

# Informativni dan Obzorje 2020

GZS, Ljubljana  
9. oktober 2015

## 5. družbeni izziv: podnebni ukrepi, okolje, učinkovita raba virov in surovine

Societal Challenge 5: Climate action, environment,  
resource efficiency and raw materials



**Petra Žagar, SC5 NCP**

Ministrstvo za izobraževanje, znanost in šport  
Direktorat za znanost



# Pregled predstavitve

- 1) Stanje
- 2) Rezultati 2014-2015
- 3) Struktura delovnega programa 2014-2015 vs. 2016-2017
- 4) Tematski sklopi v delovnem programu 2016-2017 ter relevantni dokumenti in iniciative
- 5) Nasveti



# 1 STANJE

- Delovni program 2016-2017
  - Vsa mnenja PO so prejeta
  - Sprejetje in potrditev predvidena za 13. oktober 2015, objava razpisov 14. oktobra 2015 na Participant Portal
- Posodobitev delovnega programa 2017
  - Razjasnjevanje ERA-NET Co-fund aktivnosti (FPA)
  - Potrditev proračuna za leto 2017
  - Diskusija s člani PO Q1/2016
  - Sprejetje in potrditev predvidena za julij 2016



## 2 REZULTATI 2014-2015

EK je preko razpisov iz leta 2014 in 2015 one-stage sofinancirala

**102 projekta**. Tu so zajeti razpisi:

- 5. družbenega izziva ("okolje"):  
SC5, WATER, WASTE, vključno SMEinstrument

- 2. družbenega izziva ("bio"):  
BG (topic blue growth, polar research)

- 3. družbenega izziva ("energija"):  
EE (topic renovation historic build.)

- 7. družbenega izziva ("varnost"):  
DRS (topic Climate change)



# Struktura SC5 v H2020 (1/2)

<b>5.</b>	<b>CLIMATE ACTION, ENVIRONMENT, RESOURCE EFFICIENCY AND RAW MATERIALS</b>
<b>5.1.</b>	<b>Fighting and adapting to climate change</b>
5.1.1	Improving the understanding of climate change and the provision of reliable climate projections
5.1.2	Assessing impacts and vulnerabilities and developing innovative cost-effective adaptation, risk prevention and management measures
5.1.3	Supporting mitigation policies, including studies that focus on impact from other sectoral policies
<b>5.2.</b>	<b>Protecting the environment, sustainably managing natural resources, water, biodiversity and ecosystems</b>
5.2.1	Furthering our understanding of biodiversity and the functioning of ecosystems, their interactions with social systems and their role in sustaining the economy and human well-being
5.2.2	Developing integrated approaches to address water-related challenges and the transition to sustainable management and use of water resources and services
5.2.3	Providing knowledge and tools for effective decision making and public engagement
<b>5.3.</b>	<b>Ensuring the sustainable supply of non-energy and non-agricultural raw materials</b>
5.3.1	Improving the knowledge base on the availability of raw materials
5.3.2	Promoting the sustainable supply and use of raw materials, including mineral resources, from land and sea, covering exploration, extraction, processing, re-use ,recycling and recovery
5.3.3	Finding alternatives for critical raw materials
5.3.4	Improving societal awareness and skills on raw materials





# Struktura SC5 v H2020 (2/2)

<b>5.</b>	<b>CLIMATE ACTION, ENVIRONMENT, RESOURCE EFFICIENCY AND RAW MATERIALS</b>
<b>5.4.</b>	<b>Enabling the transition towards a green economy and society through eco-innovation</b>
5.4.1	Strengthening eco-innovative technologies, processes, services and products, including exploring ways to reduce the quantities of raw materials in production and consumption, overcoming barriers in this context and boosting their market uptake
5.4.2	Supporting innovative policies and societal changes
5.4.3	Measuring and assessing progress towards a green economy
5.4.4	Fostering resource efficiency through digital systems
<b>5.5.</b>	<b>Developing comprehensive and sustained global environmental observation and information systems</b>
<b>5.6.</b>	<b>Cultural heritage</b>
5.6.1	Identifying resilience levels via observations, monitoring and modelling
5.6.2	Providing for a better understanding on how communities perceive and respond to climate change and seismic and volcanic hazards
<b>5.7.</b>	<b>Specific implementation aspects</b>



Calls for proposals	2014			2015
	WP 2014 Budget (m€)	EU contrib. (m€)	Deviation	WP 2015 Budget (m€)
SC5	166	174.05	4.8%	185
WASTE	59	66.05	11.9%	44
WATER	67	63.74	-4.9%	93
Blue Growth	23	22.83	-0.8%	15
Energy efficiency	5	4.96	-0.8%	0
Disaster-resilience	18	17.75	-1.4%	28
FTI pilot	0			7.15
<b>Total</b>	<b>338</b>	<b>349.37</b>	<b>3.4%</b>	<b>372.15</b>

- **Razpisi DP SC5 2014 & 2015:**

- Growing a low carbon, resource efficient economy with sustainable supply of raw materials (**SC5**)
- **Waste:** A resource to recycle, reuse and recover raw materials
- **Water** innovation: Boosting its value for Europe

- **Udeležba v drugih DP**

- Energy efficiency (SC3)
- Disaster-resilience: safeguarding and securing society, including adapting to climate change (SC7)
- Blue growth: Unlocking the potential of seas and oceans (SC2)
- Fast track to innovation – Pilot (2015)



V naslednjih prikazih niso vključeni projekti, ki so bili potrjeni/izbrani preko SME Instrument - Phase 1:

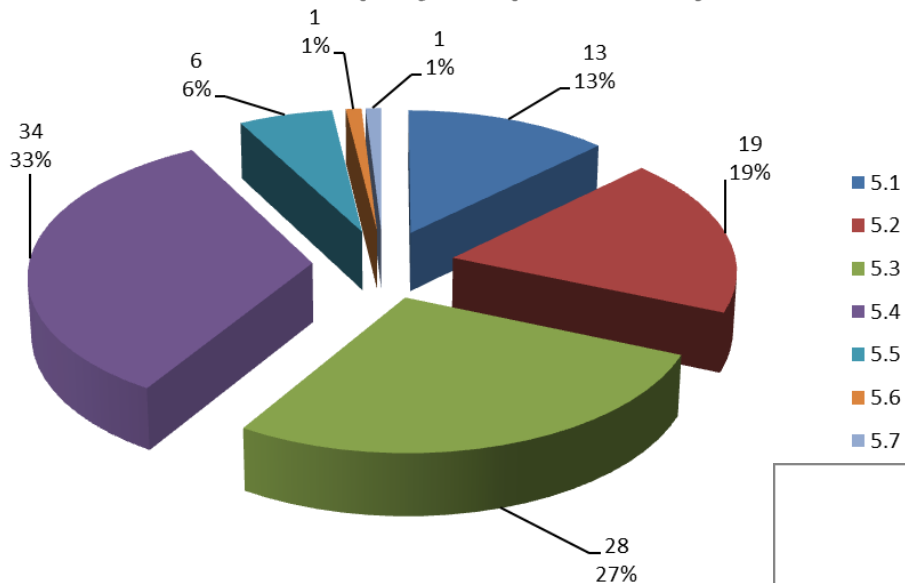
- 50.000€ / projekt
- Trajanje 6 mesecev
- Predstavljajo ~10% celotnega proračuna namenjena SMEs Instr
  - (€ 1.7 and 1.9 mio v 2014 & 2015)

Call Identifier	Nr of projects	EU contribution (€)
H2020-SC5-2014-one-stage	17	76,113,430
H2020-SC5-2014-two-stage	9	81,637,515
H2020-SMEINST-2-2014	13	16,294,262
H2020-WASTE-2014-one-stage	7	23,083,556
H2020-WASTE-2014-two-stage	5	42,964,517
H2020-WATER-2014-one-stage	7	12,731,122
H2020-WATER-2014-two-stage	13	51,005,121
H2020-BG-2014-1	1	2,174,503
H2020-BG-2014-2	1	20,652,921
H2020-DRS-2014	3	17,749,404
H2020-EE-2014-1-PPP	1	4,962,375
H2020-SMEINST-2-2015	3	5,365,794
H2020-SC5-2015-one-stage	18	111,749,206
H2020-WASTE-2015-one-stage	2	2,986,543
H2020-WATER-2015-one-stage	2	12,793,380
<b>Total</b>	<b>102</b>	<b>482,263,649</b>

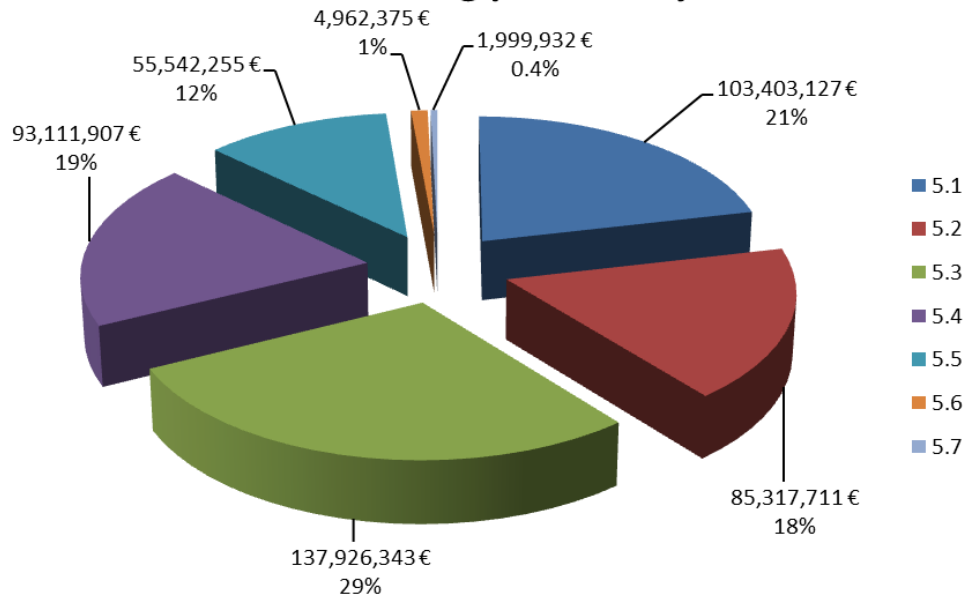




### Number of projects per activity



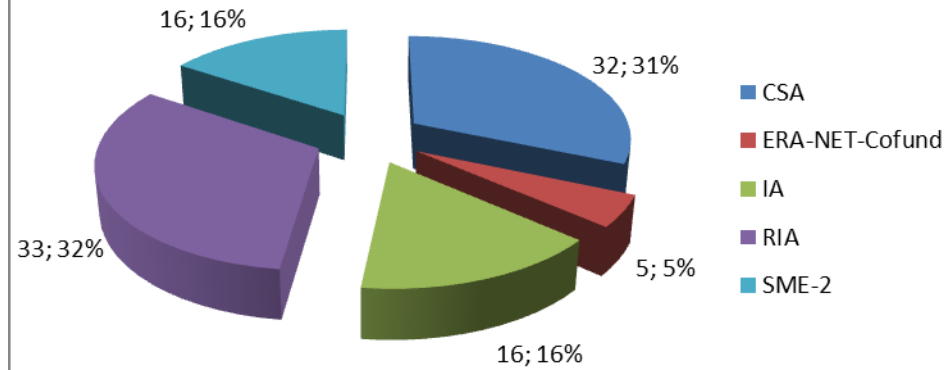
### EU funding per activity



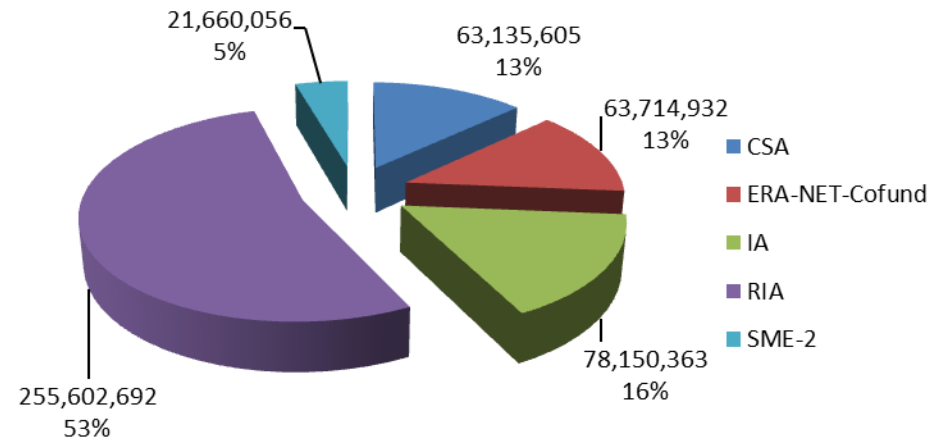


- Povprečna velikost projekta:  
 ~ 4.7 mio € EU contribution
- Povprečno trajanje:  
 ~ 38 mesecev

**Number of projects / Type of Action**



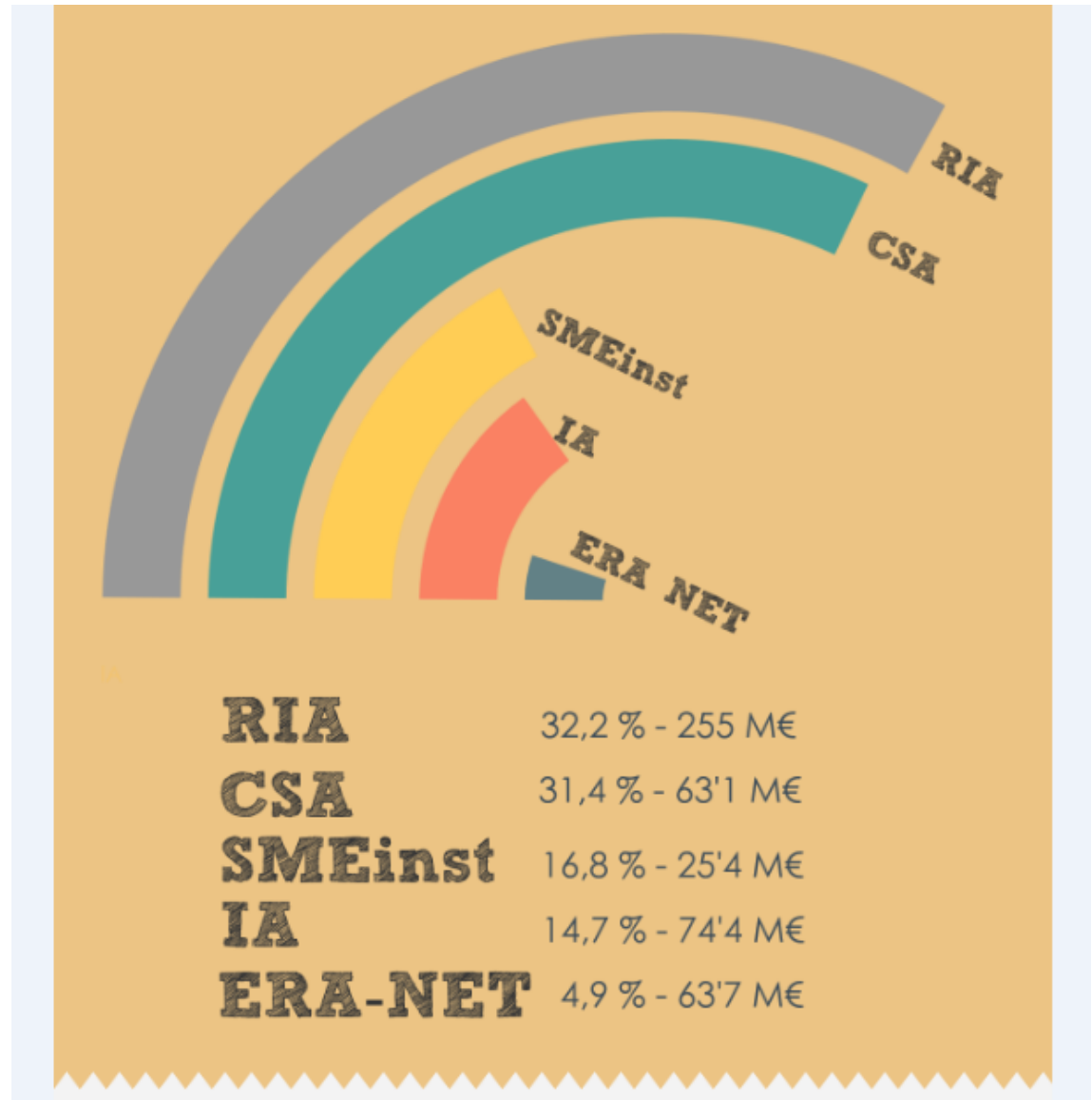
**EU contribution / Type of Action**



Type of Action	Average EU contrib. (€)	Rate EU contribution / Total costs	Average Project Duration (months)
CSA	1,972,988	98%	35.7
ERA-NET-Cofund	12,742,986	28%	60.0
IA	4,884,398	83%	38.2
RIA	7,745,536	98%	44.6
SME-2	1,353,754	70%	23.1
<b>Total</b>	<b>4,728,075</b>	<b>71%</b>	<b>38.2</b>



