Societal Challenge 5 'Climate action, environment, resource efficiency and raw materials' - the policy landscape

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Horizon 2020
After nearly 4 years of implementation

Interim Evaluation

✓ An attractive, simplified and well-performing € 77 billion programme, but underfunded (12% success rate)
✓ On track to deliver value for money and to meet its knowledge-creating objectives
✓ Strong EU Added Value through unique opportunities, competition & access to new knowledge.

Participation (Oct. 2017)

✓ 15,000 grant agreements
✓ with € 27 billion EU contribution
✓ 65,000 participations
Horizon 2020: Next 3 years of implementation
Work Programme 2018-2020

Objectives of Strategic Programming

Provide for a coherent implementation of the Horizon 2020 objectives and the multiannual approach, taking account of the Interim Evaluation and first two work programmes (for 2014-15 and 2016-17)

Enhance relevance and impact by delivering against the EU policy priorities and the priorities 'Open Science - Open Innovation - Open to the World'

Prepare for a bridge in the last years of the programme to enable a smooth transition to the successor to Horizon 2020
Work Programme 2018-2020
R & I investment of € 30 billion for 3 years

- Addressing main concerns of citizens such as security, migration and economic situation...

- **Focus on impact** (fewer & broader topics with sharpened impact statements, better dissemination of results, open access to data...)

- **Piloting new initiatives** and **flexibility for 2020**, with 'minimum' content of calls and other actions at this stage
Focus Areas and other cross-cutting priorities

€ 7 billion for 4 mutually reinforcing focus areas
• aligned to political priorities
• expected to have exceptional impact
• implemented through 'virtual calls cutting across the programme (description in 'General Introduction', common call identifier of contributing calls and topics)

Further cross-cutting priorities
• Migration (€ 200M)
• Batteries (€ 100M + € 100M to come)
• Blue Growth, Cities ......
The Societal Challenge 5 policy context

**Global**

- Sustainable Development Goals
- Paris Climate Agreement
- United Nations Office for Disaster Risk Reduction
- UN World Conference on Disaster Risk Reduction
- Habitat III

**European**

- Digital Single Market
- 2030 Agenda for the EU
- EIP Water: Boosting opportunities – Innovating water
- European Innovation Partnership on Raw Materials

**United Nations**

Framework Convention on Climate Change
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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:

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

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

- **Total indicative budget 2018-2020 €1.1bn**
- **2018 topics open:** 7 November 2017
- **First call deadline:** 27 Feb 2018
Call "Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement"

- Decarbonisation
- Climate adaptation, impacts and services
- Inter-relations between climate change, biodiversity and ecosystem services [in 2019]
- The Cryosphere [in 2019]
- Knowledge gaps
- Earth observation [in 2020]

- Budget in 2018: €123 million
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

- **Budget in** 2018 €219.7 million
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Open science

✓ O.S. approaches embedded in topics
e.g. circular and regenerative cities; raw materials innovation for sustainable mining; digital solutions for water; solutions to improve health and well-being in cities

✓ Dedicated O.S. actions e.g. establishing 'EuroGEOSS'; commercial activities and services using GEOSS and Copernicus data

Open innovation

✓ Systemic approach across SC5 WP topics
✓ Involvement of wide circle of stakeholders
e.g. researchers, innovators, suppliers, customers/end-users, public at large: 10 topics
✓ Social sciences & humanities: 17 topics
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Open to the world

Dedicated international cooperation topics:

- Climate services (Africa)
- The Cryosphere (Arctic)
- Sustainable urbanisation (China and CELAC)
- Water (India)

International cooperation encouraged:

- Decarbonisation topics
- Climate knowledge gaps (Antarctica)
- Raw materials topics
- Earthquake early warning systems
- Climate change, biodiversity and ecosystem services (esp. CELAC)
- Cultural heritage network (EU Neighbourhood)
Thank you!

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More information:
www.ec.europa.eu/research

Participant Portal: