



REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA IZOBRAŽEVANJE,  
ZNANOST IN ŠPORT



# Obzorje 2020 - 5. družbeni izziv:

Podnebni ukrepi, okolje, učinkovita raba  
virov in surovine **in drugi ukrepi**

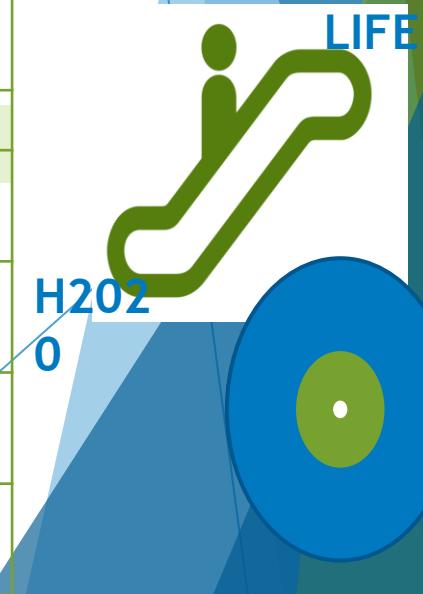
Petra Žagar, Sektor za znanost

Ljubljana, 12. december 2018



# LIFE H2020

Eligible	Entities in EU Member states only	Entities in EU + assoc and third countries
Nr. partners	No minimum, anyone can apply	Min. 3 in different countries
Funding	60 % (50% after 2018)	100% / 70 %
Eligible overhead	Max. 7 %	25 %
Eligible equipment costs	Depreciation during project but max 50% of actual costs (per item)	Depreciation during project
Typical funding	1- 3 mln	3 - 7 mln
Nr. calls	1 call / year (in subprogrammes)	Many specific calls <b>RESEARCH</b>
Type of project	Not and demo / <b>RESEARC</b>	From to demonstration
Focus	Environment & Climate	Several themes / challenges
Time to Grant	10 months (incl. a revision phase)	8 months (no revision phase)





# Sodelovanje v Obzorju 2020:

- a) Register strokovnjakov/  
ocenjevalcev
- b) Razpisi/ projektni predlogi



## a) Register strokovnjakov/ocenjevalcev

- ▶ PARTICIPANTS PORTAL bo nadomestil  
Single Electronic Data Interchange Area (SEDIA) oz.  
**Funding & Tenders Portal**

➡ <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>



SEARCH FUNDING &amp; TENDERS ▾

HOW TO PARTICIPATE ▾

PROJECTS &amp; RESULTS

WORK AS AN EXPERT

SUPPORT ▾

select  
programme

Feedback



The Funding & Tenders Portal is the entry point (the Single Electronic Data Interchange Area) for participants and experts in funding programmes and tenders managed by the European Commission and other EU bodies.

## Find calls for proposals and tenders

Search calls for proposals and tenders by keywords, programmes...

Search

[What are calls for proposals?](#) >[What are calls for tenders?](#) >[How to participate in 5 steps](#) >

## Calls for proposals by EU Programme

[3rd Health Programme](#)[Asylum, Migration and Integration Fund](#)[Consumer Programme](#)[Creative Europe](#)[Erasmus+ Programme](#)[European Maritime and Fisheries Fund](#)[HERCULE III](#)[Horizon 2020 Framework Programme](#)[Internal Security Fund Borders and Visa](#)[Internal Security Fund Police](#)[Justice Programme](#)[Pilot Projects and Preparatory Actions](#)[Programme for the Competitiveness of Enterprises and small and medium-sized enterprises](#)[Promotion of Agricultural Products](#)[Research Fund for Coal & Steel](#)[Rights, Equality and Citizenship Programme](#)[Union Civil Protection Mechanism](#)[Previous Framework Programs \(FP7 - CIP\)](#)[Overview of EU funding](#)



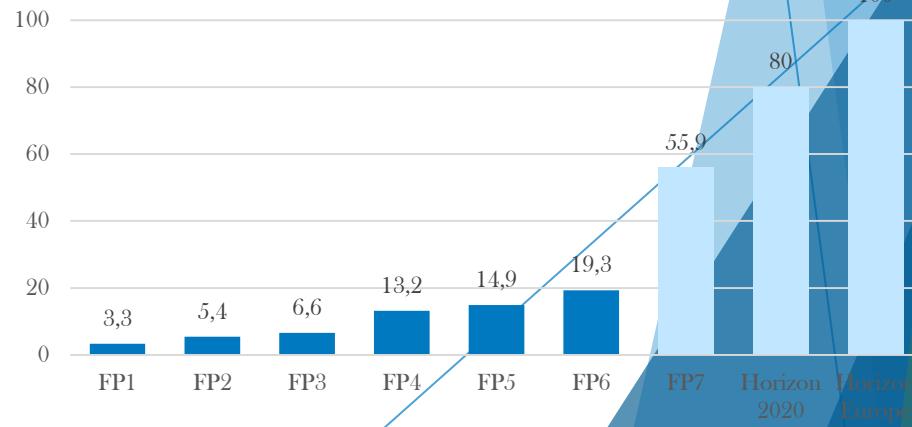
# Priporočila ključnih besed pri vpisu v bazo (za področje SC5)

-  Circular economy, systemic eco-innovation, resource efficiency
-  Climate services, climate change adaptation, climate resilience/urban resilience, low carbon pathways, decarbonisation pathways, mitigation pathways
-  Cultural heritage
-  Disaster risk management, resilient urban planning, land planning
-  Earth/ocean observation (in situ, remote sensing), polar observation systems, management of Earth observation data
-  Energy efficiency, energy recovery
-  Green infrastructure, nature-based solutions, insurance value of ecosystems (e.g. natural capital), urban/rural regeneration
-  Raw materials management, mining, forestry, processing, metallurgy, geology, mineralogy
-  Water management, industrial processes, water reuse



## b) Razpisi/ projektni predlogi

- ▶ Obzorje 2020 je 8. okvirni program EU za raziskave in inovacije
- ▶ V trajanju 2014-2020
- ▶ Z budgetom 77 mrd €
- ▶ Priložnosti iščete v delovnih programih, ki so objavljeni za 2 oz. 3 leta (2014-2015, 2016-2017, 2018-2019-2020)



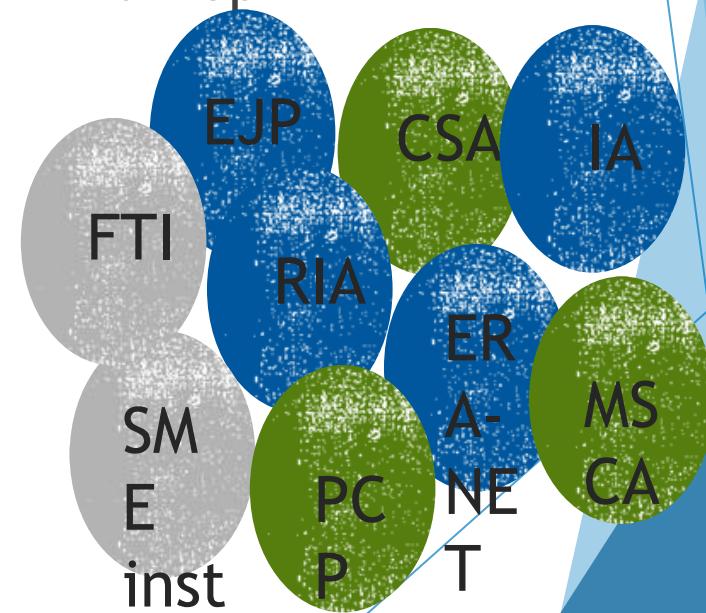


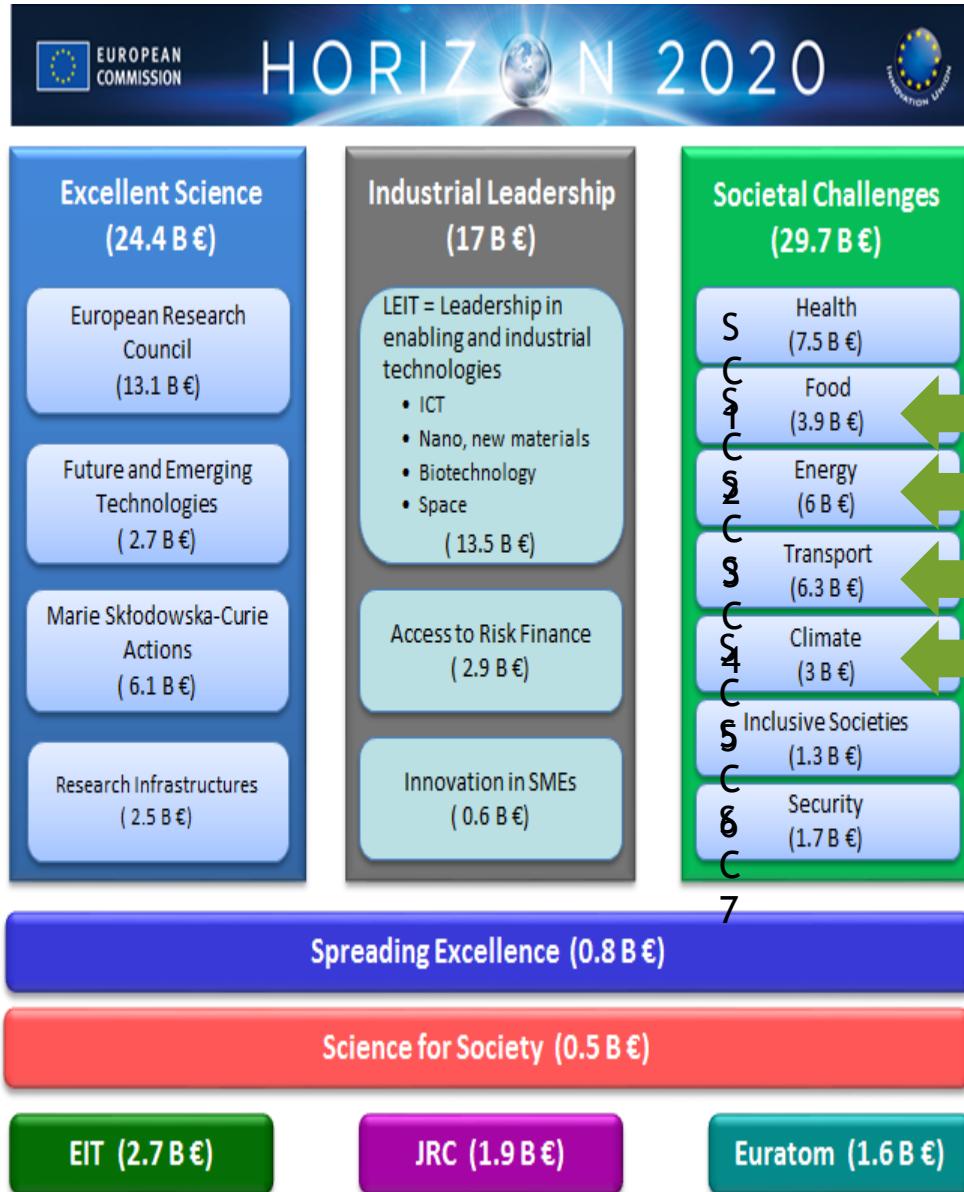
- ▶ Ustvarjen z namenom udejanjanja idej na trgu, za utiranje poti za velike zamisli iz laboratorija na trg, kar bo prineslo še več prebojev, odkritij in svetovnih novosti

3  
stebri



▶ Različni  
ukrepi





- ▶ Priložnosti za sodelovanje na področju okolja:
  - ▶ SC2: Prehranska varnost, trajnostno kmetijstvo in gozdratsvo, morske in pomorske raziskave ter raziskave celinskih voda in biogospodarstvo
  - ▶ SC3: Zanesljiva, čista in učinkovita energija
  - ▶ SC4: Pameten, okolju prijazen in integriran prevoz



# Razpisi - SC5

(razdeljena sredstva po podpisanih pogodbah 2014-2018)

