquake engineering	Elaboration of a roadmap promoting and enhancing collaboration of Research Infrastructures (RIs) in earthquake engineering in the EU and with international partners. Identification of priority topics for Transnational Access to Large Scale Infrastructures. Recommendations for the development of innovative technologies for efficient use of RIs, including robotics and applications for Real Time Hybrid Simulation (RTHS) to civil structures	15/12/2015	Scientific and policy reports
															5	New instrumentation and sensor techniques	New instrumentation and sensor techniques for improved sensing and test control. Use of data assimilation and model updating to develop virtual models of the equipment-specimen system, in combination with recent advances in control, to reduce calibration pre-tests, optimise instrumentation and improve the quality results. Data collection, processing and communication for distributed testing and simulation at virtual facilities integrating different infrastructures.	31/12/2016	JRC Technical reports
615 - PNR-Eurocodes Pre-Normative Research in support of 2nd generation of the Eurocodes	Pre-normative research exploiting the experimental results of ELSA and its network of European partners for developing safety standards. This includes the design of new, and the assessment and retrofit of new and existing structures and critical infrastructure, increased loading due to climate change adaptation, further harmonization of NDPs and new technologies and materials - including glass - for sustainability, the new generation of Eurocodes. Use of ELSA lab upon new requirements.	JRC.G.4 Fabio TAUCER	4.1.e	GROW	n/a	Marzena ROGALSKA	CLIMA ENER ENV	CEN - European Committee for Standardization	01/01/2014 31/12/2016	4-Methods and testing (100%)		175 - SAFECLADDING Improved fastening systems of cladding wall panels of precast buildings in seismic zones 610 - ELSALab ELSA Laboratories: Reaction Wall and HOPLAB facilities 813 - SAFESUST Impact of sustainability and energy efficiency requirements on building design and retrofit 1072 - AA-Eurocodes Support to the	INS-RS		4	Design of dual eccentrically braced steel frames	Recommendations for the design of new dual eccentrically braced frames with self-centring capabilities after replacement of removable seismic links. The work stems from the results of the test campaign carried out at ELSA within the framework of the DUAREM Project and will lead to the preparation of European guidelines supporting the drafting of the new generation of the Eurocodes	30/09/2015	JRC Technical reports
															5	Seismic assessment and retrofit of bridges	Preparation of European Guidelines in conjunction with a network of European experts for the seismic assessment and retrofit of bridges with base isolation. The work addresses existing reinforced concrete bridges built in the 60s and 70s highly vulnerable to seismic loading, retrofitted by means of base isolation. The guidelines stem from the results of test campaign carried out at ELSA within the framework of the RETRO Project.	15/12/2015	Scientific and policy reports
															6	Seismic design of precast structures	Preparation of European Guidelines for the design of precast structures in seismic regions. The work addresses the design of new structures and is concerned with the connections and interaction of cladding panels with the precast structure in order to avoid the overturning of the panels as observed in the Emilia earthquakes of 2012. The guidelines will stem from the results of tests carried out at ELSA within the framework of the SAFECLADDING Project.	15/12/2016	Scientific and policy reports
620 - AVSEC-rt Aviation security - certification	Provision of scientific technical support regarding a European conformity assessment system for aviation security screening equipment, as laid down in the Commission Action Plan for an innovative and competitive Security Industry, COM(2012) 417. The project will review and develop EU harmonised Conformity Testing Methodologies and testing procedures in collaboration with policy makers and stakeholders.	JRC.D.3 David ANDERSON	4.1.e	GROW	n/a	CONTARETTI Alberto Pietro (ENTR) <alberto-pietro.contaretti@ec.europa.eu>	HOME MOVE	ECAC - European Civil Aviation Conference ICAO - International Civil Aviation Organization (ICAO) MS Border Sec - MS Border and other Security Authorities Tech Serv - Member States and their Technical Services/type approval authorities	01/01/2014 31/12/2015	4-Methods and testing (30%) 6-Reference materials and measurements (30%) 7-Scientific, technical & policy consultancy (40%)		618 - AVSEC-std Aviation security - standards 622 - (CBRN)E-std CBRNE - standards for E threats	INS-RS	23	EU certification system	To incorporate certification of equipment into an EU single market process including the harmonisation of equipment testing by accredited EU laboratories. Support to impact assessment of a harmonised EU certification system for aviation security screening equipment.	31/01/2015	Validated methods, reference methods and measurements	
																	31/12/2015	JRC contributions to policy documents	

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
650 - MSN Measurement standards for nanotechnology	Pre-normative research and development of new certified reference materials for measurements of size and other physico-chemical parameters at the nanoscale in support of enterprise and industry policy, in particular supporting the implementation of the Commission Recommendation COM(2011)696 on the definition of nanomaterial, this includes the sustainable provision of "nano"-CRMs to analytical laboratories world-wide; participation to standardisation of particle measurements.	JRC.D.2 Andrea HELD	4.1.e	GROW	n/a	Otto Linher, ENTR F.2	ENV SANTE		01/01/2014 31/12/2016	6-Reference materials and measurements (100%)		159 - NanoChop Chemical and optical characterisation of nanomaterials in biological systems 651 - NPAS Nanotechnology: policy advice and standardisation 1470 - NANODEFINE Development of methods and standards supporting the	INS-RS	2	Certified Reference Materials	Reference Materials certified for properties at the nano-scale	31/12/2015	Reference materials	
														3	Certified Reference Materials	Reference Materials certified for properties at the nano-scale	31/12/2016	Reference materials	
651 - NPAS Nanotechnology: policy advice and standardisation	Provision of advice to policy DGs in the field of nanotechnology, especially related to definitions (Commission Recommendation COM(2011)696 on the definition of nanomaterial) and measurement issues; participation in standardisation activities related to new and updated documentary standards for nanotechnology-related concepts, terminology and measurements by CEN and/or ISO	JRC.D.2 Andrea HELD	4.1.e	GROW	n/a	Henrik LAURSEN (ENV A.3); Otto Linher (ENTR F.2)	SANTE	CEN - European Committee for Standardization ISO - International Organization for Standardization (ISO)	01/01/2014 30/12/2016	6-Reference materials and measurements (100%)		Chemical and optical characterisation of nanomaterials in biological systems 603 - HARNS Harmonisation and standardization for testing chemical substances including nanomaterials	INS-RS	2	Reports supporting revision of the nano-definition	Reports preparing the revision of the nano-definition	31/12/2015	JRC Technical reports	
652 - ADVANCE IRMM Advanced Materials	Development of new measurement standards and quality benchmarks for functional properties of advanced materials, this includes the sustainable provision of CRMs for testing of impact resistance (in support of Regulation (EU) 305/2011 and Directives 1997/23/EC and 2009/105/EC) to testing laboratories world-wide; representation of the Commission in the Versailles Project on Advanced Materials (VAMAS)	JRC.D.2 Andrea HELD	4.1.e	GROW	n/a	Dhooge Hans		ISO - International Organization for Standardization (ISO) VAMAS - Versailles Project on Advanced Materials and Standards (VAMAS)	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)			INS-RS	2	Certified Reference Materials	Reference Materials certified for method-dependent properties of advanced materials	31/12/2015	Reference materials	
														3	Certified Reference Materials	Reference Materials certified for method-dependent properties of advanced materials	31/12/2016	Reference materials	
														4	Standardisation needs for advanced materials	Report on standardisation needs for advanced materials	31/12/2016	JRC Technical reports	
657 - SIC Standards for industrial competitiveness	Development of measurement standards for a variety of industrially relevant materials and applications, that support the competitiveness of European	JRC.D.2 Andrea HELD	4.1.e	GROW	n/a	Hein Bollens, ENTR B.5	ENER ENV RTD		01/01/2014 31/12/2016	6-Reference materials and measurements (100%)		934 - IMPACT Measuring the Impacts of Air Pollution and Climate Policies on the Atmosphere	INS-RS	2	Certified Reference Material	Certified Reference Material for an industrially relevant matrix	31/12/2016	Reference materials	
														3	Certified Reference Material	Certified Reference Materials for an industrially relevant matrix	31/12/2016	Reference materials	
														4	Training course on reference materials	Training course on the selection and use of reference materials	31/12/2015	Training	
														2	Certified Reference Material	Certified Reference Material for an industrially relevant matrix	31/12/2016	Reference materials	
813 - SAFESUST Impact of sustainability and energy efficiency requirements on building design and retrofit	Development of a framework for assessing the performance of existing and new construction material solutions for single buildings addressing sustainability and energy efficiency in terms of mechanical resistance and stability. Establish research needs for assessing technology options for earthquake resistant, eco-efficient buildings in Europe. Promote the creation of a unified approach for interoperable standards addressing all Requirements (BRCW) of the Construction Products Regulation (CPR)	JRC.G.4 Paolo NEGRO	4.1.e	GROW	n/a	Marzena ROGALSKA	ENER ENV	CEN - European Committee for Standardization	01/01/2014 31/12/2016	1-Foresight studies & techniques (70%) 7-Scientific, technical & policy consultancy (30%)		610 - ELSCAD ELSA Laboratories: Reaction Wall and HOPLAB facilities 615 - PNR-Eurocodes Pre-Normative Research in support of 2nd generation of the Eurocodes 1072 - AA-Eurocodes Support to the implementation, harmonization and further development of the Eurocodes	INS-RS	2	Roadmap for enhanced safety & sustainability	Roadmap for technology options for the improvement of earthquake resistance as well as eco-efficiency of existing buildings in Europe, taking into account recommendations of a European expert group to be set up by the JRC and the views from other relevant stakeholders.	15/12/2015	JRC Technical reports	
														3	Addressing all requirements of the CPR	Assessing progress, gaps and missing guidance material in the European Standardization aiming at an integrated and unified approach addressing safety, health and efficiency (energy efficiency and environmental sustainability) according to the Basic Requirements for the Construction Works (BRCW) of the Construction Products Regulation (CPR). Work to be carried out in cooperation with the relevant Technical Committees of CEN (TC250- Eurocodes, TC350-Sustainability of Construction Works)	15/12/2016	Scientific and policy reports	
1072 - AA-Eurocodes Support to the implementation, harmonization and further development of the Eurocodes	Achieve full implementation of the Eurocodes: (i) IT support for the implementation and monitoring; (ii) Fostering the dissemination and training; and (iii) Facilitating the practical implementation and use. Further harmonization, evolution and promotion of the Eurocodes: (i) Support further harmonization and evolution; (ii) Promotion outside EU; and (iii) Foster and coordinate promotion outside the EU.	JRC.G.4 Silvia DIMOVA	4.1.e	GROW	GROW	Marzena ROGALSKA	CLIMA ENV RTD	CEN - European Committee for Standardization	01/01/2012 31/12/2015	7-Scientific, technical & policy consultancy (100%)			813 - SAFESUST Impact of sustainability and energy efficiency requirements on building design and retrofit	COM-AA	1	Maintenance and development of NDPs Database ...	The deliverable presents a report on the administrative and IT tasks executed for the maintenance and development of NDPs Database, Eurocodes website and Centralized Eurocodes Helpdesk, on the usage of the website and the Helpdesk, and on the state of registration of users and state of the upload of NDPs.	31/01/2015	JRC Technical reports
															2	promotion, training and collection of guidance	The report encompasses the activities on organization and technical support to a European training event on Eurocodes with worked examples, the preparation, editing and publication of workshop reports with worked examples, the collection, classification and publication of guidance material on Eurocodes, and facilitating of regional training activities and development of national materials.	31/01/2015	JRC Technical reports
															3	facilitation of practical implementation	The deliverable reports the activities on collection of feedback on practical experience of using the Eurocodes, preparation of European workshop on achievements and opportunities in practical use of the Eurocodes, and publication of relevant material on the Eurocodes website.	31/01/2015	JRC Technical reports
															4	Eurocodes mandate to CEN activities.	The report addresses the JRC activities: in support to the work of CEN/TC250 on mandate M515/EN of DG ENTR for evolution of the Eurocodes; in facilitating the implementation of recent results of European research projects, and in fostering interdisciplinary collaborations in the development of the "second generation" of the Eurocodes.	31/01/2015	JRC Technical reports
															5	statistical analysis of the uploaded NDPs	The deliverable presents analysis of the potential for harmonization of current implementation of the Eurocodes by the EU MS, and for reduction of the NDPs in the "second generation" of the Eurocodes, based on statistical processing of the uploaded data in the NDPs Database. To accomplish this task the respective statistical tools, queries and reporting tools are developed.	31/01/2015	JRC Technical reports
															6	adoption and implementation of the Eurocodes	The deliverable presents the JRC activities on coordination of the promotion of the Eurocodes in third countries, the support to the EU-Russian Regulatory Dialogue, the contribution to Thematic Group 5 of "Construction 2020" on global competitiveness of the EU construction sector, organization and facilitation of promotion events, and preparation of general promotion materials on the European construction sector in cooperation with other DGs.	31/01/2015	JRC Technical reports
1470 - NANODEFINE Development of methods and standards supporting the implementation of the Commission	FP7 project NMP.2013.1.4-3 The project will validate methods for validation for implementation of the EC definition of "nanomaterial". Methods for substances will be developed, validated and submitted as work item proposal to standardisation bodies. Methods for nanomaterials in complex matrices will be developed and validated.	JRC.D.2 Andrea HELD	4.1.e	GROW	RTD	Otto Linher (ENTR F.2), Nicholas SEGEBARTH (RTD D.3)	ENV RTD SANTE		01/01/2014 31/12/2017	6-Reference materials and measurements (100%)	JRC.I.4	159 - NanoChop Chemical and optical characterisation of nanomaterials in biological systems 212 - NANOREG A common European Approach to the Regulatory Testing of Nanomaterials	COM-IA	3	Recommendations for revision of Nanodefiniion	This report provides recommendations for a revision of the EC Definition of nanomaterial based on experiences gained in analytical work within the project.	30/11/2015	JRC Technical reports	
4	Draft NanoDefiner decision support flow scheme rep	This Report describes the draft NanoDefiner decision support flow scheme for the NanoDefiner e-Tool.	30/11/2016	JRC Technical reports															
1907 - ERNCIP-CBRNE ERNCIP SUPPORT TO MANDATE M/487	ERNCIP provides support to the security industry policy and action plan of DG ENTR. The action is foreseen with dedicated budget in HORIZON 2020 work program as other actions. ERNCIP thematic groups on CBRNE will deliver pre-norms, technical specifications and workshop agreements to CEN/CENELE, as recommended in the M487 report.	JRC.G.5 PETER GATTINESI	4.1.e	GROW	GROW	Bruno Chenard	HOME		01/01/2015 31/12/2015	4-Methods and testing (100%)		866 - ERNCIP Security testing, standardisation and facilities inventory	COM-AA	1	CBRNE detection good practices	This report will summarise the good practice as developed and agreed by the ERNCIP Thematic Areas on CBRNE matters.	30/11/2015	JRC Technical reports	
4.1.f Harmonised requirements, measurement systems, documentary standards and reference materials, scientific advice and logistics for the management of the future regulatory framework on medical devices, including in vitro diagnostics;																			
158 - INFECT-MET Metrology for monitoring infectious diseases, antimicrobial resistance, and harmful micro-organisms	Leading a work package of the EMRP project INFECT-MET on the establishment of metrology based reference systems in clinical pathogens testing in support of Directive 98/79/EC on in-vitro diagnostic medical devices	JRC.D.2 Stefanie TRAPMANN	4.1.f	GROW	n/a	S. Lecrenier (B2)	SANTE	- EURAMET EV EUROPEAN ASSOCIATION OF N	01/06/2012 31/05/2015	4-Methods and testing (80%) 9-Education & training (20%)		627 - MO STD Standardisation of microbiological measurements for food safety and health diagnostics	COM-IA	2	Annual project report 2	Contribution to the annual project report summarising the work carried out by IRMM and the project partners: dated January 2015	28/02/2015	JRC Technical reports	
621 - red DNA CRMs Standardisation of DNA measurements related to health diagnostics and user guidance for measurement	Development of DNA based CRMs for health diagnostics as laid down in Directive 98/79/EC. This project includes pre-normative research aspects aiming at the standardisation of measurements in the red biotechnology and international standardisation contributions. Training related to clinical diagnostics and the proper use of reference materials is provided.	JRC.D.2 Stefanie TRAPMANN	4.1.f	GROW	n/a	S. Lecrenier (B2)	SANTE	IFCC - International Federation of Clinical Chemistry and Laboratory Medicine ISO - International Organization for Standardization (ISO) ISO REMCO - ISO Committee on Reference Material	01/01/2014 31/12/2016	6-Reference materials and measurements (90%) 9-Education & training (10%)		429 - green DNA STDs Standardisation of DNA identification and quantification measurements for the green biotechnology 625 - IVD STD Standardisation of the quantification of blood proteins and enzyme activity	INS-RS	3	ISO TR79 published	Within ISO, the horizontal Committee for reference materials (ISO/REMCO) and its WG13, develops a technical report on the state of the art of the production of reference materials certified for nominal properties.	30/11/2015	JRC Technical reports	
														4	Training on measurement uncertainty	This training course provides participants with the theoretical basis for the estimation of measurement uncertainty and establishment of traceability.	31/12/2015	Training	
														6	Technical report on nominal property CRMs	Technical report on nominal property CRMs	31/12/2016	JRC Technical reports	

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
623 - new IVD STD Pre-normative research for new health markers	Pre-normative research contributions for the development of new reference systems for health care and diagnostics linked to Directive 98/79/EC. The work is currently focussing on the development of commutable reference materials for autoimmune and Alzheimer's disease diagnostics.	JRC.D.2 Stefanie TRAPMANN	4.1.f	GROW	n/a	S. Lecrenier (B2)	SANTE	IFCC - International Federation of Clinical Chemistry and Laboratory Medicine JCTLM - Joint Committee for Traceability in Laboratory Medicine (JCTLM)	01/01/2014 31/12/2016	4-Methods and testing (40%) 6-Reference materials and measurements (60%)		624 - ENACT CRMS Certified reference materials and user guidance for measuring the health status via enzyme activity 625 - IVD STD Standardisation of the quantification of blood proteins and enzyme activity	INS-RS	2	Autoimmune CRM released	CRM for the standardisation of autoimmune disease detection developed and released	31/12/2016	Reference materials
														3	Scientific publication	New approaches for the certification of reference materials of clinical relevance	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
625 - IVD STD Standardisation of the quantification of blood proteins and enzyme activity for healthcare diagnosis	Development of certified reference materials for the monitoring of the health status of patients in support of Directive 98/79/EC. This includes the sustainable provision of protein CRMs certified for their protein content or enzyme activity to analytical laboratories world-wide. This project provides support to European Directorate for the Quality of Medicines (EDQM) concerning the certification of reference materials and IVD policy support to DG SANCO.	JRC.D.2 Stefanie TRAPMANN	4.1.f	GROW	n/a	S. Lecrenier (B2)	SANTE	IFCC - International Federation of Clinical Chemistry and Laboratory Medicine EDQM - European Directorate for the Quality of Medicines and HealthCare (EDQM, Council of Europe) JCTLM - Joint Committee for Traceability in Laboratory Medicine (JCTLM)	01/01/2014 31/12/2016	6-Reference materials and measurements (30%) 7-Scientific, technical & policy consultancy (40%) 9-Education & training (30%)		623 - new IVD STD Pre-normative research for new health markers 627 - MO STD Standardisation of microbiological measurements for food safety and health diagnostics	INS-RS	2	Scientific publication	Certification of clinical reference materials used for the standardisation of health status marker measurements	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Scientific publication	to be decided	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
627 - MO STD Standardisation of microbiological measurements for food safety and health diagnostics	Development of reference systems including certified reference materials and quality control materials for quantitative and qualitative methods applied in microbiology. This project supports Regulation (EC) No 2073/2005 on microbiological criteria for foodstuffs and the detection of toxins. Additionally, this project supports Directive 2003/99/EEC on the monitoring of zoonosis and zoonotic agents and the development of reference materials for somatic cell counts (SCCs), a hygiene parameter for	JRC.D.2 Stefanie TRAPMANN	4.1.f	GROW	n/a	S. Lecrenier (B2)	SANTE	ISO - International Organization for Standardization (ISO)	01/01/2014 31/12/2016	6-Reference materials and measurements (100%)		158 - INFECT-MET Metrology for monitoring infectious diseases, antimicrobial resistance, and harmful micro-organisms	INS-RS	2	scientific publication	concerning the set-up of reference systems for human pathogens	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Scientific publication	scientific publication: to be decided	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
2001 - AIRN-MD II Post Market Safety - Medical Devices (MDs) and In Vitro Diagnostic Medical Devices (IVDs)	JRC is formally committed (Ares(2012)1135419) to the management of the future Regulations on MDs & IVDs, which are expected to be adopted in 2015. During 2013-2014 IHCP has provided DG SANCO scientific and technical support under an administrative arrangement (JPB project 846). This will be continued during 2015 until adoption of the Regulations after which support will be gradually intensified until 2018 under future AAs with DG SANCO.	JRC.I.2 Bo LARSEN	4.1.f	GROW	GROW	Sabine LECRENIER Sabine.Lecrenier@ec.europa.eu	SANTE		01/01/2015 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Activity Report JRC Medical Device Taskforce 2015	Activity Report on the JRC-IHCP Medical Devices Taskforce's active participation in the expert committees organised by DG SANCO with the competent authorities for medical devices and in vitro diagnostics in the EC member states and with industry, health professionals and other stakeholders: Medical Devices Expert Group (MDEG) 2 closed and 2 open meetings (2x2); MDEG-Vigilance 3x2, one meeting of the MDEG-Eudamed 2x2 meetings, MDEG-COEN 4 meetings, MDEG-CIE 2 meetings, IMDRF 2 meetings.	31/12/2015	JRC Technical reports
4.1.g Integrated testing strategies and state-of-the-art tools for toxicological hazard assessment, including development, validation plus the promotion of alternatives to animal testing and the regulatory acceptance of these alternatives;																		
46 - COSMOS COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity of cosmetics	JRC contribution to the FP7 COSMOS project aimed at developing computational methods and software tools to predict effects of long-term exposure to chemicals, including PBK/TK models, QSAR models, and mechanistically-based grouping to support read-across, and development of the Threshold of Toxicological Concern (TTC) approach. The main JRC contribution is focused on the development of multiscale (PBK/TK) models.	JRC.I.5 Andrew WORTH	4.1.g	GROW	RTD	LECRENIER Sabine Sabine.Lecrenier@ec.europa.eu	ENV		01/01/2011 31/12/2015	4-Methods and testing (100%)		47 - DETECTIVE DETECTIVE - Detection of endpoints and biomarkers of repeated dose toxicity using in vitro systems 48 - SCR&TOX SCR&TOX - Stem Cells for Relevant efficient extended and normalised Toxicology 49 - COACH COACH - Coordination of projects and new approaches	COM-IA	2	Multiscale modelling of chemical toxicity	Report on the application of a multiscale modelling approach to the toxic effects of cosmetic ingredients (COSMOS deliverable 4.10)	30/06/2015	Scientific and policy reports
47 - DETECTIVE DETECTIVE - Detection of endpoints and biomarkers of repeated dose toxicity using in vitro systems	JRC contribution to the FP7 Detective project aimed at defining candidate biomarkers that are predictive for toxicological effects triggered by well-known chronic toxicants. Focus on the high-throughput imaging techniques allowing a better prediction of mechanisms leading to hepatotoxicity, cardiotoxicity and neurotoxicity.	JRC.I.5 Maria Del Pilar PRIETO PERAITA	4.1.g	GROW	RTD	LECRENIER Sabine Sabine.Lecrenier@ec.europa.eu	ENV SANTE		01/01/2011 31/12/2015	4-Methods and testing (100%)		46 - COSMOS COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity of cosmetics 48 - SCR&TOX SCR&TOX - Stem Cells for Relevant efficient extended and normalised Toxicology 49 - COACH COACH - Coordination of projects and new approaches to replace current repeated dose systemic tox 168 - COLIPA COLIPA - Supplementing and exploiting SEURAT-1 activities on repeated dose toxicity prediction 178 - NANOMILE Engineered nanomaterial mechanisms of interactions with living systems 808 - AOP Adverse Outcome Pathways 809 - IATA-SkinSens Integrated testing strategies to predict skin sensitisation potential of chemicals 810 - Carcino&Genetox Genotoxicity and carcinogenicity of chemicals 811 - Substructure	COM-IA	n/a	n/a	n/a	n/a	n/a
48 - SCR&TOX SCR&TOX - Stem Cells for Relevant efficient extended and normalised Toxicology	JRC contribution to the FP7 SCR&Tox project aiming to develop stem cell based models suitable for assessing toxicological effects. Focus on proposing criteria for the development of toxicological pathway assays able to identify the mode of action of chemicals. Existing criteria for test development need to be adapted in order to support the test development in the project.	JRC.I.5 Anna PRICE	4.1.g	GROW	RTD	LECRENIER Sabine Sabine.Lecrenier@ec.europa.eu	ENV SANTE		01/01/2011 31/12/2015	4-Methods and testing (100%)		46 - COSMOS COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity of cosmetics 47 - DETECTIVE DETECTIVE - Detection of endpoints and biomarkers of repeated dose toxicity using in vitro systems	COM-IA	1	Profiling and characterisation of cells	Profiling and functional characterisation of cells with reference to the selected toxicity pathway (Deliverable D3.1 of the SCR&TOX project)	30/06/2015	Scientific and policy reports
														2	Assay development	Assay development of the selected toxicity test (Deliverable D3.2 of the SCR&TOX project)	31/12/2015	JRC Technical reports
														3	Validation of the selected toxicity method	Validation of the selected toxicity method (Deliverable D3.3 of the SCR&TOX project)	31/12/2015	Validated methods, reference methods and measurements
49 - COACH COACH - Coordination of projects and new approaches to replace current repeated dose systemic tox	Scientific coordination of the SEURAT-1 cluster working towards the replacement of in vivo repeated dose systemic toxicity testing.	JRC.I.5 Katarina BERGGREN	4.1.g	GROW	RTD	LECRENIER Sabine Sabine.Lecrenier@ec.europa.eu	ENV SANTE		01/01/2011 31/12/2016	4-Methods and testing (100%)		46 - COSMOS COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity	COM-IA	2	SEP Records 2015	Summary of all discussions of the Scientific Expert Panel (SEP) reviewing and advising on the scientific progress and outcome of the SEURAT-1 cluster in the year 2015	30/06/2015	JRC Technical reports
														3	SEP Records 2016	Summary of all discussions of the Scientific Expert Panel (SEP) reviewing and advising on the scientific progress and outcome of the SEURAT-1 cluster in the year 2016	31/12/2016	JRC Technical reports
168 - COLIPA COLIPA - Supplementing and exploiting SEURAT-1 activities on repeated dose toxicity prediction	The project will produce additional deliverables contributing to the SEURAT-1 activities with emphasis on the mode-of-action (MoA) approach to repeated dose toxicity prediction, and on translating results from SEURAT-1 into workable and accepted solutions for the regulatory safety assessment of cosmetics Note: COLIPA (European Cosmetics Association) is now	JRC.I.5 Andrew WORTH	4.1.g	GROW	RTD	LECRENIER Sabine Sabine.Lecrenier@ec.europa.eu	ENV SANTE	Cosmetics Europe - European Cosmetics Association - EUROPEAN COSMETIC TOILETRY AND PERF	01/11/2011 31/12/2015	4-Methods and testing (100%)		46 - COSMOS COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity of cosmetics 47 - DETECTIVE DETECTIVE - Detection of endpoints and biomarkers of repeated dose toxicity	COM-TW	1	Case studies on selected chemicals	Case studies on the safety assessment of selected chemicals based on the application of non-animal methods and knowledge of consumer exposure scenarios	30/06/2015	Scientific and policy reports
														6	Safety assessment case studies	Case studies on the safety assessment of selected chemicals based on the application of non-animal methods and knowledge of consumer exposure scenarios (Cosmetics Europe deliverable 1.4)	30/06/2015	Scientific and policy reports
														7	In vitro method protocols	Descriptions of selected assays for inclusion in DB-ALM (Cosmetics Europe deliverable 3.4, in the contract called "INVITOX-type descriptions of selected assays for inclusion in DB-ALM")	30/06/2015	JRC Technical reports
810 - Carcino&Genetox Genotoxicity and carcinogenicity of chemicals	This project aims at: 1) improving the predictive capacity of current genotoxicity and carcinogenicity testing approaches, and 2) reducing reliance on animal testing in genotoxicity and carcinogenicity assessment. This will include the analysis of in vitro, in silico, in vivo methods and cross-endpoint relationships.	JRC.I.5 Andrew WORTH	4.1.g	GROW	n/a	LECRENIER Sabine Sabine.Lecrenier@ec.europa.eu	ENV SANTE	ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2014 31/12/2016	4-Methods and testing (100%)		46 - COSMOS COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity of cosmetics 47 - DETECTIVE DETECTIVE - Detection of endpoints and biomarkers of	INS-UR	2	Consolidated database on genotoxicity	Establishment of a database of in vitro and in vivo genotoxicity and carcinogenicity data to support further analyses to challenge and improve the current testing strategy	30/06/2015	Scientific information systems and databases
														4	Reference standards for genotoxicity methods	Establish a recommended list of genotoxic and non-genotoxic chemicals for assessment of performance of new or improved genotoxicity tests and approaches	31/10/2015	Scientific and policy reports
														5	In silico models of genotoxicity	Evaluation of the utility of computational models for genotoxicity	30/11/2016	JRC Technical reports
														6	Reducing animal testing for carcinogenicity	Recommendations on reduction and waiving opportunities for carcinogenicity: learning from the pharmaceutical and plant protection sectors	31/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																																
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category														
811 - SystemicTox Systemic toxicity and toxicokinetics	To develop and evaluate integrated approaches based on non-animal methods for the assessment of systemic toxicities, including the use of information on the metabolism and physiological fate of chemicals and cross-endpoint and cross-species relationships.	JRC.I.5 Andrew WORTH	4.1.g	GROW	n/a	LECRENIER Sabine Sabine.Lecrenier@ec.europa.eu	ENV SANTE	ECHA - European Chemicals Agency (ECHA)	01/01/2014 31/12/2018	4-Methods and testing (100%)		46 - COSMOS COSMOS - Integrated in silico models for the prediction of human repeated dose toxicity of cosmetics 47 - DETECTIVE DETECTIVE - Detection of endpoints and biomarkers of repeated dose toxicity using in vitro systems 48 - SCR&TOX SCR&TOX - Stem Cells for Relevant efficient extended and normalised Toxicology 49 - COACH COACH - Coordination of projects and new approaches to replace current repeated dose systemic tox 168 - COLIPA	INS-UR	1	ECVAM strategy for acute systemic toxicity	EURL ECVAM strategic plan outlining initiatives to reduce the use of animals in acute systemic toxicity testing	30/11/2015	Scientific and policy reports														
														3	ECVAM strategy for toxicokinetics	EURL ECVAM strategic plan to promote the 3Rs in the regulatory testing of chemicals through toxicokinetics	30/01/2015	Scientific and policy reports														
														4	ECVAM strategy for fish toxicity & bioaccumulation	EURL ECVAM Strategic plan to avoid, reduce and refine the use of fish in aquatic toxicity and bioaccumulation testing	31/01/2015	Scientific and policy reports														
														5	AOPs for neurotoxicity	Develop Adverse Outcome Pathways (AOPs) on selected modes of action for neurotoxicity, to be provided to OECD. This includes the development of case studies and implementation of assays to further elucidate the pathways.	30/06/2015	Scientific and policy reports														
														6	Non-animal methods for acute oral toxicity	Recommendations on the use of non-animal methods in the classification of acute oral toxicity for the purposes of REACH and CLP	31/10/2015	JRC contributions to policy documents														
														7	Non-animal methods for assessing systemic toxicity	Analysis of outputs from SEURAT-1 and other research projects to develop recommendations and guidance on the use of non-animal methods to support the hazard identification and risk assessment of systemic toxicity effects. This includes the use of in vitro and in silico methods for extrapolating systemic toxicity data between different exposure scenarios	31/07/2016	Scientific and policy reports														
														8	AOPs for liver fibrosis	Developed Adverse Outcome Pathways (AOPs) on selected modes of action for liver toxicity, provided to OECD. This includes the development of case studies and implementation of assays to further elucidate the pathways.	31/10/2016	Scientific and policy reports														
														9	AOPs for nanoparticle-induced liver toxicity	Developed AOPs on selected modes of action related to activation of molecular events by nanoparticles leading to liver toxicity, to be provided to OECD	30/12/2016	Scientific and policy reports														
														4.1.h Development of a worldwide test procedure for light-duty and heavy-duty vehicles and L-cat vehicles and assessment of innovative technologies; assessment of ultrafine particles from engine, tyre and brake wear; preparation and implementation of the emissions legislation for non-road mobile machinery including inland waterway transport; cooperation with the US Department of Energy / Argonne National Laboratories, also contributing to the Transatlantic Economic Council;																		
659 - Vehicle Emissions Support to European vehicle/engine emissions legislation	Provide support to DG-ENTR for the development of legislation on emissions from heavy and light duty vehicles, including non-road mobile machinery. Assistance on specific open issues concerning future emission legislation is requested. Major objectives: - produce analyses and studies on emission data generated in ad-hoc experimental campaigns - technical contribution to the proposals for emission legislation	JRC.F.8 Giorgio MARTINI	4.1.h	GROW	n/a	Maciej SZYMANSKI (ENTR B4); Nikolaus STEININGER (ENTR B4); Susana LINDVALL (CLIMA C2); Jan CORTVRIEND (ENV C3)	CLIMA ENV	UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE	01/01/2014 31/12/2016	3-Instrumentation & hardware (15%) 4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (35%)		1713 - NRMM PRESENT & FUTUR NRMM LEGISLATION SUPPORT AND ENERGY EFFICIENCY 662 - CO2 emissions CO2 emissions from light and heavy duty transport 230 - CORE CO2 Reduction for long distance transport	INS-RS	2	Progress report on RDE procedure for PN	Progress report on the development of an on-road real driving emissions (RDE) measurement procedure for particle number emissions from passenger cars	31/12/2015	Scientific and policy reports														
														3	Measurement of sub-23 nm particles	Progress report on the development of a robust test procedure for particles with a diameter below 23 nm	31/12/2015	Scientific and policy reports														
														4	Support to the implementation of WLTP in Europe	Progress report on the implementation of the Worldwide Harmonized Test procedure for Light-duty Vehicles (WLTP) in the European emission legislation	31/12/2015	JRC contributions to policy documents														
														5	Progress report - particles from tyres and brakes	Report on the development of tests and procedures to measure particle emissions from tyre and brake wear.	31/12/2015	JRC contributions to policy documents														
														7	Progress report - real world PN emissions	Report on the development of a test procedure to measure real world particle emissions from passenger cars	31/12/2015	JRC contributions to policy documents														
														8	Progress report - emission legislation	Progress report on the development, implementation and monitoring of the emission legislation for light duty and heavy duty vehicles (Euro 6 and VI and beyond)	31/12/2016	JRC contributions to policy documents														
														9	Particle emissions from NRMM	Report on typical levels and variability of particle emissions from Non-Road Mobile Machinery measured over different test cycles	30/06/2015	Scientific and policy reports														
														661 - UNECE -GRPE International Harmonisation and Standardisation at UNECE for vehicles/engines	Support to global harmonization processes of emission legislation on light and heavy duty vehicles (including electric ones) & off-road engines under the UNECE-GRPE by means of experimental ad-hoc campaigns and participation to expert groups. Contribute to the development of a Worldwide Harmonized Test procedure for vehicles (WLTP). Co-chairing sub-group on additional pollutants (WLTP-DTP-AP). Chair UNECE Particle Measurement Programme to investigate ultrafine particle emissions from vehicles.	JRC.F.8 Giorgio MARTINI	4.1.h	GROW	n/a	STEININGER Nikolaus (ENTR) <Nikolaus.Steinger@ec.europa.eu>; SZYMANSKI Maciej (ENTR)	CLIMA MOVE	UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE	01/01/2014 31/12/2016	3-Instrumentation & hardware (15%) 4-Methods and testing (60%) 7-Scientific, technical & policy consultancy (25%)		659 - Vehicle Emissions Support to European vehicle/engine emissions legislation	INS-RS	1	Progress report to GRPE on PMP	Progress Report to the Working Party on Pollution and Energy (GRPE) outlining the state of the projects related to the UNECE Particle Measurement Programme (PMP)	20/06/2015	JRC contributions to policy documents
																												2	Progress report to GRPE on PMP	Progress Report to the Working Party on Pollution and Energy (GRPE) outlining the state of the projects related to the UNECE Particle Measurement Programme (PMP)	18/01/2016	JRC contributions to policy documents
3	Contribution to WLTP-Phase 2	Emission data and desktop studies on new test procedures being developed in the context of Phase 2 of the Worldwide Harmonize Light-duty test Procedures (WLTP)	20/06/2015	JRC contributions to policy documents																												
4	Contribution to WLTP-Phase 2	Emission data and desktop studies on new test procedures being developed in the context of Phase 2 of the Worldwide Harmonize Light-duty test Procedures (WLTP)	18/01/2016	JRC contributions to policy documents																												
5	Progress report to GRPE on PMP	Progress Report to the Working Party on Pollution and Energy (GRPE) outlining the state of the projects related to the UNECE Particle Measurement Programme (PMP)	12/06/2016	JRC contributions to policy documents																												
6	Contribution to WLTP-Phase 2	Emission data and desktop studies on new test procedures being developed in the context of Phase 2 of the Worldwide Harmonize Light-duty test Procedures (WLTP)	12/06/2016	JRC contributions to policy documents																												
7	Progress Report sub-group Additional Pollutants	Progress report on the developments in the sub-group on Additional Pollutants in the Working Party on Pollution and Energy (GRPE) and sub-group on the Development of the Test Procedure (DTP) meetings.	30/12/2015	Validated methods, reference methods and measurements																												
8	Progress report on EVE informal group	Progress report on the activities carried out within the EVE informal group addressing the environment related aspects of electric vehicles.	20/06/2015	JRC contributions to policy documents																												
9	Contribution to WLTP-Phase 1b	Legislative text being developed in the context of Phase 1b of the Worldwide Harmonize Light-duty test Procedures (WLTP)	15/06/2015	JRC contributions to policy documents																												
1713 - NRMM PRESENT & FUTUR NRMM LEGISLATION SUPPORT AND ENERGY EFFICIENCY	To provide scientific expertise and background on the aspects specified in the technical annex to the Administrative Arrangement for the review of Directive 97/68/EC on non-road mobile machinery (NRMM). Major objectives: 1. Assess the effectiveness and impacts of existing NRMM legislation 2. Prepare the field for future legislative work 3. Support on legislative work currently under preparation 4. Identify and assess measures and specific initiatives in the areas of Energy Efficiencies of NRMM	JRC.F.8 Giorgio MARTINI	4.1.h	GROW	GROW	Philipp Troppmann (ENTR B4)	MOVE		14/03/2014 13/03/2016	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Final report on the Administrative Arrangement	Final report summarizing all the activities carried out in the context of the AA	17/03/2016	JRC contributions to policy documents														
														2	Assessment effectiveness&impacts NRMM legislation	This report will address the environmental impact of flexibility mechanism and sell-off provisions in the current NRMM legislation.	31/12/2015	JRC contributions to policy documents														
														3	Assessment impact consumer information on NRMM	Information will be gathered on the fuel consumption of NRMM and an assessment will be performed of the possible impact of providing consumer information on the energy consumption of NRMM as a tool to address the energy reduction in the NRMM sector.	31/12/2015	JRC contributions to policy documents														
2269 - Euro5 L-Cat Vehicles Pre-study for the assessment of Euro 5 for L-Cat Vehicles	Article 23(4) and 23(5) of Regulation (EU) No 168/2013 require the Commission to carry out a study on the effect of the Euro 5 environmental step for L-Category vehicles. ACEM (L-category vehicle manufacturer association in Europe) identified and recommended deliverables in a report which was presented in MCWG meetings in 2013. JRC is requested to scrutinise this final report and to provide recommendations to efficiently and effectively conduct the phases 2 and 3 of the above mentioned study.	JRC.F.8 Giorgio MARTINI	4.1.h	GROW	GROW	Guido Gielen (ENTR)	CLIMA ENV		01/01/2015 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)			COM-AA	1	Final report on task 1	Final report on: a) identification of a commonly applicable engine load variable allowing to map and compare the engine operation ranges at maximum torque and the engine speed-load range obtained in the respective test cycles in the emission test laboratory. b) identification, verification and validation of appropriate engine load variable through experimental programme	30/06/2015	Scientific and policy reports														
														2	Final report on task 2	Stocktaking and data mining, public consultation, literature study, detailed planning of phases 2 and 3 and associated cost estimates as well as a detailed timing	30/06/2015	Scientific and policy reports														
														3	Final report on phase 2 and 3	Final report on environmental effect of Regulation (EU) No 168/2013 following Phase 2 (modelling, verification testing and analysis, impact assessment) and Phase 3 (validation and reporting)	15/12/2016	Scientific and policy reports														
2846 - AA Vehicle Emissions S&T Support to the Preparation and Implementation of the LDV and HDV legislation	Provide technical and scientific support to DG ENTR B4 for the development of emissions legislation as defined in the technical annex to the Administrative Arrangement. The aim is to provide support to the Commission in implementing the Euro 6 emission legislation in a better way.	JRC.F.8 Giorgio MARTINI	4.1.h	GROW	GROW	Maciej Szymanski (DG ENTR B4)			01/01/2015 31/12/2016	3-Instrumentation & hardware (15%) 4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (35%)			COM-AA	1	Report RDE inter-laboratory comparison exercise	Report on the validation of the inter-laboratory comparison exercise with the aim of assessing the reproducibility of PN measurements performed with PEMS in different European laboratories, and their long term stability	31/07/2015	JRC contributions to policy documents														
														2	Final Report	Final report describing all the work carried out in the context of the Administrative Arrangement.	18/12/2016	JRC contributions to policy documents														
4.1.i Analysis of the contribution of manufacturing industries and the associated service sectors to the EU economy as well as of their role in global value chains, including identification of emerging techniques to strengthen the competitiveness and sustainability of EU heavy industries and policy fitness checks of specific industrial sectors;																																
791 - TIMESUT 3 Supply, use and input-output tables for the 2010 European System of National Accounts (ESA 2010)	Continuation of JRC support to Eurostat in the compilation of supply, use and input-output tables in accordance with the new 2010 version of the European System of Accounts. Support to Eurostat for the establishment of a statistical reference framework on competitiveness and a set of coherent competitiveness indicators. Support to Eurostat in the area of multifactor productivity.	JRC.J.5 Peter EDER	4.1.i	GROW	ESTAT	Isabelle REMOND-TIEDREZ (Estat.C.2)	ESTAT TRADE		06/01/2014 05/01/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	1	Enhanced table consolidation methodology	The enhanced methodology for the consolidation of the European supply, use and input-output tables will improve the accuracy of splitting between intra-EU and extra-EU imports and exports.	30/06/2015	Scientific information systems and databases														
														2	European Competitiveness Report	Contribution to European Competitiveness Report	30/07/2016	JRC contributions to policy documents														
														3	EU and Euro Area consolidated tables	EU and Euro Area consolidated tables, including at previous year prices	31/12/2016	Scientific information systems and databases														

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2049 - ManuBase2 Manubase 2 Fitness Check	Analysis of the contribution of manufacturing industries and the associated service sectors to the EU's economy as well as of their role in global value chains. Quantitative analysis and modeling of the joint effects of different pieces of legislation and other factors on the business environment and competitiveness of industrial sectors. Follow-up project of Manubase #883	JRC.J.5 Peter EDER	4.1.i	GROW	GROW	Francisco Caballero (DG ENTR.A.4)	RTD		01/04/2015 31/03/2018	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		863 - MANUBASE Competitive and sustainable manufacturing industries	COM-AA	1	Annual Report 2015 / 2016	Analysis of the contribution of manufacturing industries and the associated service sectors to the EU's economy as well as of their role in global value chains. Quantitative analysis and modeling of the joint effects of different pieces of legislation and other factors on the business environment and competitiveness of industrial sectors. Follow-up project of Manubase #883	31/07/2016	JRC Technical reports
														2	Annual Report 2016 / 2017	Analysis of the contribution of manufacturing industries and the associated service sectors to the EU's economy as well as of their role in global value chains. Quantitative analysis and modeling of the joint effects of different pieces of legislation and other factors on the business environment and competitiveness of industrial sectors. Follow-up project of Manubase #883	31/07/2017	JRC Technical reports
														3	Final Report	Analysis of the contribution of manufacturing industries and the associated service sectors to the EU's economy as well as of their role in global value chains. Quantitative analysis and modeling of the joint effects of different pieces of legislation and other factors on the business environment and competitiveness of industrial sectors. Follow-up project of Manubase #883	31/01/2018	JRC Technical reports
2680 - FUTURE-INDUSTRY Analysis of future direction and policy needs of European industry	The project will provide a technology assessment analysis on the emerging, enabling and key technologies that can have implications on the future of industry and a foresight analysis identifying possible future scenarios to assess the evolution of industry in the future. The outcomes will contribute and support policy DGs in detailing out a strategic plan and policy actions for industrial policy, and for other relevant and associated policies.	JRC.DDG.02 Fabiana SCAPOLO	4.1.i	GROW	n/a	GARCIA PORRAS Bonifacio (ENTR.B.3)	CNECT FISMA RTD		15/01/2015 31/12/2015	1-Foresight studies & techniques (100%)			INS-RS	1	Technology assessment report	The report will provide a technology assessment analysis on the emerging, enabling and key technologies that can have implications on the future of industry.	31/12/2015	Scientific and policy reports
														2	Scenarios and roadmaps on the future of industry	The report would provide different scenarios that can be used to refine the vision for manufacturing industry in Europe and support policy DGs in detailing a strategic plan with different policy actions	31/12/2015	Scientific and policy reports
4.1. Empirical evidence and analysis on the dynamics and growth of industrial sectors and innovative companies, including Digital Entrepreneurship, SMEs and industrial R&D scoreboard companies, also in the framework of the Small Business Act performance review;																		
1005 - AMTEC Advanced Manufacturing Technologies for competitiveness	Analysis for major EU and non-EU companies of the development and market penetration of advanced manufacturing and clean production technologies (one of the industrial policy priorities), expected to show major economic and efficiency impacts. It will use company level data comprising economic and financial indicators, R&D investment and patents.	JRC.J.2 FERNANDO HERVAS SORIANO	4.1.j	GROW	n/a	Mr Bonifacio Garcia Porras (ENTR.B.3)	CNECT RTD		01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)		139 - IRIMA Industrial Research and Innovation Monitoring and Analysis	INS-UR	1	Final report	Report presenting the first results of the analysis of the role of innovation and technology on the competitiveness of key industries in terms of their potential to boost growth and jobs	31/12/2015	Scientific and policy reports
4.1.k Validation and dissemination of results from initiatives (e.g. Sustainable Industry Low Carbon (SILC)) supporting the EU's energy-intensive industries to achieve specific greenhouse gas emission intensity reductions and to maintain their competitiveness on global markets;																		
189 - SILC Crosscutting Valorisation of SILC	The aim of this project (Administrative Arrangement) is to provide support to DG ENTR for the valorisation and dissemination of the results of projects funded by the Sustainable Industry Low Carbon (SILC) initiative. SILC aims to help industrial sectors to achieve reductions in the intensity of greenhouse gas emissions while maintaining the European industrial competitiveness.	JRC.F.6 Evangelos TZIMAS	4.1.k	GROW	GROW	Mr. Aurelien GENTY	CLIMA ENER ENV RTD		03/09/2012 30/04/2016	7-Scientific, technical & policy consultancy (100%)		748 - EFIS Energy efficiency in industry and energy supply	COM-AA	1	Valorisation of SILC - 2015 Report	This report, envisaged in the SILC AA, will assess the quality of the deliverables of all funded projects, with regard to their technical and financial characteristics. The report will also assess the suitability of the obtained outcomes for the objectives of SILC and will put the results of each project in the perspective of the goals of SILC. It will also contain a chapter with the 'lessons learned' and will detail the corrective measures applied (if any) during the execution of the projects.	31/12/2015	Scientific and policy reports
														2	Dissemination of SILC in 2015	A report, envisaged in the SILC AA, on internal and external dissemination activities by the JRC in 2015 with regards to the results of the SILC scheme.	31/10/2015	Scientific and policy reports
														3	Final assessment report	Final report, envisaged in the SILC AA, on the overall evaluation of the results of the SILC scheme covering the period 2012 to 2016, which also includes a short note to policy makers.	30/04/2016	Scientific and policy reports
														4	Final report on dissemination	Final report, envisaged in the SILC AA, on internal and external dissemination activities of the JRC with regards to the results of the SILC scheme covering the period 2012 to 2016. This deliverable will also include the outcome of a Conference / Workshop organised by the JRC in 2016. The aim of the workshop is the dissemination of the findings from the projects funded by SILC, between the Commission the SILC project participants and external stakeholders.	30/04/2016	Scientific and policy reports
														5	Dissemination workshop	Report from a dissemination workshop where the outcome of SILC I scheme will be communicated to external to the Commission stakeholders and the SILC community.	30/04/2016	Scientific and policy reports
4.1.l Provide a platform for a regular and structured dialogue between public institutions, private companies, the scientific community, European associations, industries and related networks via the European Forum for Science and Industry.																		
1085 - EFSI EUROPEAN FORUM FOR SCIENCE AND INDUSTRY	The European Forum for Science and Industry aims to strengthen the dialogue and cooperation between science and industry by bringing together on a regular and structured basis public institutions, private companies and adequate networks to discuss themes of key importance to European competitiveness. This objective is met by regular organisation of conferences, round table discussions and meetings on policy issues relevant to the European industry as well as issuing a biweekly newsletter.	JRC.A.5 VENA MITKOVA NIEVERGELT	4.1.l	GROW	n/a	n/a	CNECT ENER MOVE RTD SANTE		01/01/2014 31/12/2016				INS-RS	3	Conferences, round tables and bilateral high-le	Events and targeted bilateral meetings on topics addressing current issues for the European industry in the form of scientific level discussions on specific items	31/12/2015	Public information documents
														4	Biweekly newsletter	Disseminates information on JRC activities related to industry needs, updates on innovative examples from science and industry as well as the announcement of upcoming events from both JRC and partners	31/12/2015	Scientific and policy reports
														5	Conferences, round tables and bilateral high-le	Events and targeted bilateral meetings on topics addressing current issues for the European industry in the form of scientific level discussions on specific items	31/12/2016	Public information documents
														6	Biweekly newsletter	Disseminates information on JRC activities related to industry needs, updates on innovative examples from science and industry as well as the announcement of upcoming events from both JRC and partners	31/12/2016	Scientific and policy reports
4.2 Intellectual Property Rights																		
4.2.a Protect and enforce the European Union intellectual property rights.																		
203 - Fusion IPR Management of Fusion-related IPR	Management of the IP portfolio of the fusion-related technologies for DG RTD	JRC.DDG.03 WOUTER VERBURG	4.2.a	RTD	RTD	IBBOTT Christopher			25/07/2012 25/07/2016	2-Information systems & services (10%) 7-Scientific, technical & policy consultancy (90%)			COM-AA	20151	Yearly report on IP&TT actions for ITER	Yearly report on the activities performed under the AA	15/07/2015	JRC Technical reports
														20161	Yearly report on IP&TT actions for ITER	Yearly report on the activities performed under the AA	15/07/2016	JRC Technical reports
425 - CIPS - IPSup Central IP Service - IP Support	The main activities under this project are: detection and protection of IP assets (software, database, technical invention ...) of the EU institutions and enforcement of IP rights; advisory role to JRC and Commission on IP issues; IP portfolio management; legal and technical assistance in dealing with litigation and pre-litigation in IPRs files; advise, negotiations and drafting of licence agreements drafting and revision of IP contracts; managing the use of the European emblem.	JRC.DDG.03 WOUTER VERBURG	4.2.a	SG	n/a	VALILLA Ari	AGRI BEPA BUDG CDP-OSP CLIMA CNECT COLLEGE COMM COMP DEVCO	CoE - Council of Europe ECHA - European Chemicals Agency (ECHA) EP - European Parliament OHIM - Office for Harmonization in the Internal Market	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (85%) 9-Education & training (15%)			INS-RS	2	Yearly activity report	Activities and statistics on the activities of the Central IP Service are produced once a year and used to report to hierarchy and stakeholders.	31/12/2015	JRC Technical reports
														3	Yearly Activity Report	Activities and statistics on the activities of the Central IP Service are produced once a year and used to report to hierarchy and stakeholders.	31/12/2016	JRC Technical reports
573 - GIFC Goods Identification against Fraud and Counterfeiting	Authenticity, place of origin and integrity of goods are key elements for the trust of customers, for a deeper and fairer internal market, and for the establishment of a digital single market. The project will identify best available technologies and practices to identify and verify the authenticity of goods, to evaluate the trust of e-commerce web-sites, and to empower customers in the fight against digital fraud.	JRC.G.6 Gianmarco BALDINI	4.2.a	GROW	n/a	Mr Jean BERGÉVIN DG GROW - J2 Hou	CNECT FISMA TAXUD		01/01/2014 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		561 - TSI Trust, Security and Identity 559 - P2TIC Prevention and Prosecution techniques for Identity Cybercrime	INS-RS	2	Technologies to identify and authenticate goods	Research of technologies and tools, which can be used to identify and authenticate goods and to empower the individual in the fight against counterfeiting. This activity includes the assessment of counterfeiting technologies already available in the market or being developed by other stakeholders (e.g., research centers, industry). This activity also includes a survey on the assessment of trust of e-commerce web sites. The output of this activity will be a technical report.	30/06/2015	JRC Technical reports
														3	Citizen empowerment against fraud	Methods and technologies with a special focus on signal processing algorithms or other techniques, which can be implemented on smartphones for the collection and retrieval of track and trace information from the goods through electronic devices (e.g., RFID). The set-up of collaboration with industry and research centers is instrumental for the success of this task. The output of this activity will be a technical report	15/12/2015	JRC Technical reports
														4	Demonstrators for the fight against fake products	Development and assessment of demonstrators for the fight against counterfeiting, which can be used to improve track and trace, goods analysis or assessment of the trust of e-commerce web sites. The output of this activity will be a technical report and one or more demonstrators	30/06/2016	JRC Technical reports
														5	support to policy and standards	contribution to the policy and standardization processes with DGs that are involved in the fight against counterfeiting. In addition the JRC will establish contact with law enforcement agencies which would be interested in technical advice and support in the fight against counterfeiting.	15/12/2016	JRC Technical reports
739 - CIPS - IPGov Central IP Service - IP Governance	The aim is to create the necessary infrastructure and tools for an efficient management of IP in the Commission 1. develop operational practices, fully implemented by 03/2014 2. create tools for IP training and to impart training, fully implemented by 03/2015 3. perform inventory of IP rights of the Commission, pilot finished by 03/2016 4. ensure adequate communication within the IPR network, fully implemented by 03/2015; 5. first review of actions taken, finished by 03/2015;	JRC.DDG.03 WOUTER VERBURG	4.2.a	SG	n/a	n/a	AGRI BEPA BUDG CDP-OSP CLIMA CNECT COLLEGE COMM COMP DEVCO DIGIT EAC		01/01/2014 31/12/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)			INS-RS	2	trainings	create tools for IP training and to impart training, fully implemented by 03/2015 This activity also includes the delivery of said training on IP and TT for all Commission staff.	31/03/2015	JRC Technical reports
														5	Trainings	Trainings on IP and TT for all Commission staff will be delivered.	31/10/2016	Training
1174 - Galileo IPR Management of Galileo-related IP issues and IPR portfolio	Support is given to DG ENTR in relation to Galileo activities, for the design of the IP strategy, for the management of the IP portfolio, and for technology transfer related issues	JRC.DDG.03 Cristina MECA CASTANY	4.2.a	GROW	GROW	n/a			01/10/2010 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	20151	IP support for the GNSS and GMES activities	Delivering IP support for the GNSS and GMES activities (legal and technology transfer); Reported to the clients at least once a year in an official report	31/12/2015	JRC Technical reports

