







# Societal Challenge "Climate action, environment, resource efficiency and raw materials" New calls 2016-2017: Opportunities for Third/EaP countries

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### **Participation rules for H2020**

- Eastern Partnership countries can participate in all H2020 calls, except where this is explicitly excluded in the call text
- Moldova and Ukraine associate members of H2020
- Georgia pending signature of associate membership of H2020 in 2016 – to be provisionally applicable as of January 1, 2016
- Armenia pending signature of associate membership of H2020 in 2016
- Minimum 3 beneficiaries from 3 different EU Member States (MS) or H2020 associated countries (AC)
- Additional beneficiaries from any country allowed
- http://ec.europa.eu/research/participants/data/ref/h2020/grants\_manual/hi/3cpart/h2020-hi-list-ac\_en.pdf









### **Industry 2020 in the Circular Economy: topics for SC5 contribution**

Provisional topic ref.	Actions	funding type	2016	2017
CIRC-1- 2016/2017	Systemic, eco-innovative approaches for circular economy: large scale demonstration projects - 2016: Design for circular value and supply chains - 2017: Systemic services for the circular economy	IA	х	x
CIRC-2- 2016/2017	Water in the context of the circular economy:  - 2016: Demonstrating the potential of efficient nutrient recovery from water  - 2017: Towards the next generation of water systems and services – large-scale demonstration projects	IA	х	х
CIRC-3- 2016	Smart Specialisation for systemic eco-innovation/circular economy	CSA	х	
CIRC-4- 2016	New models and economic incentives in circular economy business	RIA	Х	

Indicative budget for contribution: €84.5M in 2016; €70M in 2017

N.B. Topics proposed for this call by LEIT-NMBP and SC2 have been circulated in a separate document for background information.









## Blue Growth – demonstrating an ocean of opportunities: topics for SC5 contribution

Provisional topic ref.	Actions	funding type	2016	2017
1	Unified integrated Arctic Observing System	RIA	х	
2	Impact of Arctic changes on the weather and climate of the Northern Hemisphere	RIA	х	
3	Climate impacts on Arctic ecosystems, resources and new economic activities  OR  Climate impacts on Arctic permafrost, with a focus on coastal areas, and their socio-economic impact	RIA		х

Indicative budget for contribution: €30M in 2016; €10M in 2017

N.B. Topics proposed for this call by SC2 have been circulated in a separate document for background information.









### Main SC5 call: topics on climate services & towards a low-carbon Europe

Provisional topic ref.	Actions	funding type	2016	2017
	The added value of climate services			
SC5-1- 2016/2017	a) 2016: Demonstration of climate services	IA	х	
	b) 2017: From climate service concepts to piloting and proof-of-concept	RIA		х
SC5-2-2017	Integrated European regional modelling and climate prediction system	RIA		х
SC5-3-2016	Climate services market research	RIA	х	
SC5-4-2016	Towards a robust and comprehensive greenhouse gas verification system	RIA	х	
SC5-5-2016	A 1.5 million year look into the past for improving climate predictions	CSA	х	
	Pathways towards the decarbonisation and resilience of the European economy in the timeframe 2030-2050 and beyond			
SC5-6-2016-	a) 2016: Managing technology transition	RIA	Х	
2017	b) 2016: Assessment of the global mitigation efforts in the perspective of the long-term climate goal	RIA	Х	
	c) 2017: The risks and costs of climate change for Europe	RIA		х
SC5-7-2017	Coordinating & supporting R&I actions on decarbonisation of EU economy	CSA		х

