

PARTNERSHIPS FOR RESEARCH AND INNOVATION: THE CREATION OF WORK PROGRAMMES 2018-2020 AND HOW WE CAN INFLUENCE

***DR. MARINA MARTÍNEZ-GARCIA
SOST-CDTI, SPANISH OFFICE FOR SCIENCE AND TECHNOLOGY IN
BRUSSELS***

SOST

SOST-CDTI, Spanish Office for Science & Technology



SOST today...

- ❑ 20 years-old, SOST is the branch of the **National Funding Agency** for Industrial R&D in Spain, CDTI – Ministry of Economy & Innovation.
- ❑ SOST provides support on R&D&Innovation programmes to the Spanish participants → **Technology & Scientific advice**, information on **funding opportunities**, logistics in Brussels, **lobby** with EC and other EU stakeholders, **capacity building** programmes for private and public actors willing to participate in EU R&D programmes → Our customers are companies, universities, technology centers, clusters...
- ❑ Orientation on **legal & financial issues** of H2020 (participation rules, grants & consortium agreements, IPR,...).
- ❑ Link with the Spanish **regional agencies** on R&D&Innovation.
- ❑ Not only **H2020**, but also other synergic programmes...

SOST-CDTI, Spanish Office for Science & Technology

Quien?	A que se dedica?
Andrés Martínez Estevez andres.martinez@sost.be 00 32 2 289 2696	<ul style="list-style-type: none"> • Temas legales y financieros, • Energía y Salud, • Cooperación Internacional, • Coordinación
Marina Martínez Garcia marina.cdti@sost.be 00 32 2 289 2568	<ul style="list-style-type: none"> • Programa especializacion gestores, • Espacio, • Seguridad, • Transporte, • KBBE & ENV
Virginia Esteban Llorente infodesk@sost.be 00 32 2 289 2695	<ul style="list-style-type: none"> • Administración general, administration, • Comunicación, • Contabilidad, • Logistica
Vladimir Cid Bourié vladimir.cid@cdti.es 00 32 2 289 2698	<ul style="list-style-type: none"> • Apoyo en temas de NMP, TIC y Aeronautica, • Apoyo en temas de Cooperacion Internacional, • Apoyo en temas de Comunicación



Training specialists in the International R&D and innovation area

- ❑ **WHAT** → **Capacity building & Specialisation stage in Brussels** (2 months at SOST-CDTI Office) → Concourse aimed at experienced/senior staff of entities with special interest/role in H2020.

- ❑ **WHO** → **We are looking for:**
 - ✓ Professionals with proven **experience** in EU R&D and innovation projects (FP7 & H2020);
 - ✓ More « **Promotor** » than administrative managers;
 - ✓ Preferably, with certain executive capacity inside the organisation → Major impact at his/her return...

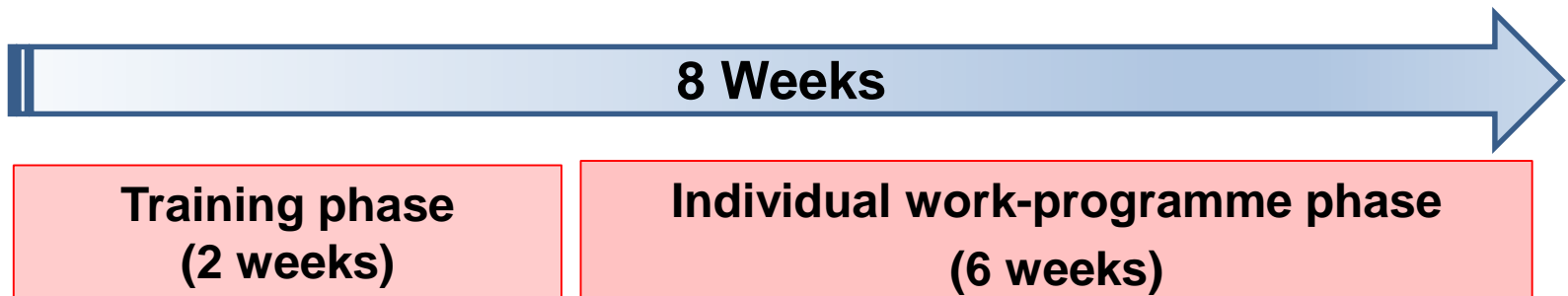
Developing skills for more **influence & visibility** of their organisation!



More than **400 applicants** in **20 editions** since 2009 → About **120 promotors** awarded!

Each edition awards **6 entities with a travel award of 5.000 € / pp to stay in the SOST-CDTI office in BRU during 2 months.**

- ✓ **3 Editions / year** → Feb-Mar; May-Jun; Oct-Nov
- ✓ Stages of **8 weeks** (= 2 months)
- ✓ Collaboration agreement signed by the beneficiary entity with CDTI.



The « SOST effect »...

- ❑ Very positive experience from all the managers → **Improving the participation** in almost 70% of the beneficiaries and relevance of actions (jump to lead in the 20% de los beneficiaries).
- ❑ The 64% of the beneficiaries has **improved their success rate**.
- ❑ More than 70% of new commmers or well other **Spanish actors involved**.
- ❑ **Atraction of SMEs** to the programme → About the 15% are SMEs in H2020
- ❑ Improvement of the strategy, networking and visibility of teh organisations → EU becomes an important aspect of the **strategy of the entity !**
- ❑ **Human value** → High qualified professional profiles, networking, friendship & further collaboration...

[RECURSOS]

Experiencia de un gestor participante en el programa de especialización CDTI/SOST

El Programa de Especialización de Gestores es una de las principales actividades de apoyo a la participación de entidades españolas (públicas y privadas) en Horizonte 2020 (H2020). Iniciado a mitad del VII Programa Marco (2009), la actividad se desarrolla en las instalaciones de la delegación del CDTI en Bruselas, la Oficina Española de Ciencia y Tecnología (Spanish Office for Science and Technology), SOST.

El objetivo del programa es triple. Por una parte, consolidar la participación, el posicionamiento y liderazgo de entidades españolas en H2020 e iniciativas paralelas. Por otra, la especialización de la gestión, de la búsqueda de oportunidades y del conocimiento del entorno europeo. Y, finalmente, se pretende facilitar la interlocución y el diálogo con los actores más relevantes en I+D+i, así como con la Comisión Europea (CE) y con otros organismos relacionados.

A lo largo de H2020 se prevén tres ediciones anuales del Programa de Especialización de Gestores de la oficina CDTI-SOST: dos durante el primer semestre y una tercera en otoño. Cada edición beca a 6 gestores para su estancia en Bruselas durante dos meses, incluyendo una fase lectiva y un período de desarrollo de un plan de trabajo estratégico individual de cada entidad.

Durante el período lectivo el gestor asiste a una serie de presentaciones por parte del personal de CDTI, de la CE y de agencias ejecutivas y de los principales actores y promotores de iniciativas relevantes en temas de I+D+i a nivel europeo. Durante el periodo de trabajo individual, el gestor está siempre tutelado y orientado por el personal técnico de la SOST.

El gestor dispone, durante toda la estancia, de un espacio de trabajo propio para garantizar la continuidad del contacto y trabajo con su entidad en España.

A continuación, Víctor Sánchez, gestor de ISOIN



Victor Sánchez, gestor de ISOIN

totalmente diferente sobre cómo plantear nuestra aproximación a los programas europeos de I+D+i. Por ejemplo, ahora somos mucho más conscientes de la importancia y necesidad de desarrollar todo un trabajo, llamémosle de "investigación", antes de presentar una propuesta. Se trata de interactuar y establecer un diálogo tanto con los representantes y los puntos nacionales de contacto en CDTI como con los officers de la Comisión y de recabar información a partir de otros actores europeos relevantes del entorno. Este trabajo de planificación estratégica es tan importante como la escritura de la propuesta en sí.

Querría destacar que la estancia en la oficina SOST ha supuesto un aprendizaje profesional excepcional. He aprendido mucho tanto de los otros compañeros gestores como del personal de la oficina.