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1709 - 33846 AA WITH DG AGRI	Protection of the PGI/PDO symbols	JRC.DDG.03 WOUTER VERBURG	4.2.a	AGRI	AGRI	Cyrille Laplacette			06/05/2015 06/05/2017	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	AA with DG AGRI	The purpose of this Administrative Arrangement is to provide IPR support services in relation to obtaining protection of symbols, indications and abbreviations identifying participation in a quality scheme.	06/05/2015	Scientific and policy reports
2043 - CIDM Copyright and Copyright Infringements in the Digital Media	Objective to -measure the extent of peer2peer digital music downloads on the internet -compare this with legal music downloads and estimate the extent of substitution between legal & illegal music consumption channels -explore drivers of online music downloads and the role that online music discovery tools (social networks, music related websites, etc.) play in driving the demand for both legal & illegal downloads -analyse how piracy might help in the search for talent and to gain popularity	JRC.J.3 Berlin MARTENS	4.2.a	GROW	GROW	Uwe Eittejorgen, Jean Bergevin	CNECT		01/07/2014 31/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	1	Kino movie shut-down	Report on the Kino movie shut-down project	28/02/2015	JRC Technical reports
														2	illegal music downloads	- A report with descriptive statistics on illegal music downloads in the EU - An analytical report on the interaction between legal and illegal music downloads	30/10/2016	JRC Technical reports
														3	Music discovery and consumption channels	An analytical report on the interaction between various music discovery and consumption channels	28/02/2017	JRC Technical reports
2268 - IPR-EP IPR Support to the European Parliament	to provide customer driven support to various directorates of the European Parliament in line with the support provided to the EC, in particular training, legal advice and awareness raising about the importance of sound IPR management within the EU institutions.	JRC.DDG.03 WOUTER VERBURG	4.2.a	SG	n/a	n/a		EP - European Parliament	01/09/2014 31/12/2018	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)			COM-AA	20151	Legal advice on IP, training	The work consists in delivering legal advice on IP matters of the Parliament. It also includes a series of trainings.	01/01/2015	Scientific and policy reports
														20161	Legal advice on IP, training	The work consists in delivering legal advice on IP matters of the Parliament. It also includes a series of trainings.	01/01/2016	Scientific and policy reports
5 A Deeper and Fairer Economic Monetary Union																		
5.1 Economic and Monetary Union																		
5.1.a Model and carry out socio-economic analysis of reinforced macroeconomic, budgetary, structural and financial surveillance in the EU. Develop analytical tools to enhance the quality and efficiency of the public sector by optimising public expenditure and designing regulation in a smarter way.																		
1131 - AA-NewModel Global macroeconomic model	1) implement and test the Multicountry Macroeconomic Model specifications as defined by DG ECFIN. 2) perform estimation exercise on selected regional disaggregations (Euro-area aggregate, US or individual Euro-area countries).	JRC.G.1 Jukka HEIKKONEN	5.1.a	ECFIN	ECFIN	Werner Roeger ECFIN A.1			01/01/2015 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Codes and documentation	Codes and documentation of the implementation of the model: (i) design a coding structure that is flexible to different degree of regional disaggregation as well as between estimation and simulation tasks; (ii) derive the steady state of the model and check the stability of the model behaviour. Perform selected simulation exercises	15/12/2015	JRC Technical reports
														2	Report on estimation	Report on estimation results on selected regions: set-up the estimation engine for the new multi-country model. Each country will have to be estimated individually, while all the estimated blocks will be joined together for policy simulation purposes. This deliverable will complement D.1 and will be performed partially in parallel to the testing on the calibrated setup. In particular, it will be necessary to ensure a proper flow between the data sources, the estimation and simulation steps	15/12/2015	Scientific and policy reports
2030 - TAXMOD-INST Modelling tax reforms (institutional follow-up #236)	Modelling tax reforms via microsimulation tool EUROMOD 2015 - assessment of tax reform for web-interface (i.e. ECFIN forecasting time frame) - Conclusions TaskForce (with ECFIN/TAXUD) on tax revenues modelling and fiscal forecasting. 2016 - Extending indirect taxation to EUROMOD for a limited number of countries - merging the ECB survey on households' finance and wealth to EUROMOD. - analysing wealth taxation and the debt bias of existing tax systems (e.g. mortgage interest tax deduction)	JRC.J.2 Salvador BARRIOS	5.1.a	ECFIN	n/a	Serena Fatiga, ECFIN.C.3	EMPL TAXUD		01/07/2014 31/12/2015	1-Foresight studies & techniques (100%)			INS-RS	1	Annual Report 2015	- providing assessment of tax reform for web-interface (i.e. to cover ECFIN forecasting time frame) - Conclusions Task Force (with ECFIN/TAXUD) on tax revenues forecasting/modelling and fiscal forecasting by the Commission.	30/01/2015	JRC Technical reports
														2	Annual Report 2016	- Extending indirect taxation to EUROMOD model for a limited number of countries - merging the recently released ECB survey on households' finance and wealth to EUROMOD. - analysing wealth taxation and the debt bias of existing tax systems (e.g. mortgage interest tax deduction) which has proved highly relevant in the financial crisis.	31/12/2016	JRC Technical reports
2055 - CrInGrIn Excessive Credit, Instability, Growth and Inequality	Literature reviews, econometric analysis, and economic and financial modelling to research financial depth frontiers, the social and economic impact of lack of risk-sharing in financing, and the relation between high indebtedness, financial and economic stability, growth dynamics and income and wealth distribution.	JRC.G.1 Sven LANGEDIJK	5.1.a	ECFIN	n/a	BERTI Katia (ECFIN.DDG1.C.2)	EMPL FISMA GROW TAXUD		01/01/2015 31/12/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	2824 - CapMaU Support the development of a Capital Markets Union		INS-UR	1	Financial depth frontiers	Report on macro-empirical analysis identifying private and public debt/GDP thresholds. Empirical evidence does not provide a positive and linear relationship between the development of the financial sector and growth. This report will present economic research on financial depth frontiers for EU countries.	16/12/2016	Scientific and policy reports
														2	Linking bank balance sheets to growth	Report on the balance sheet analysis 'Who gets the credit?' We will develop a study into the micro-structure of banks' households, firms and governments balance sheets since the 1990s and link different types of lending to short- and long-term growth, to sectoral developments, etc. Can SME loans, Consumer loans, Corporate loans, trading activities, CRE loans, etc be linked to more or less growth and employment?	16/12/2016	Scientific and policy reports
														3	SME credit drivers	Report on research on SME balance sheets and indebtedness and its drivers across EU Member States, linking balance sheets to data on creditor's rights and bankruptcy procedures across countries.	16/12/2016	Scientific and policy reports
														4	Macro-significance of balance sheet discrepancies	Report on the macro-economic significance of the discrepancy of bank balance sheet provisioning on SME and household loans and debt resolution and restructuring. The value of the debt as liability to the household or firm may be 100% while to the bank provisions for losses on these holdings, leading to lack of consumption and investment and slow growth at macro-level.	16/12/2016	Scientific and policy reports
														5	Literature review of linkages	Literature review of linkages between credit, growth and income and wealth inequality: the rise of credit and indebtedness affects the distribution of wealth and income. This motivates studying the relationship between three concepts: financial deepening, economic growth, and economic inequality, with a special focus on the direction of the relationship and causality issues.	16/12/2015	Scientific and policy reports
														6	Report on public finance costs of systemic crisis	Report with simulation results on the impact of banking losses on public finances under different institutional scenarios, of the type in the Fiscal Sustainability Report 2012. Results will be provided for all EU MS (including new MS) and will be based on the latest SYMBOL input dataset (2013 data in 2014 and 2014 data in 2015). Results will be accompanied by a short description of the assumptions used in the simulations with regard to the different banking safety nets assumed in place.	15/12/2015	Scientific and policy reports
2058 - MAC-ECOM MACRO-ECONOMIC Modelling	Development, estimation, simulation, coding and validation of macroeconomic models to assist the implementation of both the Stability and Growth Pact (SGP) and the Macroeconomic Imbalance Procedure (MIP). A large variety of macroeconomic models are taken into account (single variable - single country, multi-variable - many country, structural or reduced form), estimated using classical methods or via Bayesian techniques. Activities include coding of ad-hock software development.	JRC.G.1 Marco RATTO	5.1.a	ECFIN	n/a	ROEGER Werner	Tech Serv - Member States and their Technical Services/type approval authorities	01/01/2015 31/12/2017	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)	2083 - MACFINROBODS Integrated Macro-Financial Modelling for Robust Policy Design 2820 - NEcMod New Economic Models			INS-RS	1	GAP Methodological studies	GAP Methodological studies to improve output gap estimation. In particular, improving the estimates of the two main output gap components: the NAWRU (non-accelerating inflation rate of unemployment) and the potential growth of total factor productivity (TFP).The JRC will continue to investigate the benefits of using all data vintages instead of the most recent one as a strategy for increasing the resilience of NAWRU and TFP trend estimates.	31/12/2015	Scientific and policy reports
														2	Program GAP	Maintenance and upgrading of program GAP to estimate the output gap that enters the Cyclically Adjusted Budget balance formula set by the SGP.	19/07/2015	Scientific and policy reports
														3	GAP training	Training on the methodology and the software used to estimate the output GAP to the member states.	19/06/2015	Oral presentations
														4	Dynare	Development of user-friendly general state-space model and Maintain/develop new algorithms and codes for DSGE models to assist DG ECFIN in quantitative policy analysis.	15/12/2015	Scientific and policy reports
														5	QUEST	Estimation/simulation of versions of the QUEST model for individual EU countries or EU aggregate (on request of customer DG ECFIN) using financial market data in the estimation to analyse determinants of loan growth. Disseminate economic research. Maintain/develop QUEST codes	15/12/2015	Article contribution to other periodicals
														6	Global Estimated Model	Set up the data engine for individual EA countries and EA aggregates. Set up the engine for deriving trends to be used in the model consistently with the GAP methodology. Set up the estimation and simulation engine for individual EA countries and euro-area aggregate vs US and Rest-of-the-world. Alpha version of the user interface for running model simulations and estimations. Maintain/develop Global Estimated Model codes	15/12/2015	Scientific and policy reports
														7	Dynare training	Training on methodology and software used to estimate and simulate the new (6.) global estimated model	15/12/2015	Oral presentations
2083 - MACFINROBODS Integrated Macro-Financial Modelling for Robust Policy Design	To improve on existing methods for the estimation of DSGE models. To take advantage of and to fine-tune global sensitivity analysis procedures so as to allow for informative model validation and comparison. To understand which features of financial markets are empirically essential for policy focused macroeconomic modelling.	JRC.G.1 Marco RATTO	5.1.a	ECFIN	RTD	SOBCZAK Dominik (RTD)		01/05/2014 30/04/2017	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)	2058 - MAC-ECOM MACRO-ECONOMIC Modelling 2820 - NEcMod New Economic Models			COM-HA	1	Improve Bayesian estimation methods	One new Dynare software tool to improve Bayesian estimation of DSGE models using Gibbs sampling	30/04/2015	JRC Technical reports
														2	Extending global sensitivity analysis tools	One new Dynare tool for the evaluation of models adapting and extending global sensitivity analysis	30/04/2016	JRC Technical reports
														3	Economic paper/tutorial	One tutorial paper explaining how to use macro-financial models developed by the consortium for policy analysis, including how to adapt them to stylized models used in policy institutions, so as to further increase the impact of the consortium's research for policy institutions.	31/03/2017	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2803 - FinEcoNet JRC Scientific and Institutional Network on finance and economics	Establishing a formal network on economic and financial issues bringing together institutional and academic partners, leading to joint publications and seminars, regular organization of workshops and conferences, exchange of staff.	JRC.G.1 Jessica CARIBONI	5.1.a	ECFIN	n/a	W. Roeger, HoU A3	COMP FISMA TAXUD		01/01/2015 31/12/2015	7-Scientific, technical & policy consultancy (100%)		1131 - AA-NewModel Global macroeconomic model 1080 - FEDRA Financial Events Detection for Risk Assessment 855 - QUEST	INS-RS	1	Network events on economic and financial issues	JRC-G01 will organize at least 2 joint seminars/events with key institutional partners in the network on topics strictly related to Commission priorities in the field of finance and/or economics	16/12/2015	Oral presentations
														2	Joint publications on economic & financial topics	JRC-G01 will publish 1-3 reports/papers with key institutional partners in the network on topics strictly related to Commission priorities in the field of finance and/or economics.	16/12/2015	Scientific and policy reports
2820 - NEcMod New Economic Models	Together with DG ECFIN, develop a new multi-country model to be used for spillover analysis of economic effects for forecasting and for medium term projections across EU Member States. Strengthen its existing macro-economic models to better explore the linkages between the real economy and the financial sector.	JRC.G.1 Marco RATTO	5.1.a	ECFIN	n/a	W. ROEGER (ECFIN.DDG1.A.3)	FISMA		01/01/2015 31/12/2017	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)		2058 - MAC-ECOM MACRO-ECONOMIC Modelling 2083 - MACFINROBODS Integrated Macro-Financial Modelling for Robust Policy Design	INS-RS	1	New Model development	Implement and test the new model specifications: introduce behavioural equations for a simple portfolio allocation of assets with cross-holding (each country can decide to hold domestic and foreign assets, namely private equities and government bonds), to allow propagating risk shocks associated to individual assets (e.g. sovereign bond spreads). Ensure proper functioning of the computational engine, data updating and user interface.	15/12/2015	Scientific and policy reports
														2	New model operation	In collaboration with DG ECFIN, perform model estimations and run model based projections for policy assessments (quarterly projections/ European semester/ MIP).	15/12/2015	Scientific and policy reports
														3	Testing the building blocks of existing models	Test new behavioural and institutional building blocks of existing models: risk behaviour in different investment sectors, financial fragility via occasionally binding constraints and indeterminacy in monetary policy.	15/12/2015	Scientific and policy reports
														4	Sensitivity analysis methods: robust policy advice	Develop sensitivity analysis methods to increase the robustness of policy advice by systematically combining and comparing competing models.	15/12/2015	Scientific and policy reports
2844 - SICOMA Macro-economic impact of EU competition policies	Estimate the macroeconomic impact of competition policy enforcement in the EU, exploiting existing micro-economic calculations measuring the customer savings resulting from cartel and merger decisions, also including a measure of deterrent effect. The measures of competition policy enforcement are used to conduct policy simulations using QUEST III.	JRC.G.1 Marco RATTO	5.1.a	COMP	COMP	Fabienne Ilzkovitz			16/12/2014 16/10/2015	7-Scientific, technical & policy consultancy (100%)		855 - QUEST QUEST development and applications	COM-AA	1	Macro-economic impact of competition policy	Report to be produced jointly by DG COMP and the JRC. The study contributes to the broader objective of DG COMP to provide an assessment of the macro-economic impact of its competition policy interventions.	30/09/2015	Scientific and policy reports
5.2 Employment, Social Affairs, Skills and Labour Mobility																		
5.2.a Centre for Research on Impact Evaluation (CRIE) to provide technical advice, methodological support, specialised training and exchange on counterfactual impact evaluations in the context of the European Social Fund (ESF) and other employment and social policy programmes and initiatives:																		
2240 - CRIE - Competitive 2 Centre for Research on Impact Evaluation - Competitive 2	CRIE provides scientific expertise and methodological support to the Directorate General Employment, Social Affairs and Inclusion (DG EMPL) and Member States (MS) for the impact evaluations of interventions funded by the European Social Fund and other instruments managed by DG EMPL	JRC.DDG.01 Beatrice D'HOMBRES	5.2.a	EMPL	EMPL	LORANCA GARCIA Santiago	Tech Serv - Member States and their Technical Services/type approval authorities		01/01/2015 31/12/2015	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			COM-AA	1	Pilot CIE: summary report	On the basis of the interim reports to be submitted to DG EMPL by MS authorities implementing the pilot projects, draft a summary report on the progress and any challenges in their implementation.	31/12/2015	JRC Technical reports
														2	Network	Network of researchers and practitioners on Impact Evaluation Methods.	31/12/2015	Scientific information systems and databases
														3	Counterfactual Evaluation Archive	On the basis of the findings and conclusions of the Knowledge Gap report produced by CRIE under the AA for 2013-2014, the CRIE team will produce an archive of CIEs on ESF type of interventions, called Counterfactual Evaluation Archive (CEA).	31/12/2015	Scientific information systems and databases
														4	Regional Workshop on CIE (RWC)	At the request of MS, CRIE will set up a series of Regional Workshops where CIE performed at MS level can be presented and discussed, and where training at various levels, possibly in the form of tutorials, can take place.	31/12/2015	Training
														5	Counterfactual Impact Evaluation: support to MS	Provide upon request support to MS to set up the necessary arrangements for carrying out CIE.	31/12/2015	Validated methods, reference methods and measurements
														6	Support to MS authorities implementing CIE pilots	Methodological support to MS authorities in charge of ESF evaluation implementing the selected CIE pilot projects	31/12/2015	JRC Reference reports
														7	Methodological support to the calls for proposals	Elaborating a report analysing the results of PROGRESS calls on social policy experimentation launched from 2011 onwards; providing methodological support for the implementation of the projects selected under the 2013 and 2014 call for proposals; providing technical and methodological advice and participating in the evaluation of proposals for the 2015 EaSI call on social policy experimentation.	31/12/2015	JRC Technical reports
														8	Activity Reports	Draft an activity report on the implementation of the CRIE administrative agreement with DG EMPL, including lessons learnt and recommendations for the development of future activities.	31/12/2015	JRC Technical reports
2255 - CRIE Institutional 2 Centre for Research on Impact Evaluation - Institutional 2	CRIE- Institutional carries out applied and theoretical research in Econometric Policy Impact Evaluation using counterfactuals, of the type required for the impact evaluation of interventions funded by the European Social Fund and other instruments managed by Directorate General Employment, Social Affairs and Inclusion (DG EMPL) and by Member States (MS).	JRC.DDG.01 Beatrice D'HOMBRES	5.2.a	EMPL	n/a	LORANCA GARCIA Santiago			01/01/2015 31/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-UR	1	The puzzle of job search and housing tenure.	The Oswald's thesis posits that workers who own their own home should have longer unemployment spells due to their reduced mobility, but most often the reverse is found. Using data from the UK LFS, we show that the thesis holds when stated in terms of search intensity, instead. Namely, outright owners have lower search intensity than private renters. This implies that we come up with a new puzzle: owning own home reduces job search intensity but shortens the unemployment duration.	31/12/2015	JRC Technical reports
														2	Stricter job search requirements	This paper investigates the relation between job search behaviour and housing tenure by focussing on the impact of the Jobseeker's Allowance reform introduced in the UK in 1996. A tightening in job search requirements, as implied by this reform, raised movements off benefit of non-employed with low search intensity, and increased job search intensity of those who kept on claiming.	31/12/2015	JRC Technical reports
														3	Is homeownership really harmful for the labour market?	Although in the last decades the orientation of several governments, particularly in Europe, has been to promote homeownership, economists have raised several concerns about the consequences of large homeownership rates on unemployment. However, the analysis of the macroeconomic effect of homeownership on unemployment rates is complicated by a clear reverse causality issue, that current empirical tests do not take into account rigorously.	31/12/2015	JRC Technical reports
														4	Upward mobility in Tertiary Education	This paper will propose a comparative measurement of the extent of intergenerational mobility in tertiary education. Empirical results will be drawn from micro datasets covering more than 80 countries. The paper will also aim at exploring the evolution of intergenerational mobility through education over the last 50 years.	31/12/2015	JRC Technical reports
5.2.b Development of methodologies and tools, including macroeconomic level analysis, to assess the social return of investment approaches in social policy interventions (Social Investment Package); analysis and knowledge base on the contribution of information and communication technologies (ICT) to innovative approaches in pursuing active and enabling social policies oriented towards social investment;																		
1714 - ISIS ICT-enabled Social Innovation in support of the implementation of the Social Investment Package	This project aims at supporting the implementation of the Social Investment Package by addressing how ICT-based Social Innovation can support the implementation of policies promoting social investment with the aim of systematically collecting and improving evidence-based knowledge.	JRC.J.3 GIANLUCA MISURACA	5.2.b	EMPL	EMPL	Aurelio Fernandez DG EMPL	CNECT SANTE		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)			COM-AA	2	Annual Report 2015	Mapping and analysis of ICT based Social Innovation initiatives promoting social investment (in Integrated approaches to social services provision, including Active healthy ageing and long term care)	31/12/2015	Scientific and policy reports
														3	Annual Report 2016	Mapping and analysis of ICT based Social Innovation initiatives promoting social investment (in Integrated approaches to social services provision, including Active healthy ageing and long term care)	31/12/2016	Scientific and policy reports
														4	Methodological Framework	Methodological framework to assess the impacts generated by ICT-enabled social innovation initiatives promoting social investment (in Integrated approaches to social services provision, including Active healthy ageing and long term care).	31/12/2016	JRC Technical reports
														5	Final Report	The role, impact and models of ICT enabled social innovation initiatives promoting social investment (in Integrated approaches to social services provision, including Active healthy ageing and long term care).	31/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
5.2.c Assessment studies, technical and scientific activities in the area of protection of workers' health from possible risks arising from exposure to hazardous chemicals at the workplace.																		
824 - WOKS Nanomaterial-surface area based occupational exposure standards	There is an increasingly consensus among experts and stakeholders that the health effects related to nanomaterials are better associated to the nanoparticle surface rather than to traditional exposure metrics routinely applied to bulk materials. Novel measurement techniques will be assessed and occupational exposure protocols will be developed involving measurement of nanoparticle surface area to respond to emerging policy and international standardization needs.	JRC.I.1 Otmir GEISS	5.2.c	EMPL	n/a	DG EMPL B3 - Maria Moutinho De Almeida (HoU); A. Morris (Contact Person)	ENV GROW RTD SANTE	CEN - European Committee for Standardization ECHA - European Chemicals Agency (ECHA) ISO - International Organization for Standardization (ISO) MIN Labour EU MS - Ministries of Labour of EU Member States OECD - Organisation for Economic Co-operation and Development	01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)		253 - SCOELsupport SCOEL SUPPORT II 997 - NANOPROTEOMICS Potential health impact of nanoparticles used in consumer products 822 - ExpoMeth Human Exposures Methodological Portal in support of Public Health	INS-UR	2	Measurements of surface area concentrations	Surface area concentrations will be measured in selected occupational environments. Novel handheld instrumentations – suitable for personal exposure assessment - will be used for this purpose.	15/12/2015	Scientific and policy reports
2265 - SCOEL III SCOEL SUPPORT III	The overall objective of the SCOEL support project is to develop at the JRC Institute of Health and Consumers Protection (IHCP) a scientific support activity to provide technical and scientific services to DG EMPL and to the SCOEL in the area of OELs (Occupational Exposure Limits) for individual hazardous chemicals in the workplace in accordance with article 3 of Directive 98/24/EC on chemical agents and Directive 2004/37/EC on carcinogens and mutagens.	JRC.I.1 Demosthenes PAPAMELETIU	5.2.c	EMPL	EMPL	DG EMPL B3 - Maria Moutinho De Almeida (HoU); A. Morris (Contact person)	ENV GROW MOVE RTD SANTE	ECHA - European Chemicals Agency (ECHA) OSHA - European Agency for Safety and Health at Work	28/11/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)		824 - WOKS Nanomaterial-surface area based occupational exposure standards 373 - NanoAssess Regulatory approaches for the assessment of nanomaterials	COM-AA	1 2 3	1st quarterly AA progress report 2nd quarterly AA progress report FOR 2015 3rd quarterly progress and final AA report 2015	The quarterly progress reports give a summary on the occupational exposure studies in progress which are foreseen in the following areas: nanomaterials, cobalt, asphalt bitumen, benzene among others topics currently under consideration by SCOEL/DG EMPL The quarterly progress reports give a summary on the occupational exposure studies in progress which are foreseen in the following areas: nanomaterials, cobalt, asphalt bitumen, benzene among others topics currently under consideration by SCOEL/DG EMPL The quarterly progress reports give a summary on the occupational exposure studies in progress which are foreseen in the following areas: nanomaterials, cobalt, asphalt bitumen, benzene among others topics currently under consideration by SCOEL/DG EMPL. This deliverable also includes the final report of the AA.	30/05/2015 31/07/2015 20/11/2015	Scientific and policy reports Scientific and policy reports Scientific and policy reports
5.2.d Research support for assessment of skills and key competences and the contribution of digital technologies to the development and assessment of skills and key competences.																		
2845 - Competence Framework Competence Frameworks Project	The project will focus on designing two competence frameworks (digital and entrepreneurship) which are intended to be compatible to the European Qualifications Framework (EQF). This project will concentrate in particular (i) on making the existing EACAPTS digital competence framework compatible to EQF; and (ii) on developing a new European framework for entrepreneurship competence compatible to EQF.	JRC.J.3 Yves PUNIE	5.2.d	EMPL	EAC	Ana Carla Pereira, currently DG EAC A.3 - likely to be transferred to DG EMPL	EAC		01/01/2015 30/06/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		1730 - Open Education Open Education 2277 - Innovative Edu Furthering Innovative Education in Europe (FIE)	COM-AA	1 2	Digital Competence framework compatible to EQF Entrepreneurship Competence framework	Digital Competence framework compatible to EQF Referencing the existing DIGCOMP to 8 European Qualification's Framework (EQF) levels Developing entrepreneurship competence framework compatible to 8 EQF levels	01/09/2015 30/06/2016	JRC Technical reports Scientific and policy reports
5.3 Financial Stability, Financial Services and Capital Markets Union																		
5.3.a Quantitative analysis for the development and the implementation of the Capital Markets Union;																		
2824 - CapMaU Support the development of a Capital Markets Union	DG JRC will analyse differences across Member States in creditors' rights, corporate and household bankruptcy, debt restructuring, and credit assessment procedures. These differences are currently hampering the development of a single market for financial services (corporate loans, mortgages, SME bonds, etc.) and impeding investment across jurisdictions, which may enhance the cross-border flow of real financing, and thus contribute to growth and	JRC.G.1 Marco PETRACCO GIUDICI	5.3.a	FISMA	n/a	Miguel de la Mano (HoU B.2)	ECFIN GROW		01/01/2015 31/12/2017	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)		1130 - FIMMINT Financial Market Monitoring and Integration 2055 - CrInGrIn Excessive Credit, Instability, Growth and Inequality	INS-RS	1 2	Capital Markets Union: institutional frictions Capital Markets Union: economic frictions	Obtaining a map (and possibly a set of quantitative indicators) of the differences in procedures and legislations in order to allow to analyse the process of convergence which Member States are undertaking towards a common financial market and identify bottlenecks. Perform a first analysis aimed at identifying the potential impact of removing such frictions. JRC will gather data on economic frictions in capital markets and assess their distribution and relevance, focusing on: Credit Markets Segmentation; impediments in accessing the EU wide corporate bonds market; Patterns of corporate and household (excessive) indebtedness. The report will also contain a first analysis aimed at identifying the potential impact of removing such frictions.	15/09/2015 15/12/2015	Scientific and policy reports Scientific and policy reports
5.3.b Assess initiatives related to the regulation of the financial sector. Maintain and further develop a data infrastructure for the EU financial sector analyses.																		
1090 - FEDRA Financial Events Detection for Risk Assessment	This project explores the link between web-based information and stock market movements for a set of financial firms, representing a substantial share of financial market worldwide and in Europe. The aim is to show that web-based information supplies early warning signals of vulnerabilities and can thus help in a more efficient damage prevention policy strategy.	JRC.G.1 Michela NARDO	5.3.b	FISMA	n/a	Javier Villar Burke/ Harald Stieber (B.2)	ECFIN		01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			INS-UR	4 5	Web information and market behaviour Web sentiment indicator	Report with the analysis of the link between web information and market behavior for the available financial institution. Report on the construction and testing of a web sentiment indicator for tracking economic and financial events.	31/12/2015 31/12/2015	Scientific and policy reports Scientific and policy reports
1130 - FIMMINT Financial Market Monitoring and Integration	The main outcome of these lines of work are: 1) Expansion of the time length of the SYMBOL database 2) Development of the SYMBOL model in areas of interest for DG FISMA.	JRC.G.1 Marco PETRACCO GIUDICI	5.3.b	FISMA	FISMA	Mario Nava, Director for Directorate "Financial Institutions"	ECFIN		01/03/2015 28/02/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		2053 - SUFIS Scientific Support to Financial Stability	COM-AA	1 2	cross country contagion in SYMBOL 2 research on the inclusion of sovereign risk	report summarizing the research progresses on the development of a cross country contagion model in SYMBOL report with progresses on research aimed at including sovereign-bank risk feed-back loops in symbol	30/06/2015 30/06/2015	Scientific and policy reports Scientific and policy reports
2053 - SUFIS Scientific Support to Financial Stability	Development of analytical tools, models and databases to assess financial sector risks, their impact on the real economy and the effects of EC policies. Financial analysis and econometrics on liquidity of markets and market instruments. Institutional Support to EC financial legislative initiatives.	JRC.G.1 Jessica CARIBONI	5.3.b	FISMA	n/a	Miguel de la Mano (HoU B.2)	ECFIN		01/01/2015 31/12/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	1 2 3 4	Report on modelling macro-financial linkages Database on EU banking sector JRC support to EC banking legislative initiatives Report on public finance costs of systemic crisis	The report describes results of JRC research on how to model macro-financial linkages, including the link between sovereign and banking. Maintenance and further development of a data infrastructure for the EU financial sector analyses. The database will store information on bank structures at micro level (individual financial institutions), at country level, and at aggregate level (EA 18, EU28), coming from different commercial and public sources (Bureau Van Dijk - Bankscope, SNL ECB Data Warehouse, BIS databases, etc). The report summarizes quantitative analyses developed by the JRC in support to EC banking legislative initiatives completing the Banking Union and the bank structural separation initiative. Report with simulation results on the impact of banking losses on public finances under different institutional scenarios, of the type in the Fiscal Sustainability Report 2012. Results will be provided for all EU MS (including new MS) and will be based on the latest SYMBOL input dataset (2013 data in 2014 and 2014 data in 2015). Results will be accompanied by a short description of the assumptions used in the simulations with regard to the different banking safety nets assumed in place.	15/12/2015 15/12/2015 15/12/2015 15/10/2015	Scientific and policy reports Scientific information systems and databases Scientific and policy reports Scientific and policy reports
2821 - NeFiMaD Build capacity to analyse new and arising dynamics of the financial markets	DG JRC will develop capacity for a deeper understanding of the hidden dynamics of financial markets (e.g. by shadow banking) in order to detect new potential risks and threats as early as possible. DG JRC will also target the implications of new forms of finance such as crowd funding, peer-to-peer lending, and digital currencies and address market phenomena such as network formation, herding behaviours, bubble dynamics, or contagion effects through Big Data approaches and behavioural models.	JRC.G.1 Marco PETRACCO GIUDICI	5.3.b	FISMA	n/a	J. BERRIGAN (Director)	ECFIN GROW		01/01/2015 31/12/2017	7-Scientific, technical & policy consultancy (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			INS-RS	1 2 3 4	Financial stability threats from crypto currencies Financial stability threats from shadow banking Bubble formation, herding and contagion dynamics New financial (dis)intermediation platforms risks	The report will consider possible threats to financial stability coming from Crypto-currencies, e.g. Bitcoin, Litecoin, Ethereum, etc. Digital or virtual peer-to-peer currencies not backed by any financial institutions but run by a computer algorithm. Besides cyber risks, the anonymous nature of transactions & the lack of regulation exposes them to be used for money laundering & tax evasion & the potentially excessive interest in investing in them has the potential of creating financial bubbles. As markets and banking sector become more regulated and transparent, many financial activities are being shifted outside the regulated system into the "shadow banking" system, leading to severe concerns for financial stability. The report will contain an assessment of the dimension and extension of the shadow banking system based on existing data, and an analysis of the potential dangers to financial stability stemming from linkages between institutions through the shadow sector. Based on data gathered via web-based big data approaches the report will analyse herding and contagion dynamics within financial markets, looking at alternative explanatory theory of observed patterns based both on more traditional and on newer behavioural economics models. The report will assemble and analyse data on the development of new and alternative financial (dis)intermediation platforms such as peer-to-peer lending and crowdfunding and perform a preliminary assessment of possible threats to financial stability coming from their increased take-up.	15/12/2015 15/12/2015 15/12/2015 15/12/2015	Scientific and policy reports Scientific and policy reports Scientific and policy reports Scientific and policy reports
2822 - SocImp Social Impact of Financial Measures: supporting work for the new Commission priorities	We develop a system for assessing the social impact of a selected set of financial measures. First, we identify the key transmission channels through which financial reforms impact the society (ex post analysis). Then, we evaluate, ex-ante, the potential effects of a financial reform on the key transmission channels, and consequently on households and individuals. Major dimensions assessed include credit availability, savings, consumption, employment, and the income and wealth distribution.	JRC.G.1 PETER BENZUR	5.3.b	FISMA	n/a	Miguel de la Mano (HoU B.2)	ECFIN EEMPL		01/01/2015 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		2055 - CrInGrIn Excessive Credit, Instability, Growth and Inequality 2824 - CapMaU Support the development of a Capital Markets Union	INS-RS	1 2 3	Social impact of finances: literature review Social impact of finances: Interim report Social impact of finances: Final report	A literature review on the impact of finances on firms and households: data and methodology The report summarizes the current methodologies and data used in the academic literature studying how financial market conditions impact firms and households. Two particular aspects are (1) to identify the main channels of the impact, and (2) to locate and collect studies using financial reform episodes for such analyses. The report partly summarizes existing, and partly presents new empirical evidence about the impact of financial variables on firms and households (in terms of consumption, savings, access to credit, terms of credit, among others). Though the main focus is on the individual level, aggregate results would also be presented about the impact of financial reforms on employment, consumption, savings, productivity and the income distribution. The report finalizes the ex post evaluation stage (collected and newly obtained evidence), and develops the methodology for an ex ante impact assessment.	15/09/2015 16/12/2015 15/12/2016	Scientific and policy reports Scientific and policy reports Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
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5.4 Taxation and Customs Union																		
5.4.1 Taxation policy																		
5.4.1.a Modelling and economic analysis on tax policies with the EUROMOD microsimulation model, in particular aiming to shift taxes away from labour and towards consumption, environment-damaging activities and immovable property; examine the redistributive effect of taxation; broaden the tax base and review housing taxation; improve the efficiency of tax collection; tackle tax fraud and evasion; design innovative tax tools as well as examine the employment and social																		
182 - TAX SYMBOL (TAXUD)	The objective of this project is to continue developing the SYMBOL model in areas of interest to DG MARKT, DG TAXUD and DG ECFIN. Moreover the JRC will investigate the employment of SYMBOL, for the investigation of the relation between taxation measures and financial stability issues for DG TAXUD. The activities are part of an inter-DGs project.	JRC.G.1 Alessandro ROSSI	5.4.1.a	TAXUD	TAXUD	Thomas Hemmelgarn (Thomas.HEMMELGARN@ec.europa.eu)	ECFIN FISMA	MS EU - Member states EU	29/03/2012 28/03/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			COM-AA	1	tax distortions and bank leverage	Estimation of the effect of Corporate Income Tax on bank leverage	27/03/2015	JRC Reference reports
2831 - TAXMOD- Policy Support to tax policy recommendations with the EUROMOD model: fiscal, employment and equity impact	The project will study the fiscal and equity impact of tax expenditures affecting labour taxes, the fiscal and equity impact of housing tax reforms, and including also an exploratory analysis for the calibration of the QUEST model and possible interaction between the EUROMOD and QUEST models. Country-specific support to tax policy reform analysis for the formulation of country specific recommendations.	JRC.J.2 Salvador BARRIOS	5.4.1.a	ECFIN	ECFIN	Gilles Moure, DG ECFIN.C.3	EMPL TAXUD		01/01/2015 31/12/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		236 - TAXMOD Modelling tax reforms with the EUROMOD microsimulation model 2825 - TAXMOD-Corporate Competitiveness and welfare effects of corporate tax reforms: Base Erosion and Profit Shifting OECD 2030 - TAXMOD-INST Modelling tax reforms (institutional follow-up #236)	COM-AA	1	cost and equity impact of tax expenditures	1.1The fiscal cost and equity impact of tax expenditures (T0 + 12m) The objective of this task is to quantify the fiscal cost of tax expenditure focusing on a limited number of categories such as make-work-pay, health, education and housing tax expenditures. This work will make use of the EUROMOD model and combine the EU-SILC and Household Budget Survey data from EUROSTAT in order to complement the data currently used in EUROMOD. The Task will also build summary indicator on the equity impact	31/12/2015	Scientific information systems and databases
														2	Interaction EUROMOD/QUEST	1.2. Interaction EUROMOD/QUEST (T0 +24m) The objective of this task will be to interact the EUROMOD microsimulation model and the macroeconomic QUEST model in order to derive dynamic forecast of the impact of tax reforms on public finances, government budget balance, GDP and employment. The possibility to include these dynamic fiscal projections in the EUROMOD-JRC web interface will be considered.	31/12/2016	Scientific information systems and databases
														3	Country-specific recommendations for taxation	1.3. Support to the formulation of Country-specific recommendations in the area of tax policy (T0 + 12, T0 + 24m, T0 + 36m) The objective of this task will be to develop country-specific expertise in a selected number of EU countries in order to provide detailed analysis of the impact of Tax reforms announced by the Member States in the context of the European Semester. The EUROMOD model will be used for this purpose.	31/12/2017	JRC contributions to policy documents
5.4.1.b Measuring, with economic experiments, civic norms of cooperation across the European Union aiming at a better understanding of the behavioural underpinnings of different levels of tax compliance, analysing advantages and disadvantages of fiscal harmonisation. Support to Member States in testing new interventions aimed at increasing tax compliance;																		
1110 - PAYTAX Behavioural Economics and Taxation	Application of the Institute's Behavioural Economics capacity in response of arising needs of the European Commission services working on economic issues connected with the European semester like tax compliance. Under the Administrative Arrangement the project will specifically analyse how tax policies influence the behaviour of economic agents (and vice versa) in different Member States of the European Union.	JRC.I.2 BENEDIKT HERRMANN	5.4.1.b	TAXUD	TAXUD	TAXUD.D.4 - Thomas HEMMELGARN - Thomas.HEMMELGARN@ec.europa.eu;	ECFIN REGIO	MS EU - Member states EU	01/06/2013 31/05/2016	7-Scientific, technical & policy consultancy (100%)		648 - BE2EU Behavioural Economics to EU policy making	COM-AA	1	Consolidated review of findings	Revised version of the survey paper on behavioural economics and taxation prepared earlier in the project as initial review, consolidated for publication.	31/01/2015	Scientific and policy reports
														2	Civic norms and tax compliance	The report will analyse the results of experimental research on the interdependence between civic norms of cooperation and tax compliance across Europe	31/03/2015	Scientific and policy reports
														3	Analysis of EU fiscal structures	Analysis of fiscal structures over Europe, making use of recent insights from behavioural economics.	30/06/2015	Scientific and policy reports
														4	Random tax awards	Summary of analysis of impact and effectiveness of random tax award schemes in Europa	29/02/2016	Scientific and policy reports
5.4.1.c Modelling of macroeconomic and welfare effects of global tax policy initiatives in the area of corporate income taxation. Develop modelling tools for assessing the impact of anti-avoidance rules, harmonisation of specific rules, changes in tax treaties and future policy initiatives taken at EU level.																		
2800 - TAFS Taxation and Financial Stability	Research on the effects of financial sector taxation on financial stability and the Internal Market, notably in the context of the priorities set out by President Juncker towards the adoption at EU level of a Common Consolidated Corporate Tax Base and appropriate financial sector taxation. The JRC will apply its models and expertise to investigate the effects of different types of financial sector taxes on bank balance sheets, lending behaviour and capital structure, and on financial stability.	JRC.G.1 Sven LANGEDIJK	5.4.1.c	TAXUD	TAXUD	NICODEME Gaëtan	ECFIN FISMA		01/01/2015 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		2823 - BankTaxShift Tax shifting in the banking sector in the context of the Common Consolidated Corporate Tax Base	COM-AA	1	Taxation and Financial Stability	Interim report on research on the impact of various taxes on the financial sector on systemic risk	15/12/2015	Scientific and policy reports
2823 - BankTaxShift Tax shifting in the banking sector in the context of the Common Consolidated Corporate Tax Base	Multinational banking groups' capital structures and profit and loss accounts will be analysed to quantify the degree of tax shifting in the banking sector. The project includes assessment of aggregate tax revenues, tax avoidance, and distribution of financial crisis losses across countries using SYMBOL model and their macro-economic and welfare implications. It would aim to quantifying financial sector effects of the introduction of a Common Consolidated Corporate Tax Base (CCCTB) in the EU.	JRC.G.1 Sven LANGEDIJK	5.4.1.c	TAXUD	n/a	Gaetan Nicodeme (TAXUD.D.4)	ECFIN FISMA		01/01/2015 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		2800 - TAFS Taxation and Financial Stability	INS-UR	1	Bank balance sheets and taxation	Report on research on linkages between taxation and cross-border debt-shifting across subsidiaries, reported return on assets, return on risk-weighted assets and return on equity. It will include assessment of multinational banking group portfolio and activities.	15/12/2015	Scientific and policy reports
														2	Bank debt shifting and financial stability	Report on research on tax-shifting effect aggregate tax revenues, tax avoidance, and distribution of financial crisis losses across countries using SYMBOL model. The interaction between financial sector taxation measures and regulatory reforms in the banking sector (CRD, BRRD, LCR, NSFR, etc) and their effect on the scope for profit shifting and transfer pricing) may also be assessed.	15/12/2016	Scientific and policy reports
2825 - TAXMOD-Corporate Competitiveness and welfare effects of corporate tax reforms: Base Erosion and Profit Shifting OECD	Modelling support to Corporate Tax Reforms with broader welfare impact. To use or build on the CORTAX computable general equilibrium model to evaluate the macroeconomic and welfare effects of (i) possible anti-avoidance rules, (ii) further harmonisation of specific rules, and (iii) the effect of corporate income tax reforms. Analysis of the fiscal and research impact of patent boxes making use of ORBIS company account balance sheets with PATSAT	JRC.J.2 Salvador BARRIOS	5.4.1.c	TAXUD	n/a	G. Nicodeme, HoU DG TAXUD	ECFIN EEMPL	OECD - Organisation for Economic Co-operation and Development (OECD)	01/01/2015 31/12/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		236 - TAXMOD Modelling tax reforms with the EUROMOD microsimulation model 2831 - TAXMOD- Policy Support to tax policy recommendations with the EUROMOD model: fiscal, employment and equity impact 2030 - TAXMOD-INST Modelling tax reforms (institutional follow-up #236)	COM-AA	1	feasibility report	Selection and development of the modelling framework for the CGE analysis: feasibility report The objective of this task will be to investigate the use and extension of existing corporate tax CGE model starting from the CORTAX model developed by the CPB. This task will consist in verifying the suitability of using the CORTAX model and to propose wherever relevant extension needed in order to address particular policy issues of interest in the context of the OECD Action Plan on Base Erosion an	31/12/2015	JRC Technical reports
														2	Data collection and calibration	Data collection and calibration of the corporate CGE model: Final report + Baseline policy This Task will take into account the conclusions of Task 3 regarding the model selection, coverage and features in order to investigate the availability of data and the need for econometric estimations in order to calibrate the corporate CGE model. This task will consist in (i) data selection, data mining and preparation, in coordination with Task 3 regarding country and sectoral coverage; (ii) perform	31/12/2016	JRC Technical reports
														3	Policy changes scenario analysis	Analysis of Corporate Tax Policies in the EU: Policy changes scenario The goal of the work will be to provide policy-relevant analysis in the area of corporate taxation in line with OECD BEPS discussions and CCCTB proposal. This analysis will be carried out against a background of concern about the capability of firms to engage in tax avoidance, taking advantage of differing rules across the EU and internationally. The analysis will focus on the welfare and competitive	31/12/2016	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
5.4.2 Customs policy and the fight against fraud																			
5.4.2.a Research on: (1) effective risk assessment systems using, among others, advanced analytics on Container Status Messages data, advance cargo information data and cargo vessel itineraries, (2) control, detection, identification and quantification methods including analytical tools, statistical data mining and exploitation of new data sources (3) development of new engineering materials, technologies, diagnostics systems to contribute to the fight against terrorist or criminal																			
285 - SITAF Statistics and Information Technologies for Anti-fraud	Building on JRC's extensive experience in modelling, detecting patterns in frauds against the budget of the EU and MS, SITAF improves & updates statistical methods for fraud detection & extends their application to customs risk management. SITAF's research activities cover improving versatility of statistical procedures to handle data of different formats; improving their computational efficiency & scalability; and their accessibility to users	JRC.G.2 Spyros ARSENI	5.4.2.a	OLAF	n/a	N SHAW/OLAF & C. HORAN/TAXUD	TAXUD	Cust Aut MS - MS Customs Authorities	01/01/2014 31/12/2016	2-Information systems & services (70%) 7-Scientific, technical & policy consultancy (30%)	286 - SIT4RD Statistics, Remote Sensing & Information Technologies for Monitoring Trade & Production of Diamonds	INS-RS		20151	Hierarchical models for trade data	Linear regression was used until now to model the dependence of values and quantities traded. Alternatively, hierarchical models will be used to relate the variables in a small number of simple models in which they enter in marginal or conditional distributions. For selected commodities, the unit price appears to depend very strongly on the quantities traded. Except for the commodity, the quantity traded, other concomitants (as origin or destination of trade), will be taken as hierarchy levels.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														20152	Use of FS for detecting clusters in data	Forward Search (FS) can be used iteratively to identify different clusters by taking into account outliers that are not clustered. A routine automatic application of the approach is still not in place, because the assignment of the units made on the basis of the monitoring by traditional Mahalanobis or Hotelling distances produces unstable results. The FS process will be applied in the framework of normal mixture models, with membership of the units determined by posterior probabilities	01/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														20161	Tools for knowledge extraction & outlier detection	After modelling, programming, and implementation work in collaboration with subject matter experts in the EC and statisticians internationally recognised, a set of statistical applications will be available for knowledge extraction and outliers detection. Patterns to be detected will be spikes in time, positive associations among categorical variables, price outliers that will not be confounded with seasonal changes, clusters of prices in European external trade.	30/11/2016	Technical systems	
														20162	Price indices from customs data, via robust stats	The current advice for the calculation of import and export price indices is not to base them on customs data but on the results of institutional survey data. The use of the complete set of customs declarations processed by robust statistics for the presence of errors, and the estimation of seasonalities and trends makes customs data a valuable resource to produce import and export price indices over selected, predefined commodities or over all commodities traded.	30/11/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														201503	Heteroscedastic models for outlier detection	In Customs & COMEXT data, cases with increasing dispersion of traded values are observed for increasing traded quantities i.e. data are often heteroscedastic. If traditional homoscedastic model is applied to such case the risk is to over-declare outliers. We will study, adapt and implement multiplicative heteroscedastic models in MATLAB and/or SAS to complement traditional JRC statistical suite of tools and establish a robust suite of tools not influenced by presence of outliers.	30/11/2015	Scientific information systems and databases	
														201504	Advanced Trade database management	Combined Nomenclature CN product code in EU TARIC DB is prone to annual revisions leading to merging of 2 different codes in a single one. This affects results of JRC statistical analysis. SQL query based process, visualisation, pre-processing tools for ARIADNE+Web-ARIADNE JRC statistical tools will be developed respectively to 1.monitor CN changes 2.retrieve data from trade datasets 3.flag signals & products affected by CN changes. Later will enrich Signal THESEUS DB with updated information	13/11/2015	Scientific information systems and databases	
297 - CONTRAFFIC Contraffice - Container traffic monitoring and risk analysis	R&D related to the Contraffice system to fight commercial fraud and secure the containerized goods supply chain through information-based risk analysis. Assessing and demonstrating the value for customs and security authorities of having access to and analyzing Container Status Messages (CSMs). Research in data mining and anomaly detection in datasets of container itineraries. Development of risk indicators related to CSMs. Possible contributions to export control	JRC.G.3 Aris TSOIS	5.4.2.a	OLAF	n/a	PERDIGAO Jose	TAXUD TRADE	Cust Aut MS - MS Customs Authorities	01/01/2014 31/12/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)	103 - CONTAIN Container Security Advanced Information Networking - WP RTD 384 - Contraffice-ENS Contraffice-ENS (Entry Summary Declarations) real time analysis for security and safety risk assess. 746 - FP7-CORE Consistently Optimized Resilient Secure Global Supply Chains 1940 - CODA-5 Contraffice Customs Data Integration and Analysis	INS-RS		4	2015 - data gathering, integration and storage	In 2015 operation and evolutive maintenance of the Contraffice system will ensure efficient data gathering from multiple online sources, data cleaning and integration, as well as data storage in a number of formats as required for data visualization and analysis.	01/12/2015	Scientific information systems and databases	
														5	2015 - data analysis	step-wise improvements in existing techniques mainly on improved entity resolution. The initially foreseen new data mining techniques to analyse and cluster container-trips will be postponed for the 2016 deliverable	01/12/2015	Scientific information systems and databases	
														6	2015 - data visualization and on-line services	This module of Contraffice consists of on-line services provided to authorized users through the Contraffice web site. In 2015 the focus will be in implementing the designs for the visualization of container-trips and in designing advanced visual analytic services.	01/12/2015	Scientific information systems and databases	
														7	2016 - data gathering, integration and storage	In 2016 operation and evolutive maintenance of the Contraffice system will ensure efficient data gathering from multiple online sources, data cleaning and integration, as well as data storage in a number of formats as required for data visualization and analysis.	01/12/2016	Scientific information systems and databases	
														8	2016 - data analysis	data mining techniques to analyse and cluster container-trips. Step-wise improvements in existing analyses and the provision of processed information for customs or security authorities.	01/12/2016	Scientific information systems and databases	
														9	2016 - data visualization and on-line services	This module of Contraffice consists of on-line services provided to authorized users through the Contraffice web site. In 2016 the focus will be in developing and finalizing the advanced visual analytic services designed in 2015 and the container-trip visualization.	01/12/2016	Scientific information systems and databases	
695 - CSTRUT Composite Structures for Transport and Supply Chain	Experimental and analytical validation of the structural performance of new container systems made from composites fitted with embedded sensors for the purpose of improving the security of the inter-modal supply chain. Static and fatigue testing of components and assemblies of composite structures; progressing to the testing of a full-scale ISO-standard shipping container. Tests of anti-tamper technologies in conjunction with projects associated with related projects on same Key Orientation.	JRC.G.4 EUGENIO GERARDO GUTIERREZ TENREIRO	5.4.2.a	TAXUD	n/a	Mr. W. van Heeswijk (TAXUD)	MOVE		01/01/2014 31/12/2016	4-Methods and testing (100%)		INS-RS		3	Structural testing of large composite components	Calibrate performance models (static capacity) of large composite components. Conduct buckling tests to ascertain the performance of sandwich panels systems of a dimension comparable to that to be used in prototype composite container	31/12/2015	Article contribution to other peer-reviewed periodicals	
														4	Non-destructive damage detection	Characterization damage detection (e.g local buckling or delamination) of large panel sections based on non-linear wave propagation using piezo actuator/sensor couples.	31/12/2015	JRC Technical reports	
														6	Assessment of full-scale composite container	Assess the major structural properties of a fully-composite composite container fitted with embedded sensors and wireless mote transceiver station	31/12/2016	JRC Technical reports	
699 - CSNWI Supply Chain Wireless Networks	Analysis and development of ICT infrastructures to support the development of a wireless diagnostic system for the safety and security of inter-modal supply chain (primarily shipping containers). Emergence of network topology from the interaction of communication protocols and electronic components: analytical studies and prototype development to simulate the dynamics, structure and connectivity topology of wireless sensor networks.	JRC.G.4 EUGENIO GERARDO GUTIERREZ TENREIRO	5.4.2.a	TAXUD	n/a	Wil van Heeswijk	CNECT		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		INS-RS		4	Sensor Nets Reliability	Validation thorough experiments of reliability and energy-efficiency of wireless sensor-transceiver systems.	31/12/2015	JRC Technical reports	
														5	Calibration of anti-tamper system	The developed prototype will be tested on a full-scale (standard or composite) shipping container in order to assess the appropriate levels of sensitivity and trigger levels and reliability.	31/12/2015	JRC Technical reports	
														7	Sensor net field trials	Validation of signal percolation through multiple hops from container to remote base from composite container fitted with sensor and wireless multi-hop systems.	31/12/2016	JRC Technical reports	
														8	Field trials of trigger and wireless mote	Having established correct trigger levels, the system will be tested in field conditions on standard or composite container fitted with wireless mote base station	31/12/2016	Technical systems	
731 - DENATURED ALCOHOL Harmonisation of practices to denatured alcohol for exemption from excise duties	To rationalise the Community system in relation to the denaturing of alcohol and in agreement with the European action plan to strengthen the fight against tax fraud and tax evasion, JRC will finalise the harmonisation of completely denatured alcohol and initiate actions on partly denatured alcohol on specific sectors exempted under 27(1)(b) which MSs deem to be priorities: a) cosmetics, perfumes and hygienic products; b) screenwash, de-icer, thinner, anti-freeze	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	5.4.2.a	TAXUD	TAXUD	Heather Jones, TAXUD.C.2, heather.jones@ec.europa.eu	AGRI GROW SANTE SJ TRADE	Cust Aut MS - MS Customs Authorities MS EU - Member states EU	01/01/2014 31/12/2016	4-Methods and testing (100%)		COM-AA		2	2015 Yearly report	A report of the activities developed in this year will be disseminated among the Custom laboratories of the MSs	31/12/2015	JRC Technical reports	
														3	2016 Yearly report	A report of the activities developed in this year will be disseminated among the Custom laboratories of the MSs	31/12/2016	JRC Technical reports	
746 - FP7-CORE Consistently Optimized Resilient Secure Global Supply Chains	CORE will consolidate, amplify and demonstrate EU knowledge and capabilities and international cooperation for securing supply chains whilst maintaining or improving business performance. CORE is driven by requirements of the customs and law enforcement communities to increase cooperative security risk management and of the business communities to integrate compliance and trade facilitation concepts.	JRC.G.3 Aris TSOIS	5.4.2.a	TAXUD	n/a	Andrei Lintu (REA)	GROW MOVE OLAF	Cust Aut MS - MS Customs Authorities	01/05/2014 30/04/2018	7-Scientific, technical & policy consultancy (100%)	JRC.G.4	297 - CONTRAFFIC Contraffice - Container traffic monitoring and risk analysis 384 - Contraffice-ENS Contraffice-ENS (Entry Summary Declarations) real time analysis for security and safety risk assess.	COM-IA		2	2015 JRC contribution to CORE	Technical report consolidating the contribution of JRC to the CORE (FP7) project in 2015	31/12/2015	JRC Technical reports
															3	2016 JRC contribution to CORE	Technical report consolidating the contribution of JRC to the CORE (FP7) project in 2016	31/12/2016	JRC Technical reports
															4	2017 JRC contribution to CORE	Technical report consolidating the contribution of JRC to the CORE (FP7) project in 2017	31/12/2017	JRC Technical reports
															5	2018 JRC contribution to CORE	Technical report consolidating the contribution of JRC to the CORE (FP7) project in 2018	30/04/2018	JRC Technical reports
															6	Requirements	Summary of requirements, specifications, and policy considerations	30/04/2015	JRC Technical reports
															7	Installation	Installation of sensors into SHCC and other containers	30/04/2016	JRC Technical reports
															8	Simulation	Simulation results from communications network	30/04/2017	JRC Technical reports
															760 - Tariff classification Development of analytical methods for tariff classification of food and consumer products	Within the remit of the current Memorandum of Understanding with DG TAXUD, JRC will support the Customs Laboratories European Network (CLEN) by the development of testing methods to classify bovine tripe according to their heat treatment and DNA-based assays to determine tobacco varieties produced in and imported into the EU market.	JRC.D.5 Maria Beatriz DE LA CALLE GUNTINAS	5.4.2.a	TAXUD
2	Report on classification of tobacco varieties	A report will be produced summarising the outcome of the study on DNA-based methods to identify tobacco varieties.	31/12/2015	Scientific and policy reports															