Indicative budget for RIAs and IAs: €40M in 2016; €43M in 2017









### Main SC5 call:

### topics on nature-based solutions for sustainable urbanisation and territorial resilience

Provisional topic ref.	Actions	funding type	2016	2017
	Sustainable cities through nature-based solutions	IA	X	x
SC5-8-	- 2016: Demonstrating innovative nature-based solutions for climate and water resilience in cities	IA	х	
2016/2017	- 2017: Nature-based solutions for inclusive, equitable and liveable cities (including regeneration of deprived districts and neglected or abandoned areas)	IA		х
SC5-9-2016	New governance, business, financing models & economic impact assessment tools for sustainable cities with nature-based solutions (urban re-naturing)	RIA	х	
SC5-10-2017	Large-scale demonstrators on nature-based solutions for hydro- meteorological risk reduction	IA		X
SC5-11-2016	Insurance value of ecosystems	RIA	х	
SC5-12-2016	Multi-stakeholder dialogue platform to promote innovation with nature to address societal challenges	CSA	х	

Indicative budget for RIAs and IAs: €60M in 2016; €65M in 2017









### Main SC5 call: topics on Water

Provisional topic ref.	Actions	funding type	2016	2017
SC5-13- 2016	Supporting international cooperation activities on water	CSA	Х	
<b>2016</b> or	Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies (support to PRIMA initiative)	tbc	j	ý

N.B. additional cross-referencing of all topics focused on and contributing to water-related issues; provisional list to include:

CIRC-2-2016/2017: Water in the context of the circular economy

SC5-1-2016/2017: The added value of climate services

SC5-2-2017: Integrated European regional modelling and climate prediction system

SC5-3-2016: Climate services market research

SC5-8-2016/2017: Sustainable cities through nature-based solutions

SC5-10-2017: Large-scale demonstrators on NBS for hydro-meteorological risk reduction

#### FRA-NFTs:

- Sustainable urbanisation
- Climate services roadmap implementation
- Closing the water cycle gap
- Applied geosciences









### Main SC5 call: topics on raw materials (1)

Topic ref.	Actions	funding type	2016	2017
	New solutions for sustainable production of raw materials:			
	a) 2017: New sensitive exploration technologies			Х
2016/2017	b) 2016: Sustainable selective low impact mining	RIA	v	
	c) 2016: New technologies for the enhanced recovery of by-products		Х	
	Raw materials innovation actions:			
CCT 16	a) 2016: Intelligent mining		x	
2016/2017	b) 2017: Processing of lower grade and/or complex primary and secondary raw	IA		
	materials in the most sustainable and economical ways	IA		x
	c) 2017: Sustainable metallurgical processes			
	Raw materials policy support actions:			
	a) Public awareness, acceptance & trust in mining-Social License to Operate (SLO)			
	b) Support to standardisation for recovery of critical raw materials from specific	CSA	x	
	types of waste			
SC5-17-	c) Good practice in waste collection systems			
2016/2017	d) Linking land use planning policies to national mineral policies			
	e) Optimizing collection of raw materials data in Member States	CSA		x
	f) EU network of mining and metallurgy regions			^
	g) EU network of regions on sustainable wood mobilisation (wood supply)			
	h) Expert network on Critical Raw Materials			









### Main SC5 call: topics on raw materials (2)

Topic ref.	Actions	funding type	2016	2017
	International raw materials cooperation:			
SC5-18-	a)Demand-supply forecast and raw materials flows at global level	CCA		
2016/2017	b) International network of raw materials training centres	CSA	X	
	c) Advancing the idea of a World Forum on Raw Materials	CSA		X
SC5-19- 2016	ERA-NET Co-fund on Raw materials	ERANET Cof.	x	

N.B. Raw materials included in cross-challenge CSAs to prepare for prizes & PCP, and support to raw materials policy also under 'other actions' (see later slides).