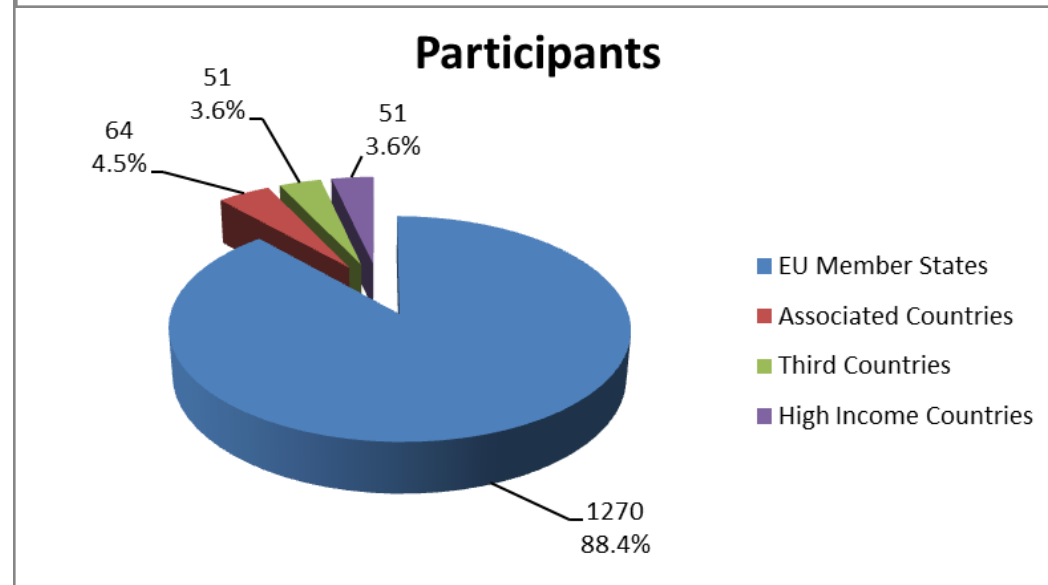
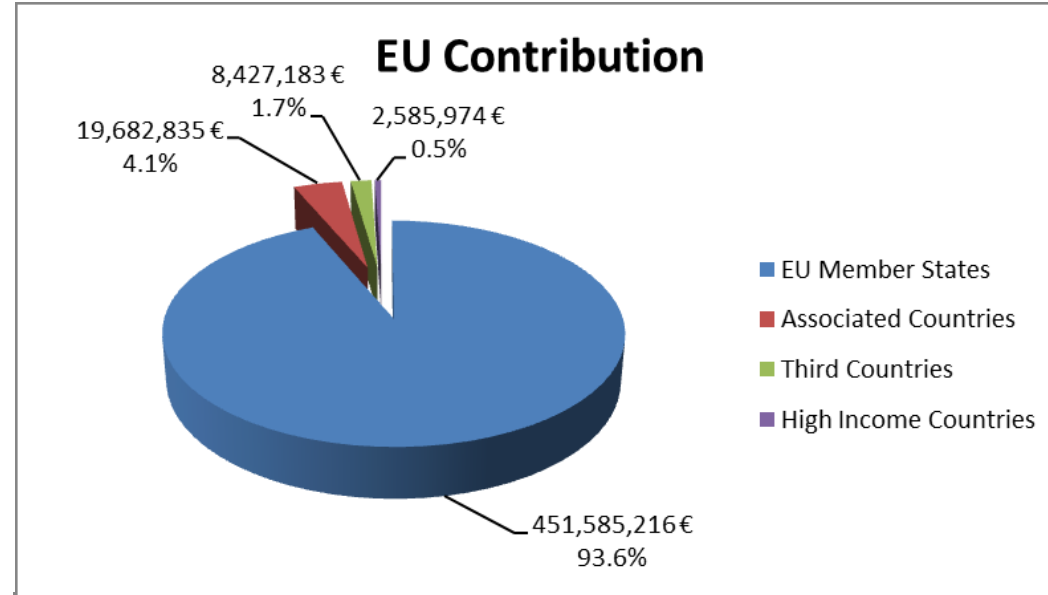
Višina  
sofinanciranih  
projektov in delež  
po tipu projekta:



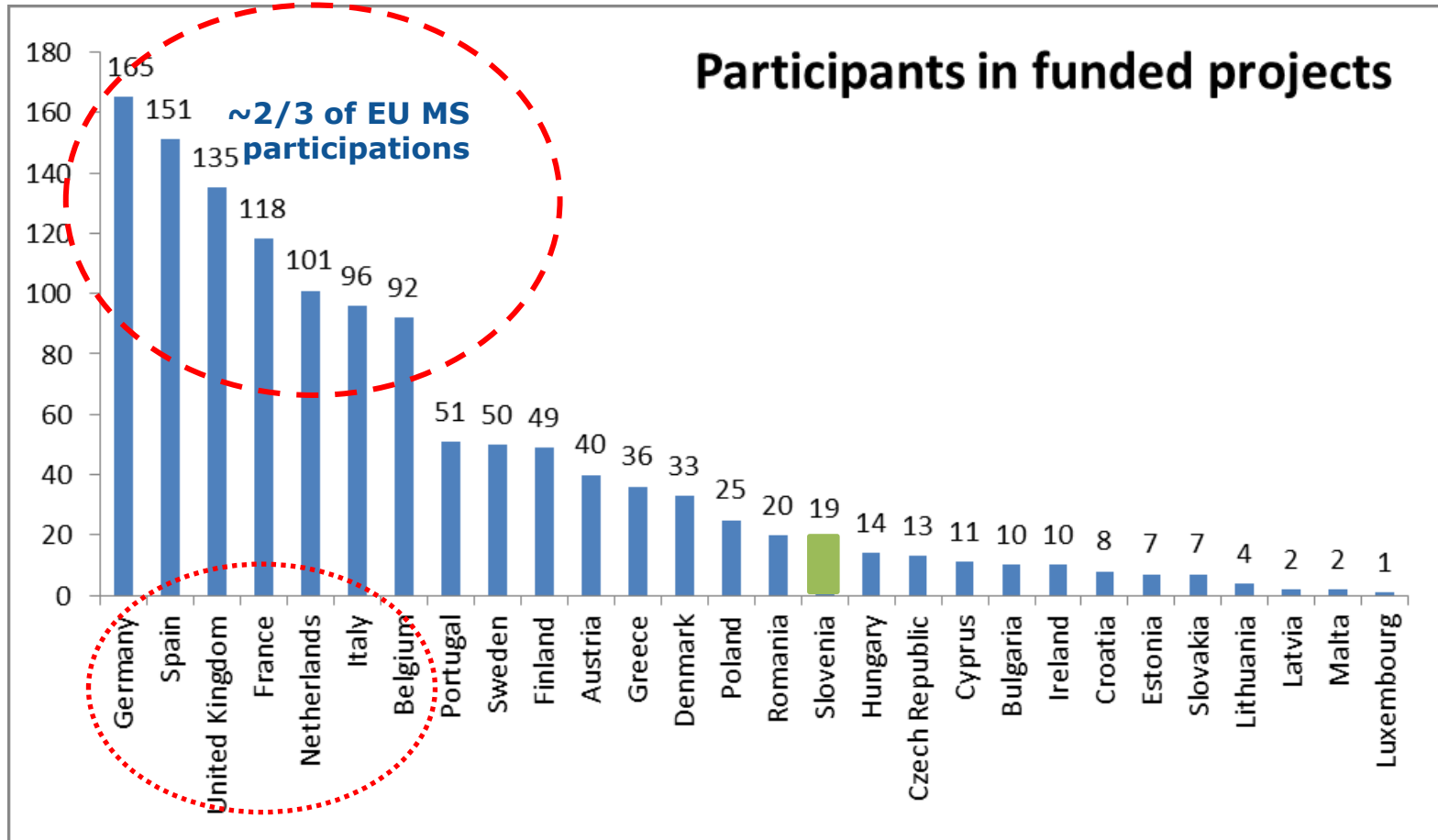


## Geografska zastopanost v izbranih projektih:

- Udeležba
  - 1.436 partnerjev v 102 proj. (povprečno ~14/ projekt)
  - 72 različnih držav
  - ↓ internat'l sodelovanje vs. FP7