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1235 - DRAFT AMTSTEP 5 DRAFT AMTSTEP 5	This project develops and applies novel statistical methods and disseminates results via a purpose built web-based platform, THESEUS. It aims to advance and implement statistical state-of-the-art procedures for the detection of outliers & identification of clusters in complex trade datasets, maintain & improve the statistical software (ARIADNE) and web-based THESEUS, of storing and retrieving statistical signals detected by automated monitoring and statistical procedures on EU trade JRC.G.2	JRC.G.2 Spyros ARSENIS	5.4.2.a	OLAF	OLAF	SHAW Nicholas	TAXUD	Tech Serv - Member States and their Technical Services/type approval authorities	01/04/2015 31/03/2017	2-Information systems & services (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			COM-AA	1	Access THESEUS from AFIS	The deliverable reports on new features implemented in THESEUS to provide AFIS users with easy access to relevant signals and statistical information	31/12/2015	Scientific and policy reports
														2	New statistical models for complex trade data	Complex trade data are sets of COMEXT aggregates or Customs declarations manifesting difficult statistical patterns, which cannot be fit by a simple linear regression model. The deliverable consists of a summary with pointers to the peer reviewed scientific publications documenting the models proposed and implemented in the project	31/12/2016	Scientific and policy reports
														3	Deflection of trade and new fraud control problems	Deflection of trade (i.e. shipments being diverted through a third country or having the product code misdeclared to disguise the true origin) is an example of fraud control problem that can be possibly detected by appropriate matching of existing AMT signals (e.g. upward and downward level shifts). The deliverable reports advancements on the detection of this type of combined signals	31/03/2017	Scientific and policy reports
														4	Open AMT to analysis of EU-wide customs databases	EU-wide customs databases may become available to Commission, following revisions and extensions of mutual assistance agreements between the administrative authorities of MSs & the Commission (Reg 515/97). Through the web-based WebAriadne Commission and MS Customs can: 1. Interface with EU-wide databases. 2. Create datasets with custom excerpts of above data 3. Analyse above datasets with selected AMT statistical procedures. 4. Retrieve results for processing & anti-fraud investigations	31/03/2017	Scientific and policy reports
														5	Final report	The final report will summarize the main project achievements with pointers to relevant scientific publications and technical reports.	31/03/2017	Scientific and policy reports
1940 - CODA-5 Contraffric Customs Data Integration and Analysis	CODA-5 provides technical support to enhance the investigative capacity of national customs and in particular strengthen inspections of shipping containers through better risk analysis and targeting. The methods and tools involved are useful to a wide range of applications in the fight against fraud (involving the origin of goods and others).	JRC.G.3 Enrico CHECCHI	5.4.2.a	OLAF	OLAF	Jose Perdigao	TAXUD		30/07/2014 30/07/2015	2-Information systems & services (70%) 7-Scientific, technical & policy consultancy (30%)		297 - CONTRAFFRIC Contraffric - Container traffic monitoring and risk analysis	COM-AA	1	SAD Data Analysis service	This service will allow MS national customs authorities to establish and implement a collaboration with JRC&OLAF on the issue of analysis of the data contained in their Single Administrative Documents (SAD) import declarations. The aim of the analysis performed by JRC&OLAF on these data will be to identify potential irregularities related to the misdeclaration of the goods origin. JRC will provide the following functionalities: SAD Data Upload, SAD Data Analysis, Reporting of SAD Anomalies.	29/07/2015	Scientific information systems and databases
														2	Contraffric online services	The online Contraffric services will be provided, by means of a dedicated new web site, to authorized users. The services will allow users to have access to the various information stored or produced by the Contraffric system.	29/07/2015	Scientific information systems and databases
														3	Summary of SAD Analysis results	Technical report summarizing the SAD analysis performed and the findings of JRC.	29/07/2015	JRC Technical reports
2241 - CODA-6 Contraffric Customs Data Integration and Analysis	The project provides technical support to enhance the investigative capacity of national customs and in particular strengthen inspections of shipping containers through better risk analysis and targeting. The methods and tools involved are useful to a wide range of applications in the fight against fraud (involving the origin of goods and others).	JRC.G.3 Enrico CHECCHI	5.4.2.a	OLAF	OLAF	Jose Perdigao		Cust Aut MS - MS Customs Authorities	30/07/2015 29/07/2016	2-Information systems & services (70%) 7-Scientific, technical & policy consultancy (30%)		297 - CONTRAFFRIC Contraffric - Container traffic monitoring and risk analysis 1940 - CODA-5 Contraffric Customs Data Integration and Analysis	COM-AA	1	Contraffric online services	The online Contraffric services will be provided, by means of a dedicated new web site, to authorized users. The services will allow users to have access to the various information stored or produced by the Contraffric system.	29/07/2016	Scientific information systems and databases
														2	SAD Data Analysis service	This service will allow MS national customs authorities to establish and implement a collaboration with JRC&OLAF on the issue of analysis of the data contained in their Single Administrative Documents (SAD) import declarations. The aim of the analysis performed by JRC&OLAF on these data will be to identify potential irregularities related to the misdeclaration of the goods origin. JRC will provide the following functionalities: SAD Data Upload, SAD Data Analysis, Reporting of SAD Anomalies.	29/07/2016	Scientific information systems and databases
														3	Summary of SAD Analysis results	Technical report summarizing the SAD analysis performed and the findings of JRC.	29/07/2016	JRC Technical reports
5.4.2.b Capacity-building activities and efficiency of customs authorities (including customs officers' skills and training, e.g. in analytical methods) through customs pilot programmes to support customs policy and facilitate information sharing and exchanges between custom authorities.																		
384 - Contraffric-ENS Contraffric-ENS (Entry Summary Declarations) real time analysis for security and safety risk assess.	Evaluation of the potential contribution of CSM data (container status messages) to mitigate existing weaknesses in common pre-arrival security and safety risk assessment. The project is based on the Contraffric system and its CSM data. It is implemented in close collaboration with DG TAXUD and the customs authorities of 7 MS which will provide the pre-arrival data. The project is expected to have both legislative (Customs code) and non-legislative (WCO SAFE) follow-up and impact. Pilot project	JRC.G.3 Aris TSOIS	5.4.2.b	TAXUD	n/a	HORAN Colin	OLAF	Cust Aut MS - MS Customs Authorities WCO - World Customs Organization	01/09/2013 31/12/2015	2-Information systems & services (70%) 7-Scientific, technical & policy consultancy (30%)		103 - CONTAIN Container Security Advanced Information Networking - WP RTD 297 - CONTRAFFRIC Contraffric - Container traffic monitoring and risk analysis	INS-RS	3	Contraffric-ENS real time analysis - phase 2	Enhance the existing pilot software developed in the Contraffric-ENS project in order to satisfy the new requirements for CSM analysis identified during the project meeting with DG TAXUD and the participating MS Customs	21/12/2015	Scientific information systems and databases
														4	Contraffric-ENS 2: summary of results	Upon completion, author experience reports for one or more of the executed pilots including lessons learn and recommendations.	31/12/2015	Scientific and policy reports
2281 - CLEN2SAND Identification of New Psychoactive Substances (NPS) and unknown chemicals	Scientific and technical support by the Institute for Health and Consumer Protection (IHCP) of the Joint Research Centre (JRC) to DG TAXUD and the Customs Laboratories European Network (CLEN) for fast recognition of New Psychoactive Substances (NPS) and identification of unknown chemicals.	JRC.I.1 Claude GUILLLOU	5.4.2.b	TAXUD	TAXUD	ECICS, Coordination of European Customs Laboratories), Hervé SCHEPERS (Sector Head, ECICS, CLEN), Ize KLININGA (Head of	GROW HOME	Cust Aut MS - MS Customs Authorities EMCDDA - European Monitoring Centre for Drugs and Drug Addiction	01/07/2014 31/12/2015	1-Foresight studies & techniques (50%) 7-Scientific, technical & policy consultancy (50%)		606 - SAND Scientific Activity on New Drugs	COM-AA	1	Final activity report to DG TAXUD	Report on new scientific developments aimed to improve knowledge of NPS and unknown chemicals covering items like new analytical and informatics based approaches for the identification of new drugs, scientific tools for their classification as analogues of already controlled drugs also in the view to support the legitimate trade. The final report will present a summary of all the activities performed and should also make recommendations for the future.	31/12/2015	Scientific and policy reports
6 A Reasonable and Balanced Free Trade Agreement with the United States																		
6.1 Trade Policy																		
6.1.a Provide modelling and analytical support with regard to the socio-economic and environmental implications of trade policy, including via: the quantification of non-tariff barriers affecting EU exports of goods and services, assessment of standards and regulatory coherence with trading partners, and the analysis of the impact of the interaction between external trade and the functioning of the single market, notably on promoting employment.																		
919 - TRADELINKS Socio-economic and environmental impacts of trade	The project supports policy making by quantitative analysis and modeling of the socio-economic and environmental impacts of trade. It produces input-output data and models for the policy analysis of trade and analyses - the employment related to trade - the link of external trade and foreign investment flows to the value chains and employment in the single market - the position of industries/countries in global production - the effects of trade shocks - trade and emission responsibilities	JRC.J.5 Peter EDER	6.1.a	TRADE	n/a	Nuno Sousa, Lucien Cernat (DG TRADE.G.2)			01/01/2013 31/12/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	2	Refined trade block of the FIDELIO model	Disaggregation of the rest of the world for the trade block of the FIDELIO model	31/12/2015	Scientific information systems and databases
														1	Interim Report	An interim report describing the methodology followed and documenting the separate project steps including solutions to technical difficulties encountered.	30/04/2015	JRC Technical reports
2216 - EU-GTAP NEW: Improving European Input-Output Database for Global Trade Analysis: EU-GTAP	The objective is to ensure that the EC bases its trade modelling analysis on the most reliable and recent supply and use tables as inputs to its modelling tools, mainly the GTAP database. The main objective is the submission (to GTAP) of a set of Input-Output Tables for the 28 Member States for the latest available year under the new ESA10 methodology and in compliance with GTAP submission requirements.	JRC.J.5 Peter EDER	6.1.a	TRADE	TRADE	Nuno Sousa, Lucien Cernat DG TRADE G.2			01/11/2014 30/06/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	JRC.J.1	919 - TRADELINKS Socio-economic and environmental impacts of trade	COM-AA	2	DATAs to GTAP	DATAs to be sent by IPTS to GTAP	15/12/2015	Scientific information systems and databases
														3	Final Report	A final report taking into account all comments received from DG TRADE including all supply, use and IO tables for the 28 EU Member States for the year 2010 in a GTAP compatible format. The final report should include a discussion on the results and an executive summary.	30/06/2016	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
7 An Area of Justice and Fundamental Rights Based on Mutual Trust																		
7.1 Justice, Consumers and Gender Equality																		
7.1.1 Justice and gender equality																		
7.1.1.a Accompanying measures to the implementation of the data protection reform, focusing on improving personal data protection online as well as the cooperation between data protection supervisory authorities. Conduct research on ethical issues arising from the development and deployment of information- and communication technologies.																		
567 - PDPM Privacy and Data Protection Measures	Support to the current and forthcoming EU Data Protection legislative framework, notably: (1) Definition of easy-to-understand and trustworthy data protection classification for digital services; (2) cost effective tools to support cooperation between data protection Authorities, in the context of a pan-European data protection infringement; (3) EU "privacy seal" certification scheme and (4) deployment of privacy analysis and enhancement tools in the mobile service domain.	JRC.G.6 JOSE IGNACIO SANCHEZ MARTIN	7.1.1.a	JUST	n/a	Bruno GENCARELLI (HoU - DG JUST.C9)	CNECT	EP - European Parliament MS EU - Member states EU	01/01/2014 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)	JRC.G.5	INS-RS		3	Results of the DP infringement exercise	The report will present the results of the execution of the EU data protection infringement exercise. It will include lessons learned and recommendations for improving notification and collaboration amongst National Authorities (and other stakeholders), thereby enhancing preparedness and mitigation of the impact of such events.	30/09/2015	JRC Technical reports
														4	PET for cloud services and big data handling	The study will explore the practical usage of Privacy Enhancement Technologies (PET) for the support of the privacy goals of anonymization and decentralized processing of personal data in the context of cloud services and big data handling. The study will include the development of Proof of Concept open-source solutions of PET aimed at protecting the privacy of the individuals using the products or cloud services.	30/11/2016	JRC Technical reports
														5	Secure exchange of information among DPAs	This technical report will detail the design and development of a practical cost effective solution for the agile secure exchange of information among European Data Protection Authorities in the event of a pan-European Personal Data Breach. A proof of concept solution will be implemented and tested by the Data Protection Authorities interested in joining the initiative.	15/11/2015	JRC Technical reports
														6	Prototype for sharing info on Data Breach events	Design and development of a proof of concept european platform for sharing of information about Personal Data Breaches events. The platform will be designed following the principles of Privacy by Design and Security by Default as well as the specific privacy requirements that will be identified from the Data Protection Authorities as part of the pan-European Data Breach Exercise activity.	30/11/2016	JRC Technical reports
														7	Trustworthy classification and rating systems	Development of a data protection rating system for online services helping end-users to understand the level of compliance with the current DP Regulation. Development of technical means to support the creation of a citizen-driven privacy rating service, supported by a community of experts, to evaluate the level of privacy of services offered by service providers (i.e. similar to Tripadvisor).	15/12/2016	JRC Technical reports
														8	Privacy Analysis and Enhancement Tools	To support the community-driven privacy rating initiative, this action aims at developing privacy analysis and enhancement tools to be used by citizens. These tools will empower citizens in taking control of their privacy and to support citizen communities in the analysis of the privacy of digital services, including mobile applications.	15/12/2016	JRC Technical reports
568 - TRUDI Building Trust in Digital Interactions: Citizens, Institutional and Corporate Ethics	The Commission is moving forward with the digital single market and key digital market initiatives will be adopted in 2014, i.e. the Data Protection Reform. Research on ethical approaches for improving trusted digital interactions. Nurturing trust requires multi-layered, technical and non-technical ways of interweaving the social digital fabric: institutional ethics and digital memories, organized citizens' vigilance to support corporate responsibility, international data sharing.	JRC.G.6 SUSANA FIGUEIREDO DO NASCIMENTO	7.1.1.a	JUST	n/a	Mr. Paul NEMITZ - DG JUST C Director	BEPA CNECT		01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		INS-RS	5	Open Access and Open platforms	Continuation of research on open access and open platforms to nurture citizen's trust in the digital fabric, notably focusing on the technical and sociological assessment of current technologies and platforms of digital fabrication laboratories ("FABLabs") and other makerspaces, their connections with the internet-of-things trend, and their capacity to enhance innovation and empower citizens.	15/12/2015	Scientific and policy reports	
													6	Improving Digital Trust with ethical principles	Recommendations for nurturing trust building on the digital agenda adopted policies while enhancing democratic digital interactions: e.g. citizens' involvement in designing the values embedded in information systems and services as well as their implementation and management; investigate duties-to-know for ICTzens and designers' values and ethics; analysis of legitimate citizens' self-organised digital initiatives to ensure institutional and corporate compliance with ethical and social goals.	15/12/2016	Scientific and policy reports	
7.1.2 Consumer policy and consumer rights																		
7.1.2.a Analysis of the role of information and communication technologies and behavioural determinants in empowering consumers.																		
1024 - COIN_SANCO Consumer Conditions and Markets	The goal of this project is to extend and revise the statistical indicators, the methodology, and presentation of information that underpin the Consumers Conditions Scoreboard and the Consumer Markets Scoreboard, and to put these in the broader context of internal market integration. Micro-data from ad hoc surveys at individual/household level will constitute the bulk of input to the analysis.	JRC.DDG.01 Michaela SAISANA	7.1.2.a	SANTE	SANTE	Dionisie Valeriu Dan			01/08/2013 01/08/2015	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			102405	Issue paper on Consumer Market - micro data	Issue paper for consultation with stakeholders (consumer experts in Member States and relevant DGs) containing the literature review on micro-data analysis at the household level and proposals for developing composite indicators.	30/03/2015	JRC contributions to policy documents	
													102406	Final report on the Consumer Market Scoreboard	A final report with suggestions on: (a) improving the indicators (and suggesting new ones), (b) developing composite indicators measuring specific aspects of consumer market conditions and refining the Market Performance Indicator, (c) the application of suitable statistical methods at the micro data level and interpreting the results, providing data-driven evidence for drawing policy conclusions and (d) improving the presentational issues of the Consumer Markets Scoreboard.	30/07/2015	Scientific and policy reports	
1739 - BESTEP II BESTEP II Behavioural Studies for European Policy	The purpose is to facilitate the running of behavioural studies in support of EU policy-making. The IPTS provides support to Commission services on the design, implementation, management and analysis of behavioural studies conducted under the Framework Contract for Behavioural Studies. Work packages include a workshop, a report, and continuous technical support.	JRC.J.3 Rene VAN BAVEL	7.1.2.a	JUST	JUST	Emanuele Ciriolo, DG SANCO	JRC		01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)			2	Annual report on FWCBS Activities	Support to the Framework Contract for the Provision of Behavioural Studies (FWCBS)	28/02/2015	JRC Technical reports	
													3	Final report on FWCBS Activities	final report on FWCBS (framework contract for the Provision of Behavioural Studies) Activities	28/02/2015	JRC Technical reports	
2700 - BEHAVE Behavioural insight for EU policy making	The project aims at devising strategic orientations for a better integration of behavioural insights into policy making at EU level. It involves a consolidation of the experience within and outside the Commission and an analysis of the potential of BI to bring a real added value in different contexts. The outcome will contribute to raising awareness and start a joint behavioural study involving Member States.	JRC.DDG.02 Xavier TROUSSARD	7.1.2.a	JUST	n/a	CIRIOLO Emanuele			01/01/2015 31/12/2015	4-Methods and testing (100%)			INS-RS	1	Behavioural insight for the EU policy making	The report will inform programming of behavioural research in JRC.	31/12/2015	Scientific and policy reports
7.1.2.b Harmonised methods and scientific guidance for the chemical safety of non-food consumer products.																		
697 - GPSD Consumer Product Safety and Market Surveillance	Development of scientific evidence in the field of consumer policies. Prenormative research providing harmonized guidance for the chemical safety of non-food consumer products (e.g. household products, childcare articles, toys). Activities include the harmonization of testing methods to proof compliance with legislative requirements and monitoring health-relevant chemicals. The products emission umbrella concept and test scenarios of the EPHECT project funded by DG SANCO will be used.	JRC.I.1 Josefa BARRERO	7.1.2.b	JUST	n/a	LAURILA Maija - Maija.Laurila@ec.europa.eu	FISMA GROW	CEFIC - European Chemical Industry Council (CEFIC) CEN - European Committee for Standardization ISO - International Organization for Standardization (ISO)	01/01/2014 31/12/2016	1-Foresight studies & techniques (40%) 5-Monitoring, verification and surveillance (60%)			INS-UR	4	Consumer safety protection applied to textiles	Following a process of prioritisation done in collaboration with DG SANCO B3 a feasibility study on intelligent textiles for medical application, health care and personal protective clothing will be provided.	20/12/2016	Scientific and policy reports
														5	Testing methods for enforcement needs	Consumer safety and effective market surveillance relies on the availability of testing methods to enforce legislation. A scoping document on the need of appropriate testing method in selected product categories will be developed. At a later stage follow up steps will be decided including possible need on method development and harmonisation.	19/11/2015	JRC Technical reports
														6	Report: Repeatability of in use product tests	One of the main outcomes of the EPHECT stakeholder meeting that concerns the lack of information on repeatability of test scenarios for product use. Laboratory work will focus on testing creams and spray products that have been identified within EPHECT as complex products for emission testing in terms of repeatability/reproducibility of test scenarios for spray products/cream products.	12/12/2015	Scientific and policy reports
														7	Guidelines: chem released from consumer products	After a prioritisation process testing guidelines to support SMEs for assessing the safety of their products in terms of chemicals release prior to the launching on the market will be developed. These guidelines shall include the analysis of the production process and the identification of critical production steps responsible for chemicals release.	12/06/2016	Scientific and policy reports
														8	Investigation of carbonyl emissions from e-cigarette	After investigation on vaporizing/heating conditions occurring in e-cigarettes, the formation of carbonyls will be studied in order to determine conditions (temperature) at which emissions are lowest	30/11/2015	Scientific and policy reports
2207 - TATTOOS Tattoos/permanent make-up	The main goal is to provide scientific/technical support to DG SANCO to prepare a Comitology measure to be adopted under Article 13 of the GPSD and possible future EU legislation on the requirements for tattoos inks. Chemical, hygiene, biological and health risks shall be taken into consideration for the following specific objectives: 1.Establishment of the state of play; 2.Assessment and update of the CoE Resolution (2008) 3.Conclusions: identification of the elements to be	JRC.I.1 Paola PICCINI	7.1.2.b	JUST	JUST	LAURILA MAIJA - Maija.Laurila@ec.europa.eu		MS EU - Member states EU	01/07/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Report on all tasks and findings under package 1	Report including a regulatory review of legislative framework in MS and a collection of existing test methods that could be used for the implementation of a possible 'emergency measure' to be adopted under Article 13 of GPSD	31/01/2015	Scientific and policy reports
													2	State of play	The report will include information regarding statistics about % of tattooed person, ink market and chemicals present in inks.	31/05/2015	Scientific and policy reports	
													3	Update of restricted substances in tattoo inks	Assessment and update of list of restricted substances in tattoo inks. The report will include a review of health effects and risks linked to tattoos and permanent make-up, as well as information about risk perception and communication and data gaps and research needs.	30/11/2015	Scientific and policy reports	
													4	Final report	The document will include the conclusions out of the gathered information, best practices and, in due course, lessons learnt from the implementation of the envisaged GPSD Article 13 measure	31/12/2015	Scientific and policy reports	

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8 Towards a New Policy on Migration																			
8.1 Migration, Home Affairs and Citizenship																			
8.1.a Tools and methodologies (including biometrics) for enhancing the effectiveness and interoperability of technical systems aimed at monitoring, detecting, identifying, tracking, preventing and intercepting illegal border crossings and illegal travel documents; detection of substances and objects to ensure border security, including work on novel concepts, methods and systems to enhance the surveillance of the EU maritime borders.																			
103 - CONTAIN Container Security Advanced Information Networking - WP RTD	CONTAIN is a large FP7 project aimed at demonstrating a European Shipping Containers Surveillance system in a global context which will encompass regulatory, policy, new business models and advanced container security management capabilities. JRC is mainly involved with its ConTraffic technology on demonstrating how authorities, and other stakeholders, can benefit from risk indicators computed based on Container Status Messages exchanged through the CONTAIN common platform.	JRC.G.3 Aris TSOIS	8.1.a	HOME	GROW	Paolo SALIERI	HOME MARE TAXUD		01/10/2011 31/03/2015	7-Scientific, technical & policy consultancy (100%)			COM-IA	2	2015 JRC contribution to CONTAIN	This report will provide a compilation of all the contributions provided by JRC to the FP7 CONTAIN project funded by DG ENTR. This includes mainly the work done in WP4 and WP5 in the form of contribution to project deliverables and to the demonstrators.	30/05/2015	JRC Technical reports	
295 - MARSEC Maritime Security	Addressing key internal and external maritime security challenges to enhance maritime situational awareness (what's happening at sea). Conceiving maritime surveillance solutions for the different sectors. Research in analysis of satellite images, maritime data fusion, and threat detection. Initiation of competitive projects, retention and exploitation of their results. Output is advice, analyses, studies, responses to ad-hoc requests by policy, and contributions to maritime security strategy.	JRC.G.3 Herman VAN WIMERSMA GREIDANUS	8.1.a	HOME	n/a	Maciej MADALINSKI (DEVCO), Paolo SALIERI (ENTR), Marcus HOUBEN (EEAS), Robert MISSEN (MOVE), Oliver SEIFFARTH (HOME), Vytautas LUKAS (Frontex), Beate GMINDER (MARE)	DEVCO GROW MARE MOVE RTD	ESA - European Space Agency - Italia EDA - European Defense Agency EEAS - European External Action Service EMSA - European Maritime Safety Agency EUSC - European Union Satellite Centre FRONTEX - European Agency for the Management of Operational Cooperation IMO - International Maritime Organization (IMO)	01/01/2014 31/12/2016	1-Foresight studies & techniques (10%) 2-Information systems & services (20%) 7-Scientific, technical & policy consultancy (70%)			27 - I2C IS for Interoperable sensors & Information sources for Common abnormal vessel behaviour & Collaborat 28 - SEABILLA Sea Border Surveillance 60 - NEREIDS New Service Capabilities for Integrated and Advanced Maritime Surveillance 294 - HUBBLEU Blue Hub	1	Technological advice and concept development	Scientific and technical advice to requests from relevant EU institutional customers in charge of maritime security policy development (ENTR, MARE, MOVE, HOME, DEVCO, or EEAS). This may take the form of technology briefings, reviews, validation and verification work for relevant EU projects, cost-benefit analyses, contributions to strategies, or outreach activities. Upon request, development of concepts for maritime security solutions for the different sectors.	15/12/2016	JRC contributions to policy documents	
														5	Sentinel-1 maritime surveillance - Testing	In 2015 Sentinel-1 is expected to be actually available. It will be used in a campaign for ship detection and classification to quantify its performance. Ship detection and classification algorithms developed under 2014-D2 will be used. With this knowledge, it will be possible to decide how to use this operational Copernicus sensor in EU applications of maritime border security, fisheries control, and other sectors requiring maritime surveillance.	30/11/2015	Scientific and policy reports	
														6	Maritime surveillance R&D	Analysis of the previously developed methods (improved detection, classification and tracking applied also on Sentinel-1) on large stacks of historical data, e.g. ESA archives, in-house repositories to extract information on activities at sea and non-cooperative maritime traffic information at European and global scale. The results shall complement maritime patterns discovery from ship reporting data.	01/12/2016	Scientific and policy reports	
														7	Global maritime surveillance	While part of maritime security is being operationalised in the EU (Agencies), COM and EEAS show a rising interest in "global" aspects of maritime awareness, relating to global threats. Special interest: on Africa and the Arctic; on support to the new EUMSS; on networking with international partners; and on exploring novel sensor concepts, especially space-based, that show promise for cost-effective global reach for maritime surveillance.	30/11/2016	Scientific and policy reports	
296 - IN-SENS Innovative sensors	Underpinning research in innovative concepts for maritime surveillance. Includes new sensors incorporating active and passive radar and radio location capability development. Design and application of innovative sensor networks for detecting small targets. Laboratory and field experiments. Technology transfer activities.	JRC.G.3 Dario TARCHI	8.1.a	HOME	n/a	Christine BERG (MOVE), Oliver SEIFFARTH (HOME)	GROW MOVE	FRONTEX - European Agency for the Management of Operational Cooperation MS Border Sec - MS Border and other Security Authorities	01/01/2014 31/12/2016	2-Information systems & services (25%) 3-Instrumentation & hardware (50%) 7-Scientific, technical & policy consultancy (25%)			295 - MARSEC Maritime Security	3	Scientific publications	Paper submission to peer-reviewed journals, reports and international conferences in image and signal processing (object detection enhancement, object classification), sensor development (new techniques for radar processors, waveform analysis), multi-target tracking and labelling, analysis of algorithms using MIMO radars in maritime scenarios with low signal-to-noise ratio and specific focus on small maritime targets.	31/12/2016	Article contribution to other peer-reviewed periodicals	
														4	Specification of TERMS	Final specification of the TETHERED Radar for Maritime Surveillance (TERMS) system based on the use of radar sensors (optionally in combination with EO sensors) on an aerial tethered platform for persistent surveillance and small boats early detection. Includes testing of hardware systems components in the laboratory, development and verification of relevant signal processing and analysis algorithms.	15/12/2015	Technical systems	
														5	Radiolocation techniques	Specification of an operational system for AIS positional information verification (AIS anti-spoofing system). This will include the following main elements: multi-lateration and tracking algorithms, operational requirements for real-time application, tools for the simulation of performances, specific requirements for the extension of the technique at regional level, investigation of possible applications of RF fingerprinting techniques.	30/06/2015	Technical systems	
														6	Demo activities of innovative sensors/techniques	New systems and techniques will be extensively tested in collaboration with relevant National Authorities in the field, in near-real-world scenarios. This will include in particular the techniques for the verification of AIS reporting at national and regional level as well as the TERMS tethered radar system.	31/12/2016	Scientific and policy reports	
														7	Passive radar applications	Specification of radar systems for maritime applications to improve over-the-horizon (OTH) and vessel classification capabilities. This will consider the passive radar concept in combination with AIS and improved algorithms exploiting 3D-Inverse SAR technique and/or autofocus. Possible implementation on the TERMS system will be also considered. Proof of concept for the new sensors and validation experiments in the laboratory.	30/06/2016	Technical systems	
566 - BBM Biometrics and Border Management	The project supports the roll-out and improvement of biometrics in large-scale ID systems such as those used in border management (i.e. VIS, SIS2, EURODAC). The introduction of such systems still presents important technical challenges with regards to quality, security and privacy issues, which will be addressed by the development of tailored evaluation platform, reference methods and test protocols.	JRC.G.6 Laurent BESLAY	8.1.a	HOME	n/a	Rob ROZENBURG (HoU - Home.C.3)		EP - European Parliament FRONTEX - European Agency for the Management of Operational Cooperation	01/01/2014 31/12/2015	7-Scientific, technical & policy consultancy (100%)			INS-RS	3	EU security data-sets laboratory	Set-up and launch of an EU biometric data-set laboratory, following the preparatory study of 2013. This laboratory will provide an independent test platform for biometric applications, compliant with the relevant EU regulatory framework implementing the highest safeguards for security and data protection principles.	01/10/2015	Validated methods, reference methods and measurements	
														4	Ageing effects: experiment and validation	Following Deliverable 1, results on tests conducted on the newly acquired Portuguese database. Tests will be focused on elderly population and will address the aspects performance prediction, algorithm dependencies and quantification of age dependence. Furthermore, the test will be complemented by a set of targeted experiments with volunteers of that age group to validate results from production data. Practical recommendations shall be derived for the biometric enrollment within that age group.	01/12/2015	Validated methods, reference methods and measurements	
718 - FastPass FASTPASS	FastPass will establish and demonstrate a harmonized, modular approach for Automated Border Control (ABC) gates. A demonstration and evaluation at all types of border (air, land and sea) will be implemented in at least three different member states. Compliance with European societal values and citizens' rights is central to the acceptance of the developed technologies, and will accompany the development and end-user interaction throughout the project.	JRC.G.6 Guenter SCHUMACHER	8.1.a	HOME	GROW	Paolo SALIERI, DG HOME - B4	HOME	- RESEARCH EXECUTIVE AGENCY - AGENCE	01/01/2013 31/12/2016	3-Instrumentation & hardware (30%) 4-Methods and testing (70%)				COM-IA	3	Privacy Impact Evaluation	The report shall prepare for the Privacy Impact Assessment of the three FastPass demonstrators. The evaluation shall focus on each installation separately but will also derive and highlight common patterns in order to serve as basis for future Automated Border Crossing implementations.	15/12/2015	JRC Technical reports
															4	Evaluation Methodology	The report shall describe the detailed evaluation methodology used for the FastPass demonstrators. Evaluation will be done against the FastPass requirements captured earlier in the project.	30/06/2015	JRC Technical reports
															5	Security Assessment	Based on the developed security assessment methodology, the report will summarize the results of the security assessment of the three FastPass demo installations, based on the available design documents and the final version of the security targets.	15/12/2016	JRC Technical reports
															6	Evaluation Report	The report shall describe the evaluation result for the three FastPass demonstrators according to the evaluation methodology set out earlier. It will also capture important lessons learnt during the project in terms of best practices.	15/12/2016	JRC Technical reports
719 - FIDELITY FIDELITY Fast and trustworthy Identity Delivery & check with ePassports leveraging Traveler privacy	Participation to the FIDELITY project as a member of its Scientific Advisory Board. The objective of FIDELITY is to demonstrate solutions for fast, secure and efficient real-time authentication of individuals at border crossings, while protecting individual privacy. The project will help increasing the privacy and safety of personal information contained within the chips of ePassports and provide recommendations for securing breeder and travel documents issuing processes.	JRC.G.6 Jan LOESCHNER	8.1.a	HOME	GROW	Cathrin BAUER-BULST, DG HOME - D2			01/02/2013 31/01/2016	7-Scientific, technical & policy consultancy (100%)			COM-IA	2	2015 JRC Contribution to FIDELITY SCA	Short report on JRC contribution to the Scientific Advisory Board of FIDELITY for the year 2015	15/12/2015	JRC Technical reports	
														3	2016 JRC Contribution to FIDELITY SCA	Short report on JRC contribution to the Scientific Advisory Board of FIDELITY for the year 2016	15/12/2016	JRC Technical reports	
1880 - DRAFT MARHOME 2 DRAFT Maritime Affairs Unit support to EUROSUR	This policy support work comprises: i) Specific support to assess "surveillance tools" developed in the framework of EUROSUR; ii) Ad hoc technological advice to FRONTEX; iii) Specific support for demonstration of technologies for maritime policing.	JRC.G.3 Guido FERRARO DI SILVI E CASTIGLIONE	8.1.a	HOME	HOME	Oliver Seiffarth			01/01/2015 31/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	Final report	Final report for the customer	27/11/2015	Scientific and policy reports	
2188 - ORIGINS DRAFT - ORIGINS - Secure organization processes for the issuing of breeder documents	Participation to the ORIGINS project as a member of its Scientific Advisory Board. The project is devoted to study and improve the issuing process of breeder documents in particular to secure European Breeder Documents.	JRC.G.6 Jan LOESCHNER	8.1.a	HOME	GROW	n/a			01/01/2015 31/12/2017	7-Scientific, technical & policy consultancy (100%)			COM-IA	1	2015 JRC Contribution to ORIGINS Advisory Board	Report on JRC contribution and networking activities to the scientific Advisory Board of ORIGINS for the year 2015	15/12/2015	JRC Technical reports	
														2	2016 JRC Contribution to ORIGINS Advisory Board	2016 JRC Contribution to the ORIGINS Advisory Board	15/12/2016	JRC Technical reports	
														3	2017 JRC Contribution to ORIGINS Advisory Board	Report on JRC contribution and networking activities to the scientific Advisory Board of ORIGINS for the year 2017	15/12/2017	JRC Technical reports	
2802 - Sup-LP DRAFT - Support to the implementation of the EU Laissez-Passer	Direct support to DG HR in the implementation and deployment of the Public Key Infrastructure (PKI) required to implement the EU Laissez-Passer. It also includes support to the definition, design and procurement phase as well as the design and possible set up of the root certification authority (CSCA) and the trusted distribution of the CSCA public key through internationally recognized mechanisms for the smooth operation of the EU laissez passer for all EU institutions.	JRC.G.6 Antonia RANA	8.1.a	HR	n/a	Natalie CRESTE (HR.B.ADV01)	DEVCO		01/01/2015 30/12/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	1	EU-LP Root Certification Authority	Specifications of a new EU-LP Country Signing Certificate Authority (CSCA) signature infrastructure, and possible implementation, so as to be ready to sign the certificates for the new EU LP. Design and deployment of the infrastructure, definition of the certificate policy and key distribution mechanism. Report on support to DG HR.	31/10/2015	Scientific and policy reports	