Indicative budget for raw materials topics: €64.17M in 2016; €75.65M in 2017









### Main SC5 call: topics on Earth Observation\*

Provisional topic ref.	Actions	funding type	2016	2017
SC5-20-2017	Novel in-situ observation systems	RIA		х
SC5-21-2017	Coordination of citizen observatories initiatives	CSA		х
SC5-22-2016	European data hub of the GEOSS information system	RIA	Х	

Indicative budget for RIA topics: €20M in 2016; €15M in 2017

### Earth Observation topic/contribution to SFS call

Calls	Actions	funding type	2016	2017
Sustainable	Earth Observation services for the monitoring of	RIA		х
Food Security –	agricultural production in Africa			
resilient agri-				
food chains	Indicative budget envelope for contribution: €10M			









### Main SC5 call: topics on cultural heritage for sustainable growth

Provisional topic ref.	Actions	funding type	2016	2017
	Cultural heritage as a driver for sustainable growth			
SC5-23-	- 2016 Heritage-led urban regeneration	IA	Х	
2016/2017	- 2017 Heritage-led rural regeneration	IA		х
SC5-24-2017	Innovative financing, business and governance models for adaptive re-use of cultural heritage	RIA		х

Indicative budget for RIAs and IAs: €10M in 2016; €15M in 2017









### Main SC5 call:

### topics on support to policy, PCP/PPI and prizes

Priorities	Actions	funding type	2016	2017
SC5-25- 2016/2017	Support to confirmed Presidency events (conferences)	CSA	х	x
SC5-26-2016	Macro-economic and societal benefits from creating new markets in a circular economy	CSA	х	
SC5-27-2017	Pre-commercial procurement (PCP) on soil decontamination	PCP		х
SC5-28-2016	Preparing for pre-commercial procurement (PCP) and/or public procurement of innovative solutions (PPI) in support of climate action, environment, resource efficiency and raw materials	CSA	x	
SC5-29-	Designing and implementing inducement prizes for climate action, environment, resource efficiency and raw materials	CSA	х	
2016/2017	- 2016: design phase	CSA	х	
	- 2017: implementation phase	CSA		х
SC5-30-2016	Framework Partnership Agreement supporting Joint Actions towards a sustainable green economy in Europe and beyond	FPA	х	

**Indicative budget for PCP: €5M in 2017** 

Indicative budget for CSAs (all SC5 areas except for specific raw materials

CSAs): €8.6M in 2016; €5.3M in 2017









### SC5 'other actions'

Provisional topic ref.	Actions	funding type	2016	2017
1	Support to GEO secretariat	Subscription	х	х
2	Support to IPCC secretariat	Grant to named beneficiary	х	
3	Support to the EU's raw materials policy: - technical assistance (2016/2017) - EIP secretariat (2016/2017)	Admin.Arrangmt with JRC PP (contract)	x x	x x
4	Specific Grant Agreements for ERA-NET Cofund actions supporting joint Actions towards sustainable green economy in Europe and beyond: - Strategic EU research and innovation for systemic ecoinnovation - Transformations to sustainability - Sustainable urbanisation - Climate services roadmap implementation - Closing the water cycle gap	Specific Grant Agreements (following signature of FPA) for ERANET Cofund actions	x	X

Indicative budget for specific grant agreements for ERA-NET Cofund actions: €13M in 2016, €25M in 2017









### **SC5** contributions to other calls

Calls	Actions	funding type	2016	2017
SME Instr. call	Boosting the potential of small businesses in the areas of SC5	SME Instr	х	х
	Indicative budget: €25M in 2016, €27.5M in 2017			
FTI call	approx. contribution €7M in 2016 (tbc), in 2017 tbc	FTI p.m.	х	?
SC3 WP	Cross-thematic ERA-NET on applied geosciences	ERANET Cof.	х	
	Indicative budget contribution from SC5: €6M in 2016			









Topic: SC5-01-2016-2017: Exploiting the added value of climate services

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 08 November 2016

Deadline: 07 March 2017 17:00:00

Types of action: IA Innovation action

DeadlineModel: two-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

2nd stage Deadline: 06 September 2016 17:00:00

Topic: SC5-02-2017:Integrated European regional modelling and climate prediction

system

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 08 November 2016

Deadline: 07 March 2017 17:00:00

Topic: SC5-03-2016:Climate services market research Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 10 November 2015