vsi



3140 PARTICIPANTS



1582,48M€ ALLOCATED



541 PROJECTS  
COORDINATED

Slovenija



45 PARTICIPANTS



17,31M€ ALLOCATED



5 PROJECTS  
COORDINATED

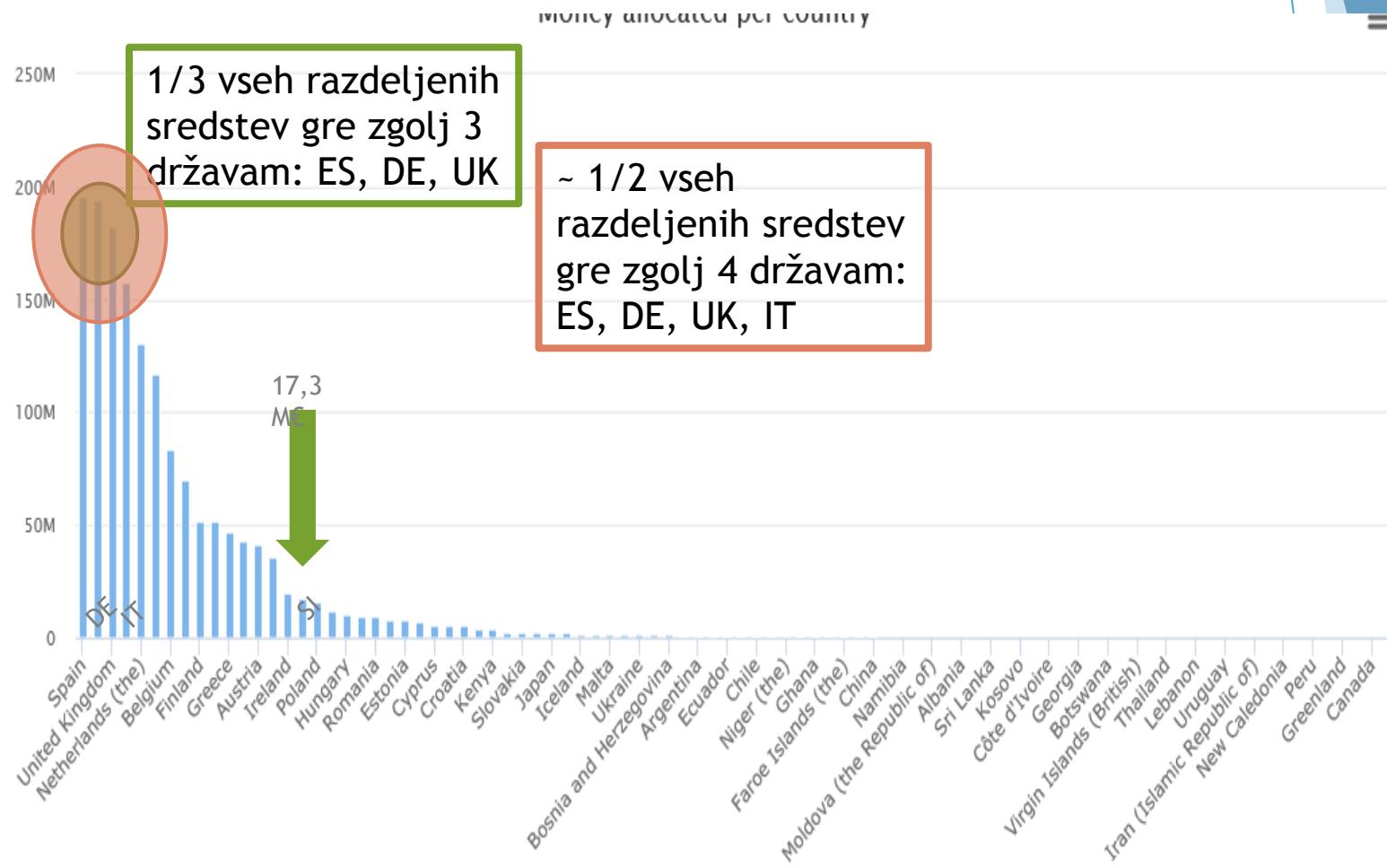
Povprečen projekt:

5'8  
udeležence  
v  
~ 3 mio €



# Razpisi - SC5

(razdeljena sredstva po podpisanih pogodbah 2014-2018)

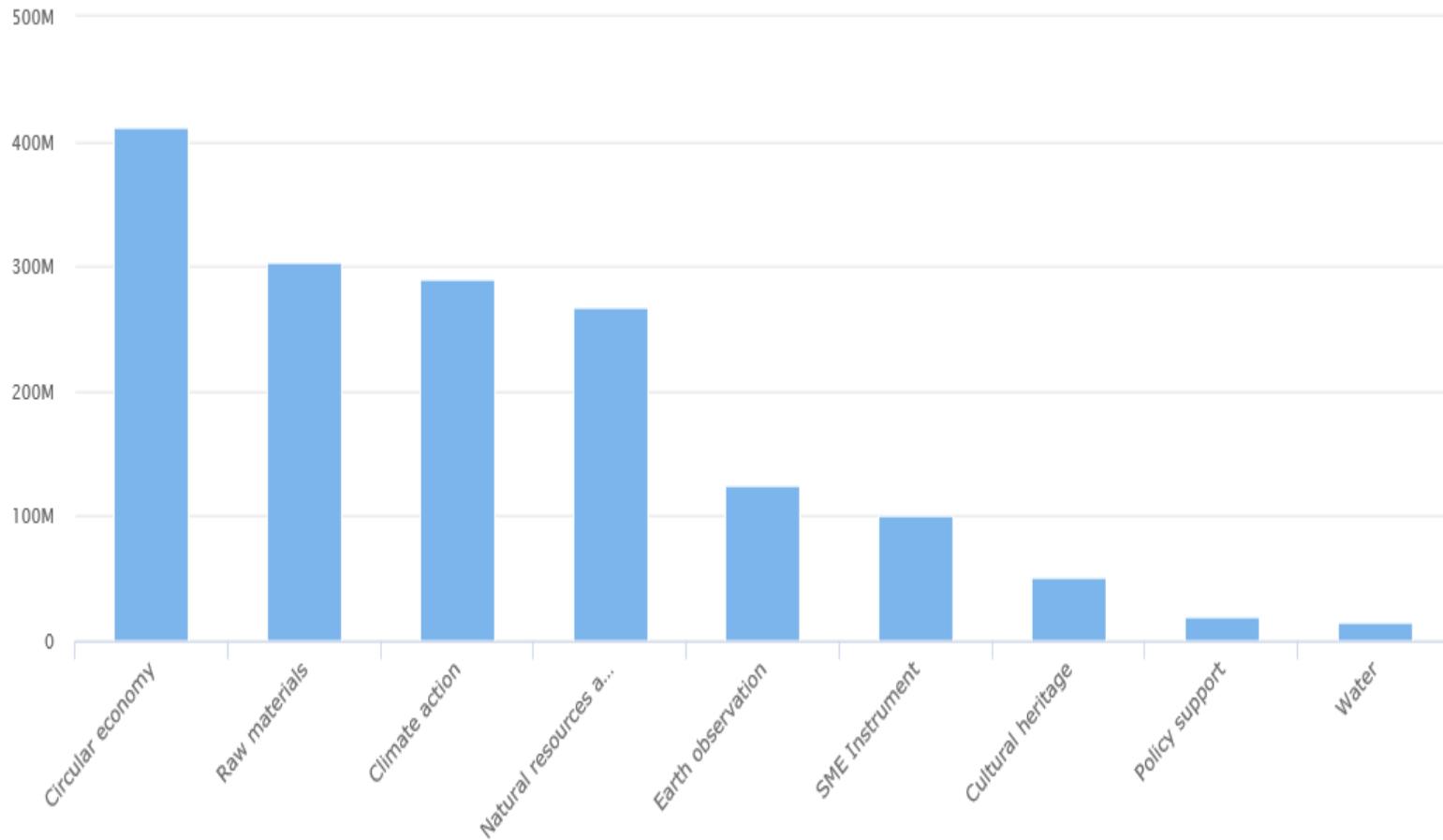




# Razpisi - SC5

(razdeljena sredstva po podpisanih pogodbah 2014-2018)