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8.1.b Analyses, preparedness exercises, information-sharing platforms, risk and impact assessment aiming to improve the security and resilience of critical infrastructures.																		
167 - CIPS 2011 CIPS 2011	Support to DG HOME and to MS for: Preparation of the review of Directive 2008/114/EC Continuation of the establishment of voluntary E.U. Reference Network for Critical Infrastructure Protection (ERN-CIP) Identity management frameworks for Critical Infrastructure including people, objects and processes of Identification Communication and Navigation Infrastructure Protection	JRC.G.5 Marc HOHENADEL	8.1.b	HOME	HOME	DG.HOME.A1.002	CNECT ENER MOVE	MS EU - Member states EU	24/04/2012 23/04/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	3	Report on results of the ERN-CIP Operation phase	The report will provide an evaluation of the ERN-CIP network's performance after 2 years of activity and recommendations for the continuation of its operation.	20/04/2015	JRC Technical reports
														4	Methodology for GNSS Security management	Report on the impact assessment of "GNSS outage on communication infrastructure" and related preparedness and mitigation guidelines. Initially to be developed as best practice, the result could be proposed as a candidate for relevant national or international standards	20/04/2015	JRC Technical reports
														5	Implementation of risk assessment methodologies	Activity A1: Support to DG HOME and to MS for the preparation of the review of Directive 2008/114/EC starting in 2012 It provides the scope of a report that will describe a risk assessment process for CIs based on the staff working document from DG ECHO namely "Risk Assessment and Mapping Guidelines for Disaster Management" and DG HOME "on a new approach to the European Programme for Critical Infrastructure Protection Making European Critical Infrastructures more secure". (see CIPS progress rep)	23/04/2015	Scientific and policy reports
														6	Support to pilot projects	Activity A1: Support to DG HOME and to MS for the preparation of the review of Directive 2008/114/EC starting in 2012 Details of this support has to be clarified with DG HOME (as of June 2014)	23/04/2015	JRC Technical reports
														7	Further development of the GRRASP platform	Activity A6: Scientific and methodological support to MSs on the identification of European Critical Infrastructures Further improvement of the Geospatial Risk and Resilience Analysis Platform (GRRASP) system in accordance with the CIPS 2011 progress report of 1st quarter 2014	23/04/2015	Scientific information systems and databases
														8	Analysis of selected case studies of critical infr	Activity A6: Scientific and methodological support to MSs on the identification of European Critical Infrastructures Details to be defined with DG HOME (as of June 2014)	23/04/2015	JRC Technical reports
186 - CIPRNET Critical Infrastructures Preparedness and Resilience Research Network	Co-funded by: EU FP7 Instrument: Network of Excellence (NoE) Start date: March 1, 2013 Duration: 48 months Partners (beneficiaries): 12 Lead partner: Fraunhofer Gesellschaft zur Förderung der Angewandten Forschung E.V. Proposal number: 312450 JRC as a full partner but not with a major role (i.e. not being a WP leader but participating in all but WP1)	JRC.G.5 MARIANTHI THEOCHARIDOU	8.1.b	HOME	GROW	Torben Fell	ECHO	FGFAF - Fraunhofer Gesellschaft zur Förderung der Angewandten Forschung E.V.	01/03/2013 27/02/2017	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		167 - CIPS 2011 CIPS 2011	COM-IA	1	Decision Support System for CIPRNET web portal	The CIPRNET web portal will include an inventory of CIP knowledge and expertise as well as a CIP resource integration strategy and implementation plan, developing a Virtual Centre of Competence and expertise in CIP.	31/07/2016	Training
														2	Interactive tool for end-user support	This tool, implemented through the web portal of the system, will allow a continuous information flow, both public and confidential, between the "experts" of the Network, end-users and stakeholders	15/01/2016	Training
														3	Design of Modeling, Simulation & Analysis tools	The work package aims at developing a "what if" analysis capability for exploring different courses of action, drawing on the work of the FP6 DIESIS project. JRC contributes to all phases of the project	16/01/2015	Scientific and policy reports
														5	Project textbook	The work package aims at guaranteeing an adequate visibility of CIPRNET and rapid dissemination of its results within the R&D communities involved in the different CIP topics. The "textbook" will be an assembly of the material produced.	28/02/2016	Scientific and policy reports
858 - BUILT-CIP Protection and resilience of built critical infrastructure to man-made hazards	The resilience of built environment, including critical buildings and transportation and energy infrastructure, will be considered under catastrophic events such as blast and impact. Their capability of maintaining a certain functionality and their time to full recovery will be assessed. Performance level criteria and metrics for resilience will be formulated and eventually proposed for guidelines. Both numerical modelling and laboratory testing of structural components will be pursued.	JRC.G.4 George SOLOMOS	8.1.b	HOME	n/a	Ms. Eva-Maria Engdahl	ECHO GROW MOVE OIB	- Direction of Military Applications (CEA) NIST - National Institute of Standards and Technology CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives CEN - European Committee for Standardization	01/01/2014 31/12/2016	4-Methods and testing (70%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (30%)		610 - ELSALab ELSA Laboratories: Reaction Wall and HOPLAB facilities 866 - ERNCIP Security testing, standardisation and facilities inventory 871 - SIMUL-CIP Advanced computer simulations for Critical Infrastructure Protection under explosion loads	INS-RS	4	Impact behaviour of concrete components	Dynamic pull-out tests of reinforcing bars in concrete will be conducted at the JRC Hopkinson Bar apparatus. The behaviour of these elements under severe impulsive loading will be assessed for several concrete grades and configurations in collaboration with European University partners	30/06/2015	Article contribution to conference proceedings published in a periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														5	Blast Simulator test and assessment of performance	The Blast Simulator, based on linear electric motors, will be mechanically fine-tuned. Tests representative of explosive loading of columns and of other structural elements will be conducted. Their results will be critically analysed and evaluated in order to assess the performance of the facility.	30/09/2015	JRC Technical reports
														6	Structural resilience requirements	A proposal for minimum resilience requirements in built infrastructure will be prepared. It will include performance level criteria and metrics, and among others it will consider existing and new structures, considerations of associated costs for upgrading/retrofitting and/or restoring full capacity and functionality following a disaster.	15/12/2015	Scientific and policy reports
														7	Workshop on structural resilience	A workshop will be organised concerning resilience requirements in built infrastructure. Reporting with considerations on drafting together with external experts relevant guidelines. An all-risk approach is deemed appropriate and collaboration with other organisations will take place. Incorporation of the JRC results is foreseen and performance level criteria and metrics will be included in a holistic approach.	15/12/2016	Scientific and policy reports
866 - ERNCIP Security testing, standardisation and facilities inventory	The project will collect testing gaps and needs, identify promising areas for the development of standards, test protocols, and certification procedures, and bring together suppliers and users to carry out this development. It also involves the creation and population of an inventory of test facilities, and development of a software platform to enhance the use of this inventory.	JRC.G.5 Neil MITCHISON	8.1.b	HOME	n/a	Eva-Maria Engdahl	CNECT ECHO GROW MOVE		01/01/2014 31/12/2016	4-Methods and testing (50%) 7-Scientific, technical & policy consultancy (50%)		167 - CIPS 2011 CIPS 2011 186 - CIPRNET Critical Infrastructures Preparedness and Resilience Research Network	INS-RS	5	2nd ERNCIP Conference (2014) proceedings	Compilation of contributions to and conclusions from the 2nd ERNCIP CIP-related security testing conference, building on success of 1st ERNCIP Conference (Dec 2012)	30/06/2015	JRC Technical reports
														6	The ERNCIP book	ERNCIP Thematic Group (TG) – Compendium of Security Testing Guidelines - 1st release.[]	31/10/2015	Monographs with JRC editorship
														7	Output of the ERNCIP review for 2011-2015	Final report of the whole ERNCIP project from February 2011 to April 2015. It will include the progress reports of the previous years plus deliverables and lessons learnt from the final year, as well as recommendations for continuation.	30/04/2015	JRC Technical reports
														8	IT Platform for inventory users	Prototype IT platform for Inventory users. New services will be combined with the existing inventory of the facilities integrating other software applications.	30/06/2016	Scientific information systems and databases
														9	ERNCIP IT Platform	The ERNCIP IT Platform will contain the ERNCIP Project and the ERNCIP Inventory of labs, as well as a collection of related standards and good testing practice.	28/02/2015	Scientific information systems and databases
871 - SIMUL-CIP Advanced computer simulations for Critical Infrastructure Protection under explosion loads	The protection of the built infrastructure and of the citizen against terrorist acts will be effectively aided by advanced numerical simulations which allow the reliable reproduction of the structural response to severe loads due to explosions and impact. The vulnerability of mass transport systems and urban centres will be assessed under several bombing attack scenarios, using efficient approaches and new features in EUROPLEXUS, the code jointly developed by JRC and the CEA.	JRC.G.4 George SOLOMOS	8.1.b	HOME	n/a	Ms. Eva-Maria Engdahl	ECHO GROW HR MOVE OIB	- Direction of Military Applications (CEA) CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives EDF - Electricité de France FGFAF - Fraunhofer Gesellschaft zur Förderung der Angewandten Forschung E.V. UIC - International Union of Railways (UIC) UITP - International Association of Public Transport (UITP)	01/01/2014 31/12/2016	4-Methods and testing (65%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (35%)		858 - BUILT-CIP Protection and resilience of built critical infrastructure to man-made hazards 866 - ERNCIP Security testing, standardisation and facilities inventory	INS-RS	3	Protection strategies of critical infrastructures	Conclusions and recommendations of a workshop with European experts which will be held for the protection and mitigation of effects of impact and explosion on physical critical infrastructure. This should be a kick-off event in order to initiate the work of drafting relevant guidelines in a collaborative European effort.	30/06/2015	Scientific and policy reports
														4	Improved human injury models and protection	A critical review of existing models for the assessment of human injuries due to blast waves will be made. Their extension to include the secondary injuries due to impact by flying fragments will be formulated, and the model will be implemented in EUROPLEXUS. The protective effects of innovative materials will be examined	15/12/2015	JRC Technical reports
														5	Guidelines for built CIP against explosions	A first draft of the guidelines concerning the protection of built infrastructure against impact and explosions should be written in a collaborative effort of European experts and the JRC.	15/12/2016	JRC Technical reports
														6	Large simulations of explosions in urban centres	Large-scale simulations will be carried out for assessing explosion effects in urban areas. The effects on building structural members, glass and windows will be determined. Estimates of human injuries will be made, and protection measures for urban centres will be proposed.	15/12/2016	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
984 - CIP-RNH Resilience of critical Infrastructures to natural hazards	To reinforce the resilience of critical infrastructures towards natural hazards (primary source of disruption and destruction of large networked critical infrastructures) by improving prevention and preparedness capacities. It aims at the development of methodologies and tools to analyse risks and impacts of natural hazards taking advantage of lessons learned after recorded disasters and also continues and extends the JRC experience on natural hazard triggering technological disasters (Natech)	JRC.G.5 Elisabeth KRAUSMANN	8.1.b	HOME	n/a	HOME.A.1.002	ECHO ENER ENV	CC EU - Candidate Countries EU MS EU - Member states EU OECD - Organisation for Economic Co-operation and Development (OECD) UNEP - United Nations Environment Programme (UNEP)	01/01/2014 31/12/2016	2-Information systems & services (45%) 4-Methods and testing (10%) 7-Scientific, technical & policy consultancy (45%)		1001 - CIP-REAL Resilience analysis of critical Infrastructures 1059 - STREST Harmonized approach to stress tests for critical infrastructures against natural hazards	INS-RS	5	Risk assessment and mapping tool RAPID-N Version 2	Improvement of the JRC's tool for rapid Natech risk assessment and mapping for earthquakes based on user feedback, and integration of floods as accident trigger to reflect the high incidence of flood-triggered Natech accidents. Beneficiaries are DG HOME, ECHO, ENER, MS authorities, and UNEP that strongly supports the application of the tool.	15/12/2015	Scientific information systems and databases	
														6	Natech risk assessment	Case study application of RAPID-N to calculate the Natech risk at a hazardous facility due to earthquakes.	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														7	Space weather impact on the power grid	Assessment of the vulnerability of the European power grid to extreme space weather impact including the calculation and distribution of geomagnetically induced currents.	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
														8	Natech accident database Version 2	Improvement of the JRC's eNatech accident database including structural updates based on user feedback and addition of new accident data to support lessons-learning studies.	15/12/2015	Scientific information systems and databases	
														9	Risk analysis for natural-hazard impact on a select	Model development and implementation for critical-infrastructure risk analysis.	15/12/2016	Scientific and policy reports	
1001 - CIP-REAL Resilience analysis of critical Infrastructures	To study the resilience of critical infrastructures on a global approach by improving prevention and preparedness capacities. It aims at the development of tools and methodologies to analyse risks and impacts of any hazards, and to study dependencies between infrastructures. It includes the development of a GIS-based risk and resilience assessment platform within the EPIC experimental facility and support to information exchange within CIP stakeholders.	JRC.G.5 Georgios GIANNOPOULOS	8.1.b	HOME	n/a	Torben Fell DG HOME A1	ECHO ENER MOVE	ENTSOE - European Network of Transmission System Operators for Electricity EUROCONTROL - European Organisation for the Safety of Air Navigation (EUROCONTROL) MS EU - Member states EU	01/01/2014 31/12/2016	2-Information systems & services (50%) 4-Methods and testing (30%) 7-Scientific, technical & policy consultancy (20%)		254 - TNCEIP Technical Support to the Thematic Network for Critical Energy Infrastructure Protection 984 - CIP-RNH Resilience of critical Infrastructures to natural hazards 1050 - CIP-CPS Resilience of networked cyber-physical systems	INS-RS	4	CI stress tests specifications	Development of the specifications of a CI stress test module to be incorporated in CIR-2.	30/06/2015	Scientific and policy reports	
														5	Resilience assessment	Resilience assessment of selected critical infrastructures of European dimension using CIR-2.	30/09/2015	Scientific and policy reports	
														6	CIR-2 platform release 2	An all-hazards open platform for risk and resilience assessment of Critical Infrastructures with a GIS layer - 2nd release to include more Critical Infrastructures, tools and databases.	15/12/2015	Technical systems	
														7	Standardised architecture for CI R & R assessment	Development of the terms of reference for a standardised interface architecture for linking models and databases on the CIR-2 platform.	30/06/2016	Technical systems	
1050 - CIP-CPS Resilience of networked cyber-physical systems	To improve understanding of the behaviour and vulnerabilities of complex cyber-physical networked systems by carrying out exercises and studies using the EPIC facility, which enables simulation of physical systems to be combined with emulation of the IT control systems linked to them. Where appropriate, the GIS-based resilience assessment platform (CIR-2) will be used for the visualization of the results. The main priority is energy transmission infrastructures.	JRC.G.5 Neil MITCHISON	8.1.b	HOME	n/a	Torben Fell	CNECT ECHO ENER MOVE	ENISA - European Network and Information Security Agency	01/01/2014 31/12/2016	2-Information systems & services (50%) 4-Methods and testing (30%) 7-Scientific, technical & policy consultancy (20%)		233 - CIPS 2012 CIPS 2012 Action to be carried out with the JRC 1001 - CIP-REAL Resilience analysis of critical Infrastructures 1054 - CIP-TOPO Topology of interconnected IP network infrastructures	INS-RS	4	Planning for a multi-infrastructure CP-System	Update of the report on the planning for the development of technical demonstrator of a cyber-physical system presented in Deliverable 1, including additional real physical components spanning several sectors, e.g. telecommunications, transport, energy.	30/05/2015	JRC Technical reports	
														5	Security of C-P systems across multiple infras.	Report assessing the security of multiple infrastructures cyber-physical systems involving real physical components. The report will identify vulnerabilities of such infrastructure and study the impact of cyber-attacks against it.	31/10/2015	JRC Technical reports	
														6	Multi infrastructures cyber-physical system	Improvement of the technical demonstrator of a cyber-physical system to include more complex systems (multi infrastructures).	15/12/2015	Technical systems	
														7	Validation of a cyber-physical system	Validation of the technical demonstrator of a cyber-physical system using real cases.	15/12/2016	Technical systems	
1054 - CIP-TOPO Topology of interconnected IP network infrastructures	To develop the capabilities (expertise, data repositories and tools) for the study of the topology of European and global interconnected IP network infrastructures, as input for the study of vulnerabilities and resilience, and the evaluation of the policy and internet architecture options. The project will identify and collect publicly available datasets and develop the methods to implement a simplified topology model as a layer in the GIS-based resilience assessment platform CIR-2.	JRC.G.5 Thierry BENOIST	8.1.b	HOME	n/a	Torben Fell	CNECT ENER	ENISA - European Network and Information Security Agency	01/01/2014 31/12/2016	2-Information systems & services (30%) 4-Methods and testing (40%) 7-Scientific, technical & policy consultancy (30%)		1001 - CIP-REAL Resilience analysis of critical Infrastructures 1050 - CIP-CPS Resilience of networked cyber-physical systems	INS-RS	4	Methodology for the Internet topology model creati	Validation of methodology against an Internet topology model proof of concept. First version of a methodology for the creation of internet topology models. This deliverable lays down the foundations for Deliverable 6, which will refine the methodology to handle more complex and realistic internet topology models.	30/06/2015	JRC Technical reports	
														5	Example of a simplified Internet topology model	First Internet topology model created following the methodology presented in Deliverable 4. This model is primarily used to validate the draft methodology in Deliverable 4. In addition, this model will serve as a proof of concept with respect to the chosen IT systems and tools.	30/06/2015	Technical systems	
														6	Internet topology model creation in Europe	An updated draft methodology accompanied with the relevant tools for the construction of a simplified Internet topology model with example in Europe leveraging open source data 15-12-2015	15/12/2015	JRC Technical reports	
														7	Tools for the creation of the Internet topology	The software tools that implement the methodology for the construction of a simplified Internet topology model with example in Europe leveraging open source data. The resulting topology model will be visualized in the GIS-based resilience platform GRRASP (See CIP-REAL project)	15/12/2015	Scientific information systems and databases	
1059 - STREST Harmonized approach to stress tests for critical infrastructures against natural hazards	STREST will enable the implementation of European policies for the systematic implementation of stress tests for non-nuclear Critical Infrastructures (CIs). It will establish a common and consistent taxonomy of CIs; develop a rigorous, consistent modelling approach to hazard, vulnerability, risk and resilience assessment of Low Probability - High Consequence events; design a stress test framework and specific applications to address the vulnerability, resilience and interdependencies of CIs.	JRC.G.4 Fabio TAUCER	8.1.b	HOME	RTD	Denis Peter	CLIMA ECHO ENER ENV GROW REGIO			01/10/2013 30/09/2016	4-Methods and testing (100%)	JRC.G.5		COM-IA	1	STREST European Reference Reports Version 1	Coordination of the production of version 1 of the STREST Reference Reports, consisting on the structure, contents, and contributor partners of each (six) reports. Version 1 will be completed by the editors and reviewed by assigned reviewers, who will submit the final version to the JRC.	31/05/2015	JRC Technical reports
															2	Performance assessment of interconnected systems	JRC will provide simulations on the performance of large scale networks for different parameters with respect to recovery and buffering capacity for components of selected CIs. This will allow the prioritization of certain disruption scenarios and thus perform more detailed investigations for these cases.	01/06/2015	Scientific and policy reports
															3	Project Newsletter	Description of highlights and dissemination activities of the project: main results and deliverables, publications and announcement of the final workshop.	31/03/2016	Public information documents
															4	Exploitation Plan	Development of a detailed dissemination and exploitation plan of the project results, with particular emphasis in communicating to stakeholders and user communities addressing the outcomes on the enhancement of societal resilience through infrastructure stress tests.	31/03/2016	Scientific and policy reports
															5	STREST European Reference Reports final	Production of an integrated set of technical guidelines and recommendations concerning the assessment and protection of CIs and written for end-users, regulators and plant operators not included in STREST. This will include the preparation of a consolidated ERR, guidelines for writing, reviewing and production, production of the final version of the ERRs and distribution both in printed version and on digital format, including "policy briefs" in relation to European policy developments.	31/07/2016	Scientific and policy reports

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1171 - CIPS 2013 HOME Risk Assessment methodologies and tools for critical infrastructure protection	The aim of this activity will be to establish both the methodological framework as well as the necessary implementing tools for the risk assessment of critical infrastructures incorporating an all-hazards approach and with long term objective to increase their resilience.	JRC.G.5 Georgios GIANNOPOULOS	8.1.b	HOME	HOME	DG.HOME.A1.002	CNECT ECHO ENER MOVE	ENISA - European Network and Information Security Agency EUROCONTROL - European Organisation for the Safety of Air Navigation (EUROCONTROL) MS EU - Member states EU	01/06/2014 01/12/2016	2-Information systems & services (30%) 4-Methods and testing (30%) 7-Scientific, technical & policy consultancy (40%)	1001 - CIP-REAL Resilience analysis of critical Infrastructures	COM-AA	1	Report on the feasibility and benefits of the...	WP1. Topologies of Critical Infrastructures introduced and elaborated in the GRRASP (Geospatial Risk and Resilience Assessment Platform). T1.1 - Report on the feasibility and benefits of the representation of realistic Critical Infrastructure Topologies.	31/05/2015	JRC Technical reports	
													2	Report of the technical requirements and develop...	WP1. Topologies of Critical Infrastructures introduced and elaborated in the GRRASP (Geospatial Risk and Resilience Assessment Platform). T1.2 - Report of the technical requirements and development of a module for representing and analysing infrastructure topologies in GRRASP.	31/05/2015	JRC Technical reports	
													3	Development of a module for automatic identific...	WP1. Topologies of Critical Infrastructures introduced and elaborated in the GRRASP (Geospatial Risk and Resilience Assessment Platform). T1.3 - Development of a module for automatic identification of Critical Infrastructure Interdependen	31/05/2015	Scientific information systems and databases	
													4	Development of generic models for CI interdepen...	WP2. Models for infrastructure interdependencies T2.1 - Development of generic models for CI interdependencies (e.g. ICT-Energy, transport, etc.) for large scale infrastructures.	31/12/2015	Scientific information systems and databases	
													5	Implementation of the interdependencies modules in	WP2. Models for infrastructure interdependencies T2.2 - Implementation of the interdependencies modules in the GRRASP and perform case studies taking stock of the pilot projects running in parallel.	31/12/2015	Scientific and policy reports	
													6	Development of an integrated analysis framework...	WP3. Integration of GRRASP with other platforms (e.g. NIS lab) and analysis capabilities for large scale infrastructure assessment for supporting the revised EPCIP T3.1 - Development of an integrated analysis framework with a standardised interface and several integrated modules and if applicable linked with experimental facilities.	31/12/2016	Scientific information systems and databases	
													7	Analysis of selected realistic case studies of...	WP3. Integration of GRRASP with other platforms (e.g. NIS lab) and analysis capabilities for large scale infrastructure assessment for supporting the revised EPCIP T3.2 - Analysis of selected realistic case studies of interconnected infrastructures in Europe.	31/12/2016	Scientific and policy reports	
													8	Take stock and contribute to the Pilot Projects...	WP3. Integration of GRRASP with other platforms (e.g. NIS lab) and analysis capabilities for large scale infrastructure assessment for supporting the revised EPCIP T3.3 - Take stock and contribute to the Pilot Projects (Revised EPCIP) and use elements of the work on these projects to provide a unique and harmonised risk assessment platform.	31/12/2016	Scientific and policy reports	
1943 - EPCIP_IJP_2014 EPCIP Integrated Pilot Projects 2014-2020 in the Energy sector	The strategic objectives of this project are to improve the level of prevention, preparedness and restoration for critical energy infrastructures of European dimension. This will be done by means of designing and applying a methodology for performing Risk Assessments and Risk Treatment of gas transmission networks and electricity transmission networks, including their possible interdependencies. The project will also include elements of training and exercises based on the analyses performed.	JRC.F.3 Ricardo BOLADO LAVIN	8.1.b	HOME	HOME	Torben FELL (Unit A1.002)	ENER ENV	804 - EPCIP2012 EU Gas Network Vulnerability, Interaction with power grid, and Smart Grid Simulation Centre 487 - EUGas Gas Transmission Network Modeling 1942 - RSGS-II TECHNICAL ASSISTANCE, ANALYSIS AND INPUT TO SUPPORT THE IMPLEMENTATION OF REGULATION 994/2010	01/11/2014 31/10/2016	7-Scientific, technical & policy consultancy (100%)	COM-AA	194311	Risk Assessment; state-of-the-art & lessons learn	This deals with four activities: 1) Stock taking of methodologies (Standards for Risk Management & available methodologies in the gas and electricity sectors, methodologies developed for Critical Infrastructure Protection and in similar technological areas), 2) critical review of models to simulate gas and electricity scenarios, 3) propose a methodology to perform RA of gas and electricity transmission grids and 4) propose a reference system to be analysed in the following deliverables.	30/06/2015	Scientific and policy reports		
												194321	Gas infrastructure: Risk Assessment	This deliverable involves four activities: 1) definition of a reference gas transmission network to be analysed (system description & definition of risk criteria), 2) identification of sources of risk (threats & hazards), 3) Risk Analysis (generation of event chains and estimation of their probabilities & estimation of consequences), and 4) Risk Evaluation (generation of either a risk matrix or of a cumulative complementary distribution function - CCDF, as graphic representation of risk).	15/12/2015	Scientific and policy reports		
												194331	Electricity infrastructure: Risk Assessment	This deliverable involves four activities: 1) definition of a reference electricity transmission grid to be analysed (system description & definition of risk criteria), 2) identification of sources of risk (threats & hazards), 3) Risk Analysis (generation of event chains and estimation of their probabilities & estimation of consequences), and 4) Risk Evaluation (generation of either a risk matrix or of a cumulative complementary distribution function - CCDF, as graphic representation of risk).	15/12/2015	Scientific and policy reports		
												194341	Interdependencies (electricity-gas-ICT)	This deliverable consists of three activities: 1) Identification of interdependencies (gas - electricity - ICT), 2) Risk Analysis (generation of event chains and estimation of their probabilities & estimation of consequences), and 3) Risk Evaluation (generation of either a risk matrix or of a cumulative complementary distribution function - CCDF, as graphic representation of risk).	31/03/2016	Scientific and policy reports		
												194351	Risk treatment; prevention & contingency planning	This deliverable reports four activities: 1) identification of a set of relevant chain of events (selection of event chains taken from deliverables 194321, 194331 & 194341, and definition of risk management capabilities), 2) design of strategies to mitigate the consequences and reduce probabilities in each relevant event chain previously identified, 3) re-estimation of risk matrix / CCDF after the application of different strategies, and 4) recovery/restoration (after the events chain).	30/06/2016	Scientific and policy reports		
												194361	Training / awareness	Four activities are developed in this deliverable: 1) selection of a number of relevant chains of events, 2) preparation of a number of training / information dissemination sessions based on the events chains selected, 3) realisation of training / information dissemination sessions, and 4) selection of lessons learnt.	31/10/2016	Scientific and policy reports		
2084 - CIP-EXO Preparedness activities for the protection of critical infrastructures by exercising	To improve the preparedness, security awareness and cooperation of Critical Infrastructure operating staff, and the procedures of Critical Infrastructure operating companies, by providing tools to enable large-scale training exercises in response to security incidents. This will involve further developments of the distributed collaboration system PRIAM, integrating it with the EXITO tool for managing exercises, and linking it with the EPIC facility for modelling Cyber-Physical interactions	JRC.G.5 Thierry BENOIST	8.1.b	HOME	n/a	DG HOME Unit A.01	CNECT ENER MOVE	ENISA - European Network and Information Security Agency	01/01/2015 31/12/2016	2-Information systems & services (60%) 7-Scientific, technical & policy consultancy (40%)	INS-RS	1	Planning for exercise collaboration	Report on the international exercises of interest carried out in 2014-2015. Contribute to the scoping of the development activities	30/06/2015	Scientific and policy reports		
												2	IT Specification and technical requirements scoped	The report describes the technical requirements steering the evolution of the EXITO and PRIAM suite of tools in order to support and contribute to specific international exercise activities.	31/10/2015	JRC Technical reports		
												3	New Release of EXITO	Development and testing of an improved version of the EXITO toolkit driven by the requirements of deliverable 2	15/12/2015	Scientific information systems and databases		
												4	Contribution to the Data Breach exercise	To support technically JRC G.06 Unit to run the exercise on Data Breach with the deployment of the EXITO toolkit. A lessons-learn report about EXITO will be produced	15/12/2015	JRC Technical reports		
												5	Contrib. to a pan-European large-scale exercise	Technical support with EXITO, PRIAM and/or EPIC facility to a large-scale pan-European exercise in relation to large networked infrastructures. (such as CyberEurope 2016 exercise or similar)	31/12/2016	Scientific information systems and databases		
2085 - RAMTTI Risk Analysis Methodologies applied to Terrestrial Transport Infrastructures	To foster the resilience of pan-European terrestrial transport infrastructures against human-made hazards covering minor legal offenses to terrorist acts and technological accidents. The aim is to apply prototype or research results to pilot tools, applied techniques and standards in the field of risk assessment methods with a multi-stakeholder approach. This project is assisting the policy maker of terrestrial transport sectors to steer the research and development programme	JRC.G.5 Marc HOHENADEL	8.1.b	MOVE	MOVE	Unit A.04	HOME	1171 - CIPS 2013 HOME Risk Assessment methodologies and tools for critical infrastructure protection 1001 - CIP-REAL Resilience analysis of critical Infrastructures	01/01/2015 31/12/2016	7-Scientific, technical & policy consultancy (100%)	COM-AA	1	International conference on risk assessment	To organise jointly with DG MOVE an International conference including EU, USA, Japan and Israel on the state-of-the-art on risk assessment methodologies in the sectors of terrestrial transport, including aspects of inter and extra sectoral interdependencies.	31/12/2015	Monographs with JRC editorship		
												2	Term of Reference	As a follow-up of the International conference of Risk assessment methodologies a Term of Reference document will be prepared by the JRC to support DG MOVE policy orientations.	31/12/2015	Scientific and policy reports		
												3	Study and Pilot project	Contribution to pilot project in EU terrestrial transport infrastructures.	31/12/2016	JRC Technical reports		
2176 - DENSEK Distributed Energy Security Knowledge	Participation to the DENSEK project as a member of its Scientific Advisory Board. The project focuses on the cyber-security of Energy Smart Grids, and will contribute to a more resilient Energy infrastructure putting the basis for the creation of a first European Energy-ISAC, increasing in this way the overall energy sector protection capabilities raising the awareness of the exposure of those infrastructures to cyber-attacks and providing support in term of knowledge sharing.	JRC.G.6 Igor NAI FOVINO	8.1.b	HOME	HOME	DG.HOME.A1.002	GROW	15/07/2013 15/12/2015	7-Scientific, technical & policy consultancy (100%)	561 - TSI Trust, Security and Identity	COM-IA	1	2015 JRC Contribution to DENSEK SCA	Short report on JRC contribution to the Scientific Advisory Board of DENSEK for the year 2015	15/12/2015	JRC Technical reports		

JRC WORK PROGRAMME 2015 - 2016																			
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
2287 - CIPS 2014 CIPS 2014	CIPS 2014	JRC.G.5 Marc HOHENADEL	8.1.b	HOME	HOME	Torben FELL, HOME.A.1.002			01/01/2015 30/04/2016	2-Information systems & services (100%)			COM-AA	1	D1.1 Business requirement document on Narrator	Business requirement document on Narrator improvements sourcing from lessons learned	30/04/2016	JRC Technical reports	
														2	D1.2 New release of Narrator system	New release of Narrator system as specified in D1.1	30/04/2016	Technical systems	
														3	D1.3 New release of EXITO	New release of EXITO as an outcome of T1.2	30/04/2016	Technical systems	
														4	D1.4 Report on EXITO A1 activity	Report on EXITO/Narrator use in international/pan-European exercises over the duration of the A1 activity	30/04/2016	JRC Technical reports	
3080 - CIPS 2015 CIPS 2015 - Actions to be carried out with the JRC	The description of work corresponds to actions to be carried out with the JRC in support to DG HOME in the implementation of the Internal Security Fund (ISF) Annual Work Programme 2015 for the instrument ISF Police under the specific objective to manage risk and crisis. It groups together activities on the Prevention, Preparedness and Consequence Management of Terrorism and other Security related risks (CIPS).	JRC.G.5 Marc HOHENADEL	8.1.b	HOME	HOME	Torben FELL, HOME.A.1.002			01/09/2015 31/08/2016	2-Information systems & services (100%)			COM-AA	1	CIPS Workshop	A CIPS Workshop and work to assess the results of the CIPS research projects, integrate the project outputs and identify areas for future CIP research	30/08/2016	JRC Technical reports	
														2	Support to the implementation of the EPCIP	Support to the implementation of the EPCIP	30/08/2016	Scientific and policy reports	
8.1.c Development of Open Source Intelligence (OSINT) tools and manuals, and capacity building for their use by Member States. Set up a permanent OSINT platform/network co-driven by DG HOME and DG JRC that links key groups from the EU Member States to exchange experience and ideas, knowledge and lessons learnt to enhance the use of OSINT in law enforcement, supporting EU Member States in this area.																			
456 - OSINT-Suite OSINT for HOME and Law Enforcement	The project enhances and further develops the OSINT Suite software for use by law enforcement agencies & other parties e.g. International Criminal Court. Its activities focus mainly on providing customisation features in order to adapt the OSINT suite to the user domain. Other developments help to increase number of analysis components by including more EMM derived modules. The project increases OSINT capacity building in the MS by further dissemination of the OSINT suite.	JRC.G.2 Erik VAN DER GOOT	8.1.c	HOME	n/a	Silvio Mascagna		EUROPOL - EUROPOL ICC - International Criminal Court MS EU - Member states EU	01/01/2014 31/12/2016	2-Information systems & services (100%)				INS-RS	201503	Translation on demand for OSINT suite	Develop and implement a 'translation on demand' service for the OSINT Suite desktop application leveraging the existing in-house translation systems. This will allow the use of the translations systems for an on-demand service in addition to the in-line on-the-fly translation as currently performed for the EMM processing chain	01/05/2015	Technical systems
															201601	OSINT Suite release III	Provide a new release of the OSINT Suite software in response to user's needs. Incorporate the research results of the in-house translation systems into OSINT Suite as an on-demand service.	01/11/2016	Technical systems
															45620151	OSINT Suite release II	Provide a new release of the OSINT Suite software in response to user's needs. Incorporate the research results of the in-house translation systems into OSINT Suite as an on-demand service.	31/10/2015	Technical systems
															45620152	Improved Entity recognition in OSINT Suite	Improve the entity recognition in OSINT suite integrating in-house research results on entity recognition, specifically for highly inflected languages.	01/07/2015	Technical systems
1236 - OSINT SUPPORT SUPPORT TO OSINT USER COMMUNITY	The project aims to improve the capabilities of Member States in the use of OSINT tools and methods by further developing the EMM OSINT suite and organisation of technical workshops.	JRC.G.2 Gerhard WAGNER	8.1.c	HOME	HOME	MASCAGNA Silvio	Tech Serv - Member States and their Technical Services/type approval authorities		01/09/2014 30/08/2016	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (20%) 9-Education & training (30%)			COM-AA	1	On-site operations support EMM installation	Provide experts to DG HOME's strategic analysis and response capacity. The JRC trained experts provide smooth operations and facilitate the transfer of technical knowledge to DG HOME's own staff	31/12/2015	Scientific information systems and databases	
														2	EMM & OSINT Workshop for MS practitioners & users	Organize three workshops for MS OSINT practitioners to build pan-European community of experts in the field. Organize workshop for EU institutional users of EMM tools. Train users in the use of JRC developed tools. If requested evaluate workshops with a user survey.	01/10/2016	Training	
														3	Evaluate use, disseminate, improve EMM OSINT Suite	Conduct usage evaluation of EMM OSINT Suite. Disseminate software to MS authorities by sending out information material and doing on-site training (on request). Improve software and keep operational based on feedback from evaluation and MS users.	01/10/2016	Scientific information systems and databases	
														4	Management Reporting on AA Progress	Provide inception report, first and second interim report and final report to DG HOME to support management of joint AA.	01/10/2016	Scientific and policy reports	
2063 - EuMM Europol Media Monitor 2014	Europol's Corporate Communications Unit performs open source monitoring on behalf of operational Units in Europol. The Unit also produces a daily newsletter for the whole organisation. The purpose of the project is to maintain and host versions of EMM and NewsDesk specifically tailored for Europol with the intention to transfer the system to Europol in the near future within the framework of a signed license agreement.	JRC.G.2 Erik VAN DER GOOT	8.1.c	HOME	HOME	EUROPOL is funding entity		EUROPOL - EUROPOL	30/06/2014 29/06/2015	2-Information systems & services (100%)			COM-TW	1	Management reporting on SLA Progress	Provide final report to Europol to support management of SLA.	30/09/2015	Scientific and policy reports	
2064 - DRAFT EuMM 2015 DRAFT EuMM - EUROPOL MEDIA MONITOR	Europol's Corporate Communications Unit performs open source monitoring on behalf of operational Units in Europol. The Unit also produces a daily newsletter for the whole organisation. The purpose of the project is to maintain and host versions of EMM and NewsDesk specifically tailored for Europol with the intention to transfer the system to Europol in the near future within the framework of a signed license agreement.	JRC.G.2 Erik VAN DER GOOT	8.1.c	HOME	n/a	europol is funding entity		EUROPOL - EUROPOL	30/06/2015 29/06/2016	2-Information systems & services (100%)			COM-TW	1	Management reporting on SLA Progress	Provide final report to Europol to support management of SLA	20/09/2016	Scientific and policy reports	
8.1.d Development of crisis management technologies to improve decision making, strategic analysis, risk assessment and response capability in crisis situations.																			
222 - EMM SECURE ZONE EMM SECURE ZONE	Support new "strategic analysis and response" capability within HOME/A1 "Crisis management and fight against terrorism", which holds a key role in developing risk assessment process for security threats and a crisis management capacity. This requires transfer of open source gathering and analysis techniques developed by JRC to operational usage in DG HOME secure zone. It also includes developing a "crisis management portal" to support DG HOME's Duty Functions in the management of crises.	JRC.G.2 Charles MACMILLAN	8.1.d	HOME	HOME	silvio.mascagna@ec.europa.eu	ECHO	EEAS - European External Action Service EEAS - European External Action Service	08/10/2012 07/04/2015	2-Information systems & services (100%)				COM-AA	5	D9.4 Final Report	Management report on AA progress	28/03/2015	Scientific and policy reports
															5	D9.4 Final Report	Management report on AA progress	28/03/2015	Scientific and policy reports
															6	D6.1 Operational MediSys portal	ONLY ON REQUEST the current MediSys system will be maintained in an operational status, including updates and bug fixes to the existing processing chain and the availability of the web site.	28/03/2015	Scientific information systems and databases
															6	D6.1 Operational MediSys portal	ONLY ON REQUEST the current MediSys system will be maintained in an operational status, including updates and bug fixes to the existing processing chain and the availability of the web site.	28/03/2015	Scientific information systems and databases
															7	D7.1 Operational EAR Portal	ONLY ON REQUEST the EAR platform will be maintained to ensure reliable 24/7 functionality and availability.	28/03/2015	Scientific information systems and databases
															7	D7.1 Operational EAR Portal	ONLY ON REQUEST the EAR platform will be maintained to ensure reliable 24/7 functionality and availability.	28/03/2015	Scientific information systems and databases
															7	D7.1 Operational EAR Portal	ONLY ON REQUEST the EAR platform will be maintained to ensure reliable 24/7 functionality and availability.	28/03/2015	Scientific information systems and databases
444 - EmmSecurity EMM for Security	EmmSecurity enhances EMM based real-time open source (OS) monitoring activities related to security, home affairs & external border management by providing/extending OS analysis capabilities specifically adapted to these activities. It also increases efficiency & collaboration by developing methods for exchange of analysis capabilities (note: not data) between trusted partners/stakeholders. EmmSecurity extends the monitoring/analysis activities to include available social media data (Twitter).	JRC.G.2 Erik VAN DER GOOT	8.1.d	HOME	n/a	Silvio Mascagna	SG TAXUD	EEAS - European External Action Service EU CERT TF - EU CERT Task Force EUROPOL - EUROPOL FRONTEX - European Agency for the Management of Operational Cooperation	01/01/2014 31/12/2016	2-Information systems & services (90%) 7-Scientific, technical & policy consultancy (10%) 9-Education & training (10%)			438 - MMA Media Monitoring and Analysis for Policy Support	INS-RS	201504	EMM based EU Customs Media Monitor	In collaboration with Dutch, German, Swedish and UK customs, build and operate a media monitoring system specifically for use by EU Customs.	30/06/2015	Technical systems
															201505	EMM based EU-CERT	Maintain and improve the EMM based EU-CERT information system. Apply system enhancements such as the enhanced mapping and 'Big Screen' facilities. Conducted within framework of MoU between JRC and EU CERT.	30/09/2015	Technical systems
															44420151	Platform for the exchange and update of category	Provide a platform that can be used by the various security related stakeholders to exchange and share relevant category definitions in order to improve efficiency and leverage domain specific expertise.	01/01/2015	Technical systems
															44420152	Improved temporal analysis of events	This paper will describe the results of the research into the analysis of the time related expressions in the text fragments analysed during the event metadata extraction process. This analysis will allow for a better time domain positioning of the extracted event. Paper submitted to peer review journal.	30/10/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															44420161	EMM at FRA	Maintain and improve EMM based -linkr- system at Swedish, FRA. Apply system enhancements based on OS analysis research results from this project and MMA. Conducted within framework of CA.32243	29/10/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1840 - EMM Secure Zone 2015 DRAFT EMM Secure Zone II 2015	Support new "strategic analysis and response" capability within HOME/A1 "Crisis management and fight against terrorism", which holds a key role in developing risk assessment process for security threats and a crisis management capacity. This requires new development and maintenance of JRC open source gathering and analysis techniques for continuous operational use in HOME secure zone.	JRC.G.2 Charles MACMILLAN	8.1.d	HOME	HOME	Silvio Mascagna	HR SANTE SG	EUROPOL - EUROPOL FRONTEX - European Agency for the Management of Operational Cooperation	01/11/2015 30/10/2017	2-Information systems & services (90%) 7-Scientific, technical & policy consultancy (10%)			COM-AA	1	Management Reporting on AA Progress	Provide inception report to DG HOME to support management of joint AA	01/12/2015	Scientific and policy reports	
														2	Management Reporting on AA Progress	Provide first and second interim report to DG HOME to support management of joint AA	31/08/2016	Scientific and policy reports	
														3	Management Reporting on AA Progress	Provide final report to DG HOME to support management of joint AA	30/10/2017	Scientific and policy reports	
1849 - DRAFT FMM 2015 DRAFT FRONTEX MEDIA MONITOR 2015	The aim of this SLA is to provide the FRONTEX Media Monitor (FMM) which is a media monitoring tool aimed at facilitating and automating the collection, classification and dissemination of Open Source Information. The FMM increases the Frontex Situation Centre capacity to perform media and situation monitoring and provides a specialized tool to Frontex staff and external partners on border and migration related news.	JRC.G.2 Charles MACMILLAN	8.1.d	HOME	n/a	Dirk Vande Ryse of FRONTEX, FRONTEX is funding DG			06/12/2014 05/12/2015	2-Information systems & services (100%)			COM-TW	1	Management Reporting on SLA Progress	Provide final report to Frontex to support management of SLA	16/12/2015	Scientific and policy reports	

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1852 - DRAFT FOSS 2014 DRAFT Frontex One Stop Shop 2014	This is a follow-up to a previous project with FRONTEX, where we developed the web-based Frontex One Stop Shop (FOSS) portal application. After 2 years, FOSS has become FRONTEX's portal for situational awareness and sharing operational information amongst its end-users within Frontex and the EU Member States. The FOSS application is located within the FRONTEX Situation Centre. FRONTEX has now requested the support of the JRC to update specific technical features and to extend its functionality	JRC.G.2 Alessandro ANNUNZIATO	8.1.d	HOME	n/a	FRONTEX is funding body			01/08/2014 30/07/2015	2-Information systems & services (90%) 7-Scientific, technical & policy consultancy (10%)			COM-TW	1	Final Report	Provide final report to FRONTEX to support management of SLA	01/09/2015	Scientific and policy reports
1853 - DRAFT FOSS 2015 DRAFT Frontex One Stop Shop	This is a follow-up to a previous project with FRONTEX, where we developed the web-based Frontex One Stop Shop (FOSS) portal application. After 2 years, FOSS has become FRONTEX's portal for situational awareness and sharing operational information amongst its end-users within Frontex and the EU Member States. The FOSS application is located within the FRONTEX Situation Centre. FRONTEX has now requested the support of the JRC to update specific technical features and to extend its functionality	JRC.G.2 Alessandro ANNUNZIATO	8.1.d	HOME	n/a	frontex IS FUNDING BODY			28/08/2015 27/08/2016	2-Information systems & services (90%) 9-Education & training (10%)			COM-TW	1	Final Report	Provide final report to FRONTEX to support management of joint AA	10/09/2016	Scientific and policy reports
1854 - DRAFT COOL 2015 DRAFT COOL@EEAS	The purpose of this administrative arrangement is to cover technical support for the Consular OnLine (CoOL) web application that has been developed by the JRC. COOL facilitates the sharing of consular information between the EU MSs and the EEAS during crisis emergencies e.g. COOL was notably used by EEAS and EU MSs during the Arab spring to ensure effective evacuation of EU citizens from crisis hot spots during the first half of 2011. The technical support covers maintenance too	JRC.G.2 Alessandro ANNUNZIATO	8.1.d	HOME	n/a	EEAS IS funding body			01/01/2015 31/12/2015	2-Information systems & services (100%)			COM-AA	1	Final Report	Provide final report to EEAS to support management of joint AA	15/01/2016	Scientific and policy reports
8.1.e Support the implementation of biological, chemical and explosives actions related to the CBRN-E action plans, and their follow-up policy documents.																		
622 - (CBRN)E-std CBRNE - standards for E threats	Support to the Commission activities on developing harmonized EU standards for testing in the CBRNE threats domain. A laboratory is set up for studies on detection of explosives threat materials, and for aviation security. This is a Commission in-house facility for studies on, for example, performance of detection equipment and validation of minimum detection requirements. The activity is in support of EU policy on aviation security and Action Plans on enhancing the security of explosives.	JRC.D.3 David ANDERSON	8.1.e	HOME	n/a	OLSZEWSKI Radoslaw (HOME) <Radoslaw.OLSZEWSKI@ec.europa.eu>; ENGDAHL Eva-Maria (HOME) <Eva.Engdahl@ec.europa.eu>	GROW MOVE TAXUD	Civ Protection EU - Civil Protection Services in Member States EUROPOL - EUROPOL Tech Serv - Member States and their Technical Services/type approval authorities	01/01/2014 31/12/2016	4-Methods and testing (20%) 5-Monitoring, verification and surveillance (20%) 6-Reference materials and measurements (60%)	JRC.G.AD V01	618 - AVSEC-std Aviation security - standards 672 - (CBRN)E-std CBRNE - standards for CB threats	INS-RS	32	ETD - vapour	Detecting explosives via their vapour is a very promising technique. Various detection devices have been developed containing more than a dozen different sensors (using for example acoustic wave spectrometry and chemoluminescence). The calibration of these techniques is paramount. For this, techniques like micro concentration and permeation tubes can be developed. The report will describe the metrological characterisation of these in collaboration with external research organisations.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														36	ETD - remote techniques	Explosives trace detection is a very powerful tool for detection of explosives for public security. Today, ETD is almost exclusively done by swabbing surfaces or applying "air-puffers". However, new technologies are emerging on using remote Raman spectrometry also for ETD. The report will compare remote and swabbing ETD to evaluate the feasibility of remote Raman for ETD.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														38	E-terms for EU CBRNE glossary database	E-part (Explosives) of the EU database on CBRNE-terms with restricted access to professional users	30/06/2015	Scientific information systems and databases
														39	Scientific/technical advice to policy maker	Review of technological developments and standards for explosives trace detection equipment.	31/12/2016	Scientific and policy reports
672 - (CBRN)E-std CBRNE - standards for CB threats	Support to the Commission activities on developing technical requirements and harmonized EU standards for methods used to detect (CBRNE) threats by first responders in field applications. The activity is in support of the EU Action Plan on CBRN threats.	JRC.D.3 David ANDERSON	8.1.e	HOME	n/a	OLSZEWSKI Radoslaw (HOME); ENGDAHL Eva-Maria (HOME)	GROW MOVE	Civ Protection EU - Civil Protection Services in Member States	01/01/2014 31/12/2016	4-Methods and testing (40%) 6-Reference materials and measurements (20%) 7-Scientific, technical & policy consultancy (40%)		622 - (CBRN)E-std CBRNE - standards for E threats	INS-RS	42	CB field detectors performances	Threat from malicious use of Chemical and Biological material is a high priority area for the European Commission, identified in a number of EU political and legal instruments. In support of related policy implementation activities of DG HOME the project will study the performances of recent detection technologies available on the market regarding field detection of C and B threat materials.	31/12/2015	JRC Technical reports
1230 - CBRNE Glossary Establishment of a library of CBRNE-related terms	The EU CBRNE Glossary will serve the stakeholders involved in CBRNE Resilience (fire brigades, police, medical response, border control, chemists or security authorities). The glossary shall include definitions of the relevant CBRNE-related terms. The document is dedicated to users all over the European Union and beyond, therefore a translation in all EU languages is required.	JRC.G.ADV01 GERALD VOLLMER	8.1.e	HOME	HOME	Wiktor Wojtas		Civ Protection EU - Civil Protection Services in Member States INTERPOL - INTERPOL	01/09/2013 14/03/2015	2-Information systems & services (100%)		754 - CBRN CoE 2 Chemical Biological Radiological and Nuclear Centres of Excellence	COM-AA	1	final report	final report	28/02/2015	JRC Technical reports
8.1.f Technical support to EU policies in the fight against cybercrime, including the online sexual abuse of children. Development of tools, models, simulations and response capabilities to prevent, detect and respond to cybercrime, including capacity building in digital forensics in aid of collecting cybercrime evidence and prosecuting cybercriminals.																		
559 - P2TIC Prevention and Prosecution techniques for Identity Cybercrime	Fight against cybercrime; research focussing on identity issues in two application fields: (a) EU mitigation measures against identity theft derived from breeder documents (i.e. the source documents, such as birth-certificates, requested to deliver identity or travel documents) and (b) ICT solutions to support criminal investigations, especially, target identification and digital evidence collection, via targeted interceptions and offensive technologies on mobile platforms	JRC.G.6 Laurent BESLAY	8.1.f	HOME	n/a	Anabela GAGO (HoU HOME A.2)	CNECT	EUROPOL - EUROPOL	01/01/2014 31/12/2016	2-Information systems & services (40%) 4-Methods and testing (30%) 7-Scientific, technical & policy consultancy (30%)		719 - FIDELITY FIDELITY Fast and trustworthy Identity Delivery & check with ePassports leveraging Traveler privacy 573 - GIFC Goods Identification against Fraud and Counterfeiting 561 - TSI Trust, Security and Identity 2189 - COURAGE DRAFT - Cybercrime and cyberterOrism Researching AGenda at European level 2760 - CSS Crypto-Currency Cyber-Security	INS-RS	2	Design of an EU breeder document register	Definition and design of an EU-wide register for reference sets of valid breeder documents for the perusal of public authorities to support the issuance of identity and travel documents.	15/12/2015	Scientific information systems and databases
														3	Launch of an EU breeder document register	Implementation and launch of an EU-wide register for reference sets of valid breeder documents for the perusal of public authorities to support the issuance of identity and travel documents.	15/12/2016	Technical systems
														5	Digital evidence collection from smartphone	Report assessing methods and techniques for offensive collection of data and digital evidences from smartphones. Techniques using memory corruption of baseband processors for command injection and exploitation of Apps vulnerabilities will be explored.	31/07/2015	Scientific and policy reports
														6	Contextualised decryption	Study results, including technical solutions and validation tests on contextualisation strategies for conducting targeted decryption. The aim will be to develop a system based on computational linguistics and probabilistic techniques in order to personalise dictionary attacks.	10/12/2015	Technical systems
														7	Identification of cybercrime perpetrators	Study results, including development of innovative techniques and validation tests on identification of cybercrime authors. The research will aim at a first assessing the state of the art of identification techniques in an online environment and second at developing complementary solutions focused on image analysis, IT pattern recognition and virtual currency vulnerabilities.	10/06/2016	Technical systems
560 - AVICAO Victims and Authors Identification of CSA On-Line	Support the EU cybersecurity strategy in the fight against on-line Child Sexual Abuse (CSA), with new and improved techniques related to biometric matching system, computer vision for the identification of victims and perpetrators of such crimes, as needed by enforcers.	JRC.G.6 Laurent BESLAY	8.1.f	HOME	n/a	Anabele GAGO (HoU HOME A.2)	CNECT	EUROPOL - EUROPOL MS EU - Member states EU	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)		2182 - EVTECH-CSA Platform for assessing tools for the fight against CSA on-line	INS-RS	3	Video analysis system	After a consolidation and validation test phase of Deliverable 1 on SPN extraction from picture, the aim will be to define technical requirements for a system aiming at extracting the most relevant frames or parts of videos, for their use in forensic processes related to fight against CSA crimes. The extraction mechanisms will be based on SPN identification and face detection functionalities.	30/10/2015	JRC Technical reports
														4	Searching media archive	Develop an open-source information system for searching media archives of Child Sexual Abuse crimes. The tool will integrate in the same system several functionalities (i.e. face detection and recognition, gender and age determination, object and context identification) which support the forensic processes of investigators of on-line CSA crimes.	10/12/2016	Technical systems
														5	Gender and age recognition system	Following a proof of concept delivered in 2014, the aim of the deliverable is to develop a software package which will provide with a measurable performance the gender and age of victims of Child Sexual Abuse Crimes from seized pictures.	30/12/2015	Technical systems