A mi vuelta, todo este aprendizaje ha tenido un impacto directo sobre el equipo del cual soy responsable. Hemos organizado talleres y reuniones, aceptación muy positiva por parte de mis compañeros. He recibido (de manera informal) información de buenas prácticas relacionadas con este último punto, creo que la elección del gestor candidato es crucial. En mi opinión, debe ser personal consolidado, con una cierta experiencia y posición dentro de la entidad que le permita trasladar la información y promover una estrategia de equipo acorde con las conclusiones tras su paso por SOST.

“La estancia en la oficina SOST ha supuesto un aprendizaje profesional excepcional.”

ISOIN, gestor beneficiario de este Programa, nos relata su testimonio sobre la experiencia y el impacto de su estancia en la oficina SOST para su entidad:

¿Qué ha supuesto para ti la experiencia de Especialización de Gestores de la Oficina SOST de CDTI en Bruselas?

Me ha dado a mi empresa una visión

4 perspectiva CDTI

Review on the impact after 5 years!!!

Participating in Europe...

Why to partipate in EU projects?

Participating in a project on **applied research and innovation** (specially in H2020) may be the result of:

- ❑ Detecting a need or problem to solve, envisioning a market opportunity at medium-term and whilling to be competitive. → **Improving** your product/servicie **through the R&D** or creating a **new innovative one**.
- ❑ Aiming to stablsh links with the main stakeholders and actors in our sector at EU level. → Enlarging our **networking**, sharing resources and knowledge.



[...]

Why to participate in EU projects?

However, sometimes the private sector may

1. Need very short-term to reach to that market **niche** → **Urgency**
2. Have **exclusivity** of that product or service resulting from R&D and innovation...

... In those cases, the best tool is NOT an EU project but a **Financial Instrument**, i.e. loans for innovation...

ATTENTION: This may change with the two new schemes **SMEs Instrument** and **FTI Pilot**...



Why to participate in EU projects?

For both private or public actor, participating in **collaborative EU projects** (specially in H2020) may be the result of:

1. Having the **in-house capacity** for carrying out your tasks (critical mass, team of expert people, etc...) → H2020 evaluates the operational capacity of each partner in the consortium.
2. **Having a vision** on what to do with the results. → H2020 pays special attention to the **impact, transfer of results to market**, etc...

Thus, participating in a collaborative H2020 projects must be an **strategic decision of your organisation**. → Time & resources consuming.

Keys for participating in H2020...

❑ Anticipation

❑ Having/designing an **strategy** at short-medium-long term

❑ **Networking** at european/international level



Keys for participating in H2020..

Tools of support at different levels:

- ❑ **National / Regional** → National representatives & NCPs... but also **national associations** and networks, clusters.
- ❑ **European** → European organisations (EC, Agencies,...); **Organisations based in Brussels**; EU sectorial Technology Platforms and associations.



Your link in Brussels with the EU environment!

H2020 and the European context...

H2020 is ...

...The main EU programme on R&D&Innovation for the period 2014-2020... **but not the only one connected with research!**



☐ Spreading excellence

☐ Science for & with Society

... but also is an step forward

H2020 supposes some changes / improvements regarding FP7:

- ❑ Single **participation rules**, more simple and coherent → **Mid-term review in progress!**
- ❑ Only two **funding intensities** and a single “flat rate” for **indirect costs**
- ❑ New instruments thinking in the private sector → SMEs, FTI...
- ❑ Shorter time-to-grant (**5 months + 3 months from the deadline**) → No more negotiations...

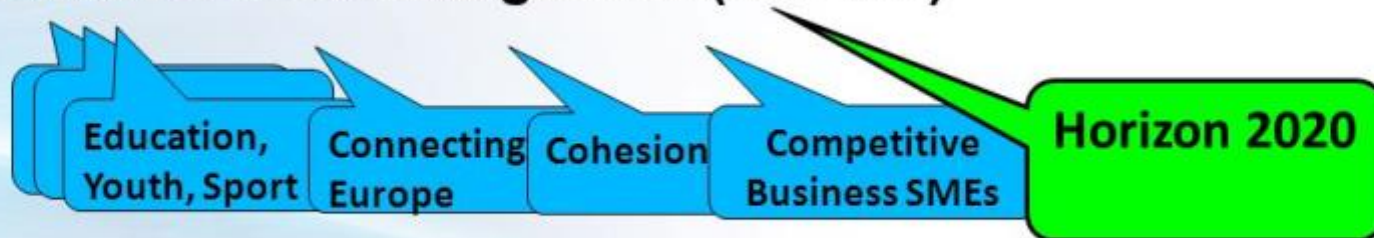


Some important aspects in the H2020 projects

- ❑ The R&D&Innovation chain goes from basic research, technology development, demonstration and piloting close to market. → Importance of **transferring the results!**
- ❑ Projects are the **response to problems** → Bring together resources & Knowledge across fields, technologies & disciplines (**multi-actor & cross-sector**).
- ❑ **Employment** of researchers & promoting **entrepreneurship**.
- ❑ More coordination (and synergies) with **Structural Funds (RIS3)**.

Multiannual Financial Framework 2014-2020

1. Smart & inclusive growth (€491bn)



2. Sustainable growth, natural resources (€383bn)

3. Security and citizenship (€18.5bn)

4. Global Europe (€70bn)

5. Administration (€62.6bn)



***EC will present an estimation of the next MFF by the end-2016...**

Multiannual Financial Framework onwards 2021

Up to the moment, the MFF has been so far:

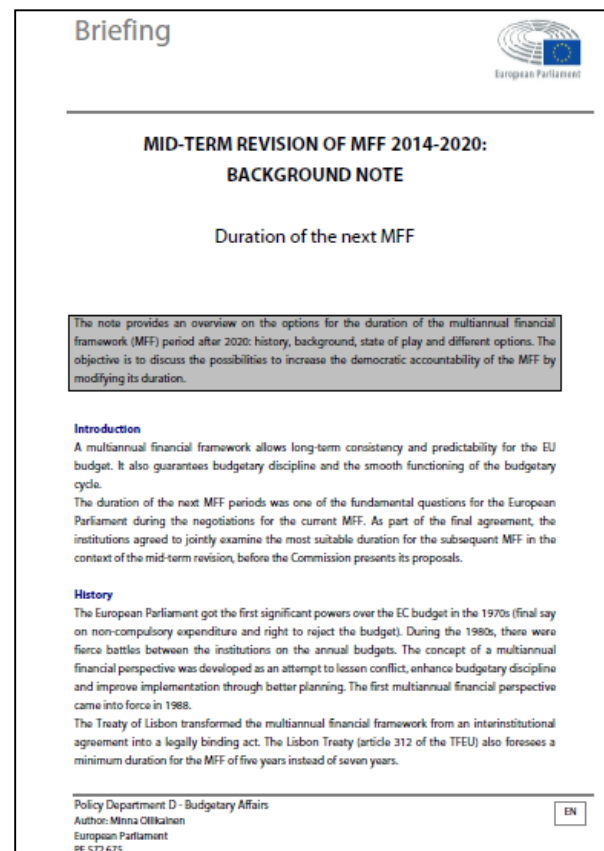
- 1988-1992: Delors I (5 years)
- 1993-1999: Delors II (7 years)
- 2000-2006: Agenda 2000 (7 years)
- 2007-2013: Building our common future (7 years)
- **2014-2020: Investing in Europe's future (7 years)**



Multiannual Financial Framework onwards 2021

Different options for MFF duration from 2021 onwards are under discussion:

- ❑ **OPTION 1 → 5-year period.** The shorter the period, the **higher the flexibility**. But, negative impact on multiannual programmes such as SF, agriculture and TENs.
- ❑ **OPTION 2 → 7-year period.** The longer the period, the **higher the stability** (specially for longer investment programmes such as infrastructures, research & regional policies). But, such a long period would need a strong mid-term review.
- ❑ **OPTION 3 → 5+5 -year period.** A major reprioritisation, if sufficient flexibility is guaranteed. But, this option should be **combined with a maximum level of flexibility** and very strong review clauses.



