

## Horizon 2020 – “Climate Action, Environment, Resource Efficiency and Raw Materials” (Societal Challenge 5)

### Topic Overview 2020

Version of 3 July 2019

#### Funding Availabilities

- Budget for the Societal Challenge 2014-2020: approximately €3.081 billion
- Indicative budget for 2020: €371 million

Note: The call identifiers are based on the year of budget used, whereas the opening of a call usually takes place a year before: for example, call H2020-SC5-2020 is expected to open during the 2<sup>nd</sup> half of 2019.

#### Calls for Proposals

All RIAs and IAs follow a two-stage submission and evaluation mode and only CSAs a single-stage mode. The deadlines are those for full proposals in the case of single-stage topics and for 1<sup>st</sup> stage proposals for topics following a two-stage approach. Final evaluation results can be expected around five months after the final submission deadline.

Expected Opening Date	Name of Call	Call Identifier	First deadline for Submission
<b>Calls 2020</b>			
12 November 2019	Building a low carbon, climate resilient future: climate action in support of the Paris Agreement	H2020-LC-CLA-2020	13 February 2020
12 November 2019	Greening the economy in line with the Sustainable Development Goals	H2020-SC5-2020	13 February 2020
3 July 2019	Cross-cutting call	H2020-SC5-2020	5 February 2020

#### Call Topics

Hyperlinks to the topic identifiers lead to the detailed topic texts on the ECs Funding and tender opportunities portal.

The complete topic texts, including introductions to the Work Programme as a whole and individual areas are further available in the [Work Programme “Climate action, environment, resource efficiency and raw materials”](#).

<b>Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement H2020-LC-CLA-2020</b>			
<b>Title</b>	<b>Topic Identifier</b>	<b>Type of Action</b>	<b>Expected EC Contribution (M: million)</b>
<b>Decarbonisation</b>			
Scientific support to designing mitigation pathways and policies: a) Assessing and designing climate policies for the coming decade b) Decarbonisation and lifestyle changes c) Science underpinning the preparations of NDCs after the 2023 Global Stocktake at a global scale	<a href="#"><u>LC-CLA-10-2020</u></a>	RIA	€3-5 M
Innovative nature-based solutions for carbon neutral cities and improved air quality	<a href="#"><u>LC-CLA-11-2020</u></a>	IA	~€10 M
<b>Climate adaptation, impacts and services</b>			
Advancing climate services: a) Mapping European coastal infrastructure at risk from sea-level rise b) Detection and attribution of extreme events using Artificial Intelligence c) Impacts of overshooting	<a href="#"><u>LC-CLA-12-2020</u></a>	RIA	€4-6 M
Climate resilience of European coastal cities and settlements	<a href="#"><u>LC-CLA-13-2020</u></a>	RIA	~€10 M
Towards a comprehensive European mountain research strategy	<a href="#"><u>LC-CLA-23-2020</u></a>	CSA	~€1.5 M
<b>Inter-relation between climate change, biodiversity and ecosystem services</b>			
Understanding climate-water-energy-food nexus and streamlining water-related policies	<a href="#"><u>LC-CLA-14-2020</u></a>	RIA	€4-5 M
Forest fires risk reduction: towards an integrated fire management approach in the EU	<a href="#"><u>LC-CLA-15-2020</u></a>	RIA	~€10 M
Multi-hazard risk management for risk-informed decision-making in the EU	<a href="#"><u>LC-CLA-16-2020</u></a>	RIA	€3-5 M
<b>The cryosphere</b>			
Polar climate: understanding the polar processes in a global context in the Arctic and Antarctic Regions	<a href="#"><u>LC-CLA-17-2020</u></a>	RIA	€7-8 M
Coordination of European Polar research	<a href="#"><u>LC-CLA-21-2020</u></a>	CSA	~€3 M
<b>Knowledge gaps</b>			
Developing the next generation of Earth System Models	<a href="#"><u>LC-CLA-18-2020</u></a>	RIA lump sum	€10-12 M
Enhancing the Belmont Forum Collaborative Research Action on Climate, Environment and Health	<a href="#"><u>LC-CLA-22-2020</u></a>	CSA	~€3 M