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2046 - AFIS - SIS II DRAFT - Automatic Fingerprint Information System - SIS II	Evaluation of the current state of the art in fingerprint identification technology and their readiness in the Schengen Information System (SIS) context, with the objective of generating the report required for the final implementation of the SIS-II Automatic Fingerprint Information System (AFIS) as required by Article 22.c of Decision 2007/533/JHA.	JRC.G.6 Laurent BESLAY	8.1.f	HOME	n/a	Mr Rob ROZENBURG - HoU HOME C.3 (Trans-European Networks for Freedom and Security and relations with eu-LISA)			01/09/2014 30/04/2015	7-Scientific, technical & policy consultancy (100%)		566 - BBM Biometrics and Border Management	COM-AA	3	Final report	Final report with the results of the evaluation and a series of guidelines and recommendations for the most appropriate deployment of the SIS-II biometric capabilities, in order to obtain the best possible performance within the uses cases identified from the fingerprint identification technology. The report will indicate to what extent fingerprint identification technology can be employed for the use cases envisaged in SIS-II.	31/03/2015	Scientific and policy reports
2182 - EVTECH-CSA Platform for assessing tools for the fight against CSA on-line	Development of a benchmarking platform to evaluate the performance of different functionality modules for the investigation of child sexual abuse online crimes, and the identification of authors and victims.	JRC.G.6 Laurent BESLAY	8.1.f	HOME	n/a	Anabela GAGO (HoU HOME A.2)		Law-enforcement Nat. Auth. - MS Law-enforcement National Authorities	01/01/2015 30/12/2015	7-Scientific, technical & policy consultancy (100%)		560 - AVICAO Victims and Authors Identification of CSA On-Line	COM-AA	1	Intermediate report	Intermediate report of the Administrative Arrangement, including the results of its first seven work-packages, namely, assessment of the state of the art; specifications of a benchmark data set and of a benchmarking platform; definition of reporting output; design of the platform and of the protocol to be followed for its usage; development and alpha/beta test; acquisition/finalization of the benchmarking dataset; deployment in Europol's premises, in-situ test and training.	15/09/2015	Scientific and policy reports
														2	Final report	Final report and operational platform delivered for the Administrative Arrangement, building on the results presented in D1, including the detailed results of the first test campaign and the technical documentation of the benchmarking platform.	01/12/2015	Scientific information systems and databases
2189 - COURAGE DRAFT - Cybercrime and cyberterrorism Researching Agenda at European level	The project will deliver a measured, comprehensive, relevant research agenda for Cyber Crime and Cyber Terrorism (CC/CT) guided by the knowledge and experience of the highly experienced and exceptionally qualified consortium (17 partners, 12 countries) and Advisory Board members (14 organisations including EUROPOL, JRC, ERA and EUROPOL). This Research Agenda will identify the major challenges, reveal research gaps, and will aid	JRC.G.6 Laurent BESLAY	8.1.f	HOME	GROW	n/a			01/09/2014 30/08/2016	7-Scientific, technical & policy consultancy (100%)		559 - P2TIC Prevention and Prosecution techniques for Identity Cybercrime	COM-IA	1	2015 Contribution to the COURAGE Advisory Board	Report on JRC contribution and networking activities to the scientific Advisory Board of COURAGE for the year 2015	15/12/2015	JRC Technical reports
														2	2016 JRC Contribution to COURAGE Advisory Board	Report on JRC contribution and networking activities to the scientific Advisory Board of COURAGE for the year 2016	15/12/2016	JRC Technical reports
2848 - ISF14-PMM Pilot for Masterlist Management for electronic passport authentication	Design, development and deployment of a small-scale pilot for assessing the feasibility of technical options concerning the management of Member-States digital certificates (i.e. a Masterlist) for electronic passport authentication. This is a direct scientific support for security policy for external borders and visa, provided within the framework of the Internal Security Fund.	JRC.G.6 Jean Pierre NORDEVIK	8.1.f	HOME	n/a	Rob ROZENBURG (HoU DG HOME C.3)		FRONTEX - European Agency for the Management of Operational Cooperation	01/01/2015 31/03/2016	2-Information systems & services (40%) 4-Methods and testing (30%) 7-Scientific, technical & policy consultancy (30%)		566 - BBM Biometrics and Border Management	COM-AA	1	Intermediate report	Intermediate report of the Administrative Arrangement, including the results of its first work-packages, including, user requirement, design and design-validation of a small-scale pilot for the Masterlist management for electronic passports.	15/12/2015	Scientific and policy reports
														2	Final report	Final report and small-scale pilot delivered for the Administrative Arrangement, building on the results presented in D1, including results from the deployment of the pilot in the field and recommendations for full implementation	31/03/2016	Scientific information systems and databases
8.1.g Detection and testing methods, as well as studies related to new psychoactive substances																		
606 - SAND Scientific Activity on New Drugs	Provide scientific assistance to DG HOME within the EU Drug Strategy, EU Drugs Action Plan and legislative proposals on new psychoactive substances (NPS) emphasising new drugs. Focus is on Council Decision 2005/387/JHA on the information exchange, risk-assessment and control of NPS and on the new proposal for a Regulation of the European Parliament and of the Council on NPS (COM/2013/0619) has been introduced with the aim of reducing the availability in the EU internal market of NPS.	JRC.I.1 Claude GUILLLOU	8.1.g	HOME	n/a	DG HOME B4 SPINANT Dana (HoU), Mauro Gagliardi (policy Officer)	GROW SANTE TAXUD	Cust Aut MS - MS Customs Authorities ECHA - European Chemicals Agency (ECHA) EFSA - European Food Safety Authority EMA - European Medicines Agency (EMA) EMCDDA - European Monitoring Centre for Drugs and Drug Addiction Law-enforcement Nat. Auth. - MS Law-enforcement National Authorities	01/01/2014 31/12/2015	1-Foresight studies & techniques (50%) 7-Scientific, technical & policy consultancy (50%)		2281 - CLEN2SAND Identification of New Psychoactive Substances (NPS) and unknown chemicals	INS-UR	4	Intermediate activity report to DG TAXUD	(Deliverable for CLEN2SAND) Report on new scientific developments aimed to improve knowledge of NPS and unknown chemicals covering items like new analytical and informatics based approaches for the identification of new drugs, scientific tools for their classification as analogues of already controlled drugs also in the view to support the legitimate trade.	01/07/2015	Scientific and policy reports
														5	Annual activity report to DG HOME	Report and summary of scientific meetings held in collaboration with EMCDDA to examine possible approaches for assessment of NPS in the support to of the proposed new regulation on drugs.	15/11/2015	JRC Technical reports
														6	Spectral and chemical data collection	Spectral and chemical data collection (deliverable for CLEN2SAND) Establishment of a collection of chemical and spectral data obtained by CLEN and the JRC. It includes the use of advanced methodologies (based on NMR, FT-IR and HR-MS) for the characterisation of new substances seized by Customs and/or purchased from specialised chemical companies.	15/12/2015	Scientific and policy reports
														7	Contribution to CLEN workshops and/or training	(deliverable for CLEN2SAND) The progress of the work and dissemination of the scientific methods and results will be handled through the participation and contribution to workshops and/or meetings organised by DG TAXUD and CLEN within the program Customs 2020 and the co-organisation with DG TAXUD and CLEN of one training session for ca. 30 Customs chemists (to be handled in close coordination with the CLEN Project Group on "designer drugs and other illicit products").	31/12/2015	Scientific and policy reports
2747 - IDRIP What goes down the drainpipe? Illicit drugs, pollutants & other chemicals in recycled and wastewater	This project aims at the detection, identification, monitoring and mapping of illicit substances which includes the classical drugs (cannabis, cocaine, amphetamines), but also encompasses new psychoactive substances (NPS) such as APINACA; as well as emerging pollutants, pharmaceuticals and personal care products (PPCP) such as steroids that may accumulate in the environment (via pre and post treated wastewater or irrigation water), or in people (via drinkable water consumption).	JRC.I.1 Hubert CHASSAIGNE	8.1.g	HOME	JRC	DG HOME D4 SPINANT Dana (HoU), Mauro Gagliardi (policy Officer)	AGRI ENV RTD SANTE TAXUD	EEA - European Environment Agency EMCDDA - European Monitoring Centre for Drugs and Drug Addiction EUROPOL - EUROPOL	02/02/2015 31/01/2017	5-Monitoring, verification and surveillance (100%)	JRC.DDG.01 JRC.H.1 JRC.H.5 JRC.H.8 JRC.I.5	606 - SAND Scientific Activity on New Drugs 1019 - INNO-WATER Innovation Support for Water-related Eco-industries and Monitoring	INS-ER	1	Method Development	Implementation of a validated method for the detection and quantification of illicit drugs (classic and new psychoactive substances) in wastewater matrices	31/07/2015	Validated methods, reference methods and measurements
														2	European mapping of chemicals in wastewater	Spatial and temporal mapping of the consumption and production of illicit drugs, pharmaceuticals, Description steroids and emerging pollutants in wastewater (effluent and influent), and recycled water (drinkable and irrigation water)	30/06/2016	JRC contributions to policy documents
														3	Analysis of illicit drugs, pharmaceuticals, steroid	Analysis of illicit drugs, pharmaceuticals, steroids & pollutants in wastewater One, or more, scientific articles for publication will be submitted on topics such as a) mapping of consumption and production of illicit substances, steroids, pharmaceuticals and pollutants b) analysis of contaminants in effluent vs influent wastewater c) analysis of contaminants in recycled water for drinking and irrigation purposes	31/10/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														4	Conference attendance (POSTER)	Possible attendance to the Testing the Waters conference, with a poster, to present our work	31/10/2015	Poster presentation
														5	Conference attendance (ORAL)	Attendance to a conference, giving an oral presentation presenting the conclusions of our work to the scientific community	31/12/2016	Oral presentations
														6	Final report	A final report will be produced with the findings related to this project	31/01/2017	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
9 Europe as a Stronger Global Actor																		
9.1 Global Safety and Security																		
9.1.1 Fight against transregional and global threats including disaster resilience and crisis management																		
9.1.1.1 Disaster resilience and crisis management																		
9.1.1.1.a Development of disaster detection and early warning systems as well as of scientific and analytical services to support the Emergency Response Coordination Centre (ERCC):																		
287 - ECML European Crisis management Laboratory (ECML)	ECML was inaugurated in 2012 by President Barroso as European Scientific Research & Test facility for ICT for Crisis Management-CM. ECML develops, tests and benchmarks a range of ICT solutions integrating devices, models and apps to enhance the functioning of EU-MS Crisis Rooms. ECML also establish a network of European Research & testing facilities to develop and conduct ICT experiments for CM, whose results shall guide new Horizon2020 R&D areas of high relevance to crisis management.	JRC.G.2 Alessandro ANNUNZIATO	9.1.1.1.a	ECHO	n/a	Olimpia Imperiali	GROW HOME MOVE SG	AU - African Union Civ Protection EU - Civil Protection Services in Member States ECDC - European Centre for Disease Control EEAS - European External Action Service FRONTEX - European Agency for the Management of Operational Cooperation WFP - World Food Program of the United Nations	01/01/2014 31/12/2016	2-Information systems & services (40%) 4-Methods and testing (40%) 9-Education & training (20%)			INS-RS		201501 Network of European research&testing facilities I	Building cooperation with European research facilities, industry, users in governmental organisations and others with the result of establishing a network of Pan - European research and testing facilities focusing on ICT for crisis management. The first Report will describe participating Labs, terms of reference and planned joint experimental activities for 2015-2016.	15/03/2015	Scientific and policy reports
															201502 Crisis Management Platforms/threat & risk analysis	Improvements and further development of methodologies underpinning collaborative threat analysis and risk assessment platforms the JRC has been developing and testing in a variety of crisis management scenarios form health risks and security to conflict with EU institutional and UN partners.	30/04/2015	Technical systems
															201503 Application of test bench to Video Walls	Application of the new test environment in building 68a, within vicinity of ECML, to benchmark alternative video wall systems for crisis and situation centre environments. The first test results is a review report with recommendations relevant for industry and users in crisis rooms.	30/10/2015	JRC Technical reports
															201504 ICT Workshops for crisis management II	Conducting experiments and organising 2 workshops for benchmarking ICT tools and devices and for ICT technology validation in the framework of crisis management. Participants are users, industry and academia. Focus is ICT for operations in crisis management environments, especially crisis rooms, field to/from crisis/situation rooms, in-field operations.	30/11/2015	Scientific and policy reports
															201505 Network of European Facilities II	The work of the network of European research facilities, industry and users in governmental organisations and others established in 2014 will, through joint activities and planned experiments, lead to: • identified gaps and new areas in R&D on ICT and crisis management • identified gaps in standards for data, threat assessments, early warning and organisational interoperability which would feed into Horizon 2020 and the EU action plan for an Innovative and Competitive Security Industry.	19/11/2015	Scientific and policy reports
															201506 Collaborative Crisis Management technologies	Improvements and further development of methodologies underpinning collaborative situational awareness, threat analysis and risk assessment platforms the JRC has been developing and testing in a variety of crisis management scenarios form health risks and security to conflict with EU institutional and UN partners.	31/10/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
															201507 Mobile Crisis Room	JRC will develop, in collaboration with the Italian Fire Brigade and other Fire corps a mobile Crisis Room that is easily assembled and transported to support early disaster assessment & recovery field operations. System will be based on composition of building blocks that can be assembled in function of importance & length of the field operation. In a disaster the mobile module is delivered to the disaster area & will work as a local information gathering and dissemination hub.	13/12/2015	Scientific information systems and databases
															201601 ICT workshops for Crisis Management III	Conducting experiments and organising 1 workshops for benchmarking ICT tools and devices and for ICT technology validation in the framework of crisis management. Participants are users, industry and academia. Focus is ICT for operations in crisis management environments, especially crisis rooms, field to/from crisis/situation rooms, in-field operations.	01/11/2016	Scientific and policy reports
															201602 Network of European Facilities III	The work of the network of European research facilities, industry and users in governmental organisations and others established in 2014 will, through joint activities and planned experiments, lead to: • identified gaps and new areas in R&D on ICT and crisis management • identified gaps in standards for data, threat assessments, early warning and organisational interoperability which would feed into Horizon 2020 and the EU action plan for an Innovative and Competitive Security Industry.	30/09/2016	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
991 - NAHA Natural Hazards – Droughts, Floods & Forest Fires	Enhance the EU capacity to deal with weather driven natural hazards linking disaster risk management and climate change adaptation with focus on Europe and aiming at global coverage. The project provides information on droughts, floods, and forest fires based on the existing monitoring and early warning systems EFAS, EFFIS and EDO and will work towards multi-hazard integration to multiple policy DG's and end-users, in particular, DG ECHO, ENV, CLIMA, and the COPERNICUS programme.	JRC.H.7 Jutta THIELEN DEL POZO	9.1.1.1.a	ECHO	n/a	Juha Auvinen (ECHO.B.1)	AGRI CLIMA DEVCO ENV GROW MOVE REGIO	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) EEA - European Environment Agency Hydro Met Serv - National and regional hydrological and meteorological services NOAA - National Oceanic and Atmospheric Administration UNCCD - United Nations Convention to Combat Desertification (UNCCD) UNEP - United Nations Environment Programme (UNEP) WFP - World Food Program of the United Nations WHO - World Health Organization WMO - World Meteorological Organization (WMO)	01/01/2015 31/12/2016	2-Information systems & services (40%) 5-Monitoring, verification and surveillance (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (30%)	JRC.H.3	1750 - FOREST PROTECTION V Forest Protection V 1732 - EUROCLIMA 2 Desertification, drought, and crop yield estimation in Latin America under a changing climate 1088 - GAP PESETA Deepening & refining analyses of CC impacts as well as global impacts and their implications for EU 1003 - MARS4FS Monitoring Agricultural Resources for Food Security 996 - C-RES-EU Fostering Climate Resilience in Europe 995 - CLIMEcoS Assessment of climate – ecosystem interactions through Earth System Modelling and Earth Observation 927 - FISE Forest Information System for Europe 177 - ENHANCE Improving resilience to catastrophic natural hazards through new risk-management partnerships 81 - IMPACT2C Quantifying projected impacts under 2°C warming 26 - Food SSA Technical and scientific support to Food Security information in sub-Saharan Africa 2022 - PL:Forest Protec VI Planned: Forest Protection VI 2031 - PL: ERCC2 Planned: Emergency Response Coordination Centre 2 2124 - EFAS 6 EFAS 6	INS-RS		201501	European Drought Observatory Portal (EDO)	Further development of the EDO portal, including new tools and novel services for monitoring, assessment and forecasting of drought ranging over several spatial and temporal scales. Outputs include updated public interface and tools, novel indicators, as well as related reports and publications. [collaboration agreements with DMCSEE]	31/12/2015	Scientific information systems and databases
															201502	Prototype Global Drought Information System (GDIS)	Further implementation of the European (EDO), African (ADO), and South/Central American (SCADO) Drought Observatories as potential cornerstones of the GDIS. Includes design and subsequent operation of GDIS together with global partners, as well as calculation and analysis of relevant indicators focusing on Europe, Africa and Latin America. [EUROCLIMA, collaboration agreements with NOAA and DMCSEE, contribution to WMO/GWP Integrated Drought Management Programme]	31/12/2015	Scientific information systems and databases
															201503	Prototype EFFIS module on forest fires emission	Integrated emissions and dispersion system that makes use of the daily fire perimeter mapping in the Rapid Damage Assessment system to estimate fuel consumption in forest fires as a function of the fire intensity and injects the estimated emissions into meteo-models to determine the concentration of pollutants and their dispersion into the atmosphere, supporting the analysis of interactions of forest fires and human health in nearby populations.	31/12/2015	Technical systems
															201504	European Flood Awareness System	Calibration of EFAS in neighbourhood countries, integration of new products, new tools for visualization and communication of flood forecasts for decision makers and incorporation of web services. Improved flood forecasting algorithms taking into account lessons learned from the 2013 and 2014 floods and specific requests from different stakeholders. Integration of COPERNICUS satellite products into EFAS. Developments will be transferred to the operational system funded by COPERNICUS.	31/12/2015	Technical systems
															201505	Prototype of a Global Flood Forecasting System	Advanced prototype of a coupled hydro-meteorological forecasting model through model calibration and integration of satellite based flood detection information. Testing risk based reporting using on-line information on flood hazard/exposure/vulnerability and a novel web interface for communication with decision makers & end-users. Establishment of web services for data exchange. The system will serve as platform for integration of collaborations at international level (Global Flood Partnership).	30/12/2015	Technical systems
															201506	Prototype integrated NAHA information platform	Building on existing European and Global monitoring and forecasting systems for droughts, fires and floods, an integrated platform is being created as single entry point to weather driven natural hazards in the IES/JRC.	31/12/2015	Scientific information systems and databases
															201507	EU flood&drought risk scenarios for future climate	Risk scenarios based on hazard assessments, improved multi-criteria analyses of exposure and vulnerability and more inclusive damage valuation methods for Europe. Focus on major economic sectors (energy, transport, water, agriculture) in critical geographical areas such as low-lying coastal zones, urban areas and (semi-) arid regions. Outputs include spatially detailed maps of flood and storm surge risks that will serve as input to CLIMATE-ADAPT.	31/12/2015	Scientific and policy reports
															201601	European Drought Observatory Portal (EDO)	Further development of the EDO portal, including new tools and novel services for monitoring, assessment and forecasting of drought ranging over several spatial and temporal scales. Outputs include updated public interface and tools, novel indicators, as well as related reports and publications. [collaboration agreements with DMCSEE]	31/12/2016	Scientific information systems and databases
															201602	Prototype Global Drought Information System (GDIS)	Further implementation of the European (EDO), African (ADO), and South/Central American (SCADO) Drought Observatories as potential cornerstones of the GDIS. Includes design and subsequent operation of GDIS together with global partners, as well as calculation and analysis of relevant indicators focusing on Europe, Africa and Latin America. [EUROCLIMA, collaboration agreements with NOAA and DMCSEE, contribution to WMO/GWP Integrated Drought Management Programme]	31/12/2016	Scientific information systems and databases
															201603	Prototype EFFIS module on forest fires emission	Integrated emissions and dispersion system that makes use of the daily fire perimeter mapping in the Rapid Damage Assessment system to estimate fuel consumption in forest fires as a function of the fire intensity and injects the estimated emissions into meteo-models to determine the concentration of pollutants and their dispersion into the atmosphere, supporting the analysis of interactions of forest fires and human health in nearby populations.	15/10/2016	Technical systems
															201604	European Flood Awareness System	Calibration of EFAS in neighbourhood countries, integration of new products, new tools for visualization and communication of flood forecasts for decision makers and incorporation of web services. Improved flood forecasting algorithms taking into account lessons learned from the 2013 and 2014 floods and specific requests from different stakeholders. Integration of COPERNICUS satellite products into EFAS. Developments will be transferred to the operational system funded by COPERNICUS.	30/12/2016	Technical systems
															201605	Global Flood Forecasting System	Coupled hydro-meteorological forecasting model through model calibration and integration of satellite based flood detection information (GFDS). Testing risk based reporting using on-line information on flood hazard/exposure and a novel web interface for communication with decision makers & end-users. Establishment of web services for data exchange. The system will serve as platform for integration of collaborations at international level (HEPEX, Global Flood Partnership).	30/12/2016	Technical systems
															201606	Information platform for weather driven disasters	Building on existing European and Global monitoring and forecasting systems for droughts, fires and floods, an integrated platform is being created as single entry point to weather driven natural hazards in the IES/JRC. Collaborating with JRC units: H.3, H.7, H.6, H.1, H.5, H.4	31/12/2016	Scientific information systems and databases
201607	Flood and drought risk scenarios for Europe	Risk scenarios based on hazard assessments, improved multi-criteria analyses of exposure and vulnerability and more inclusive damage valuation methods for Europe. Focus on major economic sectors (energy, transport, water, agriculture) in critical geographical areas such as low-lying coastal zones, urban areas and (semi-) arid regions. Outputs include spatially detailed maps of flood and storm surge risks that will serve as input to CLIMATE-ADAPT and to provide DG ENV with guidance for reviewing	31/12/2016	Scientific and policy reports															
1190 - MIC 7 MIC 7	Support ECHO in implementing its new Emergency Response and Coordination (ERCC) by: 1. maintenance of JRC disaster monitoring and warning systems and the ERCC Portal and 2. providing analytical and cartographic services for monitoring and reporting emergencies.	JRC.G.2 Alessandro ANNUNZIATO	9.1.1.1.a	ECHO	ECHO	Olimpia Imperiale		Civ Protection EU - Civil Protection Services in Member States	15/07/2013 14/05/2016	2-Information systems & services (50%) 3-Instrumentation & hardware (20%) 5-Monitoring, verification and surveillance (30%)			COM-AA	1	Informal Global Tsunami Monitoring Group report	Provide a Report to DG ECHO on the implementation of Phase II of the informal group on global tsunami monitoring.	01/12/2015	Scientific and policy reports	
														COM-AA	2	Final report	Provide final report on MIC 7 AA to DG ECHO	16/05/2016	Scientific and policy reports
1194 - DRIVER DRIVER	The demonstratio project aims to improve European Crisis Management Capacity by: 1) Establishing a crisis management testbed 2) Reference methodologies for experimentations and demonstrations 3) Roadmap for ICT and crisis management research for Horizon 2020.	JRC.G.2 Tom DE GROEVE	9.1.1.1.a	ECHO	GROW	QUEVAUVILLER Philippe	HOME	REA - Research Executive Agency of the European Commission	01/04/2014 31/03/2018	2-Information systems & services (50%) 4-Methods and testing (50%)				COM-IA	n/a	n/a	n/a	n/a	n/a
1851 - MIC8 2014+ MIC8 2014+	Purpose of 8th Administrative Arrangement between the JRC and DG-ECHO is to further support DG-ECHO and especially its Emergency Response Coordination Centre (ERCC) with (1) dedicated monitoring and analytical capacities (2) enhanced alerting and modelling in GDACS, (3) improved Tsunami Early Warning System and warning sharing mechanism for the EU MSs and neighbouring countries related to the Mediterranean Sea 4) improved detection of tsunamis through select installation of in-situ devices	JRC.G.2 Alessandro ANNUNZIATO	9.1.1.1.a	ECHO	ECHO	J. Auvinen/ Olimpia Imperiale			01/09/2014 01/04/2016	2-Information systems & services (50%) 3-Instrumentation & hardware (20%) 5-Monitoring, verification and surveillance (30%)				COM-AA	1	MIC8 Final Report	Final report delivered to ECHO describing the main results of the projects and its deliverables. In particular, it will include the ERCC portal improvements as well as the work performed in relation to the GTIMS-2 activities (Global Tsunami Informal Monitoring System – 2nd phase)	15/06/2016	Scientific and policy reports
2031 - PL: ERCC2 Planned: Emergency Response Coordination Centre 2	Support to the Emergency Response Coordination Centre as regards forest fires, floods and droughts	JRC.H.3 Jesus SAN-MIGUEL-AYANZ	9.1.1.1.a	ECHO	ECHO	P. Billing (ECHO.C.1)	ENV GROW		15/01/2015 14/01/2016	7-Scientific, technical & policy consultancy (100%)	JRC.H.7	991 - NAHA Natural Hazards – Droughts, Floods & Forest Fires 927 - FISE Forest Information System for Europe		COM-AA	1	Support ERCC for forest fires	JRC provides scientific and analytical capacity to the Emergency Response Coordination Centre (ERCC) with regard to forest fires	14/01/2016	Scientific information systems and databases
														COM-AA	2	Support ERCC for floods in Europe & global scale	JRC provides scientific and analytical capacity to the Emergency Response Coordination Centre (ERCC) with regard to floods	14/01/2016	Scientific information systems and databases
														COM-AA	3	Support ERCC for droughts in Europe & global scale	JRC provides scientific and analytical capacity to the Emergency Response Coordination Centre (ERCC) with regard to droughts	14/01/2016	Scientific information systems and databases
2086 - SYRIA PCNA Draft SYRIA Urban Information and Analysis for PCNA	This study aims to enhance programmes undertaken in Syria to better plan & target humanitarian & recovery interventions. It enhances these programmes by providing technical support to continuous analysis of critically affected cities in Syria on issues of damage, shelter, basic services & infrastructure. Technical support will be based on establishing a comprehensive Urban Information & Analysis Framework underpinning the data & spatial analysis on damage, shelter, basic services & infrastructure	JRC.G.2 Delilah AL KHUDHAIRY	9.1.1.1.a	DEVCO	DEVCO	Nadim Karkuti	ECHO		30/09/2014 29/09/2015	2-Information systems & services (20%) 5-Monitoring, verification and surveillance (80%)				COM-AA	1	Final "State of Syrian Cities" Synthesis Report	At the end of the project, a final report will be prepared and disseminated summarising the main analyses and achievements of the collaboration. The synthesis report will include highlights from each profile, as well as analysis across all cities profiled during the period 2013-2015.	01/10/2015	Scientific and policy reports
														COM-AA	2	Syria portal	The portal will facilitate information sharing and collaboration processes among stakeholders, both inside and outside Syria. Related activities will include:	01/10/2015	Scientific and policy reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
2124 - EFAS 6 EFAS 6	Support the European Response Coordination Centre by improving the European and Global Flood Awareness Systems (EFAS and GloFAS) with additional research activities and by providing scientific and analytical expertise to the ERC with regards to floods.	JRC.H.7 Jutta THIELEN DEL POZO	9.1.1.1.a	ECHO	ECHO	Peter Billing			30/06/2014 30/06/2015	2-Information systems & services (100%)			COM-AA	1	Support ERCC for floods, flash floods, landslides	JRC provides scientific and analytical capacity to the Emergency Response Coordination Centre (ERCC) with regard to floods and droughts, with updated information of ongoing and upcoming floods. For Europe, this information will be based on an analysis of the national hydrological service web information and cover the period of 0-48 hours.	01/07/2015	Scientific information systems and databases
														2	Extension of EFAS domain (coverage ENP countries)	Data collection and model calibration in support to the extension of EFAS to complete coverage of the Eastern Neighbourhood Countries, and extended to the southern neighbourhood countries.	01/07/2015	Scientific information systems and databases
														3	Flood early warning/monitoring in ENP countries	An assessment of current capacities for flood warning/monitoring in the Southern & Eastern ENP countries.	01/07/2015	Scientific information systems and databases
														4	Support to ERCC for flood events outside Europe	ERCC access to GloFAS products and support to ERCC in the use of GloFAS products	01/07/2015	Scientific information systems and databases
														5	Support to ERCC in case of ongoing droughts	Feasibility study on scientific and analytical support to ERCC in case of ongoing droughts: Collection of ERCC needs with regard to droughts, development of a high level drought indicator for EDO and feasibility study on adaptation of EDO for ERCC purposes	01/07/2015	Scientific information systems and databases
2742 - CoastAIRisk Prototype of a first Global Integrated Coastal Impact-based Flood Alert and Risk Assessment Tool	CoastAIRisk will develop the first global integrated coastal flood risk management system that links satellite monitoring, coupled wave, tide and surge forecasting, inundation modelling and impact analysis. It will perform novel research to (i) model coastal extreme water levels, (ii) derive joint return periods and inundation for concurring inland and coastal floods, and (iii) calculate flood impacts. CoastAIRisk will create a ground-breaking prototype based on knowledge of IPSC, IES and IPTS.	JRC.G.2 Alessandro ANNUNZIATO	9.1.1.1.a	ECHO	JRC	AUVINEN Juha	CLIMA DEVCO		01/01/2015 31/12/2016	2-Information systems & services (100%)	JRC.H.7 JRC.J.1		INS-ER	11	Combined Modelling system	Combined Modelling system for tides, waves and storm surges Ensemble model system for simulating extreme coastal water levels including the combined effects of tides, waves and storm surges. The output of this model will feed the SSCS in real time. The system will also be available in batch mode for scenario calculations.	31/12/2015	Technical systems
														12	journal publication	Submit a journal publication on the application and validation of the developed ensemble modelling system in a selection of major coastal cities and deltas for a number of historical events (e.g., XYNTIA, NARGIS).	30/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														21	report	Development of a new method for assessing the joint occurrence probability of coastal and river flooding in major deltas Report describing the historical data-analysis and numerical integration of the marginal probability distributions of river floods and extreme sea-levels for major deltas, taking into account return periods from GloFAS, GFDS and SSCS.	31/12/2015	JRC Technical reports
														22	Prototype of an advanced tool	Prototype of an advanced large-scale coastal flood inundation modelling tool. Development of a coastal flood inundation simulation and mapping system and the application to the selected test sites, accounting for the complex interaction between coastal and fluvial events in deltas. The system will integrate satellite observed inundation extents and modelled inundation in order to assess the accuracy and eventually for an assimilation process.	31/03/2016	Technical systems
														31	Global database	Global database on coastal flood protection standards The first global coastal flood protection database will be established based on literature study and inverse risk-based modelling	31/08/2015	Scientific information systems and databases
														32	Global database on coastal flood damage functions	The first comprehensive global database of coastal flood damage functions will be developed, for translating flood water levels into human losses and economic direct damages for major economic sectors	31/10/2015	Scientific information systems and databases
														33	Improved assessment of coastal flood losses	Improved assessment of direct and indirect coastal flood losses Submit a journal publication describing indirect and macro-economic losses due to major coastal flood events, such as those resulting from the disruption of production chains or transport links (ports). This will be achieved by the integration of human and direct economic losses into a global Computable General Equilibrium economic mode.	30/09/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														41	Prototype real-time impact alerts in GDACS	Prototype real-time impact alerts and inclusion in the GDACS system The various models and tools will be integrated in a prototype system (possibly as a GDACS module) to produce real-time impact-based alerts and scenario-based future outlooks of coastal flooding events and their consequences	31/12/2016	Technical systems
9.1.1.1.b Analysis, development of warning systems, guidelines, indicators and standards supported by capacity-building activities for disaster risk reduction and mitigation, preparedness and response. Participation in international initiatives on coherent multi-hazard risk and impact assessment methodologies and analysis, and in cooperation partnerships and platforms for multi-disciplinary hazard information. Support the development of a Disaster Risk Management Knowledge																		
374 - GLOB-HS Global Human Settlement Analysis for Disaster Risk Reduction	Developing, testing and applying the technologies and analysis methods integrated in the JRC Global Human Settlement Analysis Platform (GHSAP) for applications in support to global disaster risk reduction initiatives (DRR). GHSAP uses geo-spatial data, mainly remotely sensed and population. GLOB-HS also cooperates with the Group on Earth Observation on SB-04-Global Urban Observation and Information, Int. partners (RADI, IRDR, SANSa) and the UN (incl. UNISDR on Global Assessment Reporting on DRR)	JRC.G.2 Martino PESARESI	9.1.1.1.b	ECHO	n/a	ian.clark@ec.europa.eu	DEVCO		01/01/2014 31/12/2016	2-Information systems & services (65%) 5-Monitoring, verification and surveillance (25%) 7-Scientific, technical & policy consultancy (10%)	JRC.H.6	372 - E-URBAN European Urban Development and Territorial Cohesion	INS-RS	201501	250m Resolution Regional GHSL	Production of regional-scale (250m spatial resolution) globally-consistent geospatial information layer reporting on physical characteristics of human settlements; integration of population layer, land cover & other available sources incl. information extracted by GLOB-HS from satellite data available at JRC CID. Key input to Group on Earth Observation-GEO in SB-04 "Global Urban Observation & Information" task. Contribution to bi-annual 2017 Global Assessment Report on disaster risk reduction.	30/06/2015	Scientific information systems and databases
														201502	High Resolution GHSL production study	"Feasibility study on input high resolution satellite images in the GHSL production workflow" - test on integration of human settlement information extracted from high resolution (2-10m) input images in the global human settlement layer (GHSL)	30/10/2015	Scientific and policy reports
														201503	HR human settlement analysis for South Africa	As part of the signed cooperation (Ares(2013)25239 - 10/01/2013) with the South Africa National Space Agency (SANSa), generate human settlement information covering the whole country. Deliverable is human settlement information extracted from high resolution HR (2m) input images provided by SANSa covering the whole country.	30/10/2015	Scientific information systems and databases
														201504	HR human settlement analysis for Brazil	Application of JRC GHSL system to develop high resolution human settlement data covering all Brazil using image data from CBERS/China-Brazil Earth Resources Satellite. The activity is done within framework of cooperation with Instituto Nacional de Pesquisas Espaciais (INPE) under Brazilian MCTI Cooperation Arrangement Work Programme. It also forms part of the ongoing EU-Brazil Sector Dialogue Support Facility Dialogue project with INPE.	30/10/2015	Scientific information systems and databases
														201601	50m resolution GHSL release	Production of local-scale (50m spatial res.) globally-consistent geospatial information layer reporting on physical characteristics of human settlements - integration of population layer, land cover & other available sources including information extracted by GLOB-HS from satellite data available at JRC CID. Key input to Group on Earth Observation-GEO in SB-04 "Global Urban Observation and Information" task. Contribution to bi-annual Global Assessment Report 2017 on disaster risk reduction.	30/06/2016	Scientific information systems and databases
														201602	Very High Resolution GHSL production study	"Feasibility study on input very high resolution satellite images in the GHSL production workflow" - test on integration of human settlement information extracted from very high resolution (0.5-2m) input images in the global human settlement layer (GHSL)	31/12/2016	Scientific and policy reports
														201603	Multi-temporal HR Human Settlement Analysis for SA	As part of the signed cooperation (Ares(2013)25239 - 10/01/2013) with the South Africa National Space Agency (SANSa), generation of multi-temporal human settlement information extracted from high resolution (2.5m) input images provided by SANSa to support change and trends analysis by SANSa.	31/10/2016	Scientific information systems and databases
														201604	GHSL in Global Assessment Report 2017 (GAR-2017)	Methodology for integration of the global human settlement layer (GHSL) as a human exposure model in the Global Assessment Report 2017 on disaster risk reduction. The deliverable will describe the technical details and the science used to produce the exposure model from the updated GHSL 2016 information. Deliverable will also encompass input to GAR 2017.	30/11/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																																	
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category															
569 - NDAHC Natural Disaster Detection, Monitoring & Alerting for Humanitarian & Civil Protection Communities	Enhance Europe's capacity and that of its Int. partners in prevention, preparedness & response to disasters through research in analytical natural hazard models, alerting devices & capacity building activities. NDAHC focuses on improving & further developing natural hazard & impact models underpinning the JRC-UN Global Disaster Alert & Coordination System (GDACS), supporting MS & partners in developing their Tsunami Warning Systems and testing of Tsunami Alerting Devices with MSs	JRC.G.2 Alessandro ANNUNZIATO	9.1.1.1.b	ECHO	n/a	Olimpia Imperiali		- NATIONAL OBSERVATORY OF ATHENS - NATIONAL OBSERVATORY OF ATHENS Civ Protection EU - Civil Protection Services in Member States Civ Protection EU - Civil Protection Services in Member States ICG/NEAMTWS - Intergovernmental Coordination Group for the Tsunami Early Warning and Mitigation System in the North-eastern Atlantic, the Mediterranean and connected seas (ICG/NEAMTWS) ICG/NEAMTWS - Intergovernmental Coordination Group for the Tsunami Early Warning and Mitigation System in the North-eastern Atlantic, the Mediterranean and connected seas (ICG/NEAMTWS) IGN - Instituto Geografico Nacional IGN - Instituto Geografico Nacional INGV - Istituto Nazionale di Geofisica e Vulcanologia INGV - Istituto Nazionale di Geofisica e Vulcanologia IPMA - Instituto Português do Mar e da Atmosfera IPMA - Instituto Português do Mar e da Atmosfera Inst Meteo PT - Institute of Meteorology (Portugal) Inst Meteo PT - Institute of Meteorology (Portugal) KOPRI - KANDILLI OBSERVATORY	01/01/2014 31/12/2016	2-Information systems & services (60%) 7-Scientific, technical & policy consultancy (10%) 9-Education & training (30%)	JRC.H.7		INS-RS	201501	Volcano ash model in GDACS	Development of new models for Natural disasters and their integration in GDACS. New models include Volcanic ash / lava flow and more detailed impact models to take into account local physical phenomena and population density.	30/11/2015	Scientific information systems and databases															
														201502	Global satellite based flood impact assessment	The Global Flood Detection System – monitoring flooded areas with satellite imagery in near real-time – will be the basis for developing a flood impact assessment system. Moving from a hazard system to a humanitarian impact system will allow delivery of information relevant for decision-making for humanitarian and civil protection agencies. Improvements will be partly carried out through collaborations with the Dartmouth Flood Observatory (US), CEMADEN (Brazil) and NASA (US).	30/06/2015	Technical systems															
														201503	Cyclone Modelling Tsunami calculation hub	Development of new and improve existing models for Natural disasters present in the GDACS system. New models include tropical cyclone model and large infrastructure "calculation hub" for collaborative online tsunami calculations. Integration of NOAA SLOSH code in JRC's tropical cyclone model FW pending the improvement of cooperation with NOAA who is lacking resources to contribute on this priority.	15/12/2015	Technical systems															
														201504	Functional & Available GDACS for user community	Activities are undertaken to keep the Global Disaster Alerts & Coordination System, GDACS, operational and fully functional to serve the needs of its more than 24000 users in the humanitarian and international emergency response communities. Additional and improved data layers will be also integrated in GDACS accommodating new disaster models. GDACS web site through which information is also shared with its user community will be upgraded and updated taking into account advances in technology.	30/04/2015	Technical systems															
														201505	Support MSs establish Storm Surge Monitor System	JRC will support MSs & Mediterranean Countries in establishing a monitoring system that forecasts potential occurrence of storm surge along the coasts. A complete calculation system using forecasts from meteorological institutes will be established based on JRC's preliminary experience in 2014. The monitoring system includes the creation of a joint daily bulletin showing potential impact along the coasts. Initial Cooperating countries include Portugal, Greece and later Turkey, Morocco & others.	15/12/2015	Technical systems															
														201506	5th Int. Workshop of Global Flood Working Group	Report of 5th international global flood workshop with results, R&D and operational gaps and recommendations. Workshop brings together Int. scientific & operational participants covering flood observation, forecasting and modelling, operational use and decisions making.	31/10/2015	Monographs with JRC editorship															
														201601	6th Int. Workshop of Global Flood working group	Report of 6th International global flood workshop with results, R&D and operational gaps and recommendations. Workshop brings together Int. scientific & operational participants covering flood observation, forecasting and modelling, operational use and decisions making. By 5th workshop, we expect to have made advances on establishing an Int. Partnership on Floods from scientific research to operations to support capacity building and information sharing at national, regional and global levels.	30/09/2016	Monographs with JRC editorship															
2107 - RESURBAN Resilience of the urban built environment to natural and induced hazards	Assess the resilience of EU buildings to natural and man-made hazards (i.e. earthquake hazard and induced seismicity). The work focuses on the existing building stock in Europe in areas of moderate-to-high seismicity. It includes the development of building inventories at European level with data allowing to assess their seismic vulnerability and implications of sustainability (i.e. energy efficiency, reduction in the use of natural resources and waste) for decision making on building renovation	JRC.G.4 Fabio TAUCER	9.1.1.1.b	ECHO	n/a	n/a	ENER ENV GROW REGIO		01/01/2015 31/12/2017	1-Foresight studies & techniques (50%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (50%)			INS-RS	1	European building inventory framework	Set up a framework for creating an inventory of buildings in the EU at regional level combining existing data. The framework will address the combination of different sources of data and its homogenization, both from Member States and Regional authorities as well as from previous FP research projects at EU level, using field, airborne and ancillary data.	15/12/2015	JRC Technical reports															
														2	Seismic fragility of EU building stock	Selection and calibration of appropriate seismic fragility curves for buildings. The fragility curves must be compatible with the level of detail of the EU inventory and shall address the economic dimension of the problem for existing, retrofitted and new structures.	15/12/2015	JRC Technical reports															
														3	Assessment of EU resilience of buildings	Seismic risk assessment at EU level considering current conditions (existing structures) and different scenarios for combinations of existing, retrofitted and new structures. Provisional evaluation of current and future trends for energy and resources efficiency.	15/12/2016	Scientific and policy reports															
9.1.1.1.c Development of methodologies and guidelines, scientific advice and capacity-building to enhance regional and national resilience and improve vulnerability risk assessments, loss data recording and risk mapping of partner countries;																																	
2082 - ECHO MAHB 2014-2015 Strengthening Chemical Accident Prevention Programmes in EU Neighbour and Enlargement Countries	This project is part of the 2014-2020 civil protection policy and aims to strengthen risk governance and chemical accident prevention and preparedness in enlargement and European Neighbourhood Policy countries in support of Seveso Directive Implementation. 2014-2015 focuses on strategy development and development of online analysis tools to support policy decision making and implementation.	JRC.G.5 Maureen WOOD	9.1.1.1.c	ECHO	ECHO	Roberto Schiliro	ENV NEAR	- United Nations Environment Programme E&I countries - Enlargement & Integration - countries MS EU - Member states EU UN ECE - UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE	01/07/2014 30/06/2015	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)	293 - MAHB Major Accident Hazards Bureau			COM-AA	1	Accident analysis studies and IT tools-2015-2Q	Completion of beta test of the Accident Information and Data Analysis (AIDA) basic module for accident registration	31/12/2015	Scientific information systems and databases														
															2	Accident Analysis and IT Tools-2015-4Q	Final version of the AIDA basic module for accident registration	31/12/2015	Scientific information systems and databases														
															3	Accident Analysis Studies and IT Tools - 2016	Assessment of accident analysis methodologies for design of the analytical module of the AIDA platform	30/06/2016	Scientific and policy reports														
															5	Chemical Accident Risk Analysis - 2015	1-Content management system for Enlargement and EU Neighbour countries within the online web platform of the JRC-MAHB project (the MINERVA platform) 2-Prototype of the online version of the Accident Damage Assessment Model (ADAM)	31/12/2015	Scientific information systems and databases														
															6	Chemical Accident Risk Analysis-2016	Launch of the beta test of the online version of the Accident Damage Assessment Model (ADAM)	31/12/2016	Scientific information systems and databases														
															8	Capacity Building Strategy -2015	1-Final report of survey of EU enlargement and neighbour countries on status of chemical accident prevention programmes 2-Final strategy document for project first phase	30/06/2015	Scientific and policy reports														
															9	Capacity Building Implementation-2015	1 workshop for countries in one target region (out of 3 regions) to establish regional project objectives 1 training workshop on the Accident Damage Assessment Model online tool	31/12/2015	Training														
															10	Capacity Building Implementation-2016	1 workshop each for two regions of target countries (out of 3 regions)	30/06/2016	Training														
															9.1.1.1.d Global humanitarian and disaster risk and needs analysis to support improvement of the evidence base for the decision-making of aid programmes and other support actions focused on mitigation, anticipation, preparedness for and response to humanitarian emergencies and disasters by strengthening existing methodologies and tools for risk vulnerability and crisis assessment. Exploration of the extension of evidence and data based approaches on disaster risk reduction to																		
															437 - E-DRisk European Disaster Risk & Science-Policy Partnerships for Disaster Management	The EU aims at better understanding disaster risk in EU and beyond to build a more resilient society & implement evidence-based disaster risk management policies. This project provides scientific support towards risk assessment in EU & globally & developing guidelines for loss data recording. E-DRisk also studies the interface between science and risk reduction & emergency response, & explores the advantages of natural hazard partnerships at EU level for improving science based advice.	JRC.G.2 Tom DE GROEVE	9.1.1.1.d	ECHO	n/a	ian.clark@ec.europa.eu	DEVCO SG	UK Met Office - UK Met Office Civ Protection EU - Civil Protection Services in Member States MS EU - Member states EU UN ISDR - United Nations International Strategy for Disaster Reduction (UN-ISDR) UNDP - United Nations Development Programme	01/01/2014 31/12/2016	2-Information systems & services (30%) 5-Monitoring, verification and surveillance (35%) 7-Scientific, technical & policy consultancy (35%)	374 - GLOB-HS Global Human Settlement Analysis for Disaster Risk Reduction			INS-RS	21	Technical Review of EU Risk Assessment Guidelines	As part of an overall disaster prevention framework, the Commission, together with Member States, developed EU guidelines for Risk Assessment and Mapping for Disaster Management. The JRC will support DG ECHO to revise these guidelines based on new scientific developments and advances in Member States risk assessment methodologies.	01/06/2015
22	Second Release of InFoRM Index	Based on scientific improvements and analysis of evolving requirements of the partners (EU, UN, World Bank, EU MSs, and others) of the InFoRM project (Index for disaster risk management), a 2nd iteration of the methodology will be developed, implemented and published, with a focus on subnational and regional scale and application to disaster risk reduction policies. This is carried out within the framework of the MoU between JRC and ECHO signed in 2013.	16/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index																													
23	Proposal for EU Guidelines for Recording Loss Data	Development of a proposal for EU Guidelines for Recording Loss Data, in alignment with existing work in EU Member States and with international initiatives and practices. This document is intended to be the outcome of discussions with Member States initiated by the Loss Data report published in 2013 & State of the Art in the EU in 2014.	01/07/2015	Scientific and policy reports																													
31	Third Release of InFoRM Index	Based on scientific improvements and analysis of evolving requirements of the partners (EU, UN, World Bank, EU MSs, and others) of the InFoRM project (Index for disaster risk management), a 3rd iteration of the methodology will be developed, implemented and published. This is carried out within the framework of the MoU between JRC and ECHO signed in 2013.	30/06/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index																													
32	EU Loss Data Record	The JRC will develop a reference implementation of a database and web-based system for recording loss data in the EU, and to collect data from Member States at European level for EU policies and for contributing to the Hyogo Framework for Action 2015+.	01/11/2016	Technical systems																													
1855 - DRM 2014 Scientific Support to Disaster Risk Management	The purpose is to support DG-ECHO with new tools and methodologies to systematically assess humanitarian needs and use this data in strategic and operational decisions. This includes (1) risk assessment (adopting multi-stakeholder InFoRM humanitarian risk index in ECHO decision making processes), (2) risk data (developing with EU Member States an EU Standard for Loss Data recording) and (3) IT support to ECHO's Integrated Assessment Framework (first step in funding allocation).	JRC.G.2 Tom DE GROEVE	9.1.1.1.d	ECHO	ECHO	I. Clark		01/03/2014 28/02/2015	2-Information systems & services (50%) 5-Monitoring, verification and surveillance (20%) 7-Scientific, technical & policy consultancy (30%)				COM-AA	2	DRM2014 Final Report	Science & Policy Report describing the various deliverables for the DRM2014 project. These include a number of datasets, a summary of progress of the InFoRM (Index for Risk Management) and a summary of progress on Loss Data Recording in the EU	28/02/2015	Scientific and policy reports															
1856 - DRAFT DRM 2015 DRAFT DRM 2015	The purpose is to support DG-ECHO with new tools and methodologies to systematically assess humanitarian needs and use this data in strategic and operational decisions. This includes (1) risk assessment (adopting multi-stakeholder InFoRM humanitarian risk index in ECHO decision making processes), (2) risk data (developing with EU Member States an EU Standard for Loss Data recording) and (3) IT support to ECHO's Integrated Assessment Framework (first step in funding allocation).	JRC.G.2 Tom DE GROEVE	9.1.1.1.d	ECHO	ECHO	Ian Clark		01/03/2015 28/02/2016	2-Information systems & services (40%) 5-Monitoring, verification and surveillance (40%) 9-Education & training (20%)				COM-AA	1	DRM2015 Final Report	Science & Policy Report describing the various deliverables for the DRM2015 project. These include a number of datasets, a summary of progress of the InFoRM (Index for Risk Management) and a summary of progress on Loss Data Recording in the EU	28/02/2016	Scientific and policy reports															