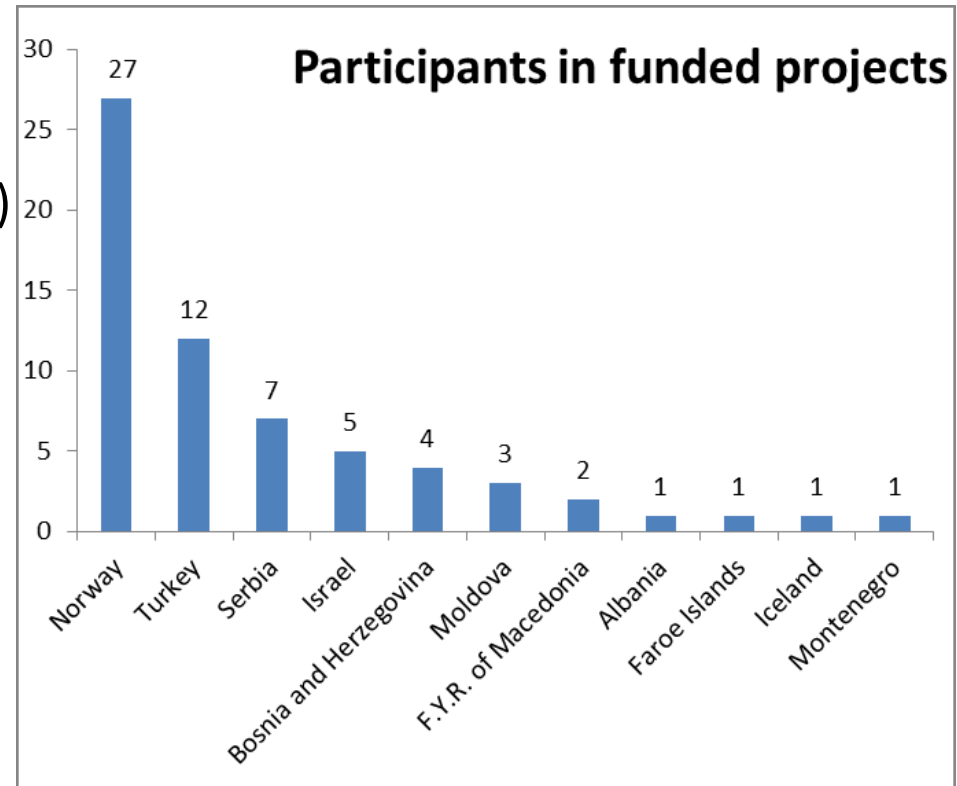


## Države članice (EU-28): zastopanost v (so)financiranih projektih



## Pridružene članice (PČ): zastopanost v (so)financiranih projektih

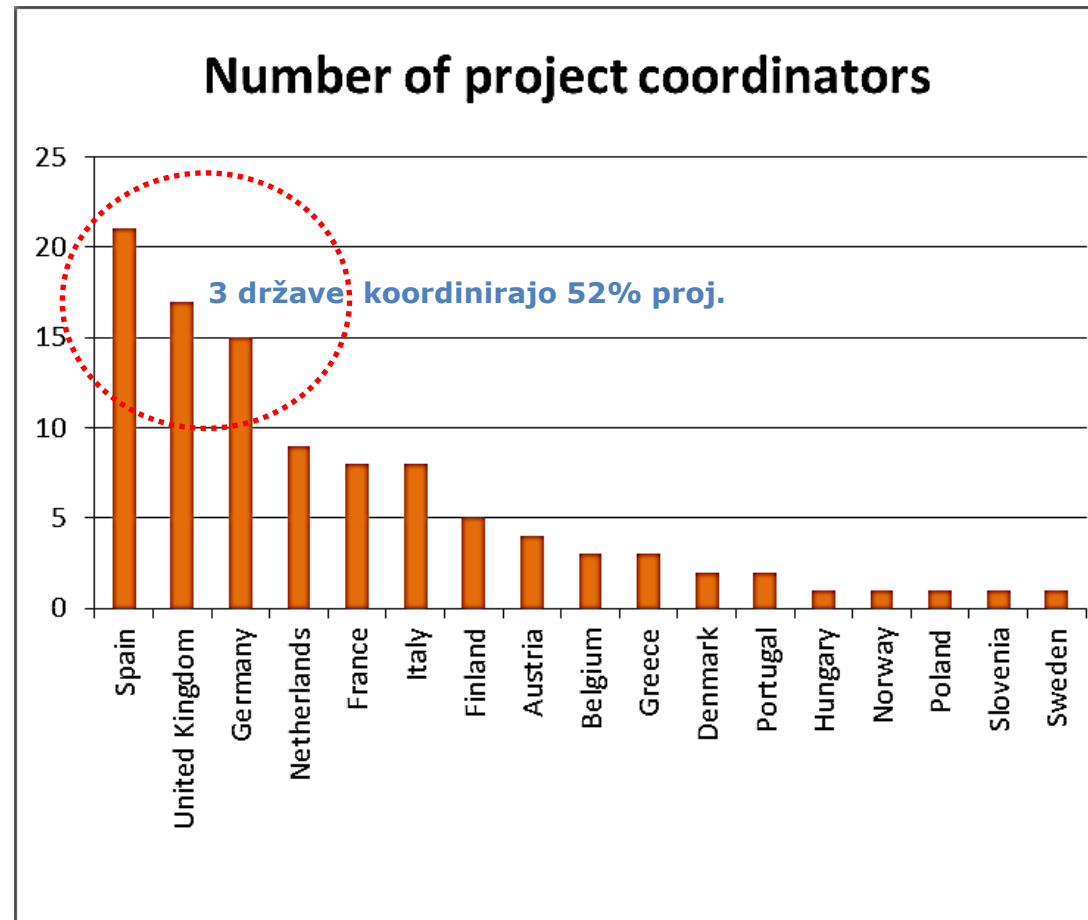
- Ukrajina: PČ od 17.8.2015
  - 4 udeležbe v SC5 izbranih proj.  
(skupen prispevek EK 1,1 mio €)
- Udeležba PČ:
  - ~ 4.5% udeležba
  - ~ 4.1% EU funding





## Izvor projektnih koordinatorjev

- 53 organizacij iz 3 EU držav koordinirajo 52% od 102 izbranih projektov
- Koordinatorji prihajajo iz 17 različnih organizacij iz različnih držav
- 1 projekt koordinira organizacija iz PČ





# Pregled koordinatorjev projektov:

9ES 2x	CENTRO DE INVESTIGACION ECOLOGICA Y APLICACIONES FORESTALES , BCN
ES	MINISTERIO DE ECONOMIA Y COMPETITIVIDAD
ES	AYUNTAMIENTO DE BILBAO
ES	FUNDACION TECNALIA RESEARCH & INNOVATION
ES	UNIVERSITAT POLITECNICA DE CATALUNYA
ES	FUNDACIO CTM CENTRE TECNOLOGIC
ES	FUNDACIO PRIVADA BARCELONA DIGITAL CENTRE TECNOLOGIC
ES	INSTITUTO ANDALUZ DE TECNOLOGIA.
5DE	FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV
DE	ZENTRUM FUER EUROPAEISCHE WIRTSCHAFTSFORSCHUNG GmbH
DE	CHRISTIAN-ALBRECHTS-UNIVERSITAET ZU KIEL
DE	FORSCHUNGSZENTRUM JULICH GMBH
DE	UMWELTBUNDESAMT
4UK	WARDELL ARMSTRONG LLP
UK	UNIVERSITY OF BATH
UK	TWI LIMITED
UK	BMT GROUP LTD
3NL	TECHNISCHE UNIVERSITEIT DELFT
NL	PNO CONSULTANTS BV
NL	STICHTING KATHOLIEKE UNIVERSITEIT
3IT	CONSORZIO REMEDIA
IT	UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA
IT	SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO SANT'ANNA
2AT	GUENTER TIESS
AT	UNIVERSITAET FUER BODENKULTUR WIEN
2FR	FEDERATION EUROPEENNE DES GEOLOGUES
FR	FONDATION FRANCAISE POUR LA RECHERCHE SUR LA BIODIVERSITE
1BE	WASTE OF ELECTRICAL AND ELECTRONICAL EQUIPMENT FORUM AISBL
1PL	KGHM POLSKA MIEDZ SA

Tipičen sofinanciran  
projekt 5. družbenega  
izziva po tipu  
projekta:

	CSA	RIA	IA	SMEInst	ERA-NET
št. partnerjev	15	17	13	2	31
št. držav	10	9	6	1	18
trajanje (mesec)	36	45	38	24	60
vrednost (M€)	2'01	7'92	5'99	1'93	44'89
prispevek EK (M€)	1'97	7'75	4'96	12'74 ↔	1'49
vodilni partner	ES	UK	ES	FR	ES,FI,UK



# Uspešnost SI

število prijaviteljev	Izbrani prijavitelji	Zahtevani znesek sofinanciranja s strani EU	Višina sofinanciranja s strani EU
-----------------------	----------------------	---	-----------------------------------

Health, demographic change and wellbeing	105	14	13 %	76957926	2545858	3 %
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy	50	10	20 %	26811649	1196017	4 %
Secure, clean and efficient energy	194	16	8 %	43099154	2738007	6 %
Smart, green and integrated transport	102	16	16 %	28492520	4695780	16 %
Climat						
Europe in a more inclusive, innovative and reflective societies	65	6	9 %	15185624	1141036	8 %
Secure societies - protecting freedom and security of Europe and its citizens	64	4	6 %	17635901	1181531	7 %
Societal Challenges - Cross-theme						
<b>Total: Societal Challenges</b>	<b>642</b>	<b>79</b>	<b>12 %</b>	<b>219757272</b>	<b>15811454</b>	<b>7 %</b>