<b>Earth observation</b>			
Integrated GEOSS climate applications to support adaptation and mitigation measures of the Paris Agreement	<a href="#">LC-CLA-19-2020</a>	RIA	€4-5 M
Supporting the implementation of GEOSS in the Arctic in collaboration with Copernicus	<a href="#">LC-CLA-20-2020</a>	RIA	~€15 M
<b>Greening the economy in line with the Sustainable Development Goals (SDGs) H2020- SC5-2020</b>			
<b>Title</b>	<b>Topic Identifier</b>	<b>Type of Action</b>	<b>Expected EC Contribution (M: million)</b>
<b>Connecting economic and environmental gains – the circular economy</b>			
Improving the sorting, separation and recycling of composite and multi-layer materials	<a href="#">CE-SC5-24-2020</a>	RIA	€4-5 M
Understanding the transition to a circular economy and its implications on the environment, economy and society	<a href="#">CE-SC5-25-2020</a>	RIA	€3-4 M
Develop and pilot circular systems in plastics, textiles and furniture sectors	<a href="#">CE-SC5-28-2020</a>	IA	€7-8 M
A common European framework to harmonise procedures for plastics monitoring and assessment	<a href="#">CE-SC5-29-2020</a>	CSA	~€2 M
Plastics in the environment: understanding the sources, transport, distribution and impacts of plastics pollution	<a href="#">CE-SC5-30-2020</a>	RIA	~€5 M
Develop, implement and assess a circular economy oriented product information management system for complex products from cradle to cradle	<a href="#">CE-SC5-31-2020*</a>	IA	€7-8 M
<b>Raw materials</b>			
Raw materials innovation for the circular economy: 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 and infrastructure d) Advanced sorting systems for high-performance recycling of complex end-of-life products e) Sustainable metallurgical processes	<a href="#">CE-SC5-07-2020*</a>	IA	€8-13 M
Raw materials policy support actions for the circular economy: Expert network on Critical Raw Materials	<a href="#">CE-SC5-08-2020*</a>	CSA	~€3 M
Raw materials innovation actions: exploration and Earth observation in support of sustainable mining c) Mining pilots d) Pilots on substitution of critical and scarce raw materials	<a href="#">SC5-10-2020</a>	IA	€8-13 M

Sustainable management in extractive industries	<u>SC5-26-2020</u>	CSA	~€2 M
<b>Innovating cities for sustainability and resilience</b>			
Strengthening international cooperation: Enhanced natural treatment solutions for water security and ecological quality in cities	<u>SC5-27-2020</u>	RIA	~€5 M
<b>Protecting and leveraging the value of our natural and cultural assets: Nature-based solutions, disaster risk reduction and natural capital accounting</b>			
Addressing wild pollinators decline and its effects on biodiversity and ecosystem services	<u>SC5-32-2020</u>	RIA	~€5 M
Monitoring ecosystems through research, innovation and technology	<u>SC5-33-2020</u>	CSA	~€3 M
<b>Specific support and implementation aspects</b>			
ERA-NET Cofund action for climate action, environment, resource efficiency and raw materials	<u>SC5-21-2020</u>	ERA-NET	~€4.5 M
ERA-NET Cofund action on conservation and restoration of degraded ecosystems and their biodiversity, including a focus on aquatic systems	<u>SC5-34-2020</u>	ERA-NET	~€5 M
ERA-NET Cofund action on enhancing urban transformation capacities	<u>SC5-35-2020</u>	ERA-NET	~€5 M
ERA-NET Cofund action on raw materials	<u>SC5-36-2020</u>	ERA-NET	~€5 M

\*Topics from SC5 Budget included into the Call “Competitive, Low Carbon and Circular Industries” (H2020-LOW-CARBON-CIRCULAR-INDUSTRIES-2020) included in the Work Programme “Cross-cutting activities”.

## 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	90%	≥ 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"> <li>• Phase 1: lump sum of € 50K / project</li> <li>• Phase 2: € 1 – 2.5M / project (1-2 years) (70% of eligible costs reimbursed)</li> <li>• Phase 3 : no funding</li> </ul>	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](http://www.euresearch.ch/en/contacts))
- For questions concerning the scientific aspects of your proposal, contact your National Contact Point Climate ([judith.zbinden@euresearch.ch](mailto:judith.zbinden@euresearch.ch)).