Entities with **competences over H2020** related decisions:

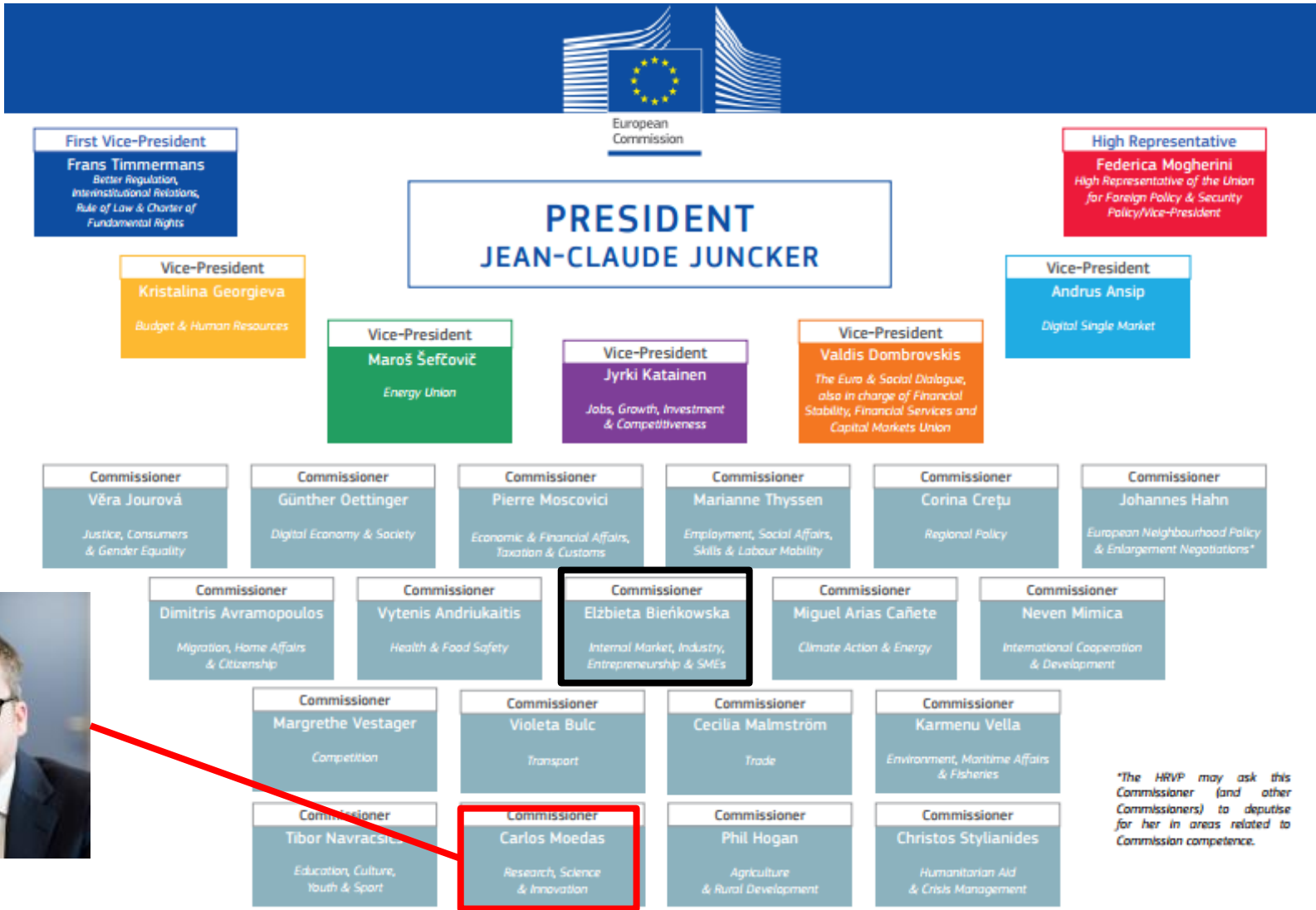
- ❑ **European Commission** → DG-RTD (with support of the thematic DGs) is responsible for:
 - ✓ **Formal proposal** of new programmes and initiatives (or changes to the existing ones).
 - ✓ **Implementation** & negotiation of the **detail of the programmes in the Programme Committees with the Member States.**

❑ **European Parliament**

❑ **European Council**

- ✓ Discussion of the EC proposals,
- ✓ Introducing amendments,
- ✓ Approval by co-decision.

DG-RTD in the European Commission...



The European Commission has the support of a number of **External Agencies** to assist the EC in the Implementation of programmes.

The Research Executive Agency - REA

The European Research Council Executive Agency - ERC

Executive Agency for Small and Medium-sized Enterprises –EASME (ex-EACI)

The Innovation and Network Executive Agency – INEA (ex TEN-TEA)



The Commission and the Agencies...

The EC, through **DG-RTD** focuss on Policy...

- European Semester
- Innovation Union
- ERA
- Science policy
- Strategy development
- Forward looking activities
- Definition of Work Programmes**
- Ex-ante and ex-post evaluation
- Feeding results from research projects into Policy**



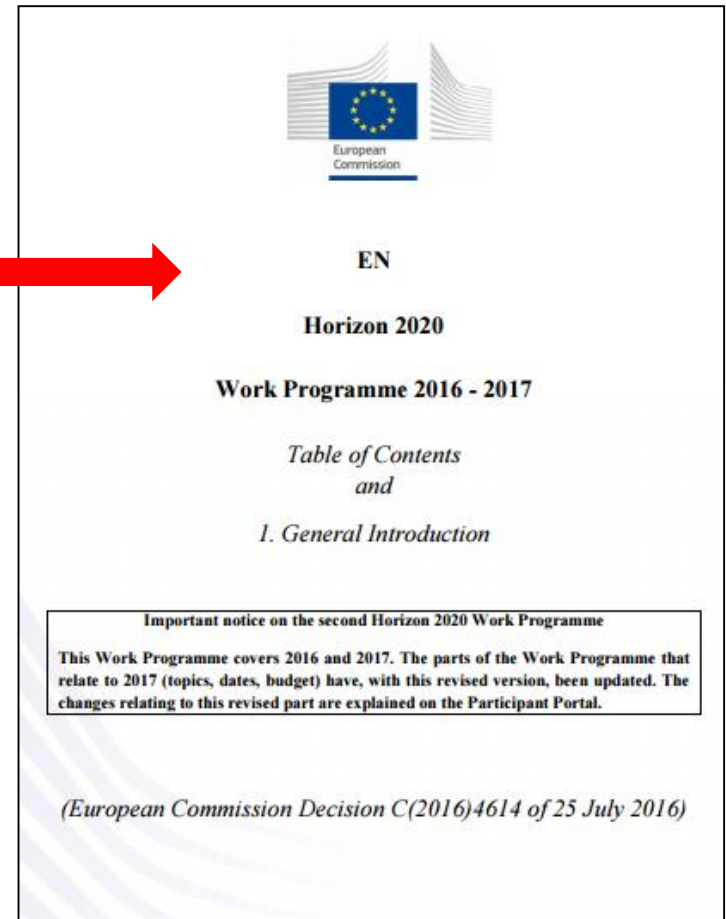
... while **Executive Agencies** focus on programme implementation

- Managing calls for proposals
- Handling proposal evaluations**
- Preparing grant agreements
- Making payments
- Monitoring projects

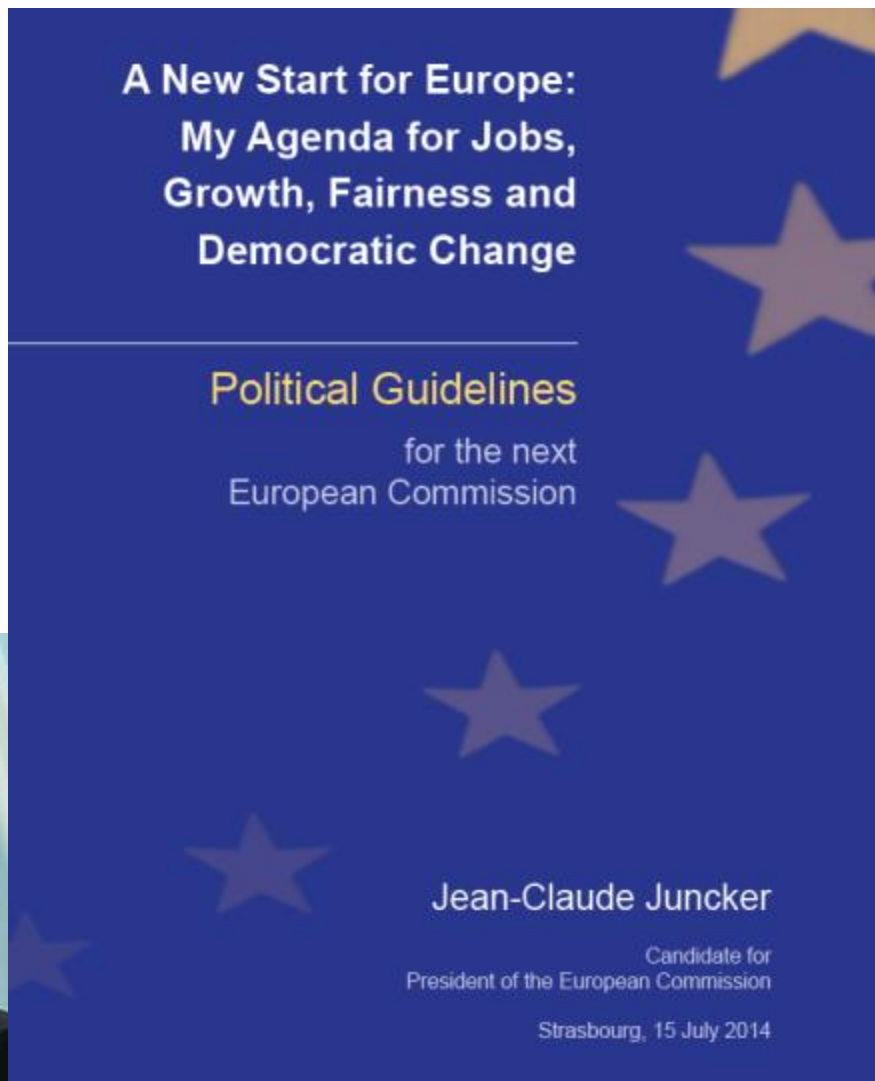
How is H2020 implemented?

❑ **Competitive calls** published in the bi-annual **Work-Programmes**

❑ Parallel **big initiatives** or sub-programmes → I.e.: European Institute of Technology (EIT), European Research Aliances, Public-Private Partnerships ...



H2020 workprogrammes also follow the political guidelines...



H2020 workprogrammes also follow the political guidelines...

Section contents **10 Priorities**

- > Jobs, Growth, Investment
- > Digital Single Market
- > Energy Union
- > Internal Market
- > Economic & Monetary Union
- > Free Trade
- > Justice & Fundamental Rights
- > Migration
- > A Global Actor
- > Democratic Change
- > More on my priorities



A New Boost for Jobs, Growth and Investment

My first priority as Commission President will be to strengthen Europe's competitiveness and to stimulate investment for the purpose of job creation. I intend to present, within the first three months of my mandate and in the context of the Europe 2020 review, an ambitious Jobs, Growth and Investment Package worth €300 billion .



A Connected Digital Single Market

I believe that we must make much better use of the great opportunities offered by digital technologies, which know no borders. To do so, we will need to have the courage to break down national silos in telecoms regulation, in copyright and data protection legislation, in the management of radio waves and in the application of competition law.



A Resilient Energy Union with a Forward-Looking Climate Change Policy

dependency of several of our Member States.

Current geopolitical events have forcefully reminded us that Europe relies too heavily on fuel and gas imports. I therefore want to reform and reorganise Europe's energy policy into a new European Energy Union. We need to pool our resources, combine our infrastructures and unite our negotiating power vis-à-vis third countries. We need to diversify our energy sources, and reduce the high energy



A Deeper and Fairer Internal Market with a Strengthened Industrial Base

H2020 workprogrammes also follow the political guidelines...

Section contents

- › Jobs, Growth, Investment
- › Digital Single Market
- › Energy Union
- › Internal Market
- › Economic & Monetary Union
- › Free Trade
- › Justice & Fundamental Rights
- › Migration
- › A Global Actor
- › Democratic Change
- › More on my priorities



A Deeper and Fairer Economic and Monetary Union

Over the next five years, I want to continue with the reform of our Economic and Monetary Union to preserve the stability of our single currency and to enhance the convergence of economic, fiscal and labour market policies between the Member States that share the single currency. I will do this on the basis of the "Four Presidents Reports" and the Commission's Blueprint for a Deep and Genuine Economic and Monetary Union, and always with Europe's social dimension in mind.



A Reasonable and Balanced Free Trade Agreement with the U.S.

Under my presidency, the Commission will negotiate a reasonable and balanced trade agreement with the United States of America, in a spirit of mutual and reciprocal benefits and transparency. It is anachronistic that, in the 21st century, Europeans and Americans still impose customs duties on each other's products.

These should be swiftly and fully abolished. I also believe that we can go a significant step further in recognising each other's product standards or working towards transatlantic standards



An Area of Justice and Fundamental Rights Based on Mutual Trust

Our European Union is more than a big common market. It is also a Union of shared values, which are spelled out in the Treaties and in the Charter of Fundamental Rights. Citizens expect their governments to provide justice, protection and fairness with full respect for fundamental rights and the rule of law.

This also requires joint European action, based on our shared values.



Towards a New Policy on Migration

The recent terrible events in the Mediterranean have shown us that Europe needs to manage migration better, in all aspects. This is first of all a humanitarian imperative. I am convinced that we must work closely together in a spirit of solidarity to ensure that situations such as the one in Lampedusa never arise again.



A Stronger Global Actor

We need a stronger Europe when it comes to foreign policy. The Ukraine crisis and the worrying situation in the Middle East show how important it is that Europe is united externally. There is still a long way to go.



A Union of Democratic Change

The proposal and election of the President of the European Commission in the light of the outcome of the European Parliament elections is certainly important, but only a first step in making the European Union as a whole more democratic. A European Commission under my leadership will be committed to filling the special partnership with the European Parliament, as laid down in the Framework Agreement of 2010,

with new life. I want to have a political dialogue with you, not a technocratic one.

Work-programmes in H2020

The work-programme...

Package of documents where you can find the details on the thematic priorities for funding (bi-annual), the funding schemes, condition for participation, deadlines, etc.. → **ATTENTION: For WP 2018-2020 there will be topic descriptions for 2018-2019 and orientations for 2020... in principle.**

- ❑ **18 thematic sub-programmes** → Societal Challenges, Industrial leadership, Excellence Science, CrossCutting Activities, SMEs Instrument & Fast Track to innovation (FTI).
- ❑ **General Annex** → All the participation rules, admisibility conditions, eligibility criterias, funding rates, evaluatiosn criterias,...
- ❑ **Other programmes** → Spreading Excellence & Widening Participation; Science wih and for Society; European Institute of Technology (EIT); EURATOM,...

The work-programme...

The screenshot shows the Horizon 2020 website interface. At the top, the European Commission logo and 'HORIZON 2020 The EU Framework Programme for Research and Innovation' are displayed. Below this is a navigation bar with links: 'What is Horizon 2020?', 'Find Your area', 'How to Get funding?', 'News, Events & Publications', and 'Projects'. The main content area is titled 'Horizon 2020 sections' and lists several categories: 'Excellent Science', 'Industrial Leadership', and 'Societal Challenges'. Under 'Societal Challenges', the section 'Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy' is highlighted with a red rectangular box. A red arrow points from the left towards this box. To the right of the main content, there is a search bar, a '#H2020' hashtag section with a tweet from Klaus Pors, and a quote in Italian: 'La ricerca transnazionale porta risultati impossibili da raggiungere altrimenti #inceptionproject #h2020'.

Example...

Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy

Article **Newsroom**

A transition is needed towards an optimal and renewable use of biological resources and towards sustainable primary production and processing systems. These systems will need to produce more food, fibre and other bio-based products with minimised inputs, environmental impact and greenhouse gas emissions, and with enhanced ecosystem services, zero waste and adequate societal value.

Agriculture, forestry, fisheries and aquaculture, together with the bio-based industries, are integral parts of the European economy and society. Relying on the use of limited natural resources, these sectors produce and process biological resources to satisfy the demand of consumers and a wide range of industries for food, feed, bio-energy and bio-based products. While they enhance Europe's self-reliance and provide jobs and business opportunities essential for rural, coastal and marine areas, the sectors are also facing significant challenges which require solutions based on research and innovation.

Agriculture and forestry

Agri-food sector for a safe and healthy diet

Aquatic living resources and marine research

Bio-based industries

› Work Programme 2016 - 2017

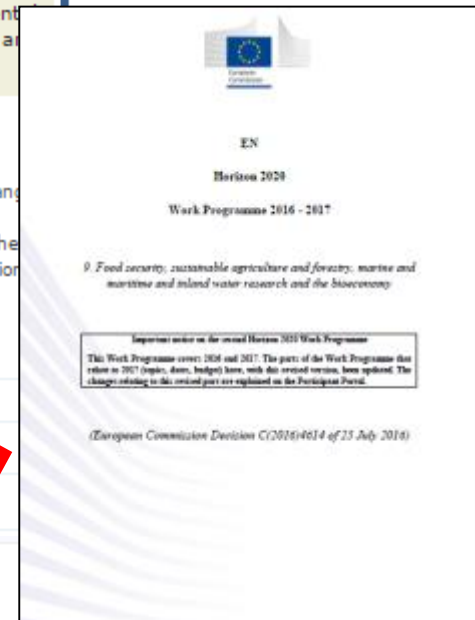
› Work Programme 2015 - 2016

› **Work Programme 2018 - 2020 preparation**

› Agriculture research and innovation

› European Bioeconomy

› Blue growth



EN Horizon 2020 Work Programme 2016 - 2017	
9 Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy	
Important note on the revised Horizon 2020 Work Programme	
This Work Programme covers 2016 and 2017. The parts of the Work Programme that relate to 2017 (topics, areas, budget lines, with the revised review, have updated. The changes relating to this revised part are explained in the Participant Portal.	
(European Commission Decision C(2016)4614 of 25 July 2016)	
90020201-2016 - Work Programme 2016 - 2017	
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy	
Table of contents:	
Introduction	8
Call - Sustainable Food Security - Resilient and resource-efficient value chains	16
Introduction	18
More resilient and resource-efficient value chains	17
SFS-01-2016: Solutions to multiple and combined stresses in crop production	17
SFS-02-2016: Tuning up for good: Exploiting the benefits of species diversity in cropping systems	19
SFS-03-2016: Tuning and breeding for sustainability and resilience in crops	20
SFS-04-2017: New partnerships and tools to enhance European capacities for livestock innovation	21
SFS-05-2017: Robotic Advances for Precision Farming	22
SFS-06-2016: Breeding - strategies, tools and technologies for sustainable food systems	24
SFS-07-2016-2017: Organic breeding - increasing the competitiveness of the organic breeding and farming sectors	25
SFS-08-2017: Organic inputs - cooperation topics in organic farming	26
SFS-09-2016: Spotlight on critical outbreaks of pests: the case of <i>Xylella fastidiosa</i>	27
SFS-10-2017: Research and approaches for emerging diseases and pests in plants and associated livestock	28
SFS-11-2016: Challenges for disease management: Perennial crops in the tropics and subtropics	31
SFS-12-2016: Support for international research on animal health	32
SFS-13-2017: Validation of diagnostic tools for animal and plant health	33
SFS-14-2016: Understanding leishmaniosis-environment interactions	35
SFS-15-2016-2017: Breeding livestock for resilience and efficiency	36
SFS-16-2017: New breeds and sustainable production	37
SFS-17-2017: Innovations in plant protection	39
SFS-18-2017: Support to the development and implementation of FOOD 2016 - a European research and innovation policy framework for food and nutrition security	40
SFS-19-2016-2017: ERA-HET CoFund: Public-Private Partnerships in the bioeconomy	42
SFS-20-2017: Towards a science-based reorientation of the Common Fisheries Policy	46
SFS-21-2016-2017: Advancing basic biological knowledge and improving management tools for commercially important fish and other seafood species	48
SFS-22-2017: Smart Solutions technologies for an efficient, resilient and environmentally friendly fishing sector	49

27/09/2016)

How are they are elaborated...

- ❑ Each **thematic (SC & LEIT)** has a **Programme Comittee** → Periodic technical meetings where, among others, different aspects of the thematic are discussed (topics, results from the calls, coments on the evaluations, aspects on the implementation, problems detected ...) → **Who: EC & Member States (MS).**

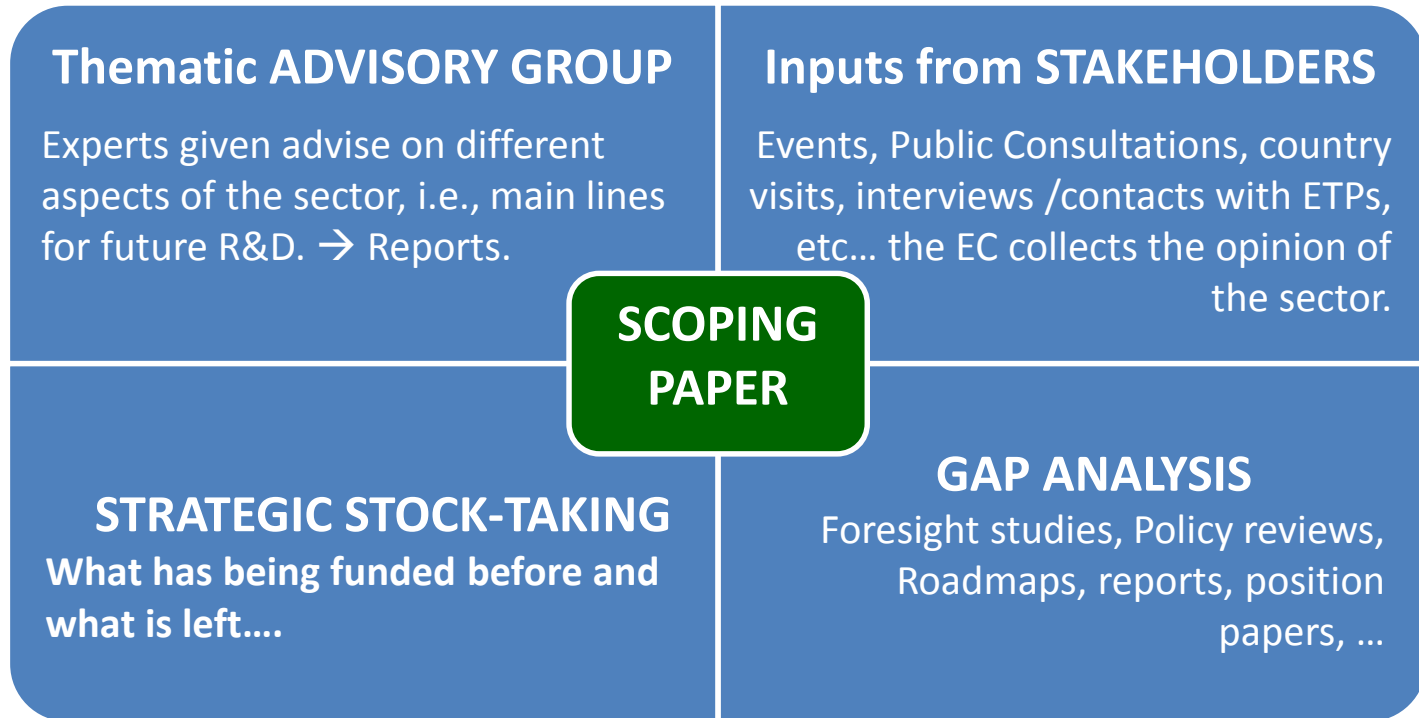


- ❑ For the **WP 2018-2020**, the **EC will propose to the MS a DRAFT document (draft work-programme)** to be discussed and modified.
- ❑ After months of discussion, the members of the Programme Committee will **vote the approval** of the final document to be published.

Work-programme 2018-2020...

The Scoping Papers

BEFORE the draft workprogramme, the EC generates a previous **document of vision of the sector and the needs for R&D** which is called , **SCOPING PAPER** (high-vision, NO topics yet). It will be the base for the next draft work-programme.



Timing...



So, who gives inputs for the WP 2018-2020 ?

- ❑ EC → DG-RTD & other thematic DGs
- ❑ **National Delegations** through the Programme Committees
- ❑ **Industrial Stakeholders** → [ETPs](#), EU associations & federations (p.e., [EUCAR](#), [ACARE](#)...), big players (p.e., Microsoft),....
- ❑ **Regional Stakeholders** → P.e.: [ERRIN](#), [EURADA](#), and other sectorial such as Nereus (in Space sector), Vanguard Initiative (in advanced manufacturing),...
- ❑ Other actors with a role in R&D&Innovation → P.e.: [IGLO](#), [LERU](#), [EARTO](#), ...
- ❑ **Advisory Boards** of each thematics (19 groups) & and some specific [Expert Groups of the EC](#)
- ❑ **Big parallel initiatives** to H2020 → **P.e.: EIPs, all kind of Public-Private Partnerships (PPPs), the EIT through the KICs...**

Example...

Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy

Article Newsroom

A transition is needed towards an optimal and renewable use of biological resources and towards sustainable primary production and processing systems. These systems will need to produce more food, fibre and other bio-based products with minimised inputs, environmental impact and greenhouse gas emissions, and with enhanced ecosystem services, zero waste and adequate societal value.

Agriculture, forestry, fisheries and aquaculture, together with the bio-based industries, are integral parts of the European economy and society. Relying on the use of limited natural resources, these sectors produce and process biological resources to satisfy the demand of consumers and a wide range of industries for food, feed, bio-energy and bio-based products. While they enhance Europe's self-reliance and provide jobs and business opportunities essential for rural, coastal and marine areas, these sectors are also facing significant challenges which require solutions based on research and innovation.

Agriculture and forestry

Agri-food sector for a safe and healthy diet

Aquatic living resources and marine research

Bio-based industries

› Work Programme 2016 - 2017

› Work Programme 2015 - 2016

› Work Programme 2018 - 2020 preparation

› European Bioeconomy
› Blue growth

Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy - Work Programme 2018-2020 preparation

Article Newsroom

Preparation of the work programme 2018-2020 for Societal Challenge 2 has started and will involve various stakeholder engagement activities and consultations.

Preparations for the last work programme started at the end of 2015. They will take into account the political priorities of the European Union and refer to several foresight exercises.

Consultation of stakeholders will be an integral part of this programming process which will be managed as a participatory process. In this respect Societal Challenge 2 particularly considers the following inputs:

- **Advisory group report:** The [advisory group](#) started to work on programming for 2018/2020 in February 2016. Building on the outcomes of their work for 2016/2017, they will produce a report by summer 2016.
- **Stakeholder consultation:** a [consultation questionnaire](#) is available on-line from 06.06.2016 to 28.08.2016. Contributions are especially expected from stakeholder organisations including SC2 relevant European Technology Platforms, Joint Programming Initiatives, European Research Area Networks (ERANETs), European Innovation Partnerships, science organisations, industry organisations. Results will be assembled in a report which is expected in September 2016.
- **Strategic approach to EU agricultural research and innovation:** a large participatory process has been launched in June 2015 to elaborate a long-term strategy for EU agricultural research and innovation. This strategy will be an important input into the programming process -final paper.
The content of the strategy builds on:
 - one kick-off workshop in EXPO Milan - [Event page](#) - [Final report](#)
 - two on-line targeted stakeholder consultations;
 - a large conference on 26-28 January 2016 - [Conference page](#) - [Conference Report](#)
- **European Innovation Partnership for Agricultural productivity and sustainability (EIP-AGRI):** agriculture and forestry stakeholders are also engaged in reflection on the research agenda via the [EIP-AGRI](#) network and activities, in particular through [focus groups](#), through various [workshops](#) and events which will be organised on themes such as 'Data revolution' (June 2016), 'Food and cities' (sept 2016), 'forest value chains' (October 2016) or sustainability indicators (January 2017). In addition, EIP-AGRI keeps collecting needs for research from practice via the e-form on [EIP-AGRI interactive platform](#). Finally, outcomes of activities undertaken for [2016/2017](#) will still be taken into account.
- **AGRI Research workshops:** in addition to workshops organised for preparation of work programme 2016-2017, many of which provided outcomes which are also relevant for 2018-2020, specific working sessions are organised to deepen the gap analysis and formulate research questions with key selected experts. Specific themes tackled so far were:
 - 'Bee health and sustainable pollination' (10.03.2016) - [Event page](#)

The stakeholders...

ec.europa.eu/programmes/horizon2020/en/experts

Commission Directory Intranet CDTI

Do you want to know more or wish to register as such an expert? Please consult the [Participant Portal experts section](#).

Horizon 2020 Advisory Groups

Advisory group experts provide high quality and timely advice to the Commission services during the preparation of the Horizon 2020 work programme.

Groups established

Details of the Horizon 2020 advisory groups are available in the [European Commission's Register of Expert Groups](#). Here is a full list of the established groups – each clickable to the entry in the register.

Horizon 2020 Advisory Group for:

- [Access to risk finance \(debt and equity financing\)](#)
- [Climate action, environment, resource efficiency and raw materials](#)
- [European research infrastructures including eInfrastructures](#)
- [Europe in a changing world – inclusive, innovative and reflective societies](#)
- [Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy and biotechnology](#)
- [Future and Emerging Technologies \(FET\)](#)
- [Health, demographic change and wellbeing](#)
- [Innovation in small and medium-sized enterprises \(SMEs\)](#)
- [The Marie Skłodowska-Curie actions on skills, training and career development](#)
- [Nanotechnologies, advanced materials and advanced manufacturing and processing](#)
- [Secure, clean and efficient energy and Euratom](#)
- [Secure societies – protecting freedom and security of Europe and its citizens](#)
- [Smart, green and integrated transport](#)
- [Space](#)

There is also the [CONNECT Advisory Forum for ICT Research and Innovation \(CAF\)](#).

You can find newly established groups under [News - New groups established](#) or by using "Horizon 2020" in the [quick search](#).



REGISTER OF COMMISSION EXPERT GROUPS and Other Similar Entities

European Commission > Register of Commission expert groups and other similar entities > Group Details

Home

How is the register organised

Expert groups explained

Quick search

Advanced search

News

Calls for applications

Contact the register

Download



In order to enhance transparency, a number of changes are being introduced on this Register, notably by improving data availability and reliability. It is expected that this process will be completed by 31 December 2016. Until then, information published on individual expert groups and/or on expert group members may still be missing, be inaccurate or incomplete.

Group Details - Commission Expert Group

[Print as PDF](#)

[Subscribe to this group](#)

Details

Additional Information

Subgroups

Statistics

Members

Name: Horizon 2020 Advisory Group for "Food Security, Sustainable Agriculture, Marine and Maritime Research and the Bioeconomy" (E02939)

Active

Abbreviation: AG H2020 SC2

Policy Area:

Agriculture

Fisheries and Maritime Affairs

Food Safety

Research and Innovation

Lead DG: RTD - DG Research and Innovation

Associated DG: AGRI - DG Agriculture and Rural Development

Type: Informal, Temporary

Scope: Limited

Mission: To contribute to the implementation of H2020, the European Union's Funding Programme for the period 2014-2020, by providing advice to the Commission services on the societal challenge "Food Security, Sustainable Agriculture, Marine and Maritime Research and the Bio-Economy".