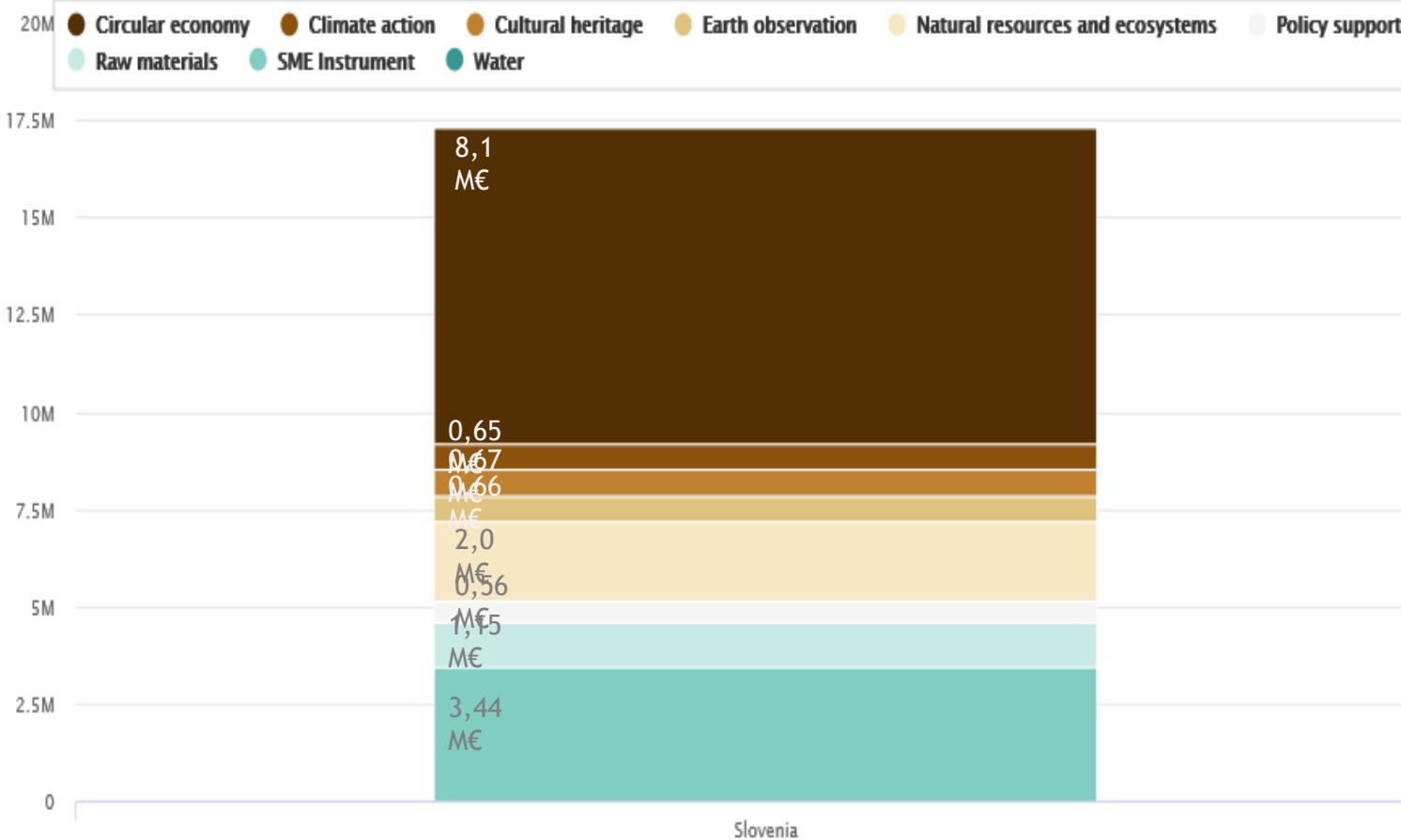
Money allocated per topics





## Budgets / topic/country - Slovenia

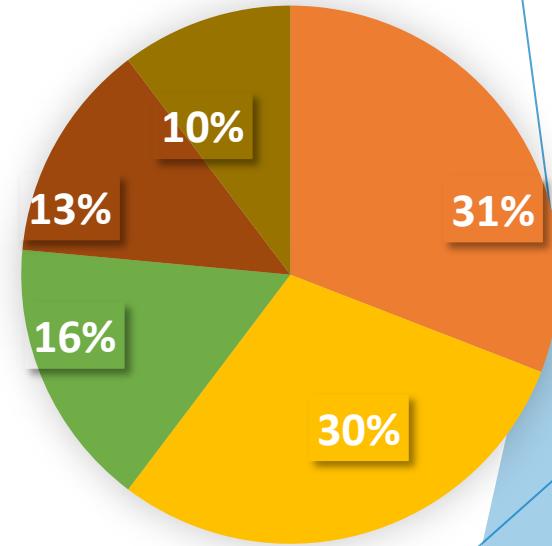
Located in Sl.





## Organizations / contribution/country -

ZAVOD ZA GRADBENISTVO SLOVENIJE
ACIES BIO BIOTEHNOLOŠKE RAZISKAVE IN RAZVOJ DOO
IOS, INSTITUT ZA OKOLJEVARSTVO IN SENZORJE, DOO
GEOLOSKI ZAVOD SLOVENIJE
GORENJE GOSPODINJSKI APARATI D.D.
M SORA TRGOVINA IN PROIZVODNJA DD
UNIVERZA V LJUBLJANI
INSTITUT JOZEF STEFAN
UNIVERZA V NOVI GORICI
NIGRAD KOMUNALNO PODJETJE DD
UNIVERZA V MARIBORU
ALGEN, CENTER ZA ALGNE TEHNOLOGIJE, DOO
DUSAN HOLESEK
SINERGISE LABORATORIJ ZA GEOGRAFSKE INFORMACIJSKE SISTEME
Ministrstvo za izobrazevanje, znanost in sport
ZAVOD ISKRIVA, ISKRISCE ZA RAZVOJ LOKALNIH POTENCIALOV
MEŠTNA OBCINA NOVA GORICA



■ private for profit   ■ research  
■ public org   ■ other  
■ Higher edu



# Razpisi - SC5 za obdobje 2018-2020

PROGRAMME PRIORITIES 2018-2020 – € 1.06 BILLION



CLIMATE ACTION



CIRCULAR ECONOMY



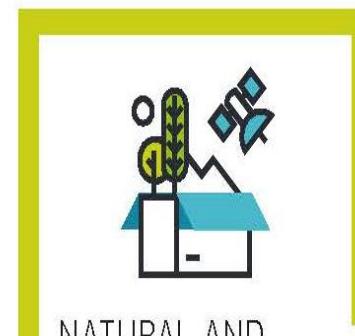
RAW MATERIALS



WATER



INNOVATING CITIES



NATURAL AND  
CULTURAL ASSETS\*

\* Including Earth observation, nature-based solutions, disaster risk reduction and natural capital accounting, and heritage alive.



# Politični kontekst SC5

## • Global

The infographic displays several international agreements and frameworks:

- SUSTAINABLE DEVELOPMENT GOALS**: A grid of 17 icons representing the UN Sustainable Development Goals.
- UNITED NATIONS PARIS CLIMATE AGREEMENT SIGNING CEREMONY**: Held on 22 April 2016.
- GEOS**: Global Earth Observation System of Systems.
- UNISDR**: The United Nations Office for Disaster Risk Reduction.
- United Nations Framework Convention on Climate Change**.
- UN World Conference on Disaster Risk Reduction**: 2015 Sendai Japan.
- HABITAT III**: QUITO 17-20 OCTOBER 2016.

## • European

The infographic displays several European policy frameworks and initiatives:

- URBAN AGENDA FOR THE EU**
- 2030 FRAMEWORK FOR CLIMATE & ENERGY #EU2030**
- #DigitalSingleMarket**
- EIP Water**: Boosting opportunities – Innovating water
- European Innovation Partnership on Raw Materials**
- GEOS EuroGEOSS**: A EUROPEAN APPROACH TO GEOS



## Societal Challenge 5: Climate action, environment, resource efficiency and raw materials - Work Programme 2018-2020

### Focus:

- ✓ moving to a greener, more resource efficient and climate-resilient economy in sync with the natural environment
- ✓ demonstrating a strong commitment to supporting the UN's Sustainable Development Goals (SDGs) and the targets of the COP21 Paris Agreement



### 2 multiannual calls:

1.

"Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement"

2.

"Greening the economy in line with the Sustainable Development Goals (SDGs)"

- **Total indicative budget 2018-2020 €1.1bn, of which 387.5 €m for 2019**
- **2019 topics open:** 14 November 2018
- **Next call deadline:** 19 Feb 2019



## Call "Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement"

- ✓ Decarbonisation LC-CLA-02-2019
  - ✓ Climate adaptation, impacts and services LC-CLA-05-2019
  - ✓ Inter-relations between climate change, biodiversity and ecosystem services LC-CLA-06-2019
  - ✓ The Cryosphere LC-CLA-07-2019
  - ✓ *Knowledge gaps [in 2020]*
  - ✓ *Earth observation [in 2020]*
- Budget in 2019: €116 million



RIA-  
kolaborat  
ivni  
raziskova  
lni  
projekt

CSA-  
koordinacij  
ske in  
podporne  
aktivnosti -  
no  
research

2019

TYPE	BUDGET 2018	BUDGET 2019	PROJECT WORTH	NUMBER OF FUNDED PROJECTS	DEADLINE		
					1st stage	2nd stage	
<b>Call - Building a low-carbon, climate resilient future: climate action in</b>							
	123	111					
<b>Decarbonisation</b>							
LC-CLA-02-2019	Negative emissions and land-use based mitigation assessment		RIA	22	5-7	3-5	
one of the following	a) Feasibility of negative emissions for climate stabilisation b) Land-based mitigation				19.2.2019	4.9.2019	
<b>Climate adaptation, impacts and services</b>							
LC-CLA-05-2019	Human dynamics of climate change		RIA	23	5-7	3-5	
one of the following	a) Climate services for Africa b) Climate and human migration				19.2.2019	4.9.2019	
<b>Inter-relations between climate change, biodiversity and ecosystem services</b>							
LC-CLA-06-2019	Inter-relations between climate change, biodiversity and ecosystem services		RIA	25	5-7	3-5	
<b>The Cryosphere</b>							
LC-CLA-07-2019	The changing cryosphere: uncertainties, risks and opportunities			41			
one of the following	a) Sea level changes b) Changes in Arctic biodiversity c) Sustainable opportunities in a changing Arctic d) Arctic standards		RIA	8-10	19.2.2019	4.9.2019	
			RIA	39	5-6	19.2.2019	4.9.2019
			RIA	5-6	19.2.2019	4.9.2019	
			CSA	2	2	1	
					19.2.2018		



### Call "Greening the economy in line with the Sustainable Development Goals (SDGs)"

- ✓ Connecting economic and environmental gains - the circular economy
- ✓ Raw materials
- ✓ Water for our environment, economy and society
- ✓ Innovating cities for sustainability and resilience
- ✓ Protecting and leveraging the value of our natural and cultural assets: Earth observation; nature-based solutions, disaster risk reduction and natural capital accounting; heritage alive

CE-SC5-04-  
2019  
CE-SC5-07-2019, CE-SC5-  
08-2019,  
CE-SC5-09-2019, CE-SC5-  
10-2019

CE-SC5-13-2019, CE-SC5-  
14-2019

EO: CE-SC5-16-2019

HA: CE-SC5-20-2019,  
CE-SC5-21-2019

➤ Budget in 2019: €256.10 million



Call - Greening the economy in line with the Sustainable Development Goals			219,7	259				
<b>Connecting economic and environmental gains - the circular economy</b>								
CE-SC5-04-2019	Building a water-smart economy and society one of the following	IA	72	10-15	5-7	19.2.2019	4.9.2019	
a) Symbiosis between industry and water utilities b) Large scale applications with multiple water users at various relevant scales								
<b>Raw materials</b>								
CE-SC5-07-2018-2019	Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes one of the following	IA	20	30	8-13	xxx	27.2.2018	4.9.2018
a) Sustainable processing and refining of primary and/or secondary raw materials b) Recycling of raw materials from end-of-life products c) Recycling of raw materials from buildings d) Advanced sorting systems for high-performance recycling of complex end-of-life products								
CE-SC5-08-2018-2019	Raw materials policy support actions for the circular economy one of the following	CSA	5	2	1		27.2.2018	
2018 a) Voluntary scheme for certification of treatment facilities for key types of wastes 2018 b) Resource efficiency in wood processing, recovery and recycling 2019 c) Responsible sourcing of raw materials in global value chains								
SC5-09-2018-2019	New solutions for the sustainable production of raw materials one of the following	RIA		3-7				
2018 a) Breakthrough concepts and solutions for sustainable exploration, mining and/or processing 2019 b) Digital mine 2019 c) Recovery of metals and minerals from sea resources								
SC5-10-2019	Raw materials innovation actions: exploration and Earth observation in support of sustainable mining one of the following	IA	20	8-13	2-3	19.2.2019	4.9.2019	
a) Integrated exploration solutions b) Services and products for the extractive industries life cycle								
<b>Innovating cities for sustainability and resilience</b>								
SC5-13-2018	Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems 2018 a) Strengthening EU-China collaboration 2019 b) Strengthening EU-CELAC collaboration	RIA	10	5	2	27.2.2018	4.9.2018	
SC5-14-2019	Visionary and integrated solutions to improve well-being and health in cities	IA	10	5	2	19.2.2019	4.9.2019	
<b>Protecting and leveraging the value of our natural and cultural assets: Earth observation</b>								
SC5-16-2019	Development of commercial activities and services through the use of GEOSS and Copernicus data one of the following	CSA	1	1	1	19.2.2019		
a) Coordination of European innovators in the domain of Earth observation b) Designing Earth observation services and products of the future, building on GEOSS and Copernicus assets								
SC5-19-2018	International network to promote cultural heritage innovation and diplomacy	CSA	~3,8	2,5-3	1	27.2.2018		
SC5-20-2019	Transforming historic urban areas and/or cultural landscapes into hubs of entrepreneurship and	IA	25	7-8	3-4	19.2.2019	4.9.2019	
SC5-21-2019	ERA-NET Cofund action(s) for climate action, environment, resource efficiency and raw materials	ERA-NET	10	10	1	19.2.2019		