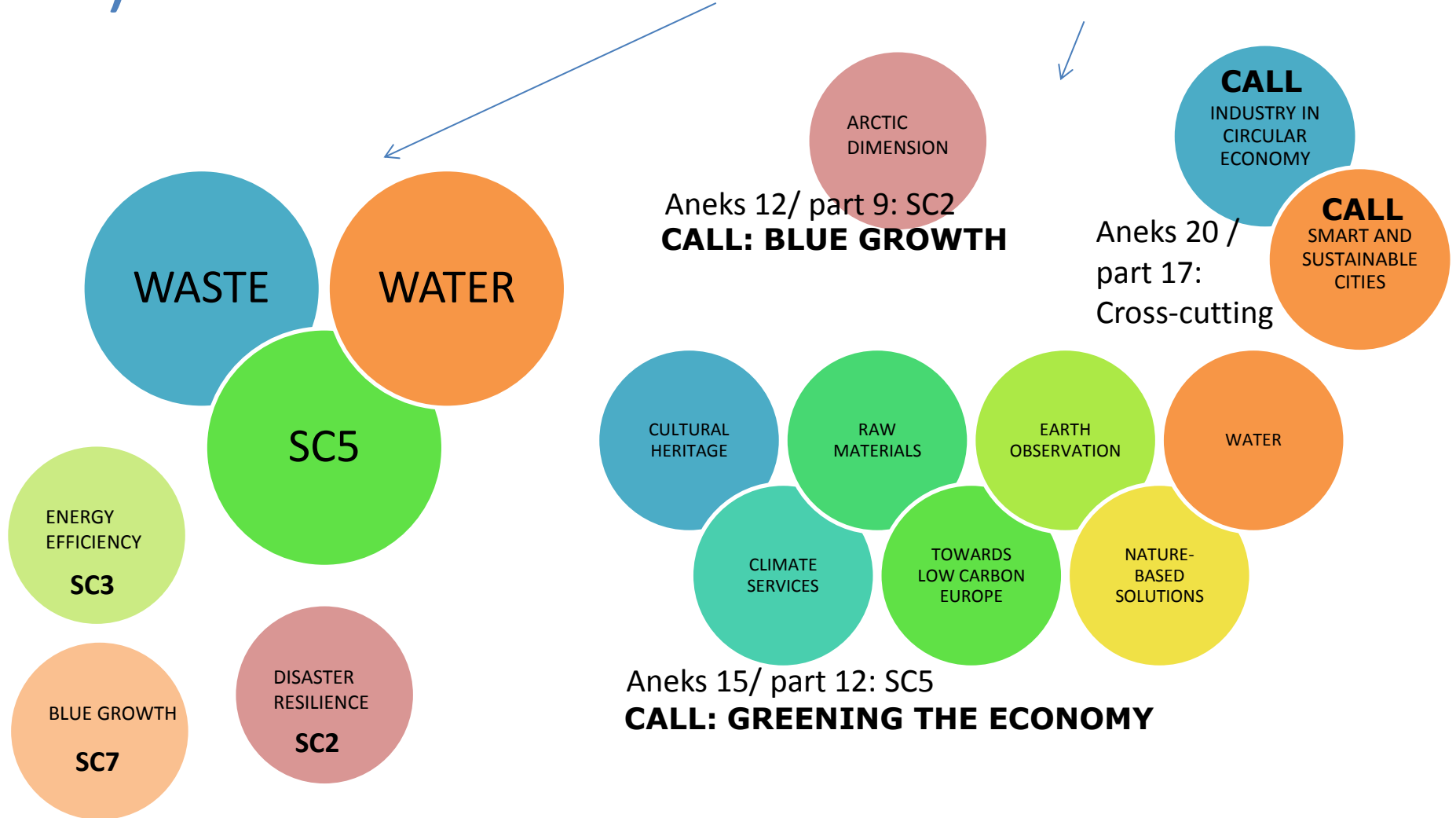
Priority Area	Signed grant agreements with at least one participant in the selection	Participations in the selection	All participations in grant agreements	Project cost in grant agreements (euro)	Project cost for all participations in selection (euro)	EU financial contribution to grant agreements (euro)	EU financial contribution to all participations in the selection (euro)
Climate action, environment, resource efficiency and raw materials		<a href="#">10</a>	<a href="#">13</a>	140	27.227.552	2.985.388	25.127.230

**H2020 Project Participants // SI - Slovenia**  
**EU.3.5. - Climate action, environment, resource efficiency and raw materials**

All Funding Schemes						
Project Number	Acronym	Organisation Legal Name	NUTS	Activity Type	SME	Participant EU Financial Contribution (euro)
<a href="#">641999</a>	ProSUM	<a href="#">GEOLOSKI ZAVOD SLOVENIJE</a>	SI021	REC		49.525
<a href="#">642025</a>	NCPs CaRE	<a href="#">Ministrstvo za izobraževanje, znanost in sport</a>	SI021	PUB	N	57.875
<a href="#">642130</a>	INTRAW	<a href="#">GEOLOSKI ZAVOD SLOVENIJE</a>	SI021	REC		76.100
<a href="#">642139</a>	MINATURA 2020	<a href="#">ZAVOD ISKRIVA, ISKRISCE ZA RAZVOJ LOKALNIH POTENCIALOV</a>	SI022	OTH	Y	116.250
<a href="#">642139</a>	MINATURA 2020	<a href="#">DRUSTVO TEHNICNIH VODIJ - POVRSINSKO ODKOPAVANJE</a>	SI021	OTH		39.125
<a href="#">642139</a>	MINATURA 2020	<a href="#">GEOLOSKI ZAVOD SLOVENIJE</a>	SI021	REC		146.250
<a href="#">642224</a>	FREEWAT	<a href="#">INSTITUT ZA EKOLOSKI INZENIRING DOO</a>	SI012	PRC	Y	66.625
<a href="#">642372</a>	INSPIRATION	<a href="#">URBANISTICNI INSTITUT REPUBLIKE SLOVENIJE</a>	SI021	REC	N	55.750
<a href="#">642477</a>	VAMOS	<a href="#">GEOLOSKI ZAVOD SLOVENIJE</a>	SI021	REC		77.342
<a href="#">663742</a>	WHEY2VALUE	<a href="#">ACIES BIO BIOTEHNOLOSKE RAZISKAVE IN RAZVOJ DOO</a>	SI021	PRC	Y	50.000
<a href="#">666206</a>	WINTHERWAX	<a href="#">SILVAPRODUKT PODJETJE ZA PROIZVODNJO IN PRODAJO SREDSTEV ZA ZASCITO MATERIALOV</a>	SI021	PRC	Y	298.246
<a href="#">666206</a>	WINTHERWAX	<a href="#">M SORA TRGOVINA IN PROIZVODNJA DD</a>	SI022	PRC	Y	996.834
<a href="#">666425</a>	ECO-SILENTWOOD	<a href="#">MELU, mizarstvo, d.o.o.</a>	SI014	PRC	Y	265.301
<b>Total:</b>			13 Participations			2.295.223



# 3) Struktura DP 2014-2015 vs. 2016-2017

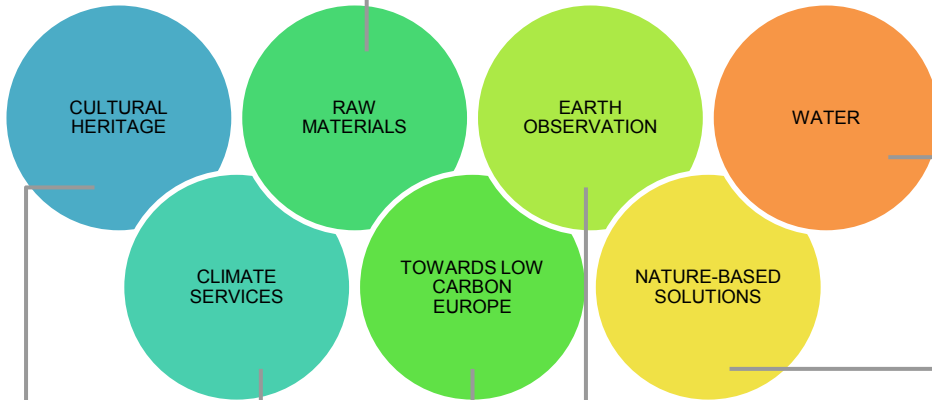




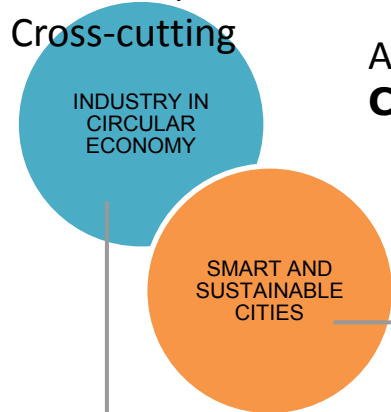


Aneks 12 / SC5

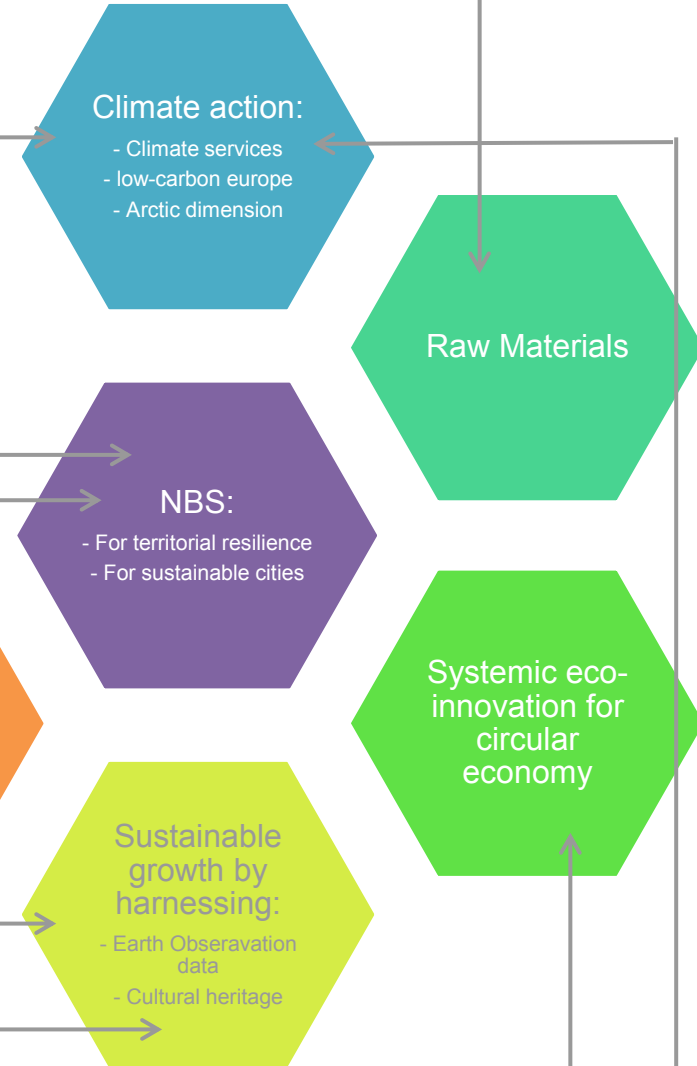
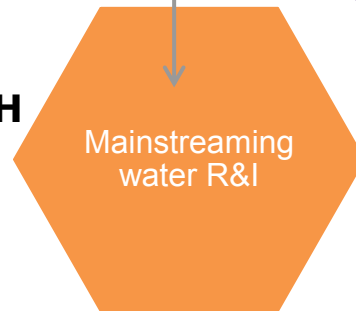
**CALL: GREENING THE ECONOMY**