Task: Assist the Commission in the preparation of legislative proposals and policy initiatives

Details Additional Information Subgroups Statistics Members

Name: Horizon 2020 Advisory Group for "Food Security, Sustainable Agriculture, Marine and Maritime Research and the Bioeconomy" (E02939) **Group which operates on a permanent basis**

Type A - Individual expert appointed in his/her personal capacity

Name	Nationality	Professional Title	Membership Status
CHABLE Veronique	France	Senior Research	Member
EMANUELSON Ulf	Sweden	Professor	Member
GEORGE Eckhard	Germany	Professor, Director of Research	Member
HAMMER Cornelius	Germany	Director, Professor	Member
PANOUTSOU Calliope	Greece	Senior Research Fellow	Member
PELE Maria	Romania	Professor	Member
SCHLUNDT Jørgen	Denmark	Director	Member
SOSSIDOU Evangelia	Greece	Senior Researcher	Member
TUROK Jozef	Slovakia	Head, CGIAR Program Facilitation Unit	Member

Type C - Organisation

Name of Organisation	Category	Countries/Areas represented	Membership Status
ALTERRA - Wageningen UR		Netherlands	Member
CLARIANT PRODUKTE (DEUTSCHLAND) GMBH	Companies/Groups	Germany	Member
Comitato Italiano Sovranità Alimentare		Italy	Member
Danish Centre of Food and Agriculture, Aarhus University	Academia, Research Institute and Think Tanks	Denmark	Member
Dublin Institute of Technology	Academia, Research Institute and Think Tanks	Ireland	Member
ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development		Italy	Member
Halbert Research, Mullentaura, Ballyhooly, Co. Cork		Ireland	Member
Innovation Norway		Norway	Member



INNOVATION UNION

A Europe 2020 Initiative

European Commission > Innovation Union > ETP

[Home](#) [About IU](#) [What we do](#) [Prizes](#) [Events](#) [Documents](#) [Press](#) [Funding](#)

European Technology Platforms

- What are the ETPs
- What do they do?
- What is the Commission's role?
- Individual ETPs
- Cross-cutting ETP Initiatives
- Official Documents

What are European Technology Platforms?

European Technology Platforms (ETPs) are industry-led stakeholder fora recognised by the European Commission as key actors in driving innovation, knowledge transfer and European competitiveness.

ETPs develop research and innovation agendas and roadmaps for action at EU and national level to be supported by both private and public funding. They mobilise stakeholders to deliver on agreed priorities and share information across the EU.

By working effectively together, they also help deliver solutions to major challenges of key concern to citizens such as the ageing society, the environment and food and energy security.

ETPs are independent and self-financing entities. They conduct their activities in a transparent manner and are open to new members.

What do they do?

ETPs have a strategy, mobilisation and dissemination function. In order to fulfil their role, their main activities encompass:

- developing industry-focused **strategic research and innovation agendas** including technology roadmaps and implementation plans;
- encouraging **industry participation in Horizon 2020**, the EU's framework programme for research and innovation, and cooperating with networks in Member States;
- fostering **networking opportunities** with other ETPs and other partners along the value chain to address cross-sectoral challenges and promote the move towards more open models of innovation;
- identifying **opportunities for international cooperation**;
- acting as one of the channels of external **advice** for the programming and implementation of Horizon 2020; notably, ETPs have been a key driving force behind the launch of high profile public-private partnerships under the programme.

Few words about the EU Technology Platforms, ETPs

The ETPs have been an important source of inputs to the EC about:

- ❑ What are the **priorities and trends of an industrial sector** on R&D&Innovation issues
- ❑ Development of “**Documents of vision** of their sector” at medium-long term
- ❑ **Federating** big and small actors, RTOs and academia around one industrial sector. → Networking among all the actors.

Most of the PPPs have been promoted by the corresponding ETP in that sector!!!!

*Each ETP is evaluated / reviewed by EC each 3 years...

Individual ETPs

Bio-based economy	Energy	Environment	ICT	Production and processes	Transport
EATIP	Biofuels	WssTP	ARTEMIS	ECTP	ACARE
ETPGAH	EU PV TP		ENIAC	ESTEP	ALICE
FABRE TP	TP OCEAN		EPoSS	EuMaT	ERRAC
Food for Life	RHC		ETP4HPC	FTC	ERTRAC
Forest-based	SmartGrids		euRobotics [AISBL]	Manufuture	Waterborne
Plants	SNETP		NEM	Nanomedicine	
TP Organics	ETIPWind		NESSI	SMR	
	ZEP		Networld 2020	SusChem	
			Photonics 21		

TPorganics
European Technology Platform

About us | Members | Strategic Cooperation | Supporters | Innovation Areas | Library

TP Organics, European Technology Platform for organic food & farming research

We bring the research priorities of the organic sector & views of civil society to policy-makers

Food for tomorrow's consumer
Also changing the nutritional power and impact of the European food industry to the benefit of a sustainable society

News & events | Publications

FABRE TP

About FABRE TP | EU projects | News & Events | Contact | Further reading | Forum

Farm Animal Breeding & Reproduction Technology Platform

Farm animal breeding and reproduction starts at the beginning of the animal production chain. breeding contributes to the birth of robust, efficient and healthy animals with a reduced need for medication and increased animal welfare.

Research and innovation are essential to ensure continuous improvements needed for a sustainable and competitive livestock sector. We work on supporting partnerships between the private sector and knowledge centres to tackle major challenges with sustainable farm animal breeding and reproduction technologies. Read more.

Forest-based Sector
Technology Platform

HOME | ABOUT ETP | NEWS | CALENDAR & EVENTS | STAKEHOLDERS & THE FOREST-BASED SECTOR | RESEARCH FUNDING | RESEARCH PROJECTS | STRATEGIC RESEARCH AGENDA | REPORTS & PUBLICATIONS | MEMBER AREA

21.09.2016
Share your ideas and contribute to shape the research and innovation needs in the use of hardwoods in Europe

Plants for the Future
European Technology Platform

HOME | ACTIVITIES | DOWNLOADS | LINKS | CONTACTS | MEMBER AREA | BLOG/MP

Welcome to the European Technology Platform 'Plants for the Future'

The European Technology Platform 'Plants for the Future' - A European partnership for research, development and innovation

The European Technology Platform (ETP) 'Plants for the Future' is a stakeholder forum for the plant sector with members from industry, academia and the farming community. It serves as a platform for all stakeholders concerned with plants to provide their views and represent their interests in an open discussion process. It provides a 20-year vision, a short-, medium- and long-term Strategic Research Agenda for Europe's plant sector and sets up strategic action plans to promote innovation, research and education in the plant sector. In addition, the platform brings key issues for the attention of European bodies such as the European Commission and the European Parliament. These issues include the growing importance of crops and plant species to tackle the future challenges for our societies and the crucial support for efforts to save plants.

The screenshot shows the top navigation bar with the European Commission logo and the text 'RESEARCH & INNOVATION Key Enabling Technologies'. Below this is a breadcrumb trail: 'European Commission > Research & Innovation > Key Enabling Technologies > Public Private Partnerships in research'. A row of seven category tiles is displayed: Nanotechnologies, Advanced Materials, Advanced Manufacturing, Public Private Partnerships, Biotechnologies, Coal and Steel (RFCS), and Innovation and Impact. The main heading is 'Public Private Partnerships in research', followed by a 'Share' button and social media icons. A breadcrumb trail below the heading reads 'Home > Public Private Partnerships in research'. Two purple buttons are visible: 'Energy-efficient Buildings (EeB)' and 'Factories of the Future (FoF)'. The main content area features a red circle around the text: 'Information Day on the Research Public-Private Partnerships (cPPPs) Brussels, 14 October 2016'. Below this, a paragraph describes the event's purpose and lists participating PPPs: 'The aim of the event is to give the research community an overview of ongoing activities following PPPs : Factories of the Future, Energy-efficient Buildings, Sustainable Process Industry, and European Green Vehicles Initiative. Support will be given for the preparation of proposals for the 2017 calls.' A link for 'More information & Registration' is provided. Further down, another event is listed: 'H2020 Information Day on Research PPPs 16 October 2015', with a brief description and a 'More information' link.

Information Day on the Research Public-Private Partnerships (cPPPs) Brussels, 14 October 2016

The aim of the event is to give the research community an overview of ongoing activities following PPPs : Factories of the Future, Energy-efficient Buildings, Sustainable Process Industry, and European Green Vehicles Initiative. Support will be given for the preparation of proposals for the 2017 calls.

[More information & Registration](#)

H2020 Information Day on Research PPPs 16 October 2015

An information day was held on the Research PPPs on 16 October 2015

[More information](#)

The three PPPs in the "Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology" part of Horizon 2020 are:


- **Factories of the Future (FoF)**
- **Energy-efficient Buildings (EeB)**
- **Sustainable Process Industry (SPIRE)**

Contractual arrangements:

- Factories of the Future (FoF) (PDF version, 261KB)
- Energy-efficient Buildings (EeB) (PDF version, 264KB)
- Sustainable Process Industry (SPIRE) (PDF version, 273KB)

The five other contractual Public-Private Partnerships are:

- European Green Vehicles Initiative (EGVI)
- Photonics
- Robotics
- High Performance Computing (HPC)
- Advanced 5G networks for the Future Internet (5G)



HORIZON 2020
The EU Framework Programme for Research and Innovation

[Login](#) | [Create An ECAS Account](#) | [About](#) | [Contact](#) | [Legal notice](#) | [Search](#) | English (en)

European Commission > Horizon 2020

Home
What is Horizon 2020?
Find Your area
How to Get funding?
News
Events
Multimedia
Publications
Project Stories

Horizon 2020 Programme

Related Horizon 2020 sections

- ▶ Information and Communication Technologies
- ▶ Health, Demographic Change and Wellbeing
- ▶ Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
- ▶ Smart, Green and Integrated Transport
- ▶ Secure, Clean and Efficient Energy
- ▶ Climate Action, Environment, Resource Efficiency and Raw Materials
- ▶ Innovation in SMEs

Partnerships with Industry and Member States

Through partnerships, Horizon 2020 pools Europe's resources to tackle the biggest challenges, support competitiveness of sectors that deliver high quality jobs, develop closer synergies with national and regional programmes, and encourage greater private investment in research and innovation.

Innovation Investment Package

Ten partnerships with the industry and Member States were proposed as part of the Innovation Investment Package, and one more followed. The EU's contribution of €9 billion to the package will unlock a €10 billion investment from the private sector and €4 billion from Member States.

Public-Private Partnerships


Most of the funding will go to Joint Technology Initiatives (JTIs). These are run as Joint Undertakings that organise their own research agenda and award funding for projects on the basis of open calls.

The new Joint Technology Initiatives are active in a number of areas of strategic importance for the EU:


- **Innovative Medicines 2 (IMI2):** to develop next generation vaccines, medicines and treatments, such as new antibiotics ([website](#) | [factsheet](#))
- **Fuel Cells and Hydrogen 2 (FCH2):** to accelerate market introduction of clean and efficient technologies in energy and transport ([website](#) | [factsheet](#))
- **Clean Sky 2 (CS2):** to develop cleaner, quieter aircraft with significantly less CO2 emissions ([website](#) | [factsheet](#))
- **Bio-based Industries (BBI):** to use renewable natural resources and innovative technologies for greener everyday products ([website](#) | [factsheet](#))
- **Electronic Components and Systems for European Leadership (ECSEL):** to boost Europe's electronics manufacturing capabilities ([website](#) | [factsheet](#))
- **Shift2Rail:** to develop better trains and railway infrastructure that will drastically reduce costs and improve capacity, reliability and punctuality ([website](#) | [factsheet](#))

A related type of initiative is


- **Single European Sky ATM Research (SESAR) 2020:** to develop the new generation of




#H2020

 **SHABANA KHAN**
@ShabanaAyaaz
@PrasannaDa REMPARK developed a personal health device to detect & manage Parkinson. bit.ly/1yJEAou #H2020 pic.twitter.com/CmFgDhfaq4

30m

 **Octopux Consulting**
@Octopux_EU
@ERNACT We have new and UPDATED #H2020 courses this year! Interested? octopux.eu/training-cours... Based on our successful #Horizon2020 proposals!

3h

 **Octopux Consulting**
@Octopux_EU
@ECPMA Our #H2020 course is based on our real-life



European Innovation Partnerships



European Innovation Partnerships (EIPs) are a new approach to EU research and innovation.

EIPs are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets.

EIPs act across the whole research and innovation chain, bringing together all relevant actors at EU, national and regional levels in order to: (i) step up research and development efforts; (ii) coordinate investments in demonstration and pilots; (iii) anticipate and fast-track any necessary regulation and standards; and (iv) mobilise 'demand' in particular through better coordinated public procurement to ensure that any breakthroughs are quickly brought to market. Rather than taking the above steps independently, as is currently the case, the aim of the EIPs is to design and implement them in parallel to cut lead times.

EIPs streamline, simplify and better coordinate existing instruments and initiatives and complement them with new actions where necessary. This should make it easier for partners to co-operate and achieve better and faster results compared to what exists already. Therefore, they build upon relevant existing tools and actions and, where this makes sense, they integrate them into a single coherent policy framework. Flexibility is important; there is not a 'one-size-fits-all' framework.

EIPs are launched only in areas, and consist only of activities, in which government intervention is clearly justified and where combining EU, national and regional efforts in R&D and demand-side measures will achieve the target quicker and more efficiently.

European Innovation Partnership
Active & Healthy Ageing

European Innovation Partnership
on Agricultural Sustainability and Productivity

European Innovation Partnership
on Smart Cities and Communities

European Innovation Partnership
on Water

European Innovation Partnership
Raw Materials

EIT - Making innovation happen

2016 Call for KICs →

Find the latest information about the 2016 Call

Climate-KIC →

Climate change mitigation and adaptation

EIT Digital →

Future Information and Communication Technologies

EIT Health →

Healthy living and active ageing

EIT Raw Materials →

Sustainable exploration, extraction, processing, recycling and substitution

KIC InnoEnergy →

Sustainable energy



New opportunities for innovation and research with the EU's science and knowledge service

22/09/2016

The EIT and the European Commission's Joint Research Centre (JRC) strengthened cooperation by signing a Memorandum of Understanding (MoU) today at the EIT Headquarters in Budapest. Tibor Navracsics, European Commissioner for Education, Culture, Youth and Sport, responsible for both the EIT...



New opportunities for innovation and research with the EU's science and knowledge service

Ambiciti, first mobile app for street-level air and noise pollution launches in Europe

EIT Raw Materials Business Ideas Competition

Have your say on the EIT: public consultation

Graduate of EIT Digital Master School raises €750,000 in crowdfunding campaign

Last but not least...

Keys for participating in H2020...

□ Anticipation

- ✓ **Call-2017** → The work starts months BEFORE the opening of the call → Internal analysis and selection of the topics, what we can offer, identification of potential partners, networking...
- ✓ Inputs for **calls 2018-2019-2020** → National Representatives at the H2020 Programme Committees but also stakeholders in Brussels (platforms, associations...).



Keys for participating in H2020...

❑ **Strategy** at short-medium-long term

- ✓ Revise your objectives and select your priorities. → **You can not “go everywhere”...**
- ✓ Revise your **internal capabilities** → What products/services we can offer? How can we be attractive/competitive? For whom?
- ✓ Reinforce **colaborations** → Companies-University-Technology and Research centers... If possible, public administrations (cities, public bodies, end-users...)



□ Networking

- ✓ **Collaboration with the private sector** is one of the best ways for participating is SC & LEIT
- ✓ Keep contact with **EU & international stakeholders**
→ Make profit of infodays, events, project meetings... better visibility!
- ✓ Use your tools in Brussels... ETPs, EU-Parliament, SBRA,...



Many thanks for your attention...

Najlepša hvala za vašo pozornost...

Martínez-García

H2020 Programme at SOST-CDTI office

marina.cdti@sost.be