IA-novi,  
spremenjeni,  
izboljšani  
produkti,  
prosesi  
ali storitve



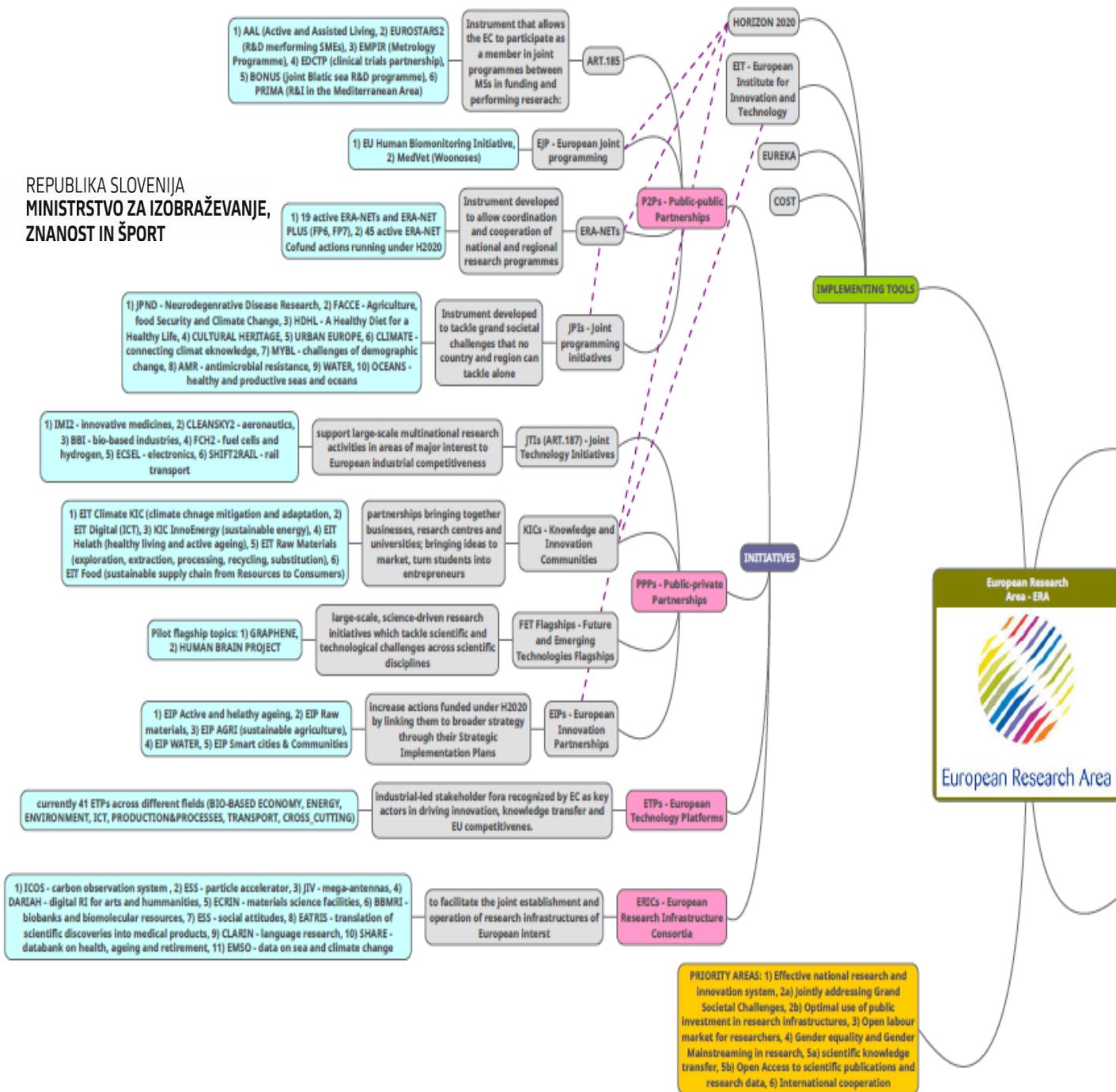
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# Drugi ukrepi/ iniciative



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# Javno-javna partnerstva (P2Ps)

## P2Ps:

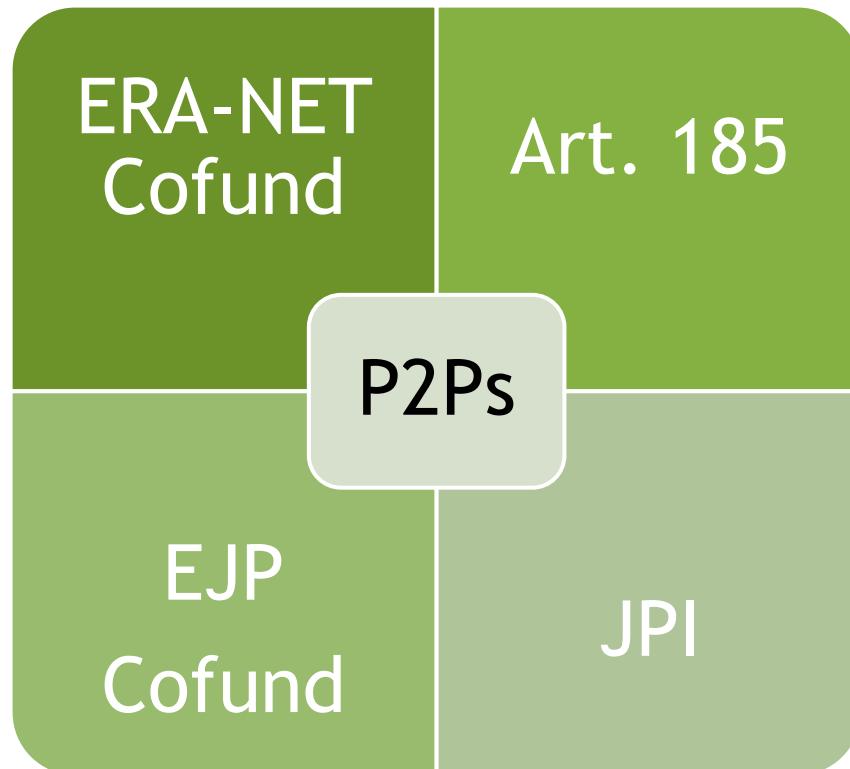
- ▶ Z namenom razvoja ERA
- ▶ Prvi instrument (ERA-NET) je bil uveden 2002, v 6.OP - filozofija: povezati, uskladiti nacionalne in EU raziskovalne programe (v izogib podvajanju in fragmentaciji) z namenom sofinanciranja skupnih sodelovalnih projektov
- ▶ Sledili so različni tipi P2Pjev, ki so se razmnožili po letu 2007