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1860 - Conflict Risk scan DRAFT Global Conflict risk Scan	Further develop the underlying methods and implement them in the Global Conflict Risk Scan to support and enhance the Conflict early warning and risk assessment capacity of the EEAS. This is a follow-up of 33365 JYpsy ref AA.	JRC.G.2 Tom DE GROEVE	9.1.1.1.d	FPI	FPI	EEAS is main beneficiary			28/12/2014 27/12/2015	2-Information systems & services (70%) 5-Monitoring, verification and surveillance (30%)			COM-AA	1	Global Conflict Risk Scan - improved methodology	Science & Policy Report describing the progress in the Global Conflict Risk Scan (GCRS) methodology, which is a novel quantitative tool based on open data to assess the risk for deterioration in conflict status of countries. The report describes the source data, statistical model and the results. The GCRS methodology is supported by an international panel of quantitative conflict researchers lead by the JRC.	15/12/2015	Scientific and policy reports
2041 - DFIDInform DFID INFORM	UKDFID supports JRC to maximise exploitation and use of Humanitarian Risk Index (InforM) developed by JRC, ECHO & Int. partners amongst humanitarian and development aid communities globally. JRC will continuously improve & maintain InforM web-based platform through which InforM analyses & data are disseminated and communication is facilitated amongst its partner. JRC will host InforM workshops; JRC will develop communication strategy & manage communication with stakeholders & public relations	JRC.G.2 Tom DE GROEVE	9.1.1.1.d	ECHO	n/a	Ian Clark	AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) IASC - UN Inter-Agency Standing Committee UN OCHA - United Nations, Office for the coordination of Humanitarian Affairs UNDP - United Nations Development Programme WFP - World Food Program of the United Nations		01/09/2014 30/08/2017	2-Information systems & services (60%) 5-Monitoring, verification and surveillance (30%) 7-Scientific, technical & policy consultancy (10%)			COM-TW	1	DFIDInform Interim Report	Science & Policy Report describing the various deliverables for the DFIDInform project. These include a number of datasets, a summary of progress of the development and roll out of InforM (Index for Risk Management) in various organisations.	01/12/2015	Scientific and policy reports
														2	DFIDInform Final Report	Science & Policy Report describing the various deliverables for the DFIDInform project. These include a number of datasets, a summary of progress of the development and roll out of InforM (Index for Risk Management) in various organisations.	30/08/2017	Scientific and policy reports
9.1.1.2 Fight against global, transregional and emerging threats																		
9.1.1.2.a Support to the partner DGs for the preparation and implementation of EU activities in third countries under the instrument contributing to Stability and Peace with a specific focus on CBRN risk mitigation, in particular the EU CBRN Centres of Excellence initiative;																		
33 - Central Asia Border monitoring activities in the republic of Georgia, Central Asia and Afghanistan	The project has been developed fully in line with the Strategy paper for the longer-term actions under the Instrument for Stability (IFS) and the corresponding Indicative programme for 2009-2011. The project will enhance the fight against illicit trafficking of nuclear and radioactive materials in Uzbekistan, Tajikistan and Georgia. The support will bring capacity building by deploying radiation detection equipment, providing sustainable training, and enhancing international collaboration.	JRC.E.8 Veronique BERTHOU	9.1.1.2.a	DEVCO	DEVCO	Unit Head Devco.B.5	Cust Georgia - Georgian Customs Authorities Cust Tajik - Tajikistan Customs Authorities Cust Uzbek - Uzbekistan Customs Authorities EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) NRSA - Tajikistan Nuclear and Radiological Safety Institute Chulalongkorn University - Thailand Chulalongkorn University Cust Cambodia - General Department of Customs and Excise of Cambodia (GDCE) DGDA RDC - Direction générale des douanes et accises - Douanes congolaises IAEA - International Atomic Energy Agency (IAEA) Lao.MOST - Lao Ministry of Science and Technology		02/12/2009 15/06/2015	4-Methods and testing (50%) 9-Education & training (50%)	JRC.E.7	238 - SEA-CONGO Combating illicit trafficking of nuclear and radioactive materials in South East Asia and DRC 666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations	COM-AA	2	Tajikistan Final report	Final report of the Tajik Project	30/06/2015	JRC Technical reports
														4	Georgia final report	Final report of the Georgia project	30/12/2015	Scientific and policy reports
238 - SEA-CONGO Combating illicit trafficking of nuclear and radioactive materials in South East Asia and DRC	The project has been developed fully in line with the Strategy paper for the longer-term actions under the Instrument for Stability (IFS) and the corresponding Indicative programme for 2012. The project will enhance the fight against illicit trafficking of nuclear and radioactive materials in South East Asia and DRC. The support will bring capacity building by deploying radiation detection equipment, providing sustainable training, and enhancing international collaboration.	JRC.E.8 Veronique BERTHOU	9.1.1.2.a	DEVCO	DEVCO	Head of Unit Devco.B.5	Cust Georgia - Georgian Customs Authorities Cust Tajik - Tajikistan Customs Authorities Cust Uzbek - Uzbekistan Customs Authorities EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) NRSA - Tajikistan Nuclear and Radiological Safety Institute Chulalongkorn University - Thailand Chulalongkorn University Cust Cambodia - General Department of Customs and Excise of Cambodia (GDCE) DGDA RDC - Direction générale des douanes et accises - Douanes congolaises IAEA - International Atomic Energy Agency (IAEA) Lao.MOST - Lao Ministry of Science and Technology		21/12/2012 20/12/2015	4-Methods and testing (30%) 9-Education & training (70%)	JRC.E.7	33 - Central Asia Border monitoring activities in the republic of Georgia, Central Asia and Afghanistan 666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations	COM-AA	2	South East Asia	Final report of the South East Asia Project	31/12/2015	JRC Technical reports
														4	DRC	Final report of the DRC Project	31/12/2015	JRC Technical reports
270 - COE-3rd Centres of excellence (COE) - 3RD ROUND	The Centres of Excellence Initiative joins international efforts in counteracting chemical, biological, nuclear and radiation terrorism threat. This project aims at supporting the development of an integrated regional nuclear safety and security system, developing and strengthening national border control capacity, fostering inter-agency regional cooperation and building capacity in nuclear forensics.	JRC.E.8 Veronique BERTHOU	9.1.1.2.a	DEVCO	DEVCO	Head of Unit Devco.B.5	HOME EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) UNICRI - United Nations Interregional Crime and Justice Institute US DoE - US Department of Energy (DOE)		21/12/2012 20/12/2016	7-Scientific, technical & policy consultancy (70%) 9-Education & training (30%)	JRC.E.7	666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations 1370 - IFS MED - FSU - B07 Combating illicit trafficking of RN materials in FSU and Mediterranean countries 238 - SEA-CONGO Combating illicit trafficking of nuclear and radioactive materials in South East Asia and DRC	COM-AA	1	Yearly report Project 21	This project will aim at supporting capacity building 2 regions (African Atlantic Façade and South East Asia) by providing train the trainer courses hence ensuring sustainability of the knowledge, and will aim at encouraging the development of inter-agency cooperation and collaboration by organizing regional exercises. The report will present the achievements with the detailed seminars and training.	29/12/2015	JRC Technical reports
														2	Yearly report Project 28	This project aims at supporting the development of an integrated regional nuclear safety and security system. This will be achieved by assessing the adoption of laws and regulation in the field, improving the security and safety related to the radioactive sources by encouraging the establishment of storage facilities and completion of inventories, disseminate best practices for the development of a national response plan in the participating countries. The report will summarize the achievements.	29/12/2015	JRC Technical reports
														3	Yearly Report Project 30	This project aims at improving the nuclear forensics capabilities at regional level. To this end, a network-like structure is envisaged using the Thai "Atoms for Peace Office" as a hub. Project elements will include an assessment of available capabilities (technical and administrative infrastructure) and of the needs in order to establish core capabilities in nuclear forensics, as recommended by the Nuclear Forensics International Technical Working Group (ITWG).	29/12/2015	JRC Technical reports
														4	Interim report GUAM	This project supports GUAM countries (Georgia, Ukraine, Armenia, Moldova) and will strengthen capacity building in nuclear security, especially nuclear forensics. The results will be summarised in an intermediate report.	31/12/2015	JRC Technical reports
														5	Final report Project 21	Final report of the project 21: This project will aim at supporting capacity building 2 regions (African Atlantic Façade and South East Asia) by providing train the trainer courses aiming at encouraging the development of inter-agency cooperation and collaboration by organizing regional exercises. The report will present the achievements with the detailed seminars and training.	20/12/2016	Scientific and policy reports
														6	Final report Project 28	This project aims at supporting the development of an integrated regional nuclear safety and security system. This will be achieved by assessing the adoption of laws and regulation in the field, improving the security and safety related to the radioactive sources by encouraging the establishment of storage facilities and completion of inventories, disseminate best practices for the development of a national response plan in the participating countries. The report will summarize the achievements.	20/12/2016	Scientific and policy reports
														7	Final report Project 30	This project aims at improving the nuclear forensics capabilities at regional level. To this end, a network-like structure is envisaged using the Thai "Atoms for Peace Office" as a hub. Project elements will include an assessment of available capabilities (technical and administrative infrastructure) and of the needs in order to establish core capabilities in nuclear forensics, as recommended by the Nuclear Forensics International Technical Working Group (ITWG).	20/12/2016	JRC Technical reports
														8	Final report GUAM	This project supports GUAM countries (Georgia, Ukraine, Armenia, Moldova) and will strengthen capacity building in nuclear security, especially nuclear forensics. The results will be summarised in an intermediate report.	20/12/2014	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
754 - CBRN CoE 2 Chemical Biological Radiological and Nuclear Centres of Excellence	Outside the EU, JRC supports DEVCO in the implementation of the EU CBRN Risk Mitigation Centres of Excellence Initiative through provision of technical inputs, analysis of CBRN needs in partner countries and regions, analysis of project proposals, contribution to the preparation of terms of reference for selected projects (when not implemented by JRC), ensuring communication/coordination among all stakeholders, ensuring technical evaluation, quality control and follow-up of executed projects	JRC.A.4 MARGARIDA GOULART DE MEDEIROS	9.1.1.2.a	DEVCO	DEVCO	tristan.simonart@ec.europa.eu	GROW HOME TAXUD TRADE	EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) WHO - World Health Organization	19/10/2012 31/12/2015	1-Foresight studies & techniques (10%) 5-Monitoring, verification and surveillance (40%) 7-Scientific, technical & policy consultancy (50%)	JRC.D.3 JRC.E.7 JRC.E.8 JRC.G.2 JRC.I.4	1370 - IFS MED – FSU – B07 Combating illicit trafficking of RN materials in FSU and Mediterranean countries 907 - SUPPIO International Cooperation in the Nuclear Security Area 270 - COE-3rd Centres of excellence (COE) - 3RD ROUND 238 - SEA-CONGO Combating illicit trafficking of nuclear and radioactive materials in South East Asia and DRC 33 - Central Asia Border monitoring activities in the republic of Georgia, Central Asia and Afghanistan 1230 - CBRNE Glossary Establishment of a library of CBRNE-related terms	COM-AA	11	Project Management & Coordination	Coordination of JRC activities for the timely submission of deliverables and the quality of results. Coordination with stakeholders internal to the project (DEVCO, UNICRI, partner countries), with other EU services and MSs and with other stakeholders (Working groups, key donors). Progress Report communicated every 6 months to DEVCO	18/12/2015	Scientific and policy reports
														12	Synergies & overlaps among CoE projects	CBRN CoE project mapping exercise, aiming at achieving synergies among project actions in a given region, will be yearly updated. Reports with recommendations to DEVCO for further action, in order to maximise the project outcome, will be delivered.	30/11/2015	Scientific and policy reports
														21	National Focal Points status	Quarterly reports on National Focal Points and National Teams and Regional Secretariats status	30/11/2015	Scientific and policy reports
														22	Maintenance of CoE private portal and databases	The CoE private portal will be continuously updated with: List of expertise with individual expert details. Individual project and partner country details, including overall status, implementers, project locations, budgets and information on objective and deliverables. Focused webpages for remaining 4 regional secretariats (Abu Dhabi, Algiers, Nairobi and Tashkent) in arabic and russian when relevant. Database of projects on-going in the field of CBRN risk mitigation.	18/12/2015	Scientific information systems and databases
														23	Newsletter	Publication and distribution of a newsletter published quarterly in English, French, Russian and Arabic	18/12/2015	Public information documents
														32	Technical evaluation and ranking of project offers	JRC will provide technical support to DG DEVCO in the evaluation and ranking of project offers	18/11/2015	Scientific and policy reports
														33	Evaluation of the project implementation (1-19)	Evaluation of project implementation, performed against defined criteria, following the dedicated evaluation methodology. For projects managed by UNICRI (1-19), provide to DG DEVCO final evaluation reports. Upon request evaluation of some key deliverables.	15/07/2015	JRC Technical reports
														34	Evaluation of project implementation (21-32)	Evaluation of project implementation, performed against defined criteria, following the dedicated evaluation methodology. For projects 21 to 32, (not implemented by JRC), JRC will focus on the technical evaluation of project reports and key deliverables. JRC will deliver the final and ex-post evaluation reports.	18/12/2015	Scientific and policy reports
														35	Evaluation of project implementation (33 onwards)	Evaluation of project implementation, performed against defined criteria, following the dedicated evaluation methodology JRC will provide: Technical evaluation plan including mid-term, final and ex-post reports Technica evaluation of project deliverables upon request by DG DEVCO	18/12/2015	Scientific and policy reports
														43	Needs Assessment Reports	Organisation and planning of NAQ missions to selected countries. Data analysis reports: data provided by the partner countries during the NAQ missions.	18/12/2015	Scientific and policy reports
														44	CBRN Action Plans	Development of CBRN National Action Plans (NAPs) defining the partner country's priorities for enhancing capabilities in terms of prevention, detection, preparedness and response. Template of a CBRN NAP in selected countries will be delivered by the end of 2014. Support to the drafting of CBRN AP will be provided upon request from DEVCO.	18/12/2015	Scientific and policy reports
52	EU Long Term Programme III	Review of the LPTIII mid-term report for end 2014. Analysis and evaluation of LPT III reports and Jordan-Kazakhstan project's reports	15/10/2015	Scientific and policy reports														
55	Trade Atlas on dual-use related commodities	Design and development of a support tool to identify strategic EU outreach priority countries from a trade relevance perspective. Focus on third countries' import/export of dual-use related commodities including position in trade vs EU. The system will provide the automatic generation of trade profiles for about 150 countries reporting import-export records to the UN COMTRADE database. Trade profiles will be made available in electronic format on the system.	30/10/2015	Scientific and policy reports														
1370 - IFS MED – FSU – B07 Combating illicit trafficking of RN materials in FSU and Mediterranean countries	The project has been developed fully in line with the Strategy paper for the longer-term actions under the Instrument for Stability (IFS) and the corresponding Indicative programme for 2009-2011. The project will enhance the fight against illicit trafficking of nuclear and radioactive materials in Mediterranean Basin and FSU countries. The support will bring capacity building by deploying radiation detection equipment, providing sustainable training, and enhancing international collaboration	JRC.E.8 Veronique BERTHOUE	9.1.1.2.a	DEVCO	DEVCO	Head of Unit Devco.B.5	HOME	CNR - Morocco - Moroccan National Centre for Radioprotection - Centre national de la radioprotection - Maroc Cust Algeria - Algerian Customs - Douanes algériennes Cust Belarus - State Customs Committee of the Republic of Belarus - Государственный таможенный комитет Республики Беларусь Cust Morocco - Moroccan Customs - Administration des Douanes et	01/01/2010 30/06/2015	4-Methods and testing (30%) 9-Education & training (70%)			COM-AA	2	Algeria	Final report of the Algerian Project	30/12/2015	JRC Technical reports
														3	Morocco	Final report of the Moroccan Project	30/12/2015	JRC Technical reports
2288 - FS EPR SEA Emergency Preparedness and Response in South East Asia	Assessment of the feasibility of establishing (or enhancing existing) regional co-operation on emergency preparedness and response in ASEAN (Indonesia, Malaysia, Philippines, Singapore, Thailand and Vietnam), with a view to bringing arrangements and capabilities in the region to a level comparable with best international practice and ensuring their sustainability	JRC.E.8 Marc DE CORT	9.1.1.2.a	DEVCO	DEVCO	DG DEVCO B5 A. van der Meer, J.Mota	ENER	OAP - Thai Office for Atom for Peace	01/12/2014 28/02/2016	2-Information systems & services (55%) 5-Monitoring, verification and surveillance (35%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (10%)		714 - ECURIE/EURDEP ECURIE/EURDEP	COM-AA	201401	Technical Annex Updated	Recommendations and update of the Technical Annex of the contract	30/12/2014	JRC Technical reports
														201501	Road map for regional cooperation on EP&R in ASEAN	Report, with an annex for each of the six ASEAN countries, compiling existing and foreseen arrangements and capabilities in a number of key areas of EP&R	30/06/2015	Scientific and policy reports
														201502	Regionalized prototypes of ECURIE and EURDEP	Feasibility study for the implementation of regionalized prototypes of ECURIE and EURDEP: Documentation of the ECURIE and EURDEP system and EC experience of their use, including a feasibility study for the implementation of "regionalized" prototypes of ECURIE and EURDEP (including hardware, software and human resources assessment).	30/06/2015	Technical systems
														201503	Early warning/alert system in Asean	Specifications for an early warning/alert system and a platform for the automatic exchange of environmental monitoring information for use in ASEAN, including the limitations identified in the current early warning and environmental monitoring networks in ASEAN and how these may be remedied	30/12/2015	Technical systems
														201504	Assessment of needs on EP&R in ASEAN	Report on the findings of the assessment of needs for technical support for decision making in each of the six ASEAN countries and in the ASEAN region as a whole, including an integrated strategy for enhancing capabilities for technical support for decision making at a national level and the ASEAN region as a whole.	30/06/2015	Scientific and policy reports
														201601	Final report summary of tasks	The final report will include the proceedings of the dissemination workshop, the minutes of the final meeting and the press release as well as a summary of the progress reports, the main achievements of the project and next steps to be done.	31/03/2016	Scientific and policy reports
9.1.1.2.b Analysis, provision of methods and tools, capacity-building of authorities in non-EU countries, and collaboration with international partners for counteracting global and trans-regional threats;																		
294 - HUBBLEU Blue Hub	Development of the in-house research data fusion platform (Blue Hub) for maritime surveillance and situational awareness. The system integrates ship reporting data with other satellite sensor data and builds the single maritime picture. It uses data fusion algorithms and offers tracking and risk analysis facilities. Validation of the platform through campaigns and pilot exercises. Data exchange facilities. This project is underpinning research designed to serve the needs of a number of policies.	JRC.G.3 MICHELE VESPE	9.1.1.2.b	DEVCO	n/a	Jutta POMOELL-SEJUROLA, Pantelis VASSILIOU (DEVCO), Marcus HOUBEN (EEAS), Robert MISSEN (MOVE), Oliver SEIFFARTH (HOME), Georgios VOUREKAS (FRONTEX), Isto MATTILA (MARE)	GROW HOME MARE MOVE	EMSA - European Maritime Safety Agency IOC - Indian Ocean Commission	01/01/2014 31/12/2016	2-Information systems & services (100%)		295 - MARSEC Maritime Security 1904 - Maritime-KD Maritime Spatial Data Mining and Knowledge Discovery	INS-UR	3	Software facilities development and implementation	Software facilities development to export and share the maritime picture for interoperability exercises.	01/12/2015	Scientific information systems and databases
														4	Impact assessment – maritime situational awareness	Identification and development of appropriate methods to model and simulate maritime traffic for impact assessment purposes. The methods should also support the assessment of the impact on maritime situational awareness achieved through the introduction of new monitoring systems or given by the improvement of current capabilities.	01/12/2016	Technical systems
														5	Software facilities improvement	Porting of the methods developed in Maritime-KD project into the Blue Hub platform for pre-operational demonstrations. This will also allow the testing and refinement of the anomaly detection tools on large datasets and in near real time.	01/12/2016	Scientific information systems and databases
														6	Scientific papers and reports	Scientific papers or scientific/technical reports related to maritime data fusion theoretical aspects and applications. In particular, contributions on advanced tracking approaches, information fusion and anomaly detection shall originate from the R&D findings related to deliverables 1-3.	01/12/2016	Scientific and policy reports
741 - PMAR-MASE-1 Piracy Maritime Awareness and Risks in MASE	JRC trial implementation of the PMAR system for maritime awareness to authorities in East Africa (Information Sharing Centre in Mombasa, Kenya) on behalf of the Indian Ocean Commission. The system is designed to serve the fight against piracy in the Western Indian Ocean region, but is a cornerstone for improved maritime governance in general in this region.	JRC.G.3 Herman VAN WIMERSMA GREIDANUS	9.1.1.2.b	DEVCO	DEVCO	Pantelis Vassiliou	MARE	IOC - Indian Ocean Commission	01/07/2014 30/09/2015	2-Information systems & services (100%)		294 - HUBBLEU Blue Hub 295 - MARSEC Maritime Security	COM-TW	3	Final project overview report	A report that provides an overview and summary of the project as it was executed.	30/09/2015	JRC Technical reports

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1904 - Maritime-KD Maritime Spatial Data Mining and Knowledge Discovery	Analysis of maritime positioning and contextual data to frame the next generation tools in support of policy makers and operational authorities. The project uses spatial data mining and knowledge discovery techniques to deliver decision support and intelligence elements for activity mapping, situational prediction and anomaly detection at sea. The results take the form of static/dynamic layers and alerts (using the Blue Hub).	JRC.G.3 MICHELE VESPE	9.1.1.2.b	DEVCO	n/a	Jutta POMOELL-SEGUROLA, Pantelis VASSILIOU (DEVCO), Marcus HOUBEN (EEAS), Robert MISSEN (MOVE), Oliver SEIFFARTH (HOME), Georgios VOUREKAS (FRONTEX), Isto MATTILA (MARE)	GROW HOME MARE MOVE	EMSA - European Maritime Safety Agency FRONTEX - European Agency for the Management of Operational Cooperation	01/01/2015 31/12/2016	2-Information systems & services (50%) 4-Methods and testing (50%)		294 - HUBBLEU Blue Hub	INS-UR	1	AIS fleet register mapping	With the advent of Directive 2011/15/EU, all EU fishing vessels of overall length exceeding 15 metres are also required to be fitted with AIS from May 2014. This study will investigate how this Directive will impact the number of fishing vessels that can be monitored and the value of AIS as positional tracking system for fishing vessels	01/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														2	Mapping fishing activities	Automatic extraction of fishing density areas based on historical AIS positional tracking data broadcast by fishing vessels.	30/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														3	Mapping maritime transport routes and patterns	Automatic extraction of ports, stationary areas and common patterns (i.e. routes and activities at sea) information using LRIT data. Collaboration with EMSA is indispensable for access to the data.	30/11/2015	JRC Technical reports
														5	Probabilistic risk analysis	Evaluation of risk maps, that is the probability associated to a maritime threat combined to the relevant consequences in case of occurrence. As an example, risk maps can be produced for anti-piracy or irregular migration by observing the correlation between such events and environmental data.	01/06/2016	Technical systems
														6	Anomaly Detection	Improved methods and techniques for flagging suspicious ship behaviour and detecting anomalies using reporting (e.g. AIS, LRIT) and active systems (e.g. SAR) based on: - deviation from the normality extracted from historical positioning data (learning based low-likelihood behavior detection); - knowledge derived from Subject Matter Experts (rule based anomaly detection).	01/06/2016	Technical systems
														7	Container and vessel positioning data integration	Combination of container traffic information and vessel positioning data to enhance the corresponding anomaly detection processes.	30/11/2016	Technical systems
														9.1.1.2.c Development of analytical tools to support the monitoring of raw materials:				
286 - SIT4RD Statistics, Remote Sensing & Information Technologies for Monitoring Trade & Production of Diamonds	Kimberley Process-KP is Int. agreement to keep conflict diamonds from entering legal trade. SIT4RD develops methods & tools for processing & managing KP trade/production data from EU & its 6 EU-KP Authorities. It develops reference satellite-based methods for monitoring diamond mining activities in support to KP audits & reviews. JRC leads KP-EU Reconciliation expert team & KP Statistics WG sub-team. SIT4RD now extends support to EU supply chain initiative for responsible sourcing of minerals.	JRC.G.2 Spyros ARSENI	9.1.1.2.c	FPI	n/a	Daniele Senzanonna	DEVCO TRADE	EEAS - European External Action Service MS EU - Member states EU UN Kimb WG - UN Kimberley Process working Groups	01/01/2014 31/12/2016	2-Information systems & services (70%) 7-Scientific, technical & policy consultancy (30%)		285 - SITAF Statistics and Information Technologies for Anti-fraud	INS-RS	201500	Representation of the EU to the KP-WGS	Bring to the KP-WGS, EU policy on the collection and analysis of KP data, prepare four annual statistical reports on other participants, carry out regional statistical data analyses on demand, carry out reconciliation exercises with EU partners in the KP, take part in KP review visits to KP partner participants, keep FPI informed of issues and concerns arising in the implementation of the KPCS EU-wide and across the KP community, participate in WGS teleconferences and two annual KP meetings.	01/11/2015	Scientific and policy reports
														201501	Joint EU-US Method for Monitoring Diamond mining	In cooperation with USGS adapt and test satellite-based methodology developed in 2013 for monitoring alluvial diamond mining activities in the Ivory Coast to other countries in Africa (2 in 2015). Activities include adaptation of interpretation rules & guidelines and conducting related tests in select sites in KP countries. Final deliverables are common EU-US methods adapted to select KP countries and endorsed by the KP.	15/10/2015	Validated methods, reference methods and measurements
														201502	Expansion of ADAMAS as a EU/KP system	In 2015, ADAMAS will be maintained as the EC internal informational system for storing and tracing communications to the EC from the EU/KP Authorities, and for processing and reconciling data of other participant KP authorities to the EU. ADAMAS will expand to allow the uploading of KP data from all EU/KP authorities with error detection capabilities at the time of submission and the capability to delegate to the EU/KP authorities data edits and error correction.	01/11/2015	Technical systems
														201505	ADAMAS-reconcile for other KP Participants	Following request of several KP Participants on the 2014 KP Inter-session meeting, the component of ADAMAS that automates largely the KP reconciliation process will be isolated in a separate application as to make it available to other KP Certification Scheme participants. This requires a generalization of the input format, which in the future will also allow to use it for other raw materials especially in context of new EU initiative on responsible resourcing of minerals from conflict areas	01/11/2015	Validated methods, reference methods and measurements
														201601	Contributions to the KP-WGS and WGM	This deliverable (series of reports) includes JRC support to EC on the scientific and technical tasks deriving from the implementation of the KP in the EU and internationally. It involves keeping FPI informed and consulting with the FPI on issues and concerns arising in the implementation of the KPCS EU-wide and across the KP community and undertaking scientific and technical tasks in statistics or remote sensing to satisfy the needs of the WGS and WGM as they will evolve.	30/11/2016	Scientific and policy reports
														201603	Representation of the EU to the KP-WGS	This deliverable (series of reports) is continuous and evolves over time, and satisfies the needs of the representation of the EU in the KP-WGS. It involves bringing to the KP-WGS, EU policy on the collection and analysis of KP data; satisfying the requirements of participation to the WGS; keeping FPI informed and consulting with the FPI on issues and concerns arising in the implementation of the KPCS EU-wide and across the KP community.	01/11/2016	Scientific and policy reports
1233 - KP/CPR IV ST Facility in support to the Kimberley Process & Crisis Preparedness/Response	The project aims to provide scientific and technical support to the Kimberley process certification scheme. It also aims to provide S/T Facility for crisis preparedness and response that allows for analysis of situations and emerging crisis using web based information systems and mapping products.	JRC.G.2 Spyros ARSENI	9.1.1.2.c	FPI	FPI	GHERMAN Catalin	DEVCO ECHO GROW TRADE	EEAS - European External Action Service UN Kimb WG - UN Kimberley Process working Groups	14/04/2014 13/10/2015	5-Monitoring, verification and surveillance (30%) 7-Scientific, technical & policy consultancy (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)			COM-AA	2	2nd progress report	The progress report will summarize the progress on the project's deliverables at the end of its 1st 12 months.	15/04/2015	Scientific and policy reports
														3	Final report	The final report will summarize the main project achievements and deliverables.	15/10/2015	Scientific and policy reports
														4	KP Statistical Analysis reports	Statistical analysis reports on production and trade for KP participants allocated to the EU by the WG for Statistics.	15/10/2015	Scientific and policy reports
														6	Quarterly aggregated EU trade data	Four quarterly uploads of aggregated EU trade data uploaded to the WGS website, by March 31, June 30, September 30 and December annually.	01/10/2015	Scientific information systems and databases
1859 - draft KP & CPR DRAFT ST Facility for KP and CPR	The project aims to provide scientific and technical support to the Kimberley process certification scheme. It also aims to provide S/T Facility for crisis preparedness and response that allows for analysis of situations and emerging crisis using web based information systems and mapping products.	JRC.G.2 Winfried OTTOY	9.1.1.2.c	FPI	FPI	Joris Heeren; Daniele Senzanonna	DEVCO		16/12/2015 15/08/2017	2-Information systems & services (30%) 5-Monitoring, verification and surveillance (30%) 7-Scientific, technical & policy consultancy (40%)			COM-AA	1	1st Progress Report	The progress report will summarize the progress on the project's deliverables during its 1st 6 months	30/06/2016	Scientific and policy reports
														2	2nd Progress Report	The progress report will summarize the progress on the project's deliverables at the end of its 1st 12 months	30/01/2017	Scientific and policy reports
														3	Final Report	The final report will summarize the main project achievements and deliverables	30/07/2017	Scientific and policy reports
														4	KP Statistical Analysis reports	Statistical analysis reports on production and trade for KP participants allocated to the EU by the WG for Statistics.	15/12/2016	Scientific and policy reports
														5	Quarterly aggregated EU trade data	Four quarterly uploads of aggregated EU trade data uploaded to the WGS website, by March 31, June 30, September 30 and December annually.	01/12/2016	Scientific information systems and databases
9.1.1.2.d Development of early warning systems for anticipation and prevention of conflicts and political instabilities globally, and especially in Africa, supported by capacity-building activities of international and regional organisations.																		
571 - SEWOSA Systems for Open Source risk Analysis & Early Warning of conflicts & political instabilities	The project develops a new generation of near-real-time systems to support common situational analysis & early warning of conflicts & socio/political threats to serve 3 key purposes: risk awareness, likelihood & seriousness. Its carries out R&D activities in close cooperation with international partners (incl. UN, Africa Union) on analytical methodologies for threat/indicator identification & their tracking from open source information & on methods for collaborative monitoring and risk analysis	JRC.G.2 Erik VAN DER GOOT	9.1.1.2.d	FPI	n/a	Corinna Valente	DEVCO ECHO SG	AU - African Union EEAS - European External Action Service IASC - UN Inter-Agency Standing Committee WFP - World Food Program of the United Nations	01/12/2013 31/12/2016	2-Information systems & services (90%) 5-Monitoring, verification and surveillance (10%)		287 - ECML European Crisis management Laboratory (ECML) 438 - MMA Media Monitoring and Analysis for Policy Support	INS-RS	201503	Event and Critical Indicator Quality Assessment	The quality of early warning systems e.g.HEWS depends on quality of underlying definitions of events & critical indicators to be monitored. Building on prototype version, a new tool will be developed to allow users of early warning system to monitor quality of these underlying definitions by presenting selected articles from harvested information & clearly indicating why & how these articles were selected; this provides immediate feedback & allow better definition of events & critical indicators	01/06/2015	Technical systems
														57120141	Collaborative Humanitarian Early Warning System	The Humanitarian Early Warning System, HEWS, will be improved to allow multiple 'teams' to work on it, allowing parallel groups to perform their own analysis and collaborative risk assessment and to share the products. This fits the need for individual UN Humanitarian Organisations to create their own analysis as well as sharing and collaborating within the context of the Inter Agency Standing Committee (IASC). Done within context of MoU signed between JRC and WFP.	01/05/2015	Technical systems
														57120151	HEWS Reporting	An extended reporting system will be developed for the IASC and integrated within HEWS to allow specific filtering of the output to different time periods, different institutions and different teams. Done within context of MoU signed between JRC and WFP.	01/10/2015	Technical systems
														57120152	Multilingual Categories 4 conflict thematic areas	Define and introduce multilingual category definitions reflecting the thematic areas defined for conflict related indicators, to allow the EW systems developed by JRC to better capture relevant information pertaining to these thematic areas. The results of this deliverable will contribute to better and more comprehensive indicator definitions.	30/10/2015	Technical systems
														57120161	HEWS Evaluation	Comprehensive quantitative evaluation system allowing calculation and tailored reporting will be developed and integrated in HEWS. Done within context of MoU signed between JRC and WFP. This deliverable also constitutes the release of the most advanced HEWS to date with results of dels. 57120144, 57120151 completed integrated and visible.	31/10/2016	Technical systems
														57120162	New generation of NRT systems for conflict EW	A paper describing advances in the methodologies and approaches based on open source analysis and collaborative crisis management technologies developed by JRC together with Int. and regional partners (e.g. UN and African Union) for a new generation of near real time systems for common situation awareness and early warning of conflicts and political unrest. These systems notably complement and enhance the traditional structural indicator approach commonly used for conflict risk analysis.	31/10/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
1768 - EMM@EEAS OPEN SOURCE INTELLIGENCE	In this AA, JRC shall install an EEAS customised instance of the European Media Monitor (EMM@EEAS) and provide relevant maintenance support to ensure a reliable and efficient 24/7 service to EEAS in replacement of ODIN.	JRC.G.2 Delilah AL KHUDHAIRY	9.1.1.2.d	HOME	n/a	Funding body is EEAS and not a DG	COMM	- EXTERNAL ACTION SERVICE*EAS	06/02/2014 05/02/2015	2-Information systems & services (100%)			COM-AA	201501	EMM@EEAS	Description: A customised EMM instance installed and maintained at EEAS. Customisation and installation include: 1) media monitoring contractor interface; EMM processing chain; NewsBrief; NewsDesk; category/alert editor; SMS notification service; social media integration; email notification service; 2) availability of iPad/iPhone app versions of EMM@EEAS 3) maintenance and support assuring reliable and efficient 24/7 service.	21/01/2015	Technical systems
1841 - DRAFT EMM@EEAS II DRAFT EMM@EEAS II 2015	JRC shall further develop the EEAS customised instance of the European Media Monitor (EMM@EEAS) and also provide relevant maintenance support to ensure a reliable and efficient 24/7 service to EMM@EEAS	JRC.G.2 Erik VAN DER GOOT	9.1.1.2.d	HOME	n/a	Funding body is EEAS and not a DG		- EXTERNAL ACTION SERVICE*EAS	10/02/2015 09/02/2016	2-Information systems & services (100%)			COM-AA	1	EMM@EEAS platform	Maintain and improve the EMM@EEAS media monitoring and analysis platform. Apply system enhancements	09/02/2016	Technical systems

JRC WORK PROGRAMME 2015 - 2016																		
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1850 - DRAFT AU CEWS & OAS DRAFT AU CEWS & OAS 2015	Follow up to AA 33265. Further develop African Union (AU) CAAS early warning conflict System. Adapt and customise AU CAAS for Organisation of American States (OAS).	JRC.G.2 Brian DOHERTY	9.1.1.2.d	FPI	n/a	C. Ghermain	DEVCO ECHO		01/07/2015 31/12/2016	2-Information systems & services (90%) 7-Scientific, technical & policy consultancy (10%)			COM-AA	1	1st Progress Report	The progress report will summarize the progress on the project's deliverables during its 1st 6 months	30/01/2016	Scientific and policy reports
														2	2nd Progress Report	The progress report will summarize the progress on the project's deliverables at the end of its 1st 12 months	30/07/2016	Scientific and policy reports
														3	Final Report	The final report will summarize the main project achievements and deliverables	15/12/2016	Scientific and policy reports
2166 - DRAFT OAS II DRAFT OAS II	This is a follow-up to the OAS monitoring system developed in the project CEWS III-OAS, jypsy reference 33265. OASII will further develop the pilot OAS monitoring system developed in the 1st phase, to include the full suite of JRC monitoring/editorial tools, adapted to the needs of OAS. OASII will also develop the technical early warning requirements of OAS and partially implement in OASII	JRC.G.2 Erik VAN DER GOOT	9.1.1.2.d	FPI	FPI	Corinna VALENTE, FPI.2			01/12/2014 30/05/2016	2-Information systems & services (90%) 9-Education & training (10%)			COM-AA	1	Mid-term report	Provide progress report on OAS management to EEAS and Service for FPI	30/06/2015	Scientific and policy reports
														2	Management Reporting on AA Progress	Provide final report to EEAS and Service for FPI	30/11/2015	Scientific and policy reports
9.1.2 Global nuclear safety																		
9.1.2.a Technical assistance in the development, monitoring and evaluation of the implementation of different projects under the EU policy instruments promoting highest nuclear safety internationally mainly through the Instrument for Nuclear Safety Cooperation (INSC) and the nuclear safety part of the Instrument for Pre-accession Assistance (IPA):																		
277 - IPA VINCA Support to Nuclear Safety Policy for EU Enlargement (VINCA Monitoring)	The project will provide the direct technical and scientific support required by DG ELARG for the monitoring of EU-funded projects of the Instrument for Pre-Accession Assistance (IPA) implemented at the Vinča Institute in Serbia.	JRC.F.5 Brian FARRAR	9.1.2.a	NEAR	NEAR	Morten JUNG (ELARG D3)		- Institute Vinca - Vinca Institute of Nuclear Sciences	01/04/2013 31/03/2015	7-Scientific, technical & policy consultancy (100%)			COM-AA	6	7th Quart. Note to DG ELARG: IPA Vinca Monitoring	Quarterly report to DG ELARG on the activities of JRC performed under the Administrative Arrangement IPA 2009 for "Monitoring of EU supported projects at Vinca site"	26/02/2015	Scientific and policy reports
														7	Final Report to DG ELARG: IPA Vinca Monitoring	Final report to DG ELARG on the activities of JRC performed under the Administrative Arrangement IPA 2009 for "Monitoring of EU supported projects at Vinca site"	26/05/2015	Scientific and policy reports
955 - IPA 2012-2014 Support to Nuclear Safety Policy for EU Enlargement	The project will provide the direct technical and scientific support required by DG ELARG for the programming, preparation, contracting, monitoring and evaluation of the projects of the Instrument for Pre-accession Assistance (IPA), which provides financial assistance for improving nuclear safety in candidate countries for EU accession.	JRC.F.5 Brian FARRAR	9.1.2.a	NEAR	NEAR	Morten JUNG (ELARG D3)			24/05/2013 23/05/2015	7-Scientific, technical & policy consultancy (100%)		277 - IPA VINCA Support to Nuclear Safety Policy for EU Enlargement (VINCA Monitoring)	COM-AA	7	6th Quarterly Note to DG ELARG on IPA 2012-14	Quarterly report to DG ELARG on the activities of JRC performed under the Administrative Arrangement IPA 2012-14 for "Technical back-up to IPA as part of the 2011 IPA horizontal programme on nuclear safety and radiation protection"	23/01/2015	Scientific and policy reports
														8	7th Quarterly Note to DG ELARG on IPA 2012-14	Quarterly report to DG ELARG on the activities of JRC performed under the Administrative Arrangement IPA 2012-14 for "Technical back-up to IPA as part of the 2011 IPA horizontal programme on nuclear safety and radiation protection"	23/04/2015	Scientific and policy reports
														9	Final Report to DG ELARG on IPA 2012-14	Final report to DG ELARG on the activities of JRC performed under the Administrative Arrangement IPA 2012-14 for "Technical back-up to IPA as part of the 2011 IPA horizontal programme on nuclear safety and radiation protection"	23/07/2015	Scientific and policy reports
1960 - TAREG 01/13 Support to International Nuclear Safety Policy (INSC AP2013)	The project will provide the direct technical and scientific support required by DG DEVCO for the programming, preparation, contracting, monitoring and evaluation of the projects of the Instrument for Nuclear Safety Cooperation (INSC), which provides assistance for improving nuclear safety and nuclear safeguards in countries outside the EU.	JRC.F.5 Brian FARRAR	9.1.2.a	DEVCO	DEVCO	A van der Meer	ENER RTD		30/10/2014 29/10/2017	7-Scientific, technical & policy consultancy (100%)		JRC.E.8	COM-AA	1	Terms of Reference for INSC Project	Technical Terms of Reference for tendering and contracting of a project of the Instrument for Nuclear Safety Cooperation (INSC)	30/06/2015	Scientific and policy reports
														3	Terms of Reference for INSC Project	Technical Terms of Reference for tendering and contracting of a project of the Instrument for Nuclear Safety Cooperation (INSC)	20/12/2015	Scientific and policy reports
														4	Terms of Reference for INSC Project	Technical Terms of Reference for tendering and contracting of a project of the Instrument for Nuclear Safety Cooperation (INSC)	31/03/2016	Scientific and policy reports
														5	1st Quarterly Note to DG DEVCO on Tareg.01/13	Quarterly report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety projects"	30/04/2015	Scientific and policy reports
														6	2nd Quarterly Note to DG DEVCO on Tareg.01/13	Quarterly report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety projects"	31/07/2015	Scientific and policy reports
														7	3rd Quarterly Note to DG DEVCO on Tareg.01/13	Quarterly report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety projects"	31/10/2015	Scientific and policy reports
														8	4th Quarterly Note to DG DEVCO on Tareg.01/13	Quarterly report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety projects"	31/01/2016	Scientific and policy reports
														9	5th Quarterly Note to DG DEVCO on Tareg.01/13	Quarterly report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety projects"	30/04/2016	Scientific and policy reports
														10	6th Quarterly Note to DG DEVCO on Tareg.01/13	Quarterly report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety projects"	31/07/2016	Scientific and policy reports
														11	7th Quarterly Note to DG DEVCO on Tareg.01/13	Quarterly report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety projects"	31/10/2016	Scientific and policy reports
														12	1st Annual Report to DG DEVCO on Tareg.01/13	Annual interim report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety and nuclear safeguards projects"	31/01/2016	Scientific and policy reports
														13	2nd Annual report to DG DEVCO on Tareg.01/13	Annual interim report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety and nuclear safeguards projects"	31/01/2017	Scientific and policy reports
														14	Final Report to DG DEVCO on Tareg.01/13	Final report to DG DEVCO on the activities of JRC performed under the Administrative Arrangement Tareg.01/13 for "Technical Support by the Joint Research Centre for the project cycle management of nuclear safety and nuclear safeguards projects"	31/01/2018	Scientific and policy reports
														9.1.2.b Development and implementation, (together with DG RTD), of DG JRC related research and training programmes under international organisations initiatives and Euratom cooperation agreements with partner countries (US DoE, China, Russia, Japan, Canada, among others ongoing or under discussion) and international organisations (IAEA, OECD-NEA).				
1018 - EUROGIF European Generation IV International Forum	JRC is the "Implementing Agent" of the Euratom contribution to the Generation IV International Forum (GIF), which aims to join efforts in the development of new concepts of nuclear energy systems. EUROGIF covers three main roles: Implementing (represent Euratom and manage its participation in GIF), coordination (liaise with member states/organisations, dissemination of GIF activities, organisation of a yearly General Assembly) and technical (linked to participation to specific stems and groups)	JRC.A.4 Andrea BUCALOSSO	9.1.2.b	ENER	n/a	DG ENER DDG2.D1 M. Garribba	RTD	MS EU - Member states EU	01/01/2014 31/12/2016	1-Foresight studies & techniques (35%) 7-Scientific, technical & policy consultancy (65%)			INS-RS	3	Expert Group and Policy Group 2015	Annual report summarizing the main outcomes and conclusions of Expert Group and Policy Group Discussions (2015)	20/12/2015	Scientific and policy reports
														4	Status report on Euratom participation in GIF 2015	Annual report on Euratom participation in GIF, based on the yearly EUROGIF General Assembly and of the implementing, coordination and technical activity of EUROGIF.	20/12/2015	Scientific and policy reports
														5	Expert Group and Policy Group 2016	Annual report summarizing the main outcomes and conclusions of Expert Group and Policy Group Discussions (2016)	20/12/2016	Scientific and policy reports
														6	Status report on Euratom participation in GIF 2016	Annual report on Euratom participation in GIF, based on the yearly EUROGIF General Assembly and of the implementing, coordination and technical activity of EUROGIF.	20/12/2016	Scientific and policy reports
														5	Border Monitoring Working Group Reports 2015	Consolidation and contribution to the Border Monitoring Working Group Reports	18/12/2015	JRC contributions to policy documents
														6	Border Monitoring Working Group Reports 2016	Consolidation and contribution to the Border Monitoring Working Group Reports	23/12/2016	JRC contributions to policy documents
1570 - EURINT EURATOM international agreements	Development and implementation of JRC related technical and research programmes under international organisations initiatives and EURATOM agreements (US, China, Russia, Japan, Canada, ..., IAEA, OECD-NEA, GICNT, ...)	JRC.A.4 Said ABOUSAHL	9.1.2.b	ENER	n/a	Paul Meylemans	DEVCO HOME RTD	EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) NEA - Nuclear Energy Agency (OECD) US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (25%) 7-Scientific, technical & policy consultancy (75%)			INS-RS	8	Follow-up report of the US-DoE EURATOM Agreement	Annual report of the main activities and outcomes under the United States Department of Energy and EURATOM Agreement. 2015.	18/12/2015	Scientific and policy reports
														9	Follow-up report of the US-DoE EURATOM Agreement	Annual report of the main activities and outcomes under the United States Department of Energy and EURATOM Agreement. 2016.	23/12/2016	Scientific and policy reports
														11	Follow-up report of the JAEA EURATOM Agreement	Annual report on the activities under the Japan Atomic Energy Agency and EURATOM Agreement 2014	18/12/2015	Scientific and policy reports
														12	Follow-up report of the JAEA EURATOM Agreement	Annual report on the activities under the Japan Atomic Energy Agency and EURATOM Agreement 2015	23/12/2016	Scientific and policy reports
														14	Follow-up report on international activities	Report of the activities carried out under the different agreements between EURATOM and international organisations, such as the International Atomic Energy Agency, Nuclear Energy Agency, and Global Initiative To Combat Nuclear Terrorism. 2015	18/12/2015	Scientific and policy reports
														15	Follow-up report on international activities	Report of the activities carried out under the different agreements between EURATOM and international organisations, such as the International Atomic Energy Agency, Nuclear Energy Agency, and Global Initiative To Combat Nuclear Terrorism. 2016	23/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																				
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category		
9.1.3 Global nuclear security																				
9.1.3.a Coordination of nuclear security capacity building activities within the Border Monitoring Working Group (BMWG) in cooperation with EEAS, IAEA, and the US government. Cooperation in nuclear forensics within the Nuclear Forensics International Technical Working Group (ITWG) for the development of capabilities and establishment of a framework for mutual support.																				
907 - SUPPIO International Cooperation in the Nuclear Security Area	Nuclear Security remains an area of concern. This is addressed by IAEA, Europol, GICNT, ITWG and international partners such as US Department of Energy, CEA, AWE, JAERI, IAEA, KAERI, DSO. Cooperative activities are carried out with these partners at conceptual and technical level through consultancies, workshops, exchange of information, joint R&D work. Cooperative projects are implemented under the IIS.	JRC.E.7 Klaus MAYER	9.1.3.a	FPI	n/a	n/a	DEVCO	- Direction of Military Applications (CEA) AWE - Atomic Weapons Establishment EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) IAEC - Israel Atomic Energy Commission JAEA - Japan Atomic Energy Agency US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2015	4-Methods and testing (20%) 7-Scientific, technical & policy consultancy (40%) 9-Education & training (40%)		198 - ESF Expert Support Facility 238 - SEA-CONGO Combating illicit trafficking of nuclear and radioactive materials in South East Asia and DRC 270 - COE-3rd Centres of excellence (COE) - 3RD ROUND 271 - IMPLEMENTATION CBRN JRC support to the implementation of the EU CBRN Action Plan 856 - ITDB IAEA Illicit Trafficking Data-Base 903 - NUFOR Nuclear Forensics method and signature development 925 - SUCAB Support capacity building in nuclear security through training at EUSECTRA	INS-RS		90720151	Joint training session on nuclear forensics in 2015	IAEA and JRC-ITU will provide joint training sessions on nuclear forensics in countries to be identified by the IAEA in 2015.	31/12/2015	Training	
															90720152	ITWG Meeting Report	The Nuclear Forensics International Technical Working Group (ITWG) is the main international forum for nuclear forensics practitioners. JRC-ITU is co-chairing the ITWG and will organize the 2015 annual meeting of the ITWG. A summary of the deliberations will be issued.	31/12/2015	Scientific and policy reports	
															90720153	Publication on joint nuclear forensic activities	JRC-ITU is closely collaborating with some US DOE labs and with CEA, JAEA on nuclear forensic issues. The results of the joint activities (e.g. research, experts meetings, workshops) will be published in a peer reviewed journal.	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index	
															90720154	Contribution to GICNT activities	The Global Initiative to Combat Nuclear Terrorism (GICNT) addresses issues of international collaboration and joint implementation of measures for enhancing nuclear security. This requires input from technical experts. In the frame of the EU's security policy, JRC-ITU is contributing the development of guidance documents related to nuclear forensics and security. A document related to presenting nuclear forensic evidence in court will be released in 2015. A GICNT workshop will be held at ITU.	31/12/2015	Scientific and policy reports	
															90720155	ITWG Comparative Material Exercise	The Nuclear Forensics International Technical Working Group (ITWG) has launched the 4th nuclear forensics interlaboratory exercise. ITU will participate in the analysis of samples that are distributed and report results to the organizers. In March 2015, ITU will host the data review meeting which serves as basis for the final report on the exercise.	31/12/2015	Scientific and policy reports	
															90720156	Contrib. to Coordinated Research Project of IAEA	The IAEA runs a Coordinated Research Project (CRP) on nuclear forensic signatures to which ITU contributes. In the framework of this activity key signatures are identified for selected materials of the nuclear fuel cycle. The CRP runs for several years. In 2015 an interim report will be presented. In the framework of a strengthened safeguards regime, inspectors are making increasing use of investigative methodologies. Selected hand-held equipment will be tested at ITU and basic libraries for material identification will be established. The results will be documented in a report.	31/12/2015	Scientific and policy reports	
															90720157	Eval. of novel equipm. for investig. methodologies				
9.1.3.b Development, testing, and application of methods for the detection of nuclear and radioactive materials outside regulatory control. Provide operational support to Member States and international organisations.																				
2215 - C-BORD Effective Container Inspection at BORDer control points	Development and field testing of a toolkit for container inspection at borders and seaports. The toolkit includes: advanced passive radiation monitors, active techniques (tagged neutrons and photofission), enhanced X-ray imagery, vapour analysis (sniffer) technology.	JRC.E.8 Paolo PEERANI	9.1.3.b	GROW RTD	RTD	n/a	DEVCO GROW HOME	- UNIVERSITA DEGLI STUDI DI PADOVA CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives FGFAF - Fraunhofer Gesellschaft zur Förderung der Angewandten	01/07/2015 30/06/2018	4-Methods and testing (100%)		711 - SNM-DETECT Coincidence signature by pulsed neutron interrogation for SNM detection 676 - NUDNET R&D, evaluation, testing and training in detection	COM-IA		1	Testing campaign of C-BORD instruments	Execution of a campaign of tests on detection instruments developed under the project and report of the results.	31/12/2015	Validated methods, reference methods and measurements	
															2	Progress report 2016	"status report" which summarises the results obtained in 2016 in the project.	31/12/2016	JRC Technical reports	
2500 - EEG ENTER-EURO-GATES	The project aims to fulfill European and international commitment to counter the critical threat of Radiological Dispersion Devices (RDD), nuclear weapons and explosives by producing new, more effective tools for customs to detect and intercept illicit trafficking. The JRC will carry out testing and validation of sub-systems and the full system (WP 3 and 5, respectively). JRC will be leading WPs.	JRC.E.8 Hamid TAGZIRIA	9.1.3.b	RTD	RTD	n/a	HOME	- Czech Technical University in Prague - University of Twente - Queen's University of Belfast - Atomic Weapons Establishment US DoE - US Department of Energy (DOE)	01/07/2015 30/06/2019	3-Instrumentation & hardware (100%)		711 - SNM-DETECT Coincidence signature by pulsed neutron interrogation for SNM detection 676 - NUDNET R&D, evaluation, testing and training in detection	COM-IA		20151	Progress report	Progress report on the status and preliminary steps of the project	30/12/2015	JRC Technical reports	
															20161	Monte Carlo model of Fiber-Eye segment 2016	A Monte Carlo model of lab scale pilot prototype segment of Fiber Eye sub-detector will be prepared, tested and validated for fission neutron spectra and gamma-rays. The pilot prototype segment of Fiber-Eye sub-detector will be extensively tested and evaluated. Reports on the activities of the year will be delivered.	20/12/2015	JRC Technical reports	
															20162	Enter Euro Gates detector 2016	Background research on the standards and requirements related to the border gate monitors. Full scale Montecarlo model of Enter-Euro-Gates detector. Characterization of the full-scale prototype of Enter-Euro-Gates detector. Calibration and verification procedures according to the international standards. Technical reports on the achievements in the year will be delivered	20/12/2016	JRC Technical reports	
															20171	Monte Carlo model of Fiber-Eye segment 2017	A Monte Carlo model of lab scale pilot prototype segment of Fiber Eye sub-detector will be prepared, tested and validated for fission neutron spectra and gamma-rays. The pilot prototype segment of Fiber-Eye sub-detector will be extensively tested and evaluated. Reports on the activities of the year will be delivered.	20/12/2017	JRC Technical reports	
															20172	Enter Euro Gates detector 2017	Background research on the standards and requirements related to the border gate monitors. Full scale Montecarlo model of Enter-Euro-Gates detector. Characterization of the full-scale prototype of Enter-Euro-Gates detector. Calibration and verification procedures according to the international standards. Technical reports on the achievements in the year will be delivered	20/12/2017	JRC Technical reports	
9.1.3.c Ensure the preservation, further build-up and dissemination of specific scientific and technical knowledge related to nuclear security by establishment and management of the European Nuclear Security Training Centre (EUSECTRA), including the training for EU customs officers, IAEA nuclear safeguards inspectors, and front line officers from third countries.																				
241 - NDT Nuclear Detection Training	ITU will provide training on nuclear detection including conceptual aspects of nuclear security and nuclear detection, basics of radiation detection, practical training using portal monitors, alarm adjudication, use of hand-held equipment for alarm verification, measurement exercises using nuclear and other radioactive materials.	JRC.E.7 Jean GALY	9.1.3.c	HOME	n/a	HOME.A.1.002, Wiktor Wojtas	ENER TAXUD	Cust Aut MS - MS Customs Authorities - US DEPARTMENT OF ENERGY**	01/10/2012 30/06/2015	9-Education & training (100%)	JRC.E.8		COM-TW	2	Training courses	Organisation and execution of training courses and workshops related to nuclear detection methods	30/06/2015	Training		
666 - ENSPIC Enhancing Nuclear Security and Non Proliferation through International Collaborations	The project aims at enhancing nuclear security and non proliferation through international collaborations : participation in internal networks and working groups, provision of training in Ispra in the fields of nuclear safeguards and security in the frame of EUSECTRA, and granting access of external users (research organisations, universities, ...) to the nuclear facilities of NUSEC in Ispra (PERLA, PUNITA, ITRAP and AS3ML).	JRC.E.8 Paolo PEERANI	9.1.3.c	ENER	n/a	Paul Meylemans (HoU ENER.E.01)	DEVCO HOME	ESARDA - European Safeguards R&D Association IAEA - International Atomic Energy Agency (IAEA) US DoE - US Department of Energy (DOE)	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (20%) 9-Education & training (80%)		238 - SEA-CONGO Combating illicit trafficking of nuclear and radioactive materials in South East Asia and DRC 665 - He3FREE	INS-RS		201501	ESARDA Course in Nuclear Safeguards and Non-Prolif	Organisation of the 13th ESARDA course in Ispra, possibly duplicated by a second course for South-East Asia in Thailand	30/04/2015	Training	
															201502	Report on access to Ispra nuclear facilities	Yearly report on use of Ispra laboratories by external users	31/12/2015	JRC Technical reports	
															201601	ESARDA course in Nuclear Safeguards and Non-Prolif	Organisation of the 14th ESARDA course in Ispra, possibly duplicated by a second course for South-East Asia in Thailand.	30/04/2016	Training	
															201602	Report on access to Ispra nuclear facilities	Yearly report on use of Ispra laboratories by external users	31/12/2016	JRC Technical reports	
856 - ITDB IAEA Illicit Trafficking Data-Base	Assessment whether existing data base systems (IAEA Illicit Trafficking Data-Base) provide sufficient information on illicit trafficking of radioactive and nuclear (RN) materials for the law enforcement community.	JRC.E.7 Maria WALLENUS	9.1.3.c	HOME	HOME	Wiktor Wojtas HOME.01.002	EUROPOL - EUROPOL IAEA - International Atomic Energy Agency (IAEA)	15/12/2011 30/06/2015	7-Scientific, technical & policy consultancy (100%)		903 - NUFOR Nuclear Forensics method and signature development 907 - SUPPIO International Cooperation in the Nuclear Security Area	COM-AA		1	Report on Illicit Trafficking Data Base	A study was made with EU Member States to improve the useability of the ITDB. The results of the study will be compiled in the report.	30/12/2014	JRC Technical reports		
														2	Final report	Final report delivered to customer, containing the final results of the study.	30/06/2015	JRC Technical reports		
925 - SUCAB Support capacity building in nuclear security through training at EUSECTRA	The capability to address nuclear security threats depends on the availability of an appropriate technical infrastructure and on the human capital for operating it. Capacity building activities are carried out in the frame of the Instrument for Stability and in the nuclear safeguards field. This includes training & education programmes for students and young professionals - both theoretical and laboratory-based with nuclear materials.	JRC.E.7 Jean GALY	9.1.3.c	ENER	n/a	Petra Klumpp (ENER)	DEVCO HOME	IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2015	5-Monitoring, verification and surveillance (0%) 9-Education & training (100%)		238 - SEA-CONGO Combating illicit trafficking of nuclear and radioactive materials in South East Asia and DRC 241 - NDT Nuclear Detection Training 270 - COE-3rd Centres of excellence (COE) - 3RD ROUND 925 - SUCAB	INS-RS		92520151	Updating of training programmes and equipment	Based on previous years training experience and taking into account advances in technical developments, the established training programmes have to be reviewed - where necessary - and technical facilities will be further developed	31/12/2015	Training	
															92520152	Training for IAEA safeguards inspectors	Training courses will be provided to inspectors of IAEA, including issues related to the Additional Protocol.	31/12/2015	Training	
															92520153	Training for Euratom inspectors	Training on nuclear material measurement methods will be provided to inspectors from DG ENER.	31/12/2015	Training	
2480 - NDT-TAXUD Nuclear detection training for EU customs	ITU will provide training on nuclear detection including conceptual aspects of nuclear security and nuclear detection, basics of radiation detection, practical training using portal monitors, alarm adjudication, use of hand-held equipment for alarm verification, measurement exercises using nuclear and other radioactive materials. AA with TAXUD for frontline officers from EU MS.	JRC.E.7 Jean GALY	9.1.3.c	TAXUD	TAXUD	TAXUD B.2 Wil van Heeswijk	Cust Aut MS - MS Customs Authorities	01/01/2015 30/06/2016	9-Education & training (100%)		JRC.E.8	514 - ENS3 European Nuclear Safety & Security School 241 - NDT Nuclear Detection Training	COM-AA		201501	Nuclear detection training	Organisation and execution of training courses and workshops related to nuclear detection methods	31/12/2015	Training	
															201601	Nuclear detection training	Organisation and execution of training courses and workshops related to nuclear detection methods	30/06/2016	Training	
2481 - NDT-2 Nuclear detection training -2	ITU will provide training on nuclear detection including conceptual aspects of nuclear security and nuclear detection, basics of radiation detection, practical training using portal monitors, alarm adjudication, use of hand-held equipment for alarm verification, measurement exercises using nuclear and other radioactive materials.	JRC.E.7 Jean GALY	9.1.3.c	HOME	n/a	W. Wojtas, HOME.A.1.002	TAXUD	Cust Aut MS - MS Customs Authorities US DoE - US Department of Energy (DOE)	01/10/2014 30/09/2016	9-Education & training (100%)		JRC.E.8	514 - ENS3 European Nuclear Safety & Security School 241 - NDT Nuclear Detection Training	COM-TW		201501	Nuclear detection training	Organisation and execution of training courses and workshops related to nuclear detection methods.	31/12/2015	Training
																201601	Nuclear detection training	Organisation and execution of training courses and workshops related to nuclear detection methods.	30/09/2016	Training
2640 - NDT-3 Nuclear detection training -3	ITU will provide training on nuclear detection including conceptual aspects of nuclear security and nuclear detection, basics of radiation detection, practical training using portal monitors, alarm adjudication, use of hand-held equipment for alarm verification, measurement exercises using nuclear and other radioactive materials.	JRC.E.7 Jean GALY	9.1.3.c	HOME	n/a	W. Wojtas, HOME.A.1.002	TAXUD	Cust Aut MS - MS Customs Authorities US-DOS - US Department of State	01/01/2015 30/12/2015	9-Education & training (100%)			COM-TW		201501	Nuclear detection training	Organisation and execution of 4 training courses and workshops related to nuclear detection methods.	20/12/2015	Training	

