

Horizon 2020 – “Climate Action, Environment, Resource Efficiency and Raw Materials” Topic Preview 2017

Version of 25 July 2016

The information contained in this document is based on the following parts of the Work Programme 2016/17:

- Calls Circular Economy and Smart and Sustainable Cities: *Part 17. Cross-cutting activities (Focus Areas)*
- Call Greening the Economy: *Part 12. Climate action, environment, resource efficiency and raw materials.*
- Calls Sustainable Food Security & Blue Growth: *Part 9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy.*

Funding Availabilities

- Budget for the Societal Challenge 2014-2020: approximately €3.081 billion
- Indicative budget for 2017: €375 million

Note: The call identifiers are based on the year whose budget is used, whereas the opening of a call usually takes place a year before: for example, call H2020-SC5-2016 is expected to open in late 2015.

Expected Calls for Proposals

Main calls are expected on an annual basis. Topics are either single-stage or two-stage. The deadlines indicated are those for full proposals in the case of single-stage topics and for 1st stage proposals for topics following a two-stage approach. Final evaluation results can be expected 5 months after the final submission deadline.

Opening Date	Name of Call (tentative)	Call Identifier (tentative)	Deadline for Submission
8 Nov 2016	Circular Economy	H2020-CIRC-2017	7 March 2017
8 Nov 2016	Smart and Sustainable Cities	H2020-SCC-2017	7 March 2017
8 Nov 2016	Greening the Economy	H2020-SC5-2017	7 March 2017
4 Oct 2016	Sustainable Food Security	H2020-SFS-2017	14 Feb 2017
4 Oct 2016	Blue Growth	H2020-BG-2017	14 Feb 2017

Activities Funded in the Calls for Proposals

In 2016/17, the Societal Challenge “Climate Action, Environment, Resource Efficiency and Raw Materials” covers the following areas:

- Greening the Economy
 - Climate services
 - Towards a low-carbon Europe
 - Nature-based solutions for territorial resilience
 - Water (no topics in 2017)
 - Raw materials
 - Earth observation
 - Cultural heritage for sustainable growth

Furthermore, “Climate Action, Environment, Resource Efficiency and Raw Materials” contributes heavily to two Focus Areas:

- Circular Economy
- Smart and Sustainable Cities

The calls Sustainable Food Security and Blue Growth of the Challenge “Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy” further each contain a topic that is funded from the Climate budget.

For a general overview of the Societal Challenge “Climate Action, Environment, Resource Efficiency and Raw Materials” as well as for more information on these calls you are invited to check out the thematic webpage: www.euresearch.ch/en/climate.

Call Topics

For the complete topic texts and further information on topic-specific requirements, please refer to the respective Work Programme.

Title	Topic Identifier	Type of Action	Submission & Evaluation Modus	Expected EC Contribution (M: million)
Circular Economy			H2020-CIRC-2017	
Systemic, eco-innovative approaches for the circular economy: large-scale demonstration projects: Systemic services for the circular economy	CIRC-1-2017	IA	Two-stage	€4-7 M
Water in the context of the circular economy: Towards the next generation of water systems and services – large-scale demonstration projects	CIRC-2-2017	IA	Two-stage	~€10 M
Smart and Sustainable Cities			H2020-SCC-2017	
Demonstrating innovative nature-based solutions in cities: Nature-based solutions for inclusive urban regeneration	SCC-2-2017	IA	Two-stage	≥€10 M

Title	Topic Identifier	Type of Action	Submission & Evaluation Modus	Expected EC Contribution (M: million)
Greening the Economy			H2020-SC5-2017	
Climate Services				
Exploiting the added value of climate services: From climate service concepts to piloting and proof-of-concept	SC5-1-2017	RIA	Single-stage	~€5 M
Integrated European regional modelling and climate prediction system	SC5-2-2017	RIA	Single-stage	~€13 M
Towards a robust and comprehensive greenhouse gas verification system	SC5-4-2017	RIA	Single-stage	~€10 M
ERA-NET on Climate Services Roadmap: Cross-sector impact assessments (evaluation, comparison and integration)	SC5-30-2017	ERA-Net	Single-stage	~€13 M
Widening international cooperation activities on climate adaptation and mitigation	SC5-31-2017	CSA	Single-stage	~€2 M
Towards a Low-Carbon Europe				
Pathways towards the decarbonisation and resilience of the European economy in the timeframe 2030-2050 and beyond: The risks and costs of climate change for Europe	SC5-6-2017	RIA	Single-stage	€4-5 M
Coordinating and supporting research and innovation actions on the decarbonisation of the EU economy	SC5-7-2017	CSA	Single-stage	€2.5-3 M
Nature-based solutions for territorial resilience				
Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction	SC5-8-2017	IA	Two-stage	≥ €12 M
Biodiversity scenarios	SC5-32-2017	ERA-Net	Single-stage	~€7 M
Water				
Closing the water gap	SC5-33-2017	ERA-Net	Two-stage	~€10 M
Raw Materials				
New solutions for sustainable production of raw materials: New sensitive exploration technologies	SC5-13-2017	RIA	Single-stage	€3-7 M
Raw materials Innovation actions 2017-b: Processing of lower grade and/or complex primary and/or secondary raw materials in the most sustainable ways 2017-c: Sustainable metallurgical processes	SC5-14-2017	IA	two-stage	€8-13 M

Raw materials policy support actions 2017-b: Good practice in waste collection systems 2017-c: Optimizing collection of raw materials data in Member States 2017-d: Linking land use planning policies to national mineral policies 2017-e: EU network of mining and metallurgy regions 2017-f: EU network of regions on sustainable wood mobilisation (wood supply)	SC5-15-2016/17	CSA	Single-stage	b: ≤€1.5 M c: ≤€1.5 M d: ≤€1.5 M e: ≤€3 M f: ≤€1.5 M
Raw materials international cooperation: International network of raw materials training centres	SC5-16-2017	CSA	Single-stage	≤€1 M
Earth Observation				
Novel in-situ observation systems	SC5-18-2017	RIA	Single-stage	€4-5 M
Coordination of citizens' observatories initiatives	SC5-19-2017	CSA	Single-stage	~€1 M
Cultural Heritage for Sustainable Growth				
Cultural heritage as a driver for sustainable growth: Heritage-led rural regeneration	SC5-21-2017	IA	Two-stage	<€10 M
Innovative financing, business and governance models for adaptive re-use of cultural heritage	SC5-22-2017	RIA	Single-stage	≤€5 M
Support to Policy and Preparing for Innovation Procurement				
Pre-commercial procurement on soil decontamination <i>Note that organisations based in Switzerland can only participate in this topic if Switzerland becomes fully associated to Horizon 2020 from 2017.</i>	SC5-26-2017	PCP	Single-stage	€5 M
SME Instrument				
Boosting the potential of small businesses in the area and priorities of climate action, environment, resource efficiency and raw materials <i>Note that organisations based in Switzerland can only participate in this topic if Switzerland becomes fully associated to Horizon 2020 from 2017.</i>	SME-inst-2017	SME Inst	Single-stage	

Title	Topic Identifier	Type of Action	Submission & Evaluation Modus	Expected EC Contribution (M: million)
Sustainable Food Security			H2020-SFS-2017	
Earth observation services for the monitoring of agricultural production in Africa	SFS-43-2017	RIA	Single-stage	≥€10 M
Blue Growth			H2020-BG-2017	
The effect of climate change on Arctic permafrost and its socio-economic impact, with a focus on coastal areas	BG-11-2017	RIA	Single-stage	≥€10 M

Types of Actions in these Calls for Proposals

Funding Code	Type of Action	Funding Rate	Minimum Conditions	Comment
RIA	Research & Innovation Actions	100%	≥ 3 legal entities from 3 MS/AC	collaborative research projects
IA	Innovation Actions	70% (100% for public bodies)	≥ 3 legal entities from 3 MS/AC	produce plans & arrangements or designs for new, altered or improved products, processes or services
CSA	Coordination and Support Actions	100%	1 legal entity or as specified in call text	no research activities funded
PCP	Pre-Commercial Procurement	70%	≥ 3 legal entities from 3 MS/AC	enable the public sector as a technologically demanding buyer to encourage research, development and validation of breakthrough solutions in areas of public interest
SME Instrument	SME	1 SME in MS/AC	3 phases: <ul style="list-style-type: none"> • Phase 1: lump sum of € 50K / project • Phase 2: € 1 – 2.5M / project (1-2 years) (70% of eligible costs reimbursed) • Phase 3 : no funding 	combination of demonstration activities (testing, prototyping, ...), market replication

MS: EU Member State

AC: Country associated to Horizon 2020

For all open issues relating to “Climate Action, Environment, Resource Efficiency and Raw Materials”, please do not hesitate to contact:

- For questions regarding formal and administrative matters (eligibility criteria, budgeting, etc.), contact your Regional Office (www.euresearch.ch/en/contacts)
- For questions concerning the scientific aspects of your proposal, contact your National Contact Point Climate (judith.zbinden@euresearch.ch).