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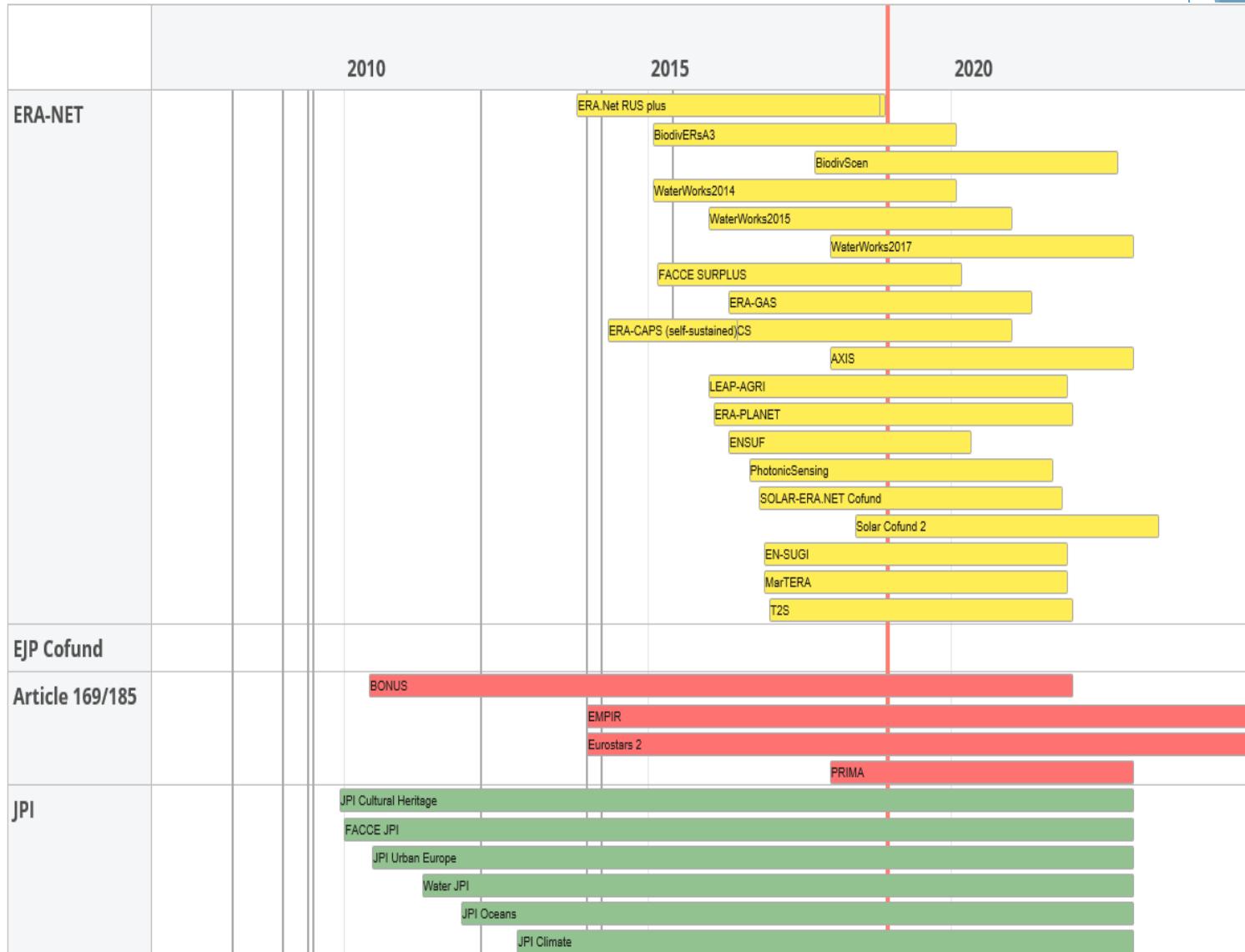


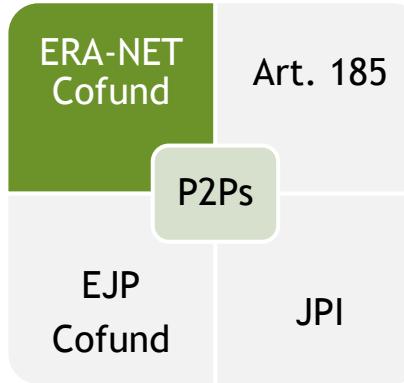
# Javno-javna partnerstva (P2Ps)





# [www.era-learn.eu](http://www.era-learn.eu) // thematic clustering of ERA





# ERA-NET Cofund

- instrument namenjen povezovanju regionalnih/nacionalnih raziskovalnih programov preko izvajanja skupnih razpisov za sofinanciranje transnacionalnih kolaborativnih raziskovalnih projektov na posameznem področju
- **Vključenost Slovenije:**
  - 25 ERA-NETov
  - 6 različnih institucij
  - 12 tematskih področij:
    - biotehnologija, ➤ zdravje, ➤ materiali, ➤ energija, ➤ IKT, ➤ nanoznanost, ➤ prehrana, ➤ kmetijstvo, ➤ okolje, ➤ proizvodnja, ➤ družboslovje in humanistika in ➤ vesolje



# ERA-NET Cofund

IVIZ Č
• HERITAG E +
• TRANSCA N-2
• HERA JRP UP
• ERAcoSys Med
• ERA-CVD
• M-ERA.NEt 2
• QuantER A
• FLAG ERA
• CoBIO Tecth
• ERA MIN2
• HERA JRP

IVIK GD
• CORE Organic Cofund
• SusAn
• CORE Organic plus

ARR S
• DIAL (NORFACE)
• ENSUF (JPI URBAN)
• WSF (NORFACE)
• EN-SUGI (JPI URBAN)
• T2S (NORFACE)

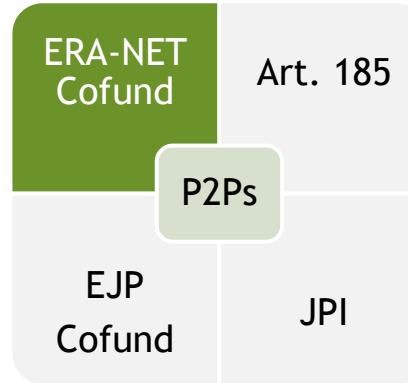
MZI
• ERA-NET SmartGridPlus
• Geothermica

IJS
• ERA-PLANET

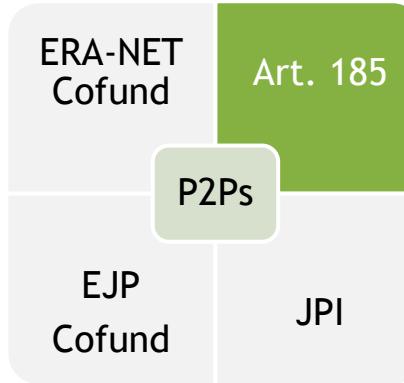
Geo 7C
• GeoERA



# ERA-NET Cofund



- Možnosti (so)financiranja
- MIZŠ je v letu 2018 sodelovalo pri razpisih naslednjih ERA-NETov:
  - ForestValue (ZAPRT, 630.000,00, Katja Ceglar)
  - ERA CoBioTech Joint Call for proposals "Biotechnology for a sustainable bioeconomy; ROK: 14.12.2018, 630.000,00, Kim Turk Mehes
  - ERA-MIN Joint Call 2018 - Raw materials for sustainable development and the circular economy; ROK: 31.1.2019, 420.000,00, Doroteja Zlobec