Aneks 17 /  
 Cross-cutting



Aneks 9 / SC2  
**CALL: BLUE GROWTH**

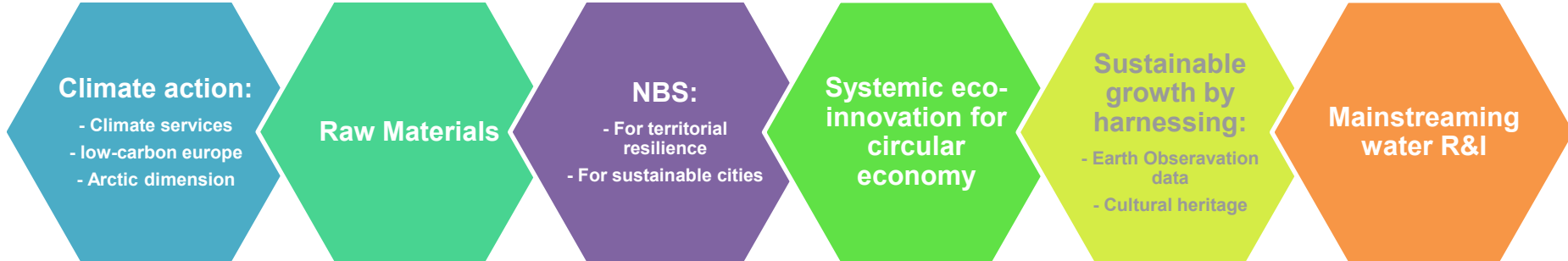




# 4 Tematski sklopi v DP 2016-2017 ter relevantni dokumenti in iniciative



# 4 Tematski sklopi v DP 2016-2017 ter relevantni dokumenti in iniciative





**CLIMATE ACTION:**  
 - Climate services  
 - Low-carbon Europe  
 - Arctic dimension

<b>Climate services (CS)</b>		
<b>SC5-01 - Exploiting the added value of CS</b>		
<b>SC5-01a-2016</b>	Demonstration of CS	<b>IA</b>
SC5-01b-2017	From CS concepts to piloting and proof-of-concept	RIA
SC5-02-2017	Integrated European regional modelling and climate prediction system	RIA
<b>SC5-03 - CSs climate research</b>		
<b>SC5-03a-2016 ALI</b>	Defining the EU and int'l CS market charact. and foresight into market growth	RIA
<b>SC5-03b-2016</b>	CS market barriers and enabling conditions	RIA
SC5-04-2017	Towards a robust and comprehensive greenhouse gas verification system	RIA
<b>SC5-05-2016</b>	A 1.5 million year look into the past for improving climate predictions	CSA
<b>Towards a low-carbon Europe</b>		
<b>SC5-06 - Pathways towards the decarbonisation and resilience of the European economy in the timeframe 2030-2050</b>		
<b>SC5-06a-2016 ALI</b>	Managing technology transition	RIA
<b>SC5-06b-2016</b>	Assessment of the global mitigation efforts in the perspective of the long-term climate goal	RIA
SC5-06c-2017	The risks and costs of climate change for Europe	RIA
SC5-07-2017	Coordinating and supporting research and innovation actions on the decarbonisation	CSA
<b>CALL - BLUE GROWTH - THE ARCTIC DIMENSION</b>		
<b>BG-9-2016</b>	An integrated Arctic observing system	RIA
<b>BG-10-2016</b>	Impact of Arctic changes on the weather and climate of the Northern Hemisphere	RIA
BG-11-2017	Climate impacts on Arctic permafrost, with a focus on coastal areas, and its socio-economic impact	RIA



CLIMATE ACTION:

- Climate services
- Low-carbon Europe
- Arctic dimension

SC5-01a-2016

SC5-01b-2017

SC5-02-2017

SC5-03-2016

SC5-04-2017

SC5-05-2016

SC5-06a,b-2016

SC5-06c-2017

SC5-07-2017

## Climate services and Towards a low-carbon Europe

- **Topics in call 'Greening the Economy'**
- **Total indicative budget for these topics\* in 2016: €40M**
- **Topics open: 10 Nov. 2015**
- **First deadline: 8 March 2016**



### Climate services

[Roadmap 2050](#)

[EU Strategy on adaptation to climate change](#)

[IPCC's 5th Assessment Report](#)

### Towards a low-carbon Europe

[Roadmap 2050](#)

[Horizon 2020 Expert Group on nature-based solutions](#)

[IPCC's 5th Assessment Report](#)



CLIMATE ACTION:

- Climate services
- Low-carbon Europe
- Arctic dimension

Aneks 12 // SC2

BG-09-2016

BG-10-2016

BG-11-2017

## The Arctic Dimension



- **Topics in call 'Blue Growth – demonstrating an ocean of opportunities'**
- **Total indicative budget for these topics in 2016: €30M**
- **Topics open: 27 Oct. 2015**
- **First deadline: 17 February 2016**

### Arctic Dimension

[Transatlantic Ocean Research Alliance](#)

[Sustaining Arctic Observation Networks \(SAON\)](#)





## Raw Materials

<b>Raw materials</b>		
<b>SC5-13 - New solutions for sustainable production of raw materials</b>		
<b>SC5-13a-2016 ALI</b>	Sustainable selective low impact mining	RIA
<b>SC5-13b-2016</b>	New technologies for the enhanced recovery of by-products	RIA
SC5-13c-2017	New sensitive exploration technologies	RIA
<b>SC5-14 - Raw materials Innovation actions</b>		
<b>SC5-14a-2016</b>	Intelligent mining on land	IA
SC5-14b-2017 ALI	Processing of lower grade and/or complex primary and/or secondary raw materials in the most sustainable ways	IA
SC5-14c-2017	Sustainable metallurgical processes	IA
<b>SC5-15 - Raw materials policy support actions</b>		
<b>SC5-15a-2016</b>	Expert network on Critical Raw Materials	CSA
SC5-15b-2017	Good practice in waste collection systems	CSA
SC5-15c-2017	Optimising collection of raw materials data in Member States (	CSA
SC5-15d-2017	Linking land use planning policies to national mineral policies	CSA
SC5-15e-2017	EU network of mining and metallurgy regions	CSA
SC5-15f-2017	EU network of regions on sustainable wood mobilisation (wood supply)	CSA
<b>SC5-16 - Raw materials int'l co-operation</b>		
<b>SC5-16a-2016</b>	Demand-supply forecast and raw materials flows at global level	CSA
<b>SC5-16b-2016</b>	Advancing the idea of a World Forum on Raw Materials	CSA
SC5-16c-2017	International network of raw materials training centres	CSA
<b>SC5-17-2016</b>	ERA-NET Cofund on Raw materials	ERA-NET Co-



## Raw Materials

SC5-13a,b-2016

SC5-13c-2017

SC5-14a-2016

SC5-14b,c-2017

SC5-15a-2016

SC5-15b-f-2017

SC5-16a,b-2016

SC5-16c-2017

SC5-17-2016

## Raw materials



- **Topics in call 'Greening the Economy'**
- **Total indicative budget for these topics in 2016: €64M**
- **Topics open: 10 Nov. 2015**
- **First deadline: 8 March 2016**

### Raw materials

[Strategic Implementation Plan of the European Innovation Partnership \(EIP\) on Raw Materials](#)



## **NATURE-BASED SOLUTIONS:**

- For territorial resilience
- For sustainable cities



## NATURE-BASED SOLUTIONS:

- For territorial resilience
- For sustainable cities

## ANNEX 1: DEFINITION OF NATURE-BASED SOLUTIONS

Nature-based solutions aim to help societies address a variety of environmental, social and economic challenges in sustainable ways. They are actions inspired by, supported by or copied

### Nature-based solutions – what are they?<sup>1</sup>

Nature-based solutions aim to help societies address a variety of environmental, social and economic challenges in sustainable ways. They are actions which are inspired by, supported by or copied from nature. Some involve using and enhancing existing natural solutions to challenges, while others are exploring more novel solutions, for example mimicking how non-human organisms and communities cope with environmental extremes. Nature-based solutions use the features and complex system processes of nature, such as its ability to store carbon and regulate water flow, in order to achieve desired outcomes, such as reduced disaster risk, improved human well-being and socially inclusive green growth. Maintaining and enhancing natural capital, therefore, is of crucial importance, as it forms the basis for implementing solutions. These nature-based solutions ideally are energy and resource-efficient, and resilient to change, but to be successful they must be adapted to local conditions.

ecosystems, including human actions and their consequences. Nature-based solutions, however, have a distinctive set of premises: (i) some societal challenges stem from human activities that have failed to recognize ecological limitations; (ii) sustainable alternatives to those activities can be found by looking to nature for design and process knowledge. They therefore involve the innovative application of knowledge about nature, inspired and supported by nature, and they maintain and enhance natural capital. They are positive responses to societal challenges, and can have the potential to simultaneously meet environmental, social and economic objectives.