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category	
9.1.4 Nuclear safeguards and non-proliferation																			
9.1.4.a Research and development plus operational support to the IAEA under European Commission Cooperative Support Programme in the area of measurement techniques including destructive analytical techniques and particle analysis, non-destructive assays and process monitoring techniques. Development of reference materials and particles targeted to safeguards needs and development of containment, surveillance and sealing/identification techniques;																			
239 - ABACC Safeguards Strengthening the Safeguard Capabilities of ABACC	Creation at ABACC of two new capabilities based on ITU Safeguards technologies (already approved by IAEA): i) verification of complex plant design/lay-out (based on 3D Laser); ii) containment of spent fuel (using ultrasonic seals). Coordination with IAEA takes place during the whole project. Results: A) Deployment of a Laser based 3D Verification System; B) Deployment of Ultrasonic Seals; C) Train-the-Trainers Course; D) Inspectors' Training; E) Technical Assistance during safeguards campaigns	JRC.E.8 Joao GONCALVES	9.1.4.a	DEVCO	DEVCO	Mr Martin Andersen (DEVCO)	ENER	- AGENCIA BRASILEIRO- ARGENTINA DE CONTABILIDADE A CONTROLE EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA)	27/09/2012 26/09/2016	3-Instrumentation & hardware (100%)	684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 688 - SealSys Sealing Systems for Safeguards 691 - 3DLASER R&D on 3D Laser Based Systems	COM-AA			8	3DLR Training Course in South America (1,2)	Course for ABACC Inspectors	31/03/2015	Training
															9	Seal Training Course in South America	Course for ABACC Inspectors	31/03/2015	Training
															10	Management Report IV	Six monthly Report to be presented at DEVCO (and likely to the IAEA)	31/03/2015	JRC Technical reports
															11	3DLR Field Deployment in Brazil	Deployment of the new equipment at an ABACC selected nuclear plant and field Assistance to ABACC Tests (data acquisition, processing and analysis)	30/06/2015	Technical systems
															12	Seal Field Deployment in Argentina	Deployment of the new equipment at an ABACC selected nuclear plant and field Assistance to ABACC Tests (data acquisition, processing and analysis)	30/06/2015	Technical systems
															13	Management Report V	Six monthly Report to be presented at DEVCO (and likely to the IAEA)	30/09/2015	JRC Technical reports
															14	3DLR Complete Documentation, Field Support & Repair	Assistance to ABACC pre-Operational Work regarding the use of the 3DLR system, support to data acquisition, processing and analysis	31/03/2016	Technical systems
															15	Seal Complete Documentation, Field Support & Repair	Assistance to ABACC pre-Operational Work regarding the use of the ultrasonic sealing system, support to data acquisition, processing and analysis	31/03/2016	Technical systems
															16	Management Report VI	Six monthly Report to be presented at DEVCO (and likely to the IAEA)	31/03/2016	JRC Technical reports
															17	3DLR Maintenance & Final Verification	Final work before Final Acceptance by ABACC	30/06/2016	Technical systems
18	Seal Maintenance & Final Verification	Final work before Final Acceptance by ABACC	30/06/2016	Technical systems															
19	Final Project Report	Final Report by both JRC and ABACC to be presented at DEVCO (and likely to the IAEA)	29/06/2016	JRC Technical reports															
684 - IAEA-ECSP Coordination of EC Support Programme to IAEA	Coordination of European Commission Support Programme (EC-SP) to IAEA including: -Represent the EC-SP in different fora -Assist JRC Headquarters in EC-SP related matters -Work with JRC Units and ENER for the orientation and implementation of EC-SP related actions (tasks, workshops, etc...) -Organize and chair two annual EC-SP review meetings -Distribute IAEA requests and information -Maintain record of Open task, monitor execution and report to IAEA -Liaise with IAEA and Member States	JRC.E.8 Joao GONCALVES	9.1.4.a	ENER	n/a	Paul Meylemans	EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 01/01/2017	7-Scientific, technical & policy consultancy (100%)		436 - INSAP Innovative concepts and methodologies for nuclear safeguards 626 - NS-RefMat Actinide isotope reference materials for nuclear safeguards and security 630 - NS-QualControl Quality control tools for standardisation in the field of nuclear security and safeguards 631 - NS-AgeDating 239 - ABACC Safeguards Strengthening the Safeguard Capabilities of ABACC 684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 700 - NSRD Nuclear Safeguards R&D 734 - Particles Particle analysis for nuclear	INS-RS			684201501	Report on Status of EC-SP	Report and notes on the task status of the European Commission Support programme	31/05/2015	Public information documents
															684201502	Report on Status of EC-SP	Report and notes on the task status of the European Commission Support programme	30/11/2015	Public information documents
															684201601	Report on Status of EC-SP	Report and notes on the task status of the European Commission Support programme	31/05/2016	Public information documents
															684201602	Report on Status of EC-SP	Report and notes on the task status of the European Commission Support programme	30/11/2016	Public information documents
865 - AnSafe Analytical Support to safeguards authorities	A key topic in international Safeguards is the prevention of further spread of nuclear materials that can be used for the production of nuclear weapons. In order to detect undeclared nuclear activities high performance analyses are necessary. In the framework of the EU support programme to the IAEA, and TPW agreements to others (ABBAC, KINAC,...). ITU's Analytical Service is providing environmental and nuclear material analyses using 15 different analytical techniques accredited by ISO 17025	JRC.E.7 Evelyn ZULEGER	9.1.4.a	ENER	n/a	E.1 Head of Unit (P. Meylemans)	ABACC - Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials EEAS - European External Action Service IAEA - International Atomic Energy Agency (IAEA) KINAC - Korean Institute of Nuclear Non-proliferation and Control	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (15%) 6-Reference materials and measurements (75%) 7-Scientific, technical & policy consultancy (10%)		COM-TW								

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9.1.4.b Development of methodologies and tools for collection and analysis of strategic trade and export control-related data in support of the EU export control policy, as well as analysis of news and open source information in support of global nuclear non-proliferation issues, including studies on dual use technologies and proliferation-relevant threat, and related training;																		
681 - STREX Strategic export control	The project supports the harmonised implementation of dual-use items' export control policies through e.g. EU Guidelines and Pool of Experts technical advice. The focus is on tangible, intangible transfers, transit, trans-shipment and brokering. This includes: understanding, amending the "EU dual-use control list" deriving from international regimes; EU dual-use mapping; Sanctions; Training for export control officials; Support to EU cooperative programmes' development; JRC awareness; Networking.	JRC.E.6 Filippo SEVINI	9.1.4.b	TRADE	n/a	S Chardon	DEVCO ENER RTD TAXUD	- United States Department of Energy ESARDA - European Safeguards R&D Association IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (50%) 9-Education & training (50%)	JRC.I.1	270 - COE-3rd Centres of excellence (COE) - 3RD ROUND 754 - CBRN CoE 2 Chemical Biological Radiological and Nuclear Centres of Excellence 756 - STANP Strategic trade analysis for non proliferation 672 - CBRNE-std CBRNE - standards for CB threats	INS-RS	7	JRC internal awareness on dual-use items	Besides sending items, sensitive technology can be exported also through "intangible means", including modelling, software uploading, web-sites, e-mails, personal communication, publications, joint projects. Researchers should be aware of the existence of dual-use trade regulations and national laws in order to prevent non-authorised technology transfers. The project will continue a series of seminars started in JRC institutes and draft high level guidelines for Internal Compliance at JRC.	31/12/2015	JRC Technical reports
														9	ESARDA Export Control WG contribution	The ESARDA WG on export control of dual use items and technologies was launched in 2012. The project provides also the Chair, organises the activities, provides contributions and issues meeting reports.	31/12/2015	JRC Technical reports
														10	Training activities on dual-use issues	The project promotes the exchange of best practices among export control officers, and execution of training events: - 8th joint JRC- US-DoE NNSA technical seminar, organisation, contribution and publication of proceedings. - Based on agreements with DG TRADE, DG TAXUD, Member States and other stake-holders : development of a training curriculum for EU licensing and customs officers	31/12/2015	JRC Technical reports
														11	Strategic export control support development	Provision of technical and legal advice to EU strategic export control policies and proposals for changes to the framework. Contribution to harmonised implementation of strategic export control as requested by DG TRADE and agreed, based on available resources and competences. Continuation of EU dual-use Pool of Experts operation and contribution, providing advice to national export control administrations. Reports as agreed with DG TRADE	31/12/2015	Scientific and policy reports
														12	International export control regimes 2015	The project supports the relevant EU policy DGs in the context of the regimes defining the Guidelines and control lists included in EU dual-use regulation. - Nuclear Suppliers Group: participation and provision of ad hoc technical advice to DG TRADE and ENER in 2015 Plenary - Maintenance and update of the NSG website. - Australia Group: participation and provision of ad hoc technical advice to DG TRADE in 2015 Plenary. Development of competences through synergies with other JRC institutes.	31/12/2015	Scientific and policy reports
														13	Contribution to conferences and journals	Articles for conferences, ESARDA Bulletin and peer-reviewed journals: At least one contribution to conferences and one to a peer-reviewed journal	31/12/2015	Scientific and policy reports
														14	Strategic export control support evolution	Contribution to the review and implementation to EU strategic export controls, as agreed with the involved policy DGs and in consideration of the experience and results obtained in 2014-2015.	31/12/2016	JRC contributions to policy documents
														15	Redefinition of dual-use training activities	Continuation of training activities in collaboration with US DOE NNSA, Training of EU officials is a key element of the export control system. It is auspicious that a EU programme has been meanwhile started, to which the JRC will actively contribute based on the experience gained since 2007.	31/12/2016	Scientific and policy reports
														16	International export control regimes 2016	The project supports the relevant EU policy DGs in the context of the regimes defining the Guidelines and control lists included in EU dual-use regulation. - Nuclear Suppliers Group: participation and provision of ad hoc technical advice to DG TRADE and ENER as agreed - Maintenance and update of the NSG website based on resources - Australia Group: provision of ad hoc technical advice to DG TRADE, as agreed and based on competences available through synergies with other JRC Institute	31/12/2016	Scientific and policy reports
														17	Support to EU outreach on dual-use export controls	The project supports and monitors the evolution of EU capacity building activities; provides ad-hoc support to the CBRN Centres of Excellence initiative, as agreed with DG DEVCO and based on resources.	31/12/2016	Scientific and policy reports
														18	Contribution to conferences and journals	Articles for conferences, ESARDA Bulletin and peer-reviewed journals: At least one contribution to conferences and one to a peer-reviewed journal	31/12/2016	Scientific and policy reports
														19	Model development for dual use items procurement	The task consists in developing a methodology to describe clandestine procurements of dual use items which may contribute to clandestine nuclear weapons and other WMD programs. The work shall be based on analysis of existing research publications, open sources raw data and information collected through technical seminars and discussions with members of the international export control community	31/10/2015	JRC Technical reports
														20	Support to EU outreach on dual-use export controls	Evaluation and contribution to the definition of the EU export outreach programme and the CBRN Centre of Excellence initiative, as agreed with DG DEVCO and based on resources foreseen in the CBRN CoE Administrative Arrangement	31/12/2015	Scientific and policy reports
														21	Ph.D thesis on internal compliance programmes	Thesis developing model for export control Internal Compliance of research and academic institutions, focusing on the JRC as test case.	31/12/2016	PhD thesis
712 - OSINS Open source information for nuclear security: applications and tools	The project monitors nuclear security related open source information and performs technical analysis on selected non-proliferation issues for supporting EU institutions. It adapts and integrates existing products and develops dedicated software tools that support the analysis activities at the JRC and other relevant organizations, such as IAEA	JRC.E.8 Giacomo COJAZZI	9.1.4.b	ENER	n/a	Head of Unit ENER.E.1, P. Meytemans	DEVCO HOME TAXUD TRADE	EEAS - European External Action Service EU SITCEN - EU SITCEN - EU Situation Centre IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	2-Information systems & services (30%) 7-Scientific, technical & policy consultancy (70%)	JRC.G.2	185 - G-SEXTANT G-SEXTANT 444 - EmmSecurity EMM for Security 674 - PROMO Process monitoring of nuclear facilities 684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 756 - STANP Strategic trade analysis for non proliferation	INS-RS	50	News Monitoring and early warning-2015	Daily monitoring and collection of nuclear security related open source information and production of a news review (JRC Nuclear Security News) which provides information awareness and early warning to EC-DGs and EU targeted services. Monitored information sources include general news sites, nuclear related sites and databases. A status report will be issued at the end of the year.	23/12/2015	Scientific and policy reports
														65	Open source for Non Proliferation Studies-2015	Analyze and assess exemplar published techniques that have leveraged freely available open sources (including e.g. social media, geospatial visualization tools, and commercial satellite imagery) to derive new, value-added, nuclear nonproliferation relevant information. Apply those findings to develop a reproducible systematic methodology that builds upon the identified techniques.	23/12/2015	Scientific and policy reports
														70	Nuclear Security Media Monitor (NSMM)-2015	Operation and maintenance of the Nuclear Security Media Monitor (NSMM). Based on JRC's EMM technology, NSMM automatically monitors and analyses open source information relevant to the nuclear security domain. New functionalities will be added such as keywords in different languages or explored e.g. rating of information sources. NSMM is used by IAEA (support task EC-D- 01880) and JRC. Access for further customers needs will be investigated. Activity report issued at the end of the year.	23/12/2015	Scientific information systems and databases
														80	Nuclear Security Information Centre-2015	Continued development and operation of the Nuclear Security Information Centre. It will build initially on the news archive. On the bases of experience acquired in 2014 and on identified new requirements it will be further extended. It will be populated with the daily collection of news information, with collected reports and with some analysis results generated within the project with the aim to create a long-term memory of non-proliferation-relevant information. Synergies G-SEXTANT.	23/12/2015	Scientific information systems and databases
														85	Open Source information for nuclear security-2016	A paper on the use of open source information for non-proliferation will be presented at an international conference, with the perspective to be further extended for submission to a peer reviewed journal.	22/12/2016	Scientific paper presented at a conference and published in a book of conference proceedings
														90	News Monitoring and early warning-2016	Daily monitoring and collection of nuclear security related open source information and production of a news review (JRC Nuclear Security News) which provides information awareness and early warning to EC-DGs and EU targeted services. Monitored information sources include general news sites, nuclear related sites and databases. A status report will be issued at the end of the year.	23/12/2016	Scientific and policy reports
														110	Nuclear Security Media Monitor (NSMM)-2016	Operation maintenance and update of the Nuclear Security Media Monitor (NSMM). Based on JRC's EMM technology, NSMM automatically monitors and analyses open source information relevant to the nuclear security domain. It will be for IAEA (support task EC-D- 01880) and for targeted EC and EU institutions use.	23/12/2016	Scientific information systems and databases
														120	Nuclear Security Information Centre-2016	Continued development and operation of the Nuclear Security Information Centre. It will build initially on the news archive. It will be populated with the daily collection of news information, with collected reports and with some analysis results generated within the project with the aim to create a long-term memory of non-proliferation-relevant information.	23/12/2016	Scientific information systems and databases

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
756 - STANP Strategic trade analysis for non proliferation	Trade analyses on strategic goods in support to non-proliferation, IAEA nuclear safeguards, and to inform EU policies for export controls and EU outreach activities in third countries. Research and development on strategic trade analysis techniques mutated from statistical and economic methods. Design and development of information technology tools to host, structure, visualise and present trade data by commodities, geopolitical areas, regulations and export guidelines on strategic trade.	JRC.E.8 Giacomo COJAZZI	9.1.4.b	TRADE	n/a	S. Chardon	DEVCO ENER	IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	2-Information systems & services (45%) 7-Scientific, technical & policy consultancy (45%) 9-Education & training (10%)		681 - STREX Strategic export control 684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 712 - OSINS Open source information for nuclear security: applications and tools 1782 - DUAL USE TECHNICAL SUPPORT IN THE FIELD OF DUAL-	INS-RS	35	Trade analyses for export controls-2015	Analyses on EU dual-use trade to support DG TRADE, i.e., in the impact assessment exercise for the reform of the EU Regulation for export controls. Participation to the impact assessment steering group meetings chaired by DG TRADE and participated by relevant DGs in the Commission.	23/12/2015	Scientific and policy reports
														40	World atlas on nuclear-related trade-2015	Based on UN COMTRADE import-export database on the world trade, and on the trade flow tool developed in 2014 and duly extended, an atlas will be built showing country trade profiles on nuclear-related commodities. The atlas will facilitate the mirroring of import-export flows by pairs of countries. The atlas can support the verification of export information provided by countries to IAEA under Additional Protocols. Also Commission internal use. Can be of interest also for other collaborations.	23/12/2015	Scientific and policy reports
														50	World atlas on nuclear-related trade-tool-2015	Based on UN COMTRADE import-export database on the world trade, and on the trade flow tool developed in 2014 and duly extended, an atlas will be built showing country trade profiles on nuclear-related commodities. The atlas will facilitate the mirroring of import-export flows by pairs of countries. The atlas can support the verification of export information provided by countries to IAEA under Additional Protocols. Also Commission internal use. Can be of interest also for other collaborations.	23/12/2015	Scientific information systems and databases
														60	Training on The Big Table	Subject to agreement with IAEA, development of training material and support to IAEA's training sessions on Physical Model as embedded in The Big Table. The Physical Model is an internal multi-volume document for the IAEA's Department of Safeguards describing the nuclear fuel cycle (Task EC-D-011662).	30/06/2016	Training
														80	The Big Table tool collection maintenance-2016	The Big Table (TBT) document collection will be updated to ensure that newly published versions of documents are made available in TBT databases.	23/12/2016	Scientific information systems and databases
1782 - DUAL USE TECHNICAL SUPPORT IN THE FIELD OF DUAL-	The objectives, corresponding to Strands of activities in the AA's structure, are: 1. To provide DG Trade with in-depth expertise on technical issues associated with export controls and to enhance the level of Commission participation in technical discussion in international export control regimes. 2. Trade-flow information and analysis. 3. To develop tools that will help with the proper implementation of Regulation 428/2009 across the EU.	JRC.E.8 Filippo SEVINI	9.1.4.b	TRADE	TRADE	S. Chardon			07/12/2011 06/12/2015	7-Scientific, technical & policy consultancy (100%)		672 - CB(RNE)-std CBRNE - standards for CB threats 756 - STANP Strategic trade analysis for non proliferation 681 - STREX Strategic export control	COM-AA	8	Current and prospective control list entries	Comments to selected technical proposals of the Nuclear Suppliers Group in 2015 Comments to selected technical proposals of the Australia Group activities in 2015	31/12/2015	Scientific and policy reports
														9	Functioning of the EU Pool of Experts	Report on advices provided in 2015	31/12/2015	Scientific and policy reports
														10	Support DG Trade in international export control	Report on Nuclear Suppliers Group activities in 2015 Report on Australia Group activities 2015	31/12/2015	Scientific and policy reports
														11	Trade flow analyses	Reports on EU trade flows (for items listed in Annex I of Regulation 428/2009) towards specific third countries indicated by DG TRADE.	31/12/2015	Scientific and policy reports
														12	Trade Flow Tool	Extension of the Trade Flow Tool for the automatic generation of standardised EU trade profiles with third countries on dual-use related commodities. Maintenance of the Trade Flow Tool database: loading of 2014 COMEXT data, update of trade nomenclatures (Harmonized System and Combined Nomenclature), and inclusion of the latest Correlation Table as made available from DG TAXUD. Feasibility tests and integration of the Trade Flow Tool data views under DG TRADE DuES system	31/12/2015	Scientific information systems and databases
														13	Final report	Final report	31/12/2015	Scientific and policy reports
														9.1.4.c Support to the development of technologies for effective control methods in support to the implementation of the Article 6 of the Non-proliferation Treaty.				
682 - ACVT Research on Novel Verification Technologies and Applications	Nuclear arms control and dismantlement with its constraints and requirements is a complex and challenging field which heavily relies on sound verification technologies (especially NDA) combined with information barriers, tools for authentication and continuity of knowledge. This project aims to explore the technical issues and opportunities presented by	JRC.E.8 Hamid TAGZIRIA	9.1.4.c	ENER	n/a	Paul Meylemans	HOME	IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2015	5-Monitoring, verification and surveillance (100%)		710 - ACTIVE-N Optimization of instrument parameters for pulsed neutron interrogation	INS-RS	1	Survey and review of potential technologies	It is widely recognized that verification technologies in general and NDA in particular play a major role in arms control and disarmament process and that scientific development of internationally recognized and accepted solutions can lead the way. It is also recognized that the technical groundwork must be done and made ready for any future multilateral negotiation. This deliverable aims to survey all potential verification technologies that may apply in given scenarios.	30/12/2015	Validated methods, reference methods and measurements
9.1.4.d Development of new methodological approaches to safeguards' design, implementation, verification and paradigms, including safeguards by design and proliferation resistance evaluation methodologies required to allow optimised monitoring of existing and future nuclear energy systems, in synergy with the Generation IV International Forum (GIF).																		
436 - INSAF Innovative concepts and methodologies for nuclear safeguards	Supporting the innovation of the non proliferation regime through the investigation of concepts such as: safeguards by design, proliferation resistance methodologies and state level approaches design and evaluation. The project foresees the participation in international fora (Generation IV International Forum: Proliferation Resistance and Physical Protection WG, IAEA: International Project on Innovative Nuclear Reactors and Fuel Cycles -INPRO-, EC support programme) and in house developments.	JRC.E.8 Giacomo COJAZZI	9.1.4.d	ENER	n/a	Head of Unit Unit E.1, P. Meylemans		GIF - Generation-IV International Forum IAEA - International Atomic Energy Agency (IAEA)	01/01/2014 31/12/2016	7-Scientific, technical & policy consultancy (100%)	JRC.A.4	684 - IAEA-ECSP Coordination of EC Support Programme to IAEA 1018 - EUROGIF European Generation IV International Forum	INS-RS	60	Report on Acquisition Paths analysis to support st	This report will assess ongoing activities related to the development of State-Level Approaches (SLA), including, if available, preliminary results of SLA implementation. Contingent on the results of the preceding SLA report from 2014, this report will propose possible methods for addressing some of the issues emerged in deliverable 10 (also link to EC Task: JNT-C-187, if continuation will be confirmed). A conference paper is also foreseen.	23/12/2015	Scientific and policy reports
														65	Safeguards by Design (SbD)-2015	SbD is defined as the process to consider safeguards since early design phases. The EC (DG-ENER and JRC) supports the IAEA's initiatives on SbD through a support task (EC-C-0172). Facility specific guidelines are being prepared by IAEA (see deliverable 30). This deliverable will be the contribution to the IAEA guidelines that will be published as Nuclear Energy technical reports in 2015.	23/12/2015	Scientific and policy reports
														80	Proliferation Resistance and Euratom in GIF-2015	The participation to the activity of the Proliferation Resistance and Physical Protection working group (PRPPWG) and contribution to deliverables will be ensured (including periodic conference calls, attendance to the meetings, etc.). The deliverable will be a report listing contributions to the group activities including oral presentations at the meetings.	23/12/2015	Scientific and policy reports
														85	R&D on Proliferation resistance & Methods	Safeguardability and proliferation resistance (PR) features of the use of reprocessed uranium in LWR fresh fuel will be further investigated. Dissemination of results of previous work on PR related i.e. to the addition of minor actinides in fresh fuel of future sodium fast reactors. New areas of work.	23/12/2015	Article contribution to other periodicals
														90	Acquisition Paths and state level approaches-Report	Final Technical report on Acquisitions paths and state level approaches. Lessons learned.	23/10/2016	Scientific and policy reports
														100	Proliferation Resistance and Euratom in GIF-2016	The participation to the activity of the Proliferation Resistance and Physical Protection working group (PRPPWG) and contribution to deliverables will be ensured (including periodic conference calls, attendance to the meetings, etc.). The deliverable will be a report listing contributions to the group activities including oral presentations at the meetings.	23/12/2016	Scientific and policy reports
														110	Acquisitions paths and state level approaches-Pape	Acquisitions paths and state level approaches: peer reviewed journal article.	23/12/2016	Article contribution to other peer-reviewed periodicals
9.2 International Cooperation and Development																		
9.2.1 Food and nutrition security, rural development and sustainable agriculture																		
9.2.1.a Monitor food and nutrition security, agricultural and natural resources, support information systems, and carry out research activities including primary data collection, studies, modelling, assessments, macroeconomic and microeconomic analyses, policy analyses towards the goal of eradicating poverty and hunger, whilst contributing to sustainable agriculture, nutrition and resilience in developing countries.																		
26 - Food SSA Technical and scientific support to Food Security information in sub-Saharan Africa	This 5 year project is funded by DEVCO under the Food Security Thematic Program (FSTP). It aims to provide technical and scientific support to food security information for decision making in sub-Saharan Africa. This covers both food availability (monitoring of agriculture and early warning), and food accessibility (livelihood assessment and vulnerability of households). It is implemented in close relationship with EEAS and UN organizations (World Food Program, Food and Agriculture Organisation)	JRC.H.4 Francois KAYITAKIRE	9.2.1.a	DEVCO	DEVCO	DEVCO Unit C1, J-P. Halkin Hou	ECHO RTD	AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) AU - African Union ECOWAS - Economic Community Of West African States EEAS - European External Action Service IGAD - Intergovernmental Authority on Development NEPAD - OST - New Partnership for Africa's Development (NEPAD)	15/10/2009 14/10/2015	5-Monitoring, verification and surveillance (50%) 7-Scientific, technical & policy consultancy (25%) 9-Education & training (25%)			COM-AA	1	Report of the study on "Regional Food Security"	The "Regional Food Security and Common Market Policy of East African Community" study will evaluate the impact of the Customs Union and Common Market Policies in East African Community (EAC) on food security, mainly on availability of and access to the main staple in the EAC member states. The findings will support EU Delegations, DEVCO and ECHO in defining the strategies for food security interventions in the region.	30/09/2015	Scientific and policy reports
														2	Final Report	Summary and record of the work undertaken	14/10/2015	JRC Technical reports
616 - AGRO-DEV Analysing Agriculture for Developing Countries	AGRO-DEV analyses impact of policy measures in the agri food sector in selected African economies. Effects range from international regional, country, local and farm/household levels. The first levels -from international to country- focus on effects in terms of prices, commodity markets and employment. The latter, local and farm/household levels, namely encompasses small regions, villages and farm-household analysis, with emphasis on producers' income, investments and structural change.	JRC.J.4 Sergio GOMEZ Y PALOMA	9.2.1.a	DEVCO	n/a	DEVCO C1	AGRI RTD		07/01/2013 01/04/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	2	Modelling Agriculture for Developing Countries	Quantitative Impact Analysis of EU (mainly CAP) and Country Policies on selected African Countries at Macro, Regional and Micro (Farm) level	30/12/2015	Scientific and policy reports
														3	Modelling Agriculture for Developing Countries	Quantitative Impact Analysis of EU (mainly CAP) and Country Policies on selected African Countries at Macro, Regional and Micro (Farm) level	25/12/2016	Scientific and policy reports

JRC WORK PROGRAMME 2015 - 2016																																	
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category															
1003 - MARS4FS Monitoring Agricultural Resources for Food Security	The project will support food security and rural development policies by developing agricultural monitoring information systems and improving current methodologies based on analysis of earth observation and crop modelling data. It will apply remote monitoring techniques to project evaluation and impact assessments for EU funded projects and build relevant scientific networks in developing countries in collaboration with project implementing agencies (FAO, WFP) and international research centres	JRC.H.4 Felix REMBOLD	9.2.1.a	DEVCO	n/a	J-P Halkin, HoU C1	AGRI ECHO RTD	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) AREC - African Regional Economic Communities AU - African Union CGIAR - Consultative Group on International Agricultural Research ECOWAS - Economic Community Of West African States EEAS - European External Action Service IFPRI - INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE IGAD - Intergovernmental Authority on Development NEPAD - OST - New Partnership for Africa's Development (NEPAD) WFP - World Food Program of the United Nations	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (40%) 7-Scientific, technical & policy consultancy (40%) 9-Education & training (20%)			1719 - TS4FNS Technical and scientific Support to agriculture and Food and Nutrition Security sectors (TS4FNS). 1060 - SIGMA Stimulating Innovation for Global Monitoring of Agriculture and its Impact on the Environment 1023 - RESIFOOD Resilience-building for improved food & nutrition security 900 - SPACE Space Policy and the Copernicus Programme 2249 - TS4FNS 2nd PART Technical and scientific Support to agriculture and Food and Nutrition Security sectors 2ND PART	INS-RS	1	Info systems and agricultural monitoring bulletins	Manage and develop systems that support the production of ad hoc food security bulletins and web-based hotspot early warning and/or yield prospects (support to competitive activities for DG DEVCO). Methodological developments will be published in scientific papers and will support the improvement of crop monitoring tools like SPIRITS (Software for Processing and Interpreting Remote Sensing Image Time Series) and web based systems like MARS Viewer.	31/12/2015	Scientific information systems and databases														
															2	Monitoring sustainable agricultural development	Describing the use of multi-resolution remote sensing analysis in support of rural development project monitoring. Monitoring impact of projects aiming at sustainable agricultural development is often challenging due to access limitations and availability of quality ground information & indicators. Remote sensing based analysis on land cover/use change or possible decrease of land degradation can support understanding the long term project impact. Examples provided for Somalia, Kenya and others	31/10/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
															3	African post-harvest losses information system	Further development of APHLIS (African Post harvest Losses Information System), technical improvements to the online system and report on postharvest losses assessment and an assessment report providing orientation for its use in the framework of the Global UN Strategy on Agriculture Statistics as well as for Rural development. JRC contribution relates to technical improvement and guidance of the system, while further implementation will be funded by external partners.	31/07/2016	Scientific information systems and databases														
															4	Local validation of seasonal crop yield forecasts	With increasing availability of very high resolution data it is possible to improve the auxiliary data used by yield forecasts at national or regional level such as for example land cover data, irrigated areas maps or crop area. Report or scientific paper in 2015 about examples of improvement of crop monitoring reports and bulletins (Deliverable 1) by improving detailed information on crop distribution, irrigation, mix with natural vegetation etc. by using high and very high resolution imagery.	30/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
															5	Crop Monitoring bulletins for North Africa	Produce twice-yearly bulletins (March and June) for 2015, 2016 to provide inputs to the DG AGRI Outlook calendar for EU Neighbourhood countries. Work is undertaken in conjunction with the tools/skills from the Agri4cast project and includes crop models, remote sensing and meteo data analysis.	31/03/2015	Scientific and policy reports														
															6	Crop monitoring bulletin for North Africa	Produce twice-yearly bulletins (March and June) for 2015, 2016 to provide inputs to the DG AGRI Outlook calendar for these EU Neighbourhood countries. Work is undertaken in conjunction with the tools/skills from the Agri4cast project and includes crop models, remote sensing and meteo data analysis.	31/03/2016	Scientific and policy reports														
															7	Improving monitoring of pastoral vegetation	Multi scale approaches will be tested for monitoring pastoral areas with special attention given to factors influencing the carrying capacity of pastures, such as palatability and species composition, invasive species, loss of vegetative cover and soil erosion. Animal tracking and tracing systems may also be part of this.	31/12/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
															8	Info systems and methodological development	Manage and develop systems that support the production of ad hoc food security bulletins and web-based hotspot early warning and/or yield prospects (support to competitive activities for DG DEVCO). Methodological developments will be published in scientific papers and will support the improvement of crop monitoring tools and web based systems like SPIRITS and MARS Viewer.	31/12/2016	Scientific information systems and databases														
1023 - RESIFOOD Resilience-building for improved food & nutrition security	The project will address the determinants of household vulnerability and resilience to food and nutrition insecurity, in line with the Commission's Communication COM(2012) 586 and with geographic focus on Africa. It will (i) assess household and community resilience to food and nutrition insecurity and (ii) investigate the determinants of resilience to food and nutrition insecurity in different environments and settings.	JRC.H.4 Francois KAYITAKIRE	9.2.1.a	DEVCO	n/a	J-P Halkin, HoU C1	ECHO RTD	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO) AU - African Union ECOWAS - Economic Community Of West African States EEAS - European External Action Service IGAD - Intergovernmental Authority on Development WFP - World Food Program of the United Nations	01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (70%)			1719 - TS4FNS Technical and scientific Support to agriculture and Food and Nutrition Security sectors (TS4FNS). 1003 - MARS4FS Monitoring Agricultural Resources for Food Security 2249 - TS4FNS 2nd PART Technical and scientific Support to agriculture and Food and Nutrition Security sectors 2ND PART	INS-RS	1	Reports on resilience determinants modelling	Technical reports on the modelling results and policy recommendations to improve resilience to food and nutrition insecurity in selected countries to be defined in consultation with DG DEVCO. At least two reports considering contrasted environments and settings. Expected release dates: 31-12-2015 and 31-12-2016	31/12/2015	Scientific and policy reports														
															2	Paper on resilience measurement & monitoring	Peer-reviewed article on the approach to assess the baseline of household and community resilience to food and nutrition insecurity. Expected release date: 30-06-2015 Deliverable category: Scientific paper Impact category: Support to countries and international organizations	30/06/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index														
															3	Ad-hoc assessment on food and nutrition insecurity	Reports on the status of food and nutrition security in specific countries or regions based on an integrated assessment and considering the capacity of communities to recover from shocks. Such reports may be requested by the Commission to inform project preparation. Expected release date: 15-12-2015; 15-12-2016.	15/12/2016	Scientific and policy reports														
1694 - CoM East PROJECT COVENANT MAYORS - EAST AND ASIA	The project aims to adapt the European initiative "Covenant of Mayors" (CoM) to the East Neighbouring countries and the Central Asian ex-CIS republics. The purpose is to provide these countries and the project beneficiaries with technical and scientific assistance, analysis and input to support the project implementation, including Sustainable Energy Action Plans guideline and implementation and monitoring guidelines.	JRC.F.7 PAOLO BERTOLDI	9.2.1.a	DEVCO	DEVCO	BRITES Marta			23/05/2011 29/02/2016	7-Scientific, technical & policy consultancy (100%)		261 - CoM South Covenant of Mayors South	COM-AA	3	SEAP implementation monitoring	Under this task the monitoring guidelines of the SEAP implementation will be developed. Then by using these guidelines the monitoring of the SEAP implementation will be carried out	18/12/2015	JRC Technical reports															
														4	Technical support to the Sudep initiative	Under Sudep a number of projects in cities participating in the CoM will have EE projects financed by DG DEVCO, the JRC will provide technical scientific support to analyse the energy saving generated by these projects.	20/11/2015	JRC Technical reports															
														5	Evaluation of the CoM East initiative	Production of a report to summarize the results achieved and the lesson learned in the CoM East initiative	30/01/2016	Scientific and policy reports															
1719 - TS4FNS Technical and scientific Support to agriculture and Food and Nutrition Security sectors (TS4FNS).	This description describes the 1st TS4FNS package. The JRC will provide support for: i) improvement of information systems on agriculture, nutrition and food security, ii) policy and economic analysis to support policy decision-making process and iii) scientific advice on selected topics concerning sustainable agriculture and food and nutrition security. Support is provided in selected developing countries mostly in sub-Saharan Africa	JRC.J.4 Sergio GOMEZ Y PALOMA	9.2.1.a	DEVCO	DEVCO	Jean Pierre Halkin DEVCO C1	AGRI RTD		04/12/2013 03/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		JRC.H.4	2249 - TS4FNS 2nd PART Technical and scientific Support to agriculture and Food and Nutrition Security sectors 2ND PART	COM-AA	2	Report on Agro-economics at the micro-farm level	Report Agro-economics at the micro-farm level in selected African Countries to be decided in agreement with DEVCO	31/12/2015	JRC Technical reports														
															3	Food demand in selected African Countries	the Countries to be selected in agreement with DG DEVCO	31/12/2016	JRC Technical reports														
															4	Macroeconomic analysis selected African countries	African countries to be agreed with DEVCO	31/12/2016	JRC Technical reports														
															5	FS regional & national information systems West Africa	Title: Reports related to the JRC support to regional and national information systems on food security and nutrition in West Africa Description: The reports will cover activities related to the JRC participation to the Cadre Harmonise, support to ECOAGRI implementation, workshops and ad-hoc analyses.	31/12/2016	Scientific and policy reports														
															6	Food security situation reports	Reports on overall food security situation in countries selected by the DG client. The analysis is based on internal resources and a review of reports from different institutions.	31/12/2016	Scientific and policy reports														
															7	Improved food security analysis	This item covers several deliverables contributing to improvement of remote-sensing-based methodologies and tools used for food security analysis, such as early warning and food security situation reports prepared in partnerships with other agencies and with MARS technical support, e-learning course on crop monitoring with remote sensing for food security, development of software and viewers, scientific papers on methodological improvements, and assessment and survey reports.	31/12/2016	Scientific and policy reports														
															9	nutrition & FS public policies in 5 African countries	A review of national policies to combat food insecurity and malnutrition in 5 African countries to be selected by DG DEVCO.	31/12/2016	Scientific and policy reports														
															10	effective approaches to agricultural weather management	A review assessing the common approaches to agricultural risk financing mechanisms, among which the index insurance schemes, and covering the full chain of the mechanisms, from the index design to the actual effect on food security and agriculture development. Two intermediate reports are foreseen.	31/12/2016	Scientific and policy reports														
															2249 - TS4FNS 2nd PART Technical and scientific Support to agriculture and Food and Nutrition Security sectors 2ND PART	This description describes the 2nd TS4FNS package. The JRC will provide support for: i) improvement of information systems on agriculture, nutrition and food security, ii) policy and economic analysis to support policy decision-making process and iii) scientific advice on selected topics concerning sustainable agriculture and food and nutrition security. Support is provided in selected developing countries mostly in sub-Saharan Africa Contract under signature 4156000€ Jipsy number not available	JRC.J.4 Sergio GOMEZ Y PALOMA	9.2.1.a	DEVCO	DEVCO	Jean-Pierre Halkin DEVCO C1	AGRI	01/01/2015 31/12/2017	5-Monitoring, verification and surveillance (30%) 7-Scientific, technical & policy consultancy (30%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%)		JRC.H.4	1719 - TS4FNS Technical and scientific Support to agriculture and Food and Nutrition Security sectors (TS4FNS). 616 - AGRO-DEV Analysing Agriculture for Developing Countries	COM-AA	1	Report on Agro-economics at the micro-local level	Report Agro-economics at the micro-local level in selected African Countries. Countries to be decided in agreement with DG DEVCO	31/12/2015	JRC Technical reports
																													2	Food demand & Viability of Agro-ecosystems	Countries to be selected in agreement with DG DEVCO	31/12/2016	JRC Technical reports
3	Report Activity DataM	DataM is the Agricultural Database	31/12/2017	JRC Technical reports																													
4	CAP impact on agriculture & food security	Analysis of the impact of CAP on agriculture and food security in 5 selected heterogeneous developing countries. Countries to be agreed with DEVCO in collaboration with DG AGRI	31/10/2017	JRC Technical reports																													
5	Macroeconomic analysis selected African countries	African countries to be agreed with DEVCO	31/12/2017	JRC Technical reports																													
6	Monitor landuse changes in hot spot African Areas	Mapping and monitoring of changes in agricultural land use in some hot spot areas in Africa High spatial resolution land use map of some hotspots for competition among the different land uses, mainly where agricultural land is scarce. The product and its related analysis will feed the IES work on competition for land. JRC.H.4; JRC.H.5	31/12/2017	JRC Technical reports																													