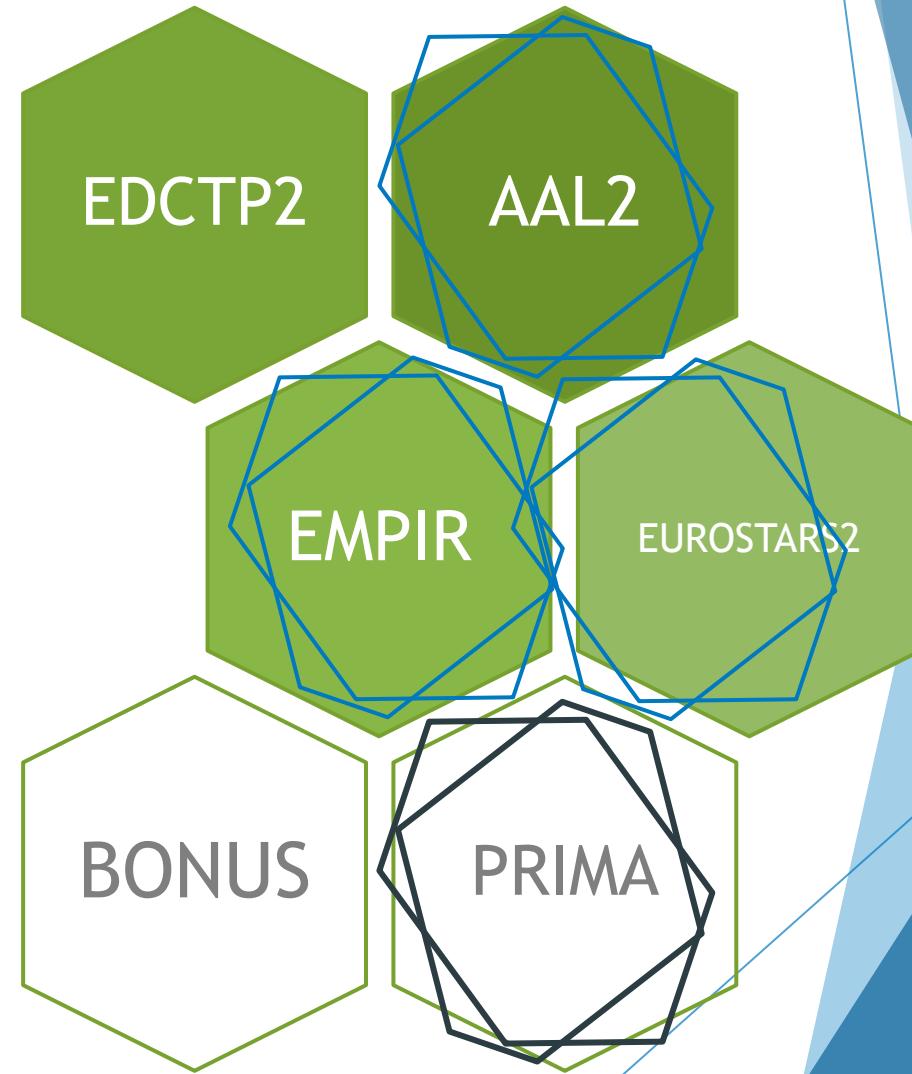
## Art. 185

- Instrument, ki omogoča sodelovanje EK kot partnerja pri skupnih programih DČ, ki financirajo in izvajajo raziskave
- Namen je integracija nacionalnih RI aktivnosti po Evropi, defragmentacija in kreiranje kritične mase na področju RI



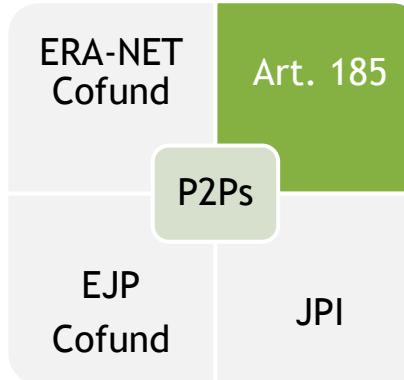
## Vključenost Slovenije:

- izmed obstoječih Art. 185 je Slovenija vključena v 4, od tega MIZŠ v 1: PRIMA





## Art. 185 → PRIMA



- ▶ Možnosti (so)financiranja:
  - ▶ MIZŠ bo v 10 letih za sodelovanje v PRIMA namenilo 1 mio €
  - ▶ Temi, ki ju bo sofinanciral MIZŠ v letu 2018:
    - ▶ **TOPIC 2.1.2 Sustainable, integrated water management**
    - ▶ **TOPIC 2.2.2 Preventing emergence of animal and plant diseases**
  - ▶ Nacionalna kontaktna oseba: mag. Tea Glažar, MIZŠ



P2Ps

EJP  
Cofund

JPI

## JPIs

- ▶ Sodelovanje za učinkovitejše reševanje velikih družbenih izzivov
- ▶ Pobude za skupno načrtovanje raziskovalnih programov, na najvišji politični ravni, z namenom strukturiranja ERA
- ▶ **Vključenost Slovenije:** izmed 10 obstoječih JPI-jev Slovenija je vključena v 5, od tega MIZŠ

JPI Climate: 24. januar 2019, MIZŠ, Ljubljana - regionalna konferenca



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MIZ  
Š

Neurodegenerative Disease  
Research



Agriculture, Food Security and  
Climate Change

NIZ  
Š

A Healthy Diet for a Healthy  
Life



Cultural Heritage and Global  
Change



ARR  
S

Urban Europe - Global Urban  
Challenges



MIZ  
Š

Connecting Climate Knowledge for  
Europe



MDD  
SZ

The Potential and Challenges of  
Demographic Change



Antimicrobial Resistance



Water Challenges for a Changing  
World



Healthy and Productive Seas and  
Oceans

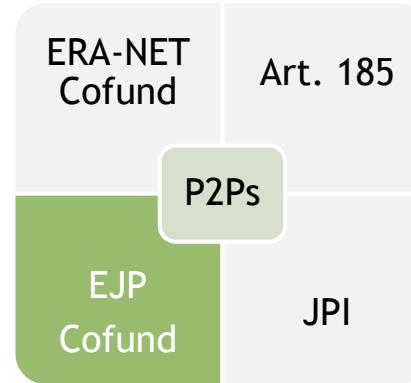
I FEEL  
SLOVENIA



# EJP

➤ EJP Cofund ustvarjen z namenom podpore koordiniranim nacionalnih raziskovalnih inovacijskih programov.

➤ Namen je združevanje kritične mase nacionalnih inovacijskih programov.



➤ Trenutno aktivni 4 EJP:

- ▶ EUROfusion,
- ▶ CONCERT,
- ▶ One Health,
- ▶ HBM4EU

➤ V pripravi 3 EJP:

- ▶ Rare diseases,
- ▶ Radioactive waste



# Uporabne povezave

- ▶ Obzorje 2020
  - ▶ <http://www.mizs.gov.si/si/obzorje2020/>
- ▶ EASME - izvajalska agencija
  - ▶ <https://ec.europa.eu/easme/en/horizon-2020-societal-challenge-climate-action-environment-resource-efficiency-and-raw-materials>

Koordinator NKO:  
Peter Volasko; peter.volasko@gov.si  
Pravne in finančne zadeve:  
Darija Valancič; darija.valancic@gov.si  
Evropski raziskovalni svet/ ERC:  
Andreja Umek Venturini; andreja.umek-venturini@gov.si  
Prihodnje in nastajajoče tehnologije/ FET:  
Andrej Ograjenšek; andrej.ograjensek@gov.si  
Ukrepi »Marie Skłodowska-Curie«/ MSCA:  
Petra Tramte; petra.tramte@gov.si  
Raziskovalne infrastrukture:  
Peter Sterle; peter.sterle@gov.si  
Dostop do tveganega kapitala:  
Alenka Marovt; alenka.marovt@gov.si  
Inovacije v MSP / SMEs:  
Igor Milek; igor.milek@spiritsslovenia.si  
Informacijsko-komunikacijske tehnologije/ ICT:  
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