There has been much debate over the components of nature-based solutions and, within the current EU framework, nature-based solutions exclude methods that artificially alter nature, such as genetically modified organisms.



**NATURE-BASED  
 SOLUTIONS:**

- For territorial resilience
- For sustainable cities

<b>Nature-based solutions (NBS) for territorial resilience</b>		
SC5-08-2017	Large-scale demonstrators on NBS for hydro-meteorological risk reduction	IA
SC5-09-2016	Operationalising insurance value of ecosystems	RIA
SC5-10-2016	Multi-stakeholder dialogue platform to promote innovation with nature to add	CSA

<b>CALL-SMART AND SUSTAINABLE CITIES</b>		
<b>SCC-02 - Demonstrating innovative nature-based solutions in cities</b>		
SCC-02a-2016	Demonstrating innovative NBS for climate and water resilience in cities	IA
SCC-02b-2017	Nature-based solutions for inclusive urban regeneration	IA
SCC-03-2016	New governance, business, financing models and economic impact assessment	RIA
SCC-04-2016	Sustainable urbanisation	ERA NET Co-f



## NATURE-BASED SOLUTIONS:

- For territorial resilience
- For sustainable cities

SCC-02a-2016

SCC-02b-2017

SCC-03-2016

SCC-04-2016

SC5-08-2017

SC5-09-2016

SC5-10-2016

## Nature-based solutions - calls



➤ **Topics on Sustainable cities through nature-based solutions are in cross-cutting call 'Smart and Sustainable Cities'**

**Total indicative budget in 2016: €60M**

➤ **Topics on Nature-based solutions for territorial resilience in call 'Greening the Economy'**

**Total indicative budget in 2016: €8M**

### Nature-based solutions for territorial resilience

[EU Strategy on adaptation to climate change, COM \(2013\)](#)

[EU-wide strategy on Green Infrastructure: Enhancing Europe's Natural Capital, COM\(2013\)](#)

[Sendai Framework for Disaster Risk Reduction 2015-2030](#)

[EIP Water](#)

[Nature-based solutions & re-naturing cities](#)



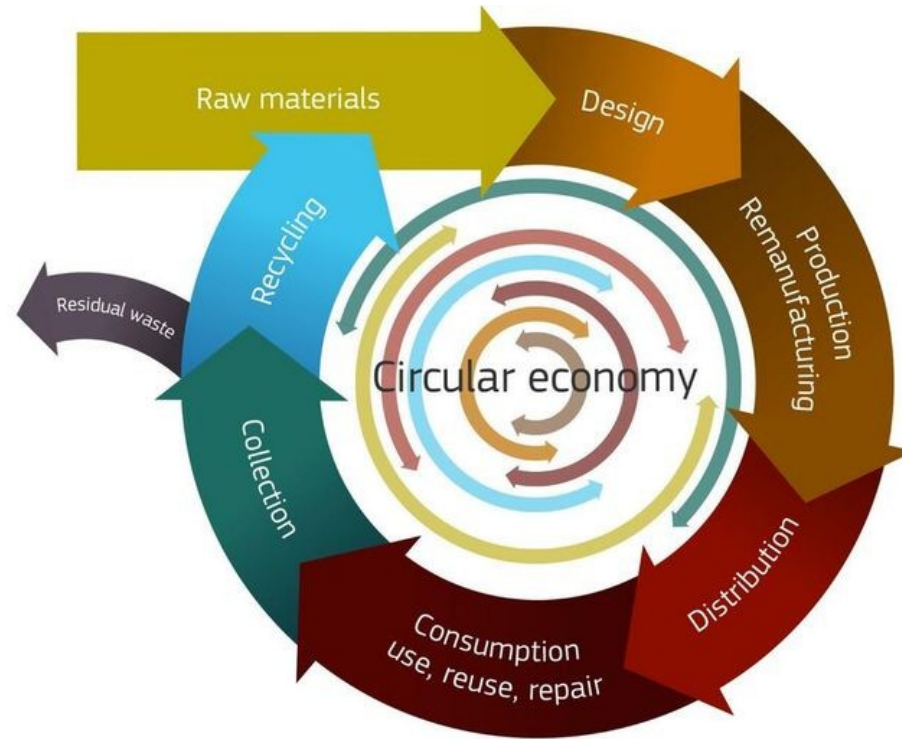
Systemic eco-  
innovation for  
circular economy

CALL-INDUSTRY IN CIRCULAR ECONOMY		
<b>CIRC-01 - Systemic, eco-innovative approaches for the CE: large-scale demonstration projects</b>		
<b>CIRC-01a-2016</b>	Design for circular value and supply chains	<b>IA</b>
CIRC-01b-2017	Systemic services for the circular economy	<b>IA</b>
<b>CIRC-02 - Water in the context of the circular economy</b>		
<b>CIRC-02a-2016</b>	Demonstrating the potential of efficient nutrient recovery from water	<b>IA</b>
CIRC-02b-2017	Towards the next generation of water systems and services– large scale demonstration projects	<b>IA</b>
<b>CIRC-03-2016</b>	Smart Specialisation for systemic eco-innovation/circular economy	<b>CSA</b>
<b>CIRC-04-2016</b>	New models and economic incentives for circular economy business	<b>RIA</b>





Systemic eco-innovation for circular economy



**Vs**

Linear economy







Systemic eco-  
innovation for  
circular economy

CIRC-01a-2106

CIRC-01b-2017

CIRC-02a-2016

CIRC-02b-2017

CIRC-03-2016

CIRC-04-2016

## ...a new Focus Area: Industry 2020 in the Circular Economy Cross-cutting call



### Where you can find it?

- ✓ Horizon 2020 - Cross-cutting activities (Focus Areas)
  - General introduction
  - Circular Economy section

### What is inside?

- ✓ Description of **Systemic Eco-innovation**
- ✓ Topics for SC5 in 2016 – total budget 84.5 M€
- ✓ Topic descriptions
- ✓ Topics open: 10 Nov. 2015
- ✓ First deadline: 8 March 2016

Systemic eco-innovation for circular economy  
[Report: Systemic approach to eco-innovation](#)



**Sustainable  
growth by  
harnessing:**

- Earth observation data
- Cultural heritage

<b>Earth Observation</b>		
SC5-18-2017	Novel in-situ observation systems	RIA
SC5-19-2017	Coordination of citizens' observatories initiatives	CSA
<b>SC5-20-2016</b>	European data hub of the GEOSS information system	RIA

<b>Cultural heritage for sustainable growth</b>		
<b>SC5-21 - Cultural Heritage as a driver for sustainable growth</b>		
<b>SC5-21a-2016</b>	Heritage-led URBAN regeneration	<b>IA</b>
SC5-21b-2017	Heritage-led RURALn regeneration	<b>IA</b>
<b>SC5-22-2017</b>	Innovative financing business and governance models for adaptive re-use of cu	RIA



**Sustainable  
growth by  
harnessing:**

- Earth observation data
- Cultural heritage

SC5-21a-2016

SC5-21b-2017

SC5-22-2017

## Cultural heritage for sustainable growth

- **Topics in call 'Greening the Economy'**
- **Total indicative budget for this topic in 2016: €10M**
- **Topic opens: 10 Nov. 2015**
- **First deadline: 8 March 2016**



Cultural heritage for sustainable growth  
[Horizon 2020 Expert Group on Cultural Heritage](#)



Sustainable  
growth by  
harnessing:

- Earth observation data
- Cultural heritage

SC5-18-2017

SC5-19-2017

SC5-20-2016

## Earth observation

- **Topics in call 'Greening the Economy'**  
(and in 2017 in call 'Sustainable Food Security – Resilient and resource-efficient value chains')
- **Total indicative budget for this topic in 2016: €10M**
- **Topic opens: 10 Nov. 2015**
- **First deadline: 8 March 2016**



Earth Observation  
contributuion to GEOSS



Mainstreaming  
water R&I

Water		
SC5-11-2016	Supporting international cooperation activities on water	CSA
SC5-12-2016	Food systems and water resources for the development of inclusive sustainable	CSA



Mainstreaming  
water R&I

SC5-11-2016

SC5-12-2016

## Water

- Topics in call 'Greening the Economy'
- Total indicative budget for these topics in 2016: €4M
- Topic SC5-11-2016:
  - opens 10 Nov. 2015
  - deadline 8 March 2016



## Water

[European Innovation Partnership \(EIP\) on Water](#)  
[Joint Programming Initiative on Water](#)



# 5 Nasveti

- ODPRT razpis za eksperte

<http://ec.europa.eu/easme/en/call-experts-climate-action-environment-resources-management>

- SELF-EVALUATION FORM (RIA, IA, CSA)

[http://ec.europa.eu/research/participants/data/ref/h2020/call\\_ptef/ef/h2020-call-ef-ria-ia-csa\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/ef/h2020-call-ef-ria-ia-csa_en.pdf)

- Preoblikovan PARTICIPANT PORTAL

- IMPACT !!!