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9.2.2 Climate change, environment, natural resources, and water																			
9.2.2.a Analysis, capacity-building, provision of data, maps and methodologies on the extent, vulnerability to, and risk of current and future weather-driven disasters in developing countries, including guidance towards a more targeted allocation of climate finance, in particular in support of the Global Climate Change Alliance;																			
1670 - CLIMEcoN Economics of climate change and development within a global Perspective	Providing information to mainstream climate change adaptation and vulnerability into development and sectoral policies, and to allocate resources supporting climate resilient development and green growth; Exploring options to address loss and damage resulting from the impacts of climate change in the context of UNFCCC negotiations	JRC.H.7 Apollonia MIOLA	9.2.2.a	DEVCO	n/a	DEVCO C2 C. Pasca Palmer HoU	CLIMA ECHO ENV	OECD - Organisation for Economic Co-operation and Development (OECD) UN FCCC - UN Framework Convention on Climate Change (UNFCCC) UN ISDR - United Nations International Strategy for Disaster Reduction (UN-ISDR)	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)		1746 - GCCA Global Climate Change Alliance	INS-RS	1	Climate resilient development index	Report on indicators and methods to build a climate resilient development index	31/12/2015	Scientific and policy reports	
														2	Loss & damage in climate finance	Report on definition of a comprehensive methodology for the inclusion of the Loss and damage information in view of climate investments supporting climate resilience and inclusive green growth actions.	31/12/2015	Scientific and policy reports	
														3	Climate resilient development index	Report on application of methodology of the climate risk index to guide private and public adaptation investments complementing by a Loss and Damage framework	31/12/2016	Scientific and policy reports	
														4	Loss & damage in climate finance	Report on Results of Application of a methodology for the inclusion of the Loss and damage information of climate finance supporting climate resilience and inclusive green growth investments	31/12/2016	Scientific and policy reports	
1732 - EUROCLIMA 2 Desertification, drought, and crop yield estimation in Latin America under a changing climate	The JRC contribution to EUROCLIMA 2 will address the dissemination and deepening of knowledge about desertification, land degradation and drought as well as on crop growth modelling in Latin America, considering the potential effects of climate change, and allowing to link research results to climate change mitigation and adaptation measures, including where feasible issues of disaster risk management.	JRC.H.7 Paulo BARBOSA FERREIRA	9.2.2.a	DEVCO	DEVCO	DEVCO/G2 Jean-Paul Joulia, Jose Gonzalez y Gonzalez, Catherine Ghyoot	AGRI CLIMA ECHO		15/01/2014 15/01/2017	2-Information systems & services (50%) 7-Scientific, technical & policy consultancy (50%)	JRC.H.4 JRC.H.5	143 - BASAL Bases Ambientales para la Sostenibilidad Alimentaria Local 974 - LDNC Land Degradation and land's changing Natural Capital	COM-AA	1	Assessment of the H-E system productivity	Interpretation of detailed maps on the assessment of the H-E system productivity into dedicated land degradation maps	31/10/2015	JRC Technical reports	
														2	Climate change impacts on land degradation	Methodologies for evaluation/modelling of climate change impacts on land degradation processes will be explored in order to have a better understanding on which degradation processes could be more affected by climate change	30/06/2016	JRC Technical reports	
														3	Final land degradation maps	Final land degradation maps will be linked to expected, documented effects of climate variability and change to gain more insight into the cause and effect feedback loops contributing to enhance climate change preparedness.	31/10/2016	JRC Technical reports	
														4	Economic valuation of land degradation	Economic valuation of land degradation and mitigation options considering the effects of climate change. Human-Environment (H-E) system productivity maps, as well as final land degradation maps, will be linked and integrated with econometric models to contribute to the valuation of land degradation and mitigation options and also considering the effects of climate change.	01/12/2016	JRC Technical reports	
														5	Drought forecasting	Drought prediction will be done by using meteorological forecasts from Ensemble Prediction Systems (EPS) that could be applied to drought indices such as the SPI. This activity will rely on existing global EPS but also on information provided by regional partners such as the Centro de Previsão do Tempo e de Estudos Climáticos (CPTEC) of Brazil.	30/06/2016	JRC Technical reports	
														6	Drought vulnerability and Risk	Development of a model for mapping drought vulnerability and risk. In order to assess the drought risk for a certain region, the definition of vulnerability to drought should reflect the complex interactions between and the socio-economic systems and the physical environment. Models for drought vulnerability and risk will be developed at regional level but some countries might want to develop their own models at national or more local level.	01/06/2015	JRC Technical reports	
														7	Climate change impact on droughts	Analyse the impact of climate change on drought frequency, intensity and length, and analyse with local partners proposed measures for mitigation and adaptation of drought events.	30/09/2016	JRC Technical reports	
														8	Meteo and remote sensing data, and DLDD products	The current and/or new meteorological and satellite image providers could be contacted to establish adequate cooperation protocols; new datasets from LA national and regional institutional partners need to be raised to increase system's interoperability and prominence. Current data products should be maintained and improved; new products from LA national and regional institutional partners need to be raised to increase system's interoperability and prominence	01/12/2016	Scientific information systems and databases	
														9	Web-mapping training	Training and transfer of web-mapping and decision support system technology to LA partners; if there is interest from LA institutions it could be envisaged to implement the LA Drought Observatory in a LA institution that would become responsible to run and maintain the system	30/09/2016	Training	
														10	Case Studies	A certain number of case studies are proposed to be executed by the members of the EUROCLIMA expert network in communication and coordination with the national focal points. Some initial proposals have already been made during the last EUROCLIMA Workshop on DLDD that took place in Natal (Brazil) in October 2012 and these should be taken as the basis for discussion for the case studies (see minutes of the Workshop at http://redo.jrc.ec.europa.eu/scado/php/index.php?id=3208).	30/06/2015	Study Reports produced by external contractors	
														11	Workshop and Training 2	The second Workshop should take place during the second year and will cover the topics developed until that period (e.g. the results of the case studies). The second training will be a specific training on decision support system technology with emphasis on the specific case studies on Land Degradation and Drought.	30/09/2015	Training	
														12	Workshop and Training 3	The third and final Workshop should take place at the end of the last year presenting the final results of the project. The third training will be a specific training on web-mapping technology that will allow LA partners to learn how to implement similar web-mapping systems to the one developed in EUROCLIMA. The Workshop could be done in coordination with the Scientific Conference (see deliverable 20)	30/09/2016	Training	
														13	Improve BioMA modelling platform for LA	Report on the enhanced version of BioMA, tailored to the needs of LA partners and to local and regional conditions, particularly regarding user friendliness of the system and more context-specific crop parameterization for main crops in Latin America.	30/06/2015	Technical systems	
														14	Climate scenarios for specific regions in LA	Report and accompanying database. While in EUROCLIMA 1 the output of 2 Global Circulation Models was used as climate forcing for bio-physical simulations of climate change impacts on crop yields at LA continental scale, in EUROCLIMA 2 state-of-the-art climate scenarios that are downscaled and bias-corrected for the main producing regions in LA will be identified, acquired and post-processed to derive a best-available climate forcing for the BioMA-based crop model runs under climate change.	30/06/2016	JRC Technical reports	
15	Report on climate change adaptation options	Building on deliverable 16 and the knowledge on specific agro-management regions in LA, adaptation options identified in close collaboration with LA partner organization will be evaluated in the context of climate change; for example, changed management practices regarding irrigation, crop rotation, tillage, or change of crop varieties. With the help of model simulations qualitative and quantitative estimates of vulnerabilities will be obtained.	30/11/2016	JRC Technical reports															
16	Estimates of Climate change impact on yields	Report and accompanying database on bio-physical simulations with the tailored crop growth models to explore potential yields – in comparison to a baseline scenario close to today's conditions – at climate change horizons of 2030 and possibly 2050 on the basis of the previously developed state-of-the-art climate scenarios.	31/10/2016	JRC Technical reports															
17	Training workshop on the BioMA platform	An expert training workshop will be held in order to present the development and implementation of the context-specific BioMA implementations in LA. The workshop will include lecturing as well as hands-on training and discussion sessions.	30/06/2015	Training															
18	Conference on agriculture climate change impacts	In this Conference the results of the model simulations, including adaptation options, will be presented to the partner organizations, scientific public, and decision makers. EUROCLIMA 2 results will be confronted with findings of other related climate change studies performed in LA by partner organizations and third party.	31/10/2016	Scientific and policy reports															
1746 - GCCA Global Climate Change Alliance	The overall objective is to provide support to the Global Climate Change Alliance (GCCA). The specific objectives are: 1) the update and upgrade of the GCCA index for the selection of countries beneficiaries of GCCA support; 2) Review of GCCA thematic studies, including related Terms of Reference; 3) Share knowledge on climate change issues and ad hoc scientific support to GCCA Programmes and DEVCO	JRC.H.7 Apollonia MIOLA	9.2.2.a	DEVCO	DEVCO	Cristiana Pasca Palmer (HoU) DEVCO C2 and Ms Laura Giappichelli policy officer DEVCO C2	AGRI CLIMA ECHO		23/12/2013 22/03/2015	1-Foresight studies & techniques (10%) 7-Scientific, technical & policy consultancy (90%)			COM-AA	2	Task 1 b Update GCCA index: new indicators	This deliverable will propose a limited number of new indicators to add or replace existing one.	31/01/2015	Scientific and policy reports	
														3	Workshop	A workshop between JRC scientists, DEVCO and GCCA practitioners to exchange information that are of mutual benefit	25/03/2015	Oral presentations	
9.2.2.b Monitoring, scientific advice, development of ICT tools, dissemination of information, and capacity-building of national scientific and government partners in developing countries, to support related multilateral or bilateral agreements and cooperation initiatives in particular in the field of natural resource management through applied space technologies and with a focus on forestry, biodiversity, ecosystem services, agriculture, climate change and water.																			
43 - RALCEA Red Latino Americana de Centros de Excelencia en Agua	LA Knowledge Centres have a crucial role in disseminating the concept of Sector Wide Approach and Integrated Water Resources Management. Workshops and seminars, having as main target the political level (local or national officials from government) will be developed. Online trainings will also be designed through the AquaKnow platform. As leader coordinator, the Joint Research Centre (JRC) plays an important role in terms of knowledge management, technological support and technology transfer	JRC.H.1 Cesar CARMONA MORENO	9.2.2.b	DEVCO	DEVCO	Jose GONZALEZ Y GONZALEZ			16/08/2010 15/08/2015	7-Scientific, technical & policy consultancy (100%)				COM-AA	1	Final Report	JRC- Technical report describing the activities implemented	15/08/2015	JRC Technical reports
65 - BIOPAMA BIOPAMA - Biodiversity and Protected Areas Management	BIOPAMA aims to improve the long-term conservation of biodiversity in Africa, Caribbean and Pacific regions and reduce the poverty of populations in and around protected areas. Emphasis is on improving access to information on biodiversity, climate, natural resources, economic activity, population and demographics, and online analytical tools. Observatories in each ACP region will host a Reference Information System designed by JRC. It is run jointly with	JRC.H.5 Stephen PEEDELL	9.2.2.b	DEVCO	DEVCO	Dimitri HARMEGNIOS (DEVCO)		IUCN - International Union for Conservation of Nature	21/07/2011 20/07/2016	2-Information systems & services (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (40%) 9-Education & training (20%)				COM-AA	1	BIOPAMA Reference Information System	A suite of software tools, databases, web services, web clients and information products packaged and deployed in Observatories to be set up in host institutions in the four project regions. Built using components of the DOPA (Digital Observatory of Protected Areas) institutional activity. Includes training component, system architecture and functional design, deployment and procurement plan.	01/06/2015	Scientific information systems and databases
															4	BIOPAMA Reference Information System	A suite of software tools, databases, web services, web clients and information products packaged and deployed in Observatories to be set up in host institutions in the four project regions. Built using components of the DOPA (Digital Observatory of Protected Areas) institutional activity. Includes training component, system architecture and functional design, deployment and procurement plan.	30/06/2016	Scientific information systems and databases

JRC WORK PROGRAMME 2015 - 2016																	Creation: 14/01/15 11:23:02															
Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category														
143 - BASAL Bases Ambientales para la Sostenibilidad Alimentaria Local	Overall aims at developing tools to help Cuban decision-makers compare differential environmental/socio-economic impacts of their decisions regarding water resources and land use management. JRC contribution consists of activities to collect, analyse and display historical & scientific data concerning the environmental and socio-economic change in three municipalities chosen as study areas to help facing water & land use-related problems particularly under effects of climate variability/change	JRC.H.1 Cesar CARMONA MORENO	9.2.2.b	DEVCO	DEVCO	DEVCO G - Latin America and Caribbean	RTD	ARC - AGRHYMET Regional Centre (ARC) CICOS - Commission Internationale du bassin Congo-Oubangui-Sangha - Inernational Commission of Congo-Oubangui-Sangha river basins EEAS - European External Action Service ICPAC (IGAD) - Climate Prediction and Application Centre	20/12/2012 19/12/2016	2-Information systems & services (30%) 7-Scientific, technical & policy consultancy (40%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (30%)	JRC.H.4		COM-AA	3	BASAL Water4Dev Model-database system	Specification of the information system: - Model description and simulation results - Model testing results - Scientific papers/communication produced	14/02/2015	Technical systems														
														4	Modelling tool	- User material - Model documentation - Model Application User Manual	14/02/2015	JRC Technical reports														
														5	Training on the use and maintenance of the system	Training on the use and maintenance of the system	14/02/2016	Training														
														6	Document on Lessons learnt and policy recommendations	Document on Lessons learnt and policy recommendations	14/02/2016	JRC Technical reports														
														7	Context-specific version of the BioMA platform	Report on the tailored version of BioMA, comprising software description, technical specifications, and information on data layers and model capabilities added, and results of model calibration	01/07/2015	Scientific and policy reports														
														8	Prototype of comprehensive modelling system	Report with specification of the information system comprising improved BioMA + user interface (Web portal) developed and tested with stakeholders to verify its matching with their demand (tailored to Cuba)	31/12/2015	Scientific and policy reports														
														9	Training of Cuban stakeholders	Cuban stakeholders trained to apply, maintain and extend the system. Skills acquired by Cuban scientists and technicians as a result of several dedicated training sessions and interactive "learning-by-doing" throughout the project.	31/03/2016	Training														
														10	Results of first BioMA aided assessment	Results of first BioMA aided assessment of climate change impacts on crop production systems and adaptation strategies. Report on joint application of the new system to address real problems, comprising aspects of policy relevance, science rigour and model versatility.	30/06/2016	Scientific and policy reports														
														199 - MESA Monitoring of Environment and Security in Africa (MESA)	Monitoring of Environment and Security in Africa (MESA) is an EDF funded project managed by the African Union to support African decision-makers and planners in designing and implementing national, regional and continental policies and development plans towards sustainable development. JRC supports the Program through an AA by providing scientific, technical and institutional advice, and contributing to the training component for the whole project duration (2013-2017).	JRC.H.5 Marco CLERICI	9.2.2.b	DEVCO	DEVCO	JAMBOU Michel (DEVCO)		ARC - AGRHYMET Regional Centre (ARC) CICOS - Commission Internationale du bassin Congo-Oubangui-Sangha - Inernational Commission of Congo-Oubangui-Sangha river basins EEAS - European External Action Service ICPAC (IGAD) - Climate Prediction and Application Centre	04/02/2013 03/02/2017	2-Information systems & services (45%) 5-Monitoring, verification and surveillance (40%) 9-Education & training (15%)			COM-AA	3	On-the-job Training on eStation 2.0	The project beneficiaries at Regional levels (RICs) will benefit from a specific training on the use and customization of the eStation System, which will be organized at JRC for a period of 6 weeks.	31/12/2015	Training
																												4	Final version of eStation 2.0	This system is an Earth Observation processing server that JRC has to deliver to the MESA Project; the release 2.0 will be prepared by 2014, but the development will continue along the project duration, taking into account technological evolution and Users' needs.	31/12/2016	Technical systems
242 - PACSBIO Programa de Apoyo a la Conservacion Sostenible de la Biodiversidad (Bolivia)	In the frame of a Sector Budget Program Support to Bolivia, and building on the achievements of the Digital Observatory of Protected Areas (DOPA), the JRC, upon request of the EU Delegation in Bolivia, will support Bolivian National services in the establishment of a Bolivian Observatory of Protected Areas.	JRC.H.5 Paolo ROGGERI	9.2.2.b	DEVCO	DEVCO	Francisco Garcia Garcia (EU Delegation Bolivia) - Enrico Pironio and Lara Paoletti (DEVCO)	ENV	EEAS - European External Action Service	09/01/2013 08/07/2016	2-Information systems & services (50%) 5-Monitoring, verification and surveillance (30%) 9-Education & training (20%)			COM-AA	3	Observatory of Bolivian Protected Areas Version 2.	Building on the feed-back received from Bolivian authorities and stakeholders on Version 1 (2014), software tools, databases, web services, web clients and information products will be further adapted to the Bolivian context and deployed (in Spanish), integrating a "validation tool" to ensure direct interaction with Protected Areas staff.	31/12/2015	Scientific information systems and databases														
														6	Observatory of Bolivian Protected Areas Final Vers	A final version of the Bolivian Observatory of Protected Areas, integrating field validation tools, will be delivered to Bolivian authorities and will be operational for enhanced biodiversity monitoring in Bolivia.	30/06/2016	Scientific information systems and databases														
503 - ReCaREDD ReCaREDD: Strengthening regional capacities for reporting on mitigation actions of forest sector	The project will contribute to sustainable forest management by enhancing the capacity of existing institutions to report on their mitigation actions in the forest sector (REDD+) and by providing relevant information to policy makers. This project will use the best available knowledge to engage with partner countries to jointly develop forest monitoring techniques and to strengthen national capacities to report on REDD+-challenging activities, such as forest degradation and forest regrowths.	JRC.H.3 Frederic ACHARD	9.2.2.b	DEVCO	DEVCO	Ms Cristiana PASCA PALMER HoU, DEVCO.C.2	CLIMA ECHO ENV	FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)	01/10/2013 30/06/2017	2-Information systems & services (35%) 5-Monitoring, verification and surveillance (35%) 9-Education & training (30%)	968 - CEOFAC Consolidation et Extension de l'Observatoire des Forêts d'Afrique Centrale 1000 - FOROBS Forest Observatory 1004 - FOREM Forest emissions in EU	JRC.H.5		COM-AA	3	Technical support to partner countries in Tropics	Scientific & technical support to enhance capacities of developing countries regarding mapping and monitoring of deforestation & forest degradation, and related carbon emissions and sinks (focusing on 10 countries in Sub Saharan Africa, Southeast Asia and South America)	31/12/2015	Training													
															4	Technical assistance to customer DGs	Provision of technical assistance, independent opinion and/or peer review on projects, activities, studies and assessments produced in the context of REDD+ or FLEG with related organisation of expert meetings or workshops	31/12/2015	Scientific and policy reports													
															5	Information systems - regional forest observatory	Scientific information systems and databases for regional forest observatories in two or three selected regions (e.g. West and Central Africa, Southeast Asia).	31/12/2015	Scientific information systems and databases													
															6	Technical support to partner countries in Tropics	Scientific & technical support to enhance capacities of developing countries regarding mapping and monitoring of deforestation & forest degradation, and related carbon emissions and sinks (focusing on 10 countries in Sub Saharan Africa, Southeast Asia and South America)	31/12/2016	Training													
															7	Technical assistance to customer DGs	Provision of technical assistance, independent opinion and/or peer review on projects, activities, studies and assessments produced in the context of REDD+ or FLEG with related organisation of expert meetings or workshops	31/12/2016	Scientific and policy reports													
968 - CEOFAC Consolidation et Extension de l'Observatoire des Forêts d'Afrique Centrale	The CEOFAC is the European contribution to the setup of the Observatoire des Forêts d'Afrique Centrale (OFAC) that was created to meet COMIFAC's need of a reference observatory in order to better manage Congo Basin forest resources. OFAC is a permanent body which has among other responsibilities to (i) write a periodic report on the state of the forests in Central Africa and (ii) maintain an updated database on monitoring, including geo-spatial monitoring, of Central African Forests.	JRC.H.3 Philippe MAYAUX	9.2.2.b	DEVCO	DEVCO	Michel Jambou	CLIMA ENV	CBFP - Congo Basin Forest Partnership COMIFAC - Commission des Forêts d'Afrique Centrale (COMIFAC) Forest commission of central africa	01/11/2010 30/04/2015	2-Information systems & services (100%)	JRC.H.5		COM-AA	2	Web site of the Observatory	The web site www.observatoire-comifac.net compiles all the relevant information about Central African Forests in deforestation and carbon issues, forest management, forest biodiversity.	30/04/2015	Technical systems														
														1	BASAL: Information System for Cuba	Tool for a physically-based spatially distributed modelling of water management in Cuba (focused on Los Palacios and Guira de Melena test sites). The tool will be applied to optimize water allocation based on quantitative (surface and groundwater) and environmental criteria for different sectors of human activities. Completed hydrological network will be integrated in the model for the generation of hydrological scenarios addressing management.	31/12/2015	Scientific information systems and databases														
1082 - WATER4DEV Water for Growth and Poverty Reduction in the Mekrou Transboundary River Basin	The project will provide scientific and technical support to the EU Development policies in the field of water. It will address the impact of water resources management conservation in partner countries (Africa, Latin America, Asia) also in light of climate change variability. It will develop integrated information systems for water resources management including the assessment of the Nexus Water-Agriculture-Energy-Ecosystems thus contributing to build trust and reinforce regional cooperation	JRC.H.1 Cesar CARMONA MORENO	9.2.2.b	DEVCO	n/a	Paolo Ciccarelli (DEVCO C5) paolo.ciccarelli@ec.europa.eu	ENV RTD	ARC - AGRHYMET Regional Centre (ARC)	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)				INS-RS	1	X-sectoral integration Water & Agriculture Africa	Application of a high resolution multi-objective optimisation tool in the context of GIS based biophysical modeling of water and nutrient requirements in transboundary river basins in Africa. The tool will provide information on irrigation requirements, crop yield, nutrient losses to the environment and organic matter depletion/increase as affected by food production practices.	30/11/2015	Scientific and policy reports													
															2	Scenarios of water balance variability	Development of probabilistic scenarios for near-term climatic conditions for vulnerable regions in the Mekrou river basin, based on a historical analysis of climatic variability (precipitation, temperature and evapotranspiration). This product will be based on the development of the regional frequency maps for precipitation and temperature.	30/11/2015	Scientific and policy reports													
															3	Atlas of Regional Water Conflicts: user interface	Prototype of the user interface of an on-line Atlas of Regional Water Conflicts providing information on management of shared watersheds and groundwater reserves in priority regions of the world. Activities in this context will provide assistance and assessments on technical and scientific matters linked with the EU's Water Diplomacy.	31/12/2015	Scientific information systems and databases													
															4	Enhanced tool: water balance variability assessment	Tool for the assessment of water balance and availability at district and catchment levels for an improved water allocation to different users under a range of scenarios of future demands and climate change. The tool will be made available to local institutions in order to improve planning and management capacity in the Mekrou river basin.	30/06/2016	Scientific information systems and databases													
															5	Assessment of global water resources	Calibrated and validated model for the assessment and scenario analysis of global water resources until 2100. Deliverable contributing to the development of improved decision support tools for global estimations of water resources in face of growing freshwater demands for food production and increasingly uncertain water supplies due to climate change.	30/09/2016	Scientific information systems and databases													
															6	African Water Nexus scenarios	Reports on analyses of future scenarios of water demand and supply in transboundary watersheds in Africa, including assessments of trade-offs between alternative schemes of water allocation across water-using sectors (agriculture, hydropower, human consumption, industry) aiming at ensuring regional cooperation, quality of life, health, socio-economic growth, environmental protection.	31/12/2016	Scientific and policy reports													
															7	On-line Atlas of Regional Water Conflicts	On-line Atlas providing policy makers with information on management of shared watersheds and groundwater reserves in conditions of uncertainty, mapping of uses and abuses of water at national and local scale, and of water-stressed hot spots in selected regions of the world. Contribute to the definition and implementation of the EC development policies by taking into account potential water conflicts in priority regions jointly identified with EEAS and DEVCO.	31/12/2016	Scientific information systems and databases													
															8	Annual Report	Report on the activities carried out during the year and will assess the performance of the project, in correspondence with the expected results and based on the project indicators.	31/01/2015	JRC Technical reports													
1757 - MEKROU Water for Growth and Poverty reduction in the Mekrou Transboundary River Basin	The overall objective is to support Economic Green Growth and Poverty Reduction in African countries (Burkina Faso, Benin and Niger) in order to foster peace and security, and to ensure continued water supply to developing areas. The specific objectives are: 1. Establishment of the long-term planning of the Cooperation Framework on Water for Growth in the Mekrou transboundary basin 2. Development of an Integrated Water Resource Information	JRC.H.1 Cesar CARMONA MORENO	9.2.2.b	DEVCO	DEVCO	Stathis DALAMANGAS		ARC - AGRHYMET Regional Centre (ARC)	01/01/2014 31/12/2017	2-Information systems & services (60%) 7-Scientific, technical & policy consultancy (30%) 9-Education & training (10%)			COM-AA	201501	Annual Report	Report on the activities carried out during the year and will assess the performance of the project, in correspondence with the expected results and based on the project indicators.	31/01/2015	JRC Technical reports														
														201601	Annual Report	Report on the activities carried out during the year and will assess the performance of the project, in correspondence with the expected results and based on the project indicators.	31/01/2016	JRC Technical reports														
														201701	Annual Report	Report on the activities carried out during the year and will assess the performance of the project, in correspondence with the expected results and based on the project indicators.	31/01/2017	JRC Technical reports														
														201702	Final report	A final report highlighting the main outcomes of the project and the main policy recommendations at both national and local levels to ensure the adequate and sustainable application of the support provided by the project.	31/12/2017	JRC Technical reports														

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2143 - PL-ACE WATER 2 Planned:African Center of Excellence Phase 2	Aims at supporting the development of the NEPAD Water African Network of Centres of Excellence in linking research and policy making in the field of transboundary water management. It will enlarge the existing Water Centres of Excellence, currently active in Western and Southern Africa, to Eastern and Central Africa, and facilitate the establishment of a Human Capacity Development Programme addressing junior professional and technician level capacity in the water sector in Africa.	JRC.H.1 Cesar CARMONA MORENO	9.2.2.b	DEVCO	DEVCO	Antoine Sainttraint (DEVCO C5)			01/05/2015 30/10/2019	7-Scientific, technical & policy consultancy (100%)			COM-AA	n/a	n/a	n/a	n/a	n/a
9.2.3 Energy																		
9.2.3.a Provide technical assistance, share best practices and organise workshops to support international, bilateral and regional energy cooperation initiatives, including in the framework of the Covenant of Mayors initiative.																		
261 - CoM South Covenant of Mayors South	The project aims to adapt the European initiative "Covenant of Mayors" (CoM) to the ENPI South Mediterranean Partner Countries (Maghreb and Mashreq regions). The purpose is to provide the ENPI South countries and the project beneficiaries with technical and scientific assistance, analysis and input to support the project implementation, including Sustainable Energy Action Plans guideline and implementation and monitoring guidelines.	JRC.F.7 PAOLO BERTOLDI	9.2.3.a	DEVCO	DEVCO	MAION Caroline (DEVCO)	ENER		18/12/2012 17/11/2015	5-Monitoring, verification and surveillance (100%)	JRC.H.2	163 - CoM West Technical and Scientific Assistance Covenant of Mayors	COM-AA	3	SEAP implementation monitoring	Under this task the monitoring guidelines of the SEAP implementation shall be developed. Then by using these guidelines the monitoring of the SEAP implementation shall be carried out	30/06/2015	Scientific and policy reports
9.2.3.b Map out and monitor activities, develop GIS tools, and take part in capacity building of national scientific institutions and governments in partner countries in the field of renewable energy, including in the framework of the UN Sustainable Energy for All project.																		
1390 - RE-GIS-Africa Exploiting Renewable Energy potential in a changing Africa	The opportunities provided by Renewable energies for the low carbon society will be assessed by means of geographical analysis (GIS) and technological insights. The availability and exploitability of raw resources for renewable energy production is assessed for the African continent with a view to changing boundary conditions (e.g., technology progress, climatic changes, etc.). Knowledge will be shared with key African research partners keeping alive the network built in the former RENAF project	JRC.F.7 Fabio MONFORTI-FERRARIO	9.2.3.b	DEVCO	n/a	Felice Zaccheo (DEVCO C.5)	ENER RTD	ECOWAS - Economic Community Of West African States ECREEE - ECOWAS centre for renewable energy and energy efficiency IEA - International Energy Agency IRENA - International Renewable energy Agency	01/01/2014 31/12/2016	2-Information systems & services (65%) 7-Scientific, technical & policy consultancy (35%)		706 - RE-GIS Exploiting Renewable Energy potential in a changing world. 749 - PVRES PV Resources, Innovation and Market Integration 755 - RE-PORT Monitoring Actual and Foreseeable Renewable Energy Deployment	INS-RS	2	RE assessment in Africa - update	Continuous update of geographical information layers of availability of renewable energy resources in Africa by means of data mining, collection, harmonization .	31/12/2015	Scientific information systems and databases
														3	RE assessment in Africa - update	Continuous update of geographical information layers of availability of renewable energy resources in Africa by means of data mining, collection, harmonization .	31/12/2016	Scientific information systems and databases
														4	The near future availability of PV	Climate change models will be employed to assess the future availability of PV energy in Europe and Africa. The deliverable is in common with RE-GIS-Europe project	31/07/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														5	Waste to Energy in Africa	Potential energy from waste in Africa will be assessed on the basis of updated statistics on waste production, collection and management practices.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														6	RE2nAF - case studies of application	The RE2NAF tool, developed in the AFRETEP project, will be applied for assessing and suggesting improvements to the Rural Electrification Master Plans of at least three African countries, ideally distribute between West, East and South sub-regions, in agreement and following the research agreement with ECREEE	31/12/2015	Scientific and policy reports
														7	RE2nAF - update and extension	The RE2NAF tool, developed in the AFRETEP project, will be updated in order to include other possible RE resources that could play a major role in rural electrification like e.g., mini-hydro.	31/07/2015	Scientific information systems and databases
														8	PV and the hydro dam integration	A study on RE opportunities provided by the integration of PV panels on energy and agricultural dams in Africa will be produced, starting from South African situation.	31/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														9	Support to IRENA global atlas	New data layers will be provided to IRENA for integrating their collection of maps on Renewable energy resources. The peculiar expertise on Africa and the relevant amount of data collected makes JRC a key data provider for the initiative and its contribution is expected to extend to other resources not accounted so far, such as bioenergy in its different forms.	30/06/2016	JRC Technical reports
9.2.4 Humanitarian-, development- and cooperation horizontal policies																		
9.2.4.a Develop methodologies, indicators and ICT tools, and carry out macro-economic analyses of development issues to support the Agenda for Change, the Policy coherence for development project, and development and humanitarian aid effectiveness and transparency, with a focus on measuring the impact of EU aid and cooperation on eradicating poverty.																		
292 - TR-AID Aid Fragmentation and Effectiveness	TR-AID focuses on developing new methods for measuring the fragmentation and effectiveness of external aid. The project studies the relationships between external aid, donors & socio-economic indicators such as development & economic growth. The methods will be implemented in tools & functionalities accessible through the Commission's external aid database and tool, EAE. The project is also developing EAE into a fully multi-lingual tool to serve the MS and inform the European citizen.	JRC.G.2 Anjula GARG	9.2.4.a	DEVCO	n/a	Ellen Kelly	ECHO OLAF	EEAS - European External Action Service Tech Serv - Member States and their Technical Services/type approval authorities	01/01/2014 31/12/2016	2-Information systems & services (60%) 5-Monitoring, verification and surveillance (40%)			INS-RS	2	EAE (Improved Search Functionality)	The Search functionality of the EAE is improved through allowing the ordering of search results and the use of wildcards while searching for projects funded by donors.	30/03/2015	Technical systems
														3	EAE for public users in the Member States	Facilitate the use of EAE by providing the tool in all languages of the EU	31/07/2015	Technical systems
														4	Aid Effectiveness	Integrate in TR-AID other aid related information such as the Human Development Index, the Gross National Income and other related information, with the currently available information on projects funded by Development and Humanitarian Aid.	28/04/2016	Technical systems
														6	Aid Fragmentation tool	Results of deliverable 1 are implemented as a tool and enhanced with new data.	30/09/2015	Technical systems
														7	EAE database optimisation	Optimise the efficiency and speed of the search results of the European Aid Explorer (EAE) through addressing the table space setup and configuration of the EAE's underlying database and SQL queries.	30/10/2015	Technical systems
1857 - DRAFT EAE ECHO 2015 DRAFT EAE ECHO 2015	TR-AID is a web-based system developed to facilitate sharing of aid data amongst major donors in the world. ECHO would like the further development of TR-AID for additional functionality of the analysis and visual capabilities of TR-AID. Part of a project currently being financed also by DG DEVCO.	JRC.G.2 Anjula GARG	9.2.4.a	ECHO	ECHO	PANIGALLI Marco	DEVCO FPI NEAR		02/12/2014 01/12/2015	2-Information systems & services (70%) 5-Monitoring, verification and surveillance (30%)			COM-AA	1	Management progress report	Provide a mid-term progress report on all the tasks agreed with ECHO.	30/06/2015	Scientific and policy reports
														2	Final report	Provide a detailed final report for all the tasks	30/11/2015	Scientific and policy reports
1858 - DRAFT EAE DEVCO 2014 DRAFT EAE DEVCO 2014	EU Aid Explorer is the web-based system developed by JRC to facilitate sharing of aid data amongst major donors in the world and to enhance the visibility of the EU's commitment to aid transparency and accountability. Through this project, JRC will further develop the EU Aid Explorer to support sharing of aid information amongst its stakeholders. This is a follow up to AA JYPSY ref. 33529	JRC.G.2 Anjula GARG	9.2.4.a	DEVCO	DEVCO	Chantal Marijnissen (Acting HoU), and Ellen Kelly, DEVCO.A.2	ECHO FPI NEAR		01/10/2014 30/09/2015	2-Information systems & services (80%) 5-Monitoring, verification and surveillance (20%)			COM-AA	1	Management progress report	Provide a mid-term progress report on all the tasks agreed with DEVCO	31/03/2015	Scientific and policy reports
														2	Final report	Provide a detailed final report for all the tasks carried out for DEVCO	30/09/2015	Scientific and policy reports
2061 - DRAFT EAE DEVCO 2015 DRAFT EAE DEVCO 2015	EU Aid Explorer is the web-based system developed by JRC to facilitate sharing of aid data amongst major donors in the world and to enhance the visibility of the EU's commitment to aid transparency and accountability. Through this project, JRC will further develop the EU Aid Explorer to support sharing of aid information amongst its stakeholders. This is a follow up to AA project id 1858	JRC.G.2 Anjula GARG	9.2.4.a	DEVCO	DEVCO	H. Kelly	ECHO		01/09/2015 30/08/2016	2-Information systems & services (70%) 5-Monitoring, verification and surveillance (30%)			COM-AA	1	Management progress report	Provide a mid-term progress report on all the tasks agreed with DEVCO	31/03/2016	Scientific and policy reports
														2	Final report	Provide a detailed final report for all the tasks carried out for DEVCO.	31/08/2016	Scientific and policy reports
2062 - DRAFT EAE ECHO 2016 DRAFT EAE ECHO 2016	TR-AID is a web-based system developed to facilitate sharing of aid data amongst major donors in the world. ECHO would like the further development of TR-AID for additional functionality of the analysis and visual capabilities of TR-AID. Part of a project currently being financed also by DG DEVCO.	JRC.G.2 Anjula GARG	9.2.4.a	ECHO	ECHO	add contact	DEVCO		02/12/2015 01/12/2016	2-Information systems & services (70%) 5-Monitoring, verification and surveillance (30%)			COM-AA	1	Management progress report	Provide a mid-term progress report on all the tasks agreed with ECHO	30/06/2016	Scientific and policy reports
														2	Final report	Provide a detailed final report for all the tasks carried out for ECHO.	01/12/2016	Scientific and policy reports
2290 - FOODSEC 2030+ Food security policy platform	One of the main outcomes of the foresight on Global Food Security was a shared need to establish a platform to discuss and develop amongst DGs coherent policies around a complex and multifaceted matter such as food security. The project aims to launch and establish such platform where relevant DGs (DEVCO, AGRI, ENV, TRADE) will interact to establish priorities in the frame of global food security.	JRC.DDG.02 ALBINO MAGGIO	9.2.4.a	DEVCO	n/a	Maria KETTING (DEVCO C1)	AGRI ENV TRADE		26/01/2015 18/12/2015	1-Foresight studies & techniques (100%)			INS-RS	1	Food security policy coherence for the future	The report will provide a cross analysis of future policies in the field of food security	30/06/2015	Scientific and policy reports
														2	Food security policy: operational approach	The report will provide operational frame to develop food security policies for the coming years	30/12/2015	Scientific and policy reports

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9.3 Enlargement and Neighbourhood Policy																		
9.3.a Provide support to countries on the road towards EU membership, new Member States, candidate countries and countries associated with the framework programme, specifically																		
935 - E&I NETWORK FOSTERING ENLARGEMENT AND INTEGRATION THROUGH PARTICIPATION AND NETWORKING	The overall objective of the project is to facilitate the EU enlargement process and in particular to provide scientific support to the transfer of the EU legal framework (acquis communautaire) to national legislation of acceding countries, candidate and potential candidate countries, new Member States and framework programme Associated Countries. This objective is carried out through the organisation of several events, namely study visits of JRC's Institutes, workshops, seminars, info days and	JRC.A.5 LUCIANA ZANIER	9.3.a	NEAR	n/a	Petra SCHLUETER (ELARG.D.3.002)			01/01/2014 31/12/2016	5-Monitoring, verification and surveillance (100%)			INS-RS	4	Study visit of JRC Institutes 2015	The study visit will be organised for a group of representatives of the target countries. These representatives will be "selected" by the NCPs. The programme of the visit will be defined on the base of the priority areas and manifestation of interest expressed by the Countries through the NCPs.	30/11/2015	Training
														5	Workshop/Seminar 2015	The workshop will be organised in one of the target countries and will have a regional dimension. The main subject of the workshop seminar will be define in close cooperation with the hosting country and on the base of the priority areas identified by the National Legislations and discussed with the NCPs	30/11/2015	Training
														6	NCPs Meeting 2015	An annual meeting with the NCPs will be organised in order to discuss the on-going cooperation, including the participation in the JRC Enlargement and Integration Action and to set up the countries priorities for the following year. The meeting will take place in Brussels	30/11/2015	JRC contributions to policy documents
														7	Study visit of JRC Institutes 2016	The study visit will be organised for a group of representatives of the target countries. These representatives will be "selected" by the NCPs. The programme of the visit will be defined on the base of the priority areas and manifestation of interest expressed by the Countries through the NCPs.	30/11/2016	Training
														8	Workshop/Seminar 2016	The workshop will be organised in one of the target countries and will have a regional dimension. The main subject of the workshop seminar will be define in close cooperation with the hosting country and on the base of the priority areas identified by the National Legislations and discussed with the NCPs	30/11/2016	Training
														9	NCPs Meeting 2016	An annual meeting with the NCPs will be organised in order to discuss the on-going cooperation, including the participation in the JRC Enlargement and Integration Action and to set up the countries priorities for the following year. The meeting will take place in Brussels	30/11/2016	JRC contributions to policy documents
10 A Union of Democratic Change																		
10.a A Union of Democratic Change																		
11 Cross Cutting Activities																		
11.a Cross Cutting Activities																		
438 - MMA Media Monitoring and Analysis for Policy Support	Advance & maintain multi-lingual data harvesting & analysis components of JRC European Media Monitor-EMM, to provide timely & relevant information on open source news & publications in support to EU policy, incl. Innovation Union, JRC projects on 'Citizen & Science' and 'R&I Observatory'. MMA Develops new delivery platforms & tools, incl. visualisation techniques to disseminate high-level information analysis. MMA also performs computational linguistic research to develop new analysis products	JRC.G.2 Erik VAN DER GOOT	11.a	JRC	n/a	V. Sucha JRC DDG and Jocelyn Gaudin A. HoU A.2, Letizia DG COMM	CNECT COMM DGT EAC RTD	Council EU - Council of the European Union EEAS - European External Action Service EP - European Parliament	01/01/2014 31/12/2016	2-Information systems & services (100%)	JRC.A.2		INS-RS	43820151	OS Monitor for R&I Observatory II	Operational Open Source (OS) monitoring system to support the Research and Innovation Observatory. This system is a customised version of the more general OS monitoring system EMM to support implementation of the R&I policy. It particularly supports JRC key orientation 2.1.2b 'Development of a R&I observatory...'	30/11/2015	Technical systems
														43820152	EMM Release I	Provide a new release of Europe Media Monitor (EMM). This includes extended real time translation support scientific result and operation/maintenance related updates.	30/11/2015	Technical systems
														43820153	Tracking news through time	A paper describing a method linking news stories across time. The paper will describe which features of a news story can be used to detect similarity over time and will outline a system that makes exploration of these links feasible.	01/12/2015	Article contribution to other peer-reviewed periodicals
														43820154	Extended translation support for EMM	Extend the number and quality of languages for which on-line real time translations can be generated in the Open Source processing and analysis chain. Particular focus will be on the languages bordering the EU, Russian, Arabic and Turkish.	01/11/2015	Technical systems
														43820161	OS Monitor for R&I Observatory III	Operational Open Source (OS) monitoring system to support the Research and Innovation Observatory. This system is a customised version of the more general OS monitoring system EMM to support implementation of the R&I policy. It particularly supports JRC key orientation 2.1.2b 'Development of a R&I observatory...'	30/11/2016	Technical systems
														43820162	EMM Release II	Provide a new release of Europe Media Monitor (EMM). This includes improved entity recognition, especially for highly inflected languages as well as operation/maintenance related updates.	30/11/2016	Technical systems
														43820163	Entity Recognition for Highly Inflected Languages	The paper will describe advances made by the JRC in the field of entity recognition for highly inflected languages.	01/09/2016	Article contribution to other peer-reviewed periodicals
														438201505	FEDRA	Media Analysis system, FEDRA, to detect trends in media reporting on financial markets and financial institutions. The project attempts to provide sentiment analysis of news regarding these Financial institutions. The annotated data is then used for further modelling in order to gain insight into the sentiment trends towards the financial markets in general and specific institutions in particular. This is carried out in cooperation with JRC.G.01 Unit.	30/06/2015	Technical systems
438201506	Learning user preferences for article ranking	Develop a prototype machine learning ranking system in order to improve the presentation of articles to a user within the context of NewsDesk. By tracking the selection of articles when building information products the system will attempt to 'guess' the user preferences for articles within a given pre-categorised set of articles. The system will be based on proven machine learning techniques for this type of activity, Bayesian network or Conditional Random Fields	01/09/2015	JRC Technical reports														
1030 - COIN International Audits on Composite Indicators - External collaborations	Research, training and external audits in support of international organisations related to the development and quality control of composite indicators	JRC.DDG.01 Michaela SAISANA	11.a	JRC	n/a	Saisana Michaela	EAC JUST NEAR	ECB - European Central Bank INSEAD - Institut européen d'administration des affaires UNDP - United Nations Development Programme	01/01/2014 31/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)	1022 - COIN_REGIO Regional Human Development 1024 - COIN_SANCO Consumer Conditions and Markets		INS-UR	103007	JRC Annual Training on Composite Indicators	Organizing and lecturing at the 13th JRC Annual Training on Composite Indicators and Multi-criteria analysis	30/11/2015	Training
														103008	Global Innovation Index 2015	JRC report on the Validation of the Global Innovation Index 2015 (collaboration with the INSEAD and WIPO).	30/09/2015	JRC Technical reports
														103009	WJP Rule of Law Index 2015	JRC report on the Statistical analysis and modelling of the Rule of Law Index 2015 (collaboration with the World Justice Project).	30/10/2015	JRC Technical reports
														103010	Methodological Advances on composite Indicators	One peer-reviewed paper on methodological advances on composite indicators,	30/11/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														103011	Development & validation of a Cultural City Index	Under request of the DG, the JRC will work on the construction of a composite indicator to measure the performance of cities with respect to cultural and creative power. The European Capital of Culture programme will be the starting point for data exploration. The aim of the index will be the identification of creative/smart cities as well as observing changes in the ranking over time.	30/10/2015	JRC Technical reports
														103013	JRC Annual Training on Composite Indicators	Organizing and lecturing at the 14th JRC Annual Training on Composite Indicators and Multi-criteria analysis	30/11/2016	Training
														103014	Methodological Advances on Composite Indicators	One peer-reviewed paper on methodological advances on composite indicators.	30/11/2016	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														103015	Auditing an existing Composite Indicator	Under request of the DG's ("support to DG's"), an auditing of an existing composite indicator - developed by the EC service - will be carried out.	31/10/2016	JRC Technical reports

JRC WORK PROGRAMME 2015 - 2016

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Project ID, Acronym and Title	Project Description	Owner Unit / Project Contact	JRC KO	Main Pol. DG	Funding DG	DGs' Contact	Add. Pol. DG	External Beneficiaries	Start / End	Project activity type	Collab. Units	Linked Projects	Funding Type	Del. Id	Title	Description	Expect. Rel. Date	Category
1055 - SAIA Sensitivity Auditing for Impact Assessment	The project builds upon JRC experience in sensitivity analysis to propose sensitivity auditing, an approach whereby model quality is gauged in relation to model use. The project has the ambition to further improve the quality of the European Commission's regulatory activity and Impact Assessment System.	JRC.DDG.01 Daniel ALBRECHT	11.a	SG	n/a	BJORKLUND Mona	JRC REGIO		01/01/2014 30/12/2016	8-Socio-economic & scientific modelling, scenarios and statistical analysis (100%)			INS-RS	10	TN 2015	Ad-hoc report(s) prepared at the request of SecGen	15/12/2015	Scientific and policy reports
														11	Training_2015_IA_SA2	Ad-hoc trainings on Impact Assessment, sensitivity analysis and sensitivity auditing specifically requested by DGs.	15/12/2015	Training
														12	S_AUD_Research_2015	Research in the field of Sensitivity auditing is carried out and findings are published. Sensitivity Auditing methods are tested and their efficacy is evaluated.	15/12/2015	Article contribution to a peer-reviewed periodical listed in the ISI Science Citation Index Expanded and/or Social Science Citation Index
														13	S_AUD_Seminars_2015	Seminar(s) on Sensitivity Auditing methodologies is (are) organized to transmit knowledge to JRC staff and client DGs. It complements sensitivity analysis techniques and contributes to good practice in the making of impact assessments. Strategy of research in Sensitivity Auditing is discussed. Concrete results are presented, scrutinized, criticized and evaluated.	15/12/2015	Training
														20	TN 2016	Ad-hoc report(s) prepared at the request of SecGen	15/12/2016	Scientific and policy reports
														21	Training_2016_IA_SA2	Ad-hoc training on Impact Assessment, sensitivity analysis and sensitivity auditing specifically requested by DGs.	15/12/2016	Training
														22	S_AUD_Seminars_2016	Seminar(s) on Sensitivity Auditing methodologies is (are) organized to transmit knowledge to JRC staff and client DGs. It complements sensitivity analysis techniques and contributes to good practice in the making of impact assessments. Strategy of research in Sensitivity Auditing is discussed. Concrete results are presented, scrutinized, criticized and evaluated.	15/12/2016	Training
													23	Sensitivity Analysis Summer School 2016	The SAIA project supports the European Commission in analyzing the technical robustness and soundness of policy impact assessments by means of sensitivity analysis techniques and sensitivity auditing methodologies. Dissemination of sensitivity analysis techniques to JRC staff and external audience contributes to good practice in the making of impact assessments. JRC will organize its 9th Summer school on Sensitivity Analysis of Model Output in 2016.	15/08/2016	Training	
1842 - EMM SERVICES 2014 EMM SERVICES 2014	Enhancements and support for the DG-COMM Media Monitoring platform on request of EC DG Communication (DG COMM)	JRC.G.2 Erik VAN DER GOOT	11.a	COMM	COMM	Directorate A/A.3			02/07/2014 01/07/2015	2-Information systems & services (100%)			COM-AA	1	Management Reporting on AA Progress	Provide final report to DG COMM to support management of joint AA	01/07/2015	Scientific and policy reports
1843 - D-EMM SERVICES 2015 DRAFT EMM SERVICES 2015	Enhancements and support for the DG-COMM Media Monitoring platform on request of EC DG Communication (DG COMM)	JRC.G.2 Erik VAN DER GOOT	11.a	COMM	COMM	Directorate A/unit. A3			14/06/2015 13/06/2016	2-Information systems & services (90%) 7-Scientific, technical & policy consultancy (10%)			COM-AA	1	Management Reporting on AA Progress	Provide final report to DG COMM to support management of joint AA	13/06/2016	Scientific and policy reports
1846 - DRAFT MOSES 2015 DRAFT MOSES 2015	This is a follow-up to MOSES 2015. Further development and customisation of a Media Monitoring system for the Council General Secretariate	JRC.G.2 Erik VAN DER GOOT	11.a	COMM	n/a	Council is funding this AA			01/01/2015 31/12/2015	2-Information systems & services (100%)			COM-AA	1	DRAFT MOSES 2015	Maintain and improve the MOSES media monitoring and analysis platform. Apply system enhancements	16/12/2015	Technical systems
1847 - EPMM 2014 European Parliament Media Monitor	Further Development and customisation of the Media Monitoring platform for the European Parliament, EPMM, on request of the EP DG Communication unit.	JRC.G.2 Marco VERILE	11.a	COMM	n/a	EP is funding this AA			29/04/2014 28/04/2015	2-Information systems & services (100%)			COM-AA	1	Management Reporting on AA Progress	Provide final report to EP DG-COMM to support management of joint AA	28/04/2015	Scientific and policy reports
1848 - DRAFT EPMM 2015 DRAFT EPMM 2015	Further Development and customisation of the Media Monitoring platform for the European Parliament, EPMM, on request of the EP DG Communication unit.	JRC.G.2 Marco VERILE	11.a	COMM	n/a	EP is fundig body			29/04/2015 28/04/2016	2-Information systems & services (100%)			COM-AA	1	Management Reporting on AA Progress	Provide final report to EP DG-COMM to support management of joint AA	28/04/2016	Scientific and policy reports
2303 - MIDAS Model Inventory and Access Service	The project maintains and further develops the MIDAS platform that allows users to find models (in use in JRC and in the Commission) for specific policy purposes. The platform facilitates also access to related entities like data, related models, impact assessment reports and publications and provides advanced visualization tools to analyse complex relationships and perform data mining. The project contributes to the mutualisation of knowledge and supports impact assessment studies for policies.	JRC.H.6 Nicole OSTLAENDER	11.a	SG	n/a	Mona BJORKLUND (SG.C2)	AGRI CLIMA CNECT ECFIN ENER ENV MOVE REGIO		01/01/2015 31/12/2016	2-Information systems & services (60%) 7-Scientific, technical & policy consultancy (20%) 8-Socio-economic & scientific modelling, scenarios and statistical analysis (20%)		1007 - LUISA Application of the LUISA Modelling Platform to Regional Policies and Territorial Cohesion	INS-RS	201501	Availability of MIDAS to other Commission Services	This deliverable consists of a package of training activities and training material related to the extension of MIDAS to the other Commission Services. In particular it will include the MIDAS governance structure and life cycle management practices, as well as dedicated user workshops, training sessions and online training material.	31/07/2015	Training
														201502	Support to the EC Impact Assessment Working Group	Report on the results of a feasibility study to be undertaken in collaboration with the EC Impact Assessment Working Group in order to assess how MIDAS and LUISA can be extended to support EC Impact Assessment (e.g. as a part of the Impact Assessment toolbox). The report will be done in collaboration with the LUISA project.	31/07/2015	JRC Technical reports
														201503	Updated Operations and Development of MIDAS	Updated Operations and development of the Model Inventory & Database Access Services (MIDAS) version 4.x, in which MIDAS will provide access to descriptions of models and related data provided by the entire Commission in support to impact assessments and other policies.	31/12/2015	Scientific information systems and databases
														201504	Access to referred data for policy making	A pilot demonstrating how data in support of policy making (e.g. data provided in support of impact assessments such as the LUISA baseline scenario) can be stored and accessed through MIDAS. The pilot will cover a data snapshot archive: an archive for the preservation of data that were used as specific contributions to policy making.	31/12/2015	Scientific information systems and databases
														201601	Updated Operations and Development of MIDAS	Updated Operations and development of the Model Inventory & Database Access Services (MIDAS) version 5.x, in which MIDAS will implement selected outcomes of the pilot study on access to referred data and of the feasibility study of MIDAS functionality in support to EC Impact Assessment..	31/12/2016	Scientific information systems and databases