Topic: SC5-04-2017: Towards a robust and comprehensive greenhouse gas

verification system

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 08 November 2016

Deadline: 07 March 2017 17:00:00

Topic: SC5-05-2016:A 1.5 million year look into the past for improving

climate predictions

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

Topic: SC5-06-2016-2017: Pathways towards the decarbonisation and

resilience of the European economy in the timeframe 2030-2050 and beyond

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 10 November 2015









Topic: SC5-07-2017: Coordinating and supporting research and innovation

actions on the decarbonisation of the EU economy

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 08 November 2016

Deadline: 07 March 2017 17:00:00

Topic: SC5-08-2017:Large-scale demonstrators on nature-based solutions

for hydro-meteorological risk reduction Types of action: IA Innovation action

DeadlineModel: two-stage

Opening date: 08 November 2016

Deadline: 07 March 2017 17:00:00

2nd stage Deadline: 05 September 2017 17:00:00

Topic: SC5-09-2016:Operationalising insurance value of ecosystems

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 10 November 2015









Topic: SC5-10-2016: Multi-stakeholder dialogue platform to promote

innovation with nature to address societal challenges

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

Topic: SC5-11-2016: Supporting international cooperation activities on

water

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

Topic: SC5-13-2016-2017: New solutions for sustainable production of raw

materials

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 10 November 2015









Topic: SC5-14-2016-2017: Raw materials Innovation actions

Types of action: IA Innovation action

DeadlineModel: two-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

2nd stage Deadline: 06 September 2016 17:00:00

Topic: SC5-15-2016-2017: Raw materials policy support actions

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

Topic: SC5-16-2016-2017: Raw materials international co-operation

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 10 November 2015









Topic: SC5-17-2016:ERA-NET Cofund on Raw materials

Types of action: ERA-NET-Cofund ERA-NET Cofund

DeadlineModel: single-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

Topic: SC5-18-2017: Novel in-situ observation systems

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 08 November 2016

Deadline: 07 March 2017 17:00:00

Topic: SC5-19-2017: Coordination of citizens' observatories initiatives

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 08 November 2016









Topic: SC5-20-2016: European data hub of the GEOSS information system

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

Topic: SC5-21-2016-2017: Cultural heritage as a driver for sustainable

growth

Types of action: IA Innovation action

DeadlineModel: two-stage

Opening date: 10 November 2015

Deadline: 08 March 2016 17:00:00

2nd stage Deadline:06 September 2016 17:00:00

Topic: SC5-22-2017:Innovative financing, business and governance

models for adaptive re-use of cultural heritage

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 08 November 2016









Topic: SC5-25-2016:Macro-economic and societal benefits from creating new markets in a

circular economy

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 10 November 2015 Deadline: 08 March 2016 17:00:00

Topic: SC5-26-2017:Pre-commercial procurement on soil decontamination

Types of action: PCP Pre-Commercial Procurement

DeadlineModel: single-stage

Opening date: 08 November 2016 Deadline: 07 March 2017 17:00:00

Topic: SC5-27-2016:Preparing for pre-commercial procurement (PCP) and/or public procurement of innovative solutions (PPI) in support of climate action, environment, resource efficiency and raw

materials

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 10 November 2015 Deadline: 08 March 2016 17:00:00

Topic: SC5-28-2016:Transformations to sustainability Types of action: ERA-NET-Cofund ERA-NET Cofund

DeadlineModel: single-stage

Opening date: 10 November 2015 Deadline: 08 March 2016 17:00:00

Topic: SC5-29-2016:Framework Partnership Agreement supporting Joint Actions towards a

sustainable green economy in Europe and beyond

Types of action: FPA Framework Partnership Agreement

DeadlineModel: single-stage

Opening date: 14 April 2016 Deadline: 08 September 2016 17:00:00























Thank you for your attention Дзякую вас за ўвагу! Благодарю вас за внимание! Շնորհակալություն ուշադրության համար! Diggətinizə görə təşəkkür edirəm! მადლობა გადაგიხადოთ თქვენი ყურადღება! Дякую за увагу!