- SPREMEMBE ANEKSOV (A-K)

- A. Seznam držav upravičenih za (so)financiranje – pridružene članice:

- dodana: Ukrajina

- B. Standardni pogoji predlogov:

- Osnutek načrta rabe in diseminacije rezultatov je obvezen pri končni oddaji predloga
    - omejitev števila strani ‚full proposal‘ (70, 50, 10 strani)

- F. Evalvacija

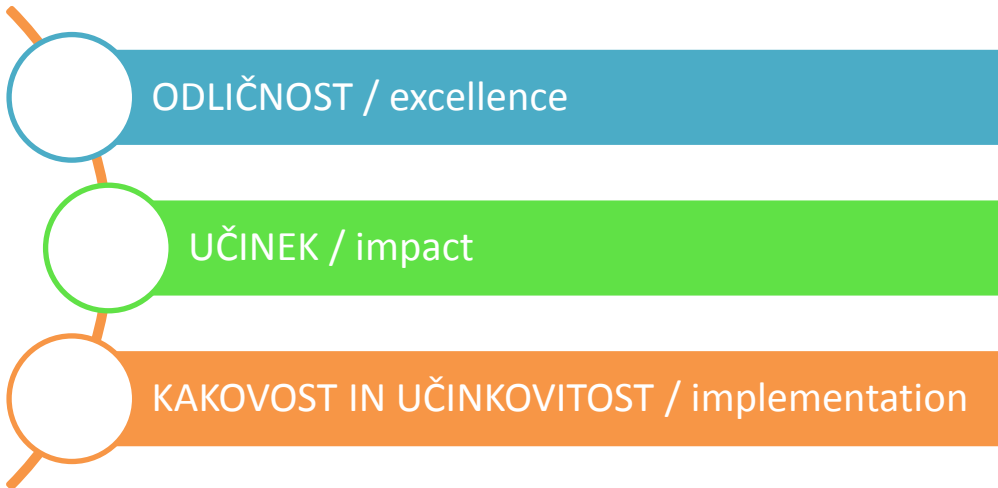
- Podrobnejša razlaga "aspects to be taken into account", pri vsakem merilu:
      - Excellence – refer to "inter-disciplinarity" and cross-sector/stakeholder involvement as appropriate
      - Impact – streamlined wording; emphasising more the impact statement in the work-programme topics
      - Implementation – each partner should have important role, and resources to match; clarifying that over-inflated work-packages penalised
    - „Dynamic threshold“ za prvo-fazo pri dvo-faznih razpisih

- G. Zaupni podatki

- Novi priročnik: Guidelines for the classification of research results (23.2.2015)



- Ocenjevanje predlogov / 3 merila:

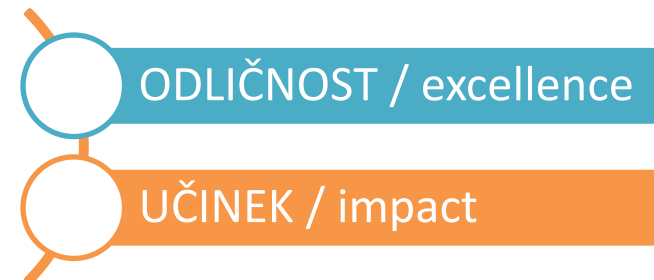


- 0 - proposal fails to address the criterion
- 1 - poor
- 2 - fair
- 3 - good
- 4 - very good
- 5 - excellent

- Vsako od 3 meril max 5T (15T max)
- Točkovanje 0-5T, tudi 0'5T
- Threshold pri posameznem merilu je 3/5T, overall (vsota 3 meril) 10/15

Za **two-stage** sheme:

- Za 1st stage se ocenjujeta merili
- Threshold za posamezno merilo 4/5T
- Weight merila *Učinek* je 1,5



- KAJ JE POMEMBNO PRI POSAMEZNMERILU

## ODLIČNOST / excellence

- potrebno predstaviti realističen načrt izvedbe projekta, z jasnimi cilji
- hkrati biti dovolj ambiciozen in inovativen
- evalvator mora razumeti predlog projekta po prvem branju
- opisati je potrebno ,plan B' (risk management)





## UČINEK / impact

- **pričakovani učinek opisan pri posamezni temi v delovnem programu**
  - opisati kako bo vaš projekt dosegel pričakovani učinek
  - opisati tudi gospodarski vpliv (več evalvatorjev iz poslovnega sektorja)
  - opisati tudi družbeni in okoljski vpliv (vsak rezultat projekta na nekaj vpliva!)
  - opisati korake, ki bodo potrebni za doseg tega učinka
  - opisati zakaj je za ta projekt potreben evropski pristop (ne samo nacionalni ali lokalni)
  - opisati predpostavke in zunanje dejavnike, ki lahko vplivajo na to, ali bo učinek dosežena ali ne
  - poslovni načrt (ni obvezen, a priporočajo za IA)
  - opisati kako se lahko/se bodo rezultati uporabili za – nove inovacije, - na trgu



## KAKOVOST IN UČINKOVITOST / implementation

Problem + state of the art  
(call for proposal)

**Innovation!**  
**Beyond the state of the art**

Objectives

Work Packages (WP)

- Broken down in *Tasks (T)*
- With designated WP and T leaders

Deliverables

Milestones &  
Contingency plan

**Risk analysis**

Impact of the project  
Commercialization

**Exploitation  
plan**



- Enostranski predlog projekta
- **Acknowledgments: Hyperion – Sean Mc Carthy**
- Topic
- Title (Slogan) + Acronym (Brand name)
- Objective: What you are planning to do
- Background: Why you are doing it (5 key questions)
- Impact: Results + Target groups (who wants them)
- Science: How the work will be done
- Consortium: Who will do the work
- Cost & duration: How much + How long



- 5 ključnih vprašanj
- **Acknowledgments: Hyperion – Sean Mc Carthy**
- Why bother?
  - What new knowledge are you generating?
  - What problem are you trying to solve?
- Is it of EU relevance?
  - Could it be solved at national level?
  - Will this establish Europe as international leader?
- Is the knowledge / solution already available?
  - State of the art
- Why now?
- Why you? Are you the best people to do the job?
- <https://www.youtube.com/watch?v=Men8eSNzxo8>

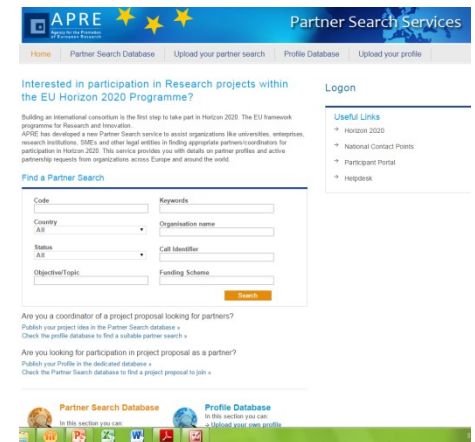
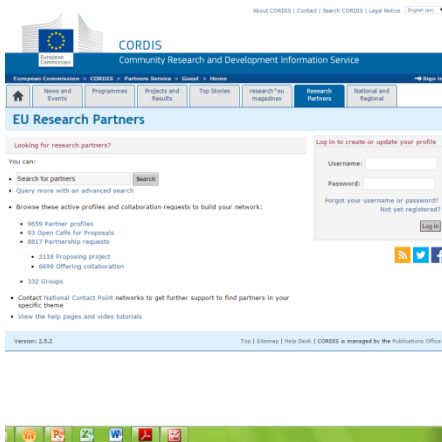


- 8 najpogostejših napak
  - predlog projekta je težko berljiv in dolgočasen
  - nejasen in preveč znanstveni žargon
  - premalo podatkov, da bi se razumelo ključne vidike projekta
  - nejasen, konfuzen work plan, s premalo detajli
  - nejasen opis stanja tehničnega razvoja („state of the art“)
  - slabo opredeljeni in utemeljeni človeški viri
  - nezadostne podrobnosti o potencialnem vplivu
  - pomanjkanje dokazov, ki bi podprli zapisane trditve



- Iskanje partnerjev

<p><b>CORDIS</b></p>	<p><a href="https://cordis.europa.eu/partners/web/guest">https://cordis.europa.eu/partners/web/guest</a></p>
<p>Nemško Zvezno ministrstvo za izobraževanje in raziskave (BBF)</p>	<p><a href="https://www.nks-umwelt.de/index.php?index=167">https://www.nks-umwelt.de/index.php?index=167</a></p>
<p>Italijanska Agencija za promocijo evropskih raziskav (APRE)</p>	<p><a href="http://partnersearch.apre.it/">http://partnersearch.apre.it/</a></p>







# Koristne povezave

- MIZŠ - Obzorje 2020: <http://www.mizs.gov.si/si/obzorje2020>
- Participant Portal: <http://goo.gl/JH9Htb>
- ERA Portal – AUSTRIA: <http://era.gv.at/>
- NCPs CaRE: <http://www.ncps-care.eu>
- Pregled z SC5 povezanih iniciativ: <https://goo.gl/6QPZYY>

**Nacionalna kontaktna oseba**  
**Petra Žagar**

# NCP mrežo tvorijo predstavniki



REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA GOSPODARSKI  
RAZVOJ IN TEHNOLOGIJO



REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA INFRASTRUKTURO



REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA IZOBRAŽEVANJE,  
ZNANOST IN ŠPORT



REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA OKOLJE IN PROSTOR