Horizon 2020
Work Programme for Research & Innovation 2018-2020

Societal Challenge 5 'Climate action, environment, resource efficiency and raw materials'

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• Challenge-based approach, with high-impact calls and fewer, broader topics, each supporting a balanced portfolio of projects

• Making research and innovation more visible through communication, open access to research results, new emphasis on data management
**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 strong commitment to support 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
Call "Greening the economy in line with the Sustainable Development Goals (SDGs)"

- Innovating cities for sustainability and resilience
- Strengthen international cooperation with China
- Protecting and leveraging the value of our natural and cultural assets: natural capital accounting;
- Protecting and leveraging the value of our natural and cultural assets: Earth observation

- **Budget in** 2018 €219.7 million
- **2018 topics open:** 7 November 2017
- **First call deadline:** 27 Feb 2018
SC5-13-2018-2019: Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems - EU-China collaboration (RIA) (1/2)

• Models, tools, DSS, methodologies, guidelines, standards, indicators ..... for the design, construction, deployment and monitoring of nature-based solutions and restoration and rehabilitation measures for urban and peri-urban ecosystems;

• Systemic “approaches” embedded in integrated urban planning and city-making process to enhance urban ecological coherence and ecological integrity;

• Review and capitalise upon existing experiences and good practices in Europe and China;

• Methodologies for assessment of cost-effectiveness of measures, accounting for totality of the benefits by restored ecosystems;
SC5-13-2018-2019: Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems - EU-China collaboration (RIA) (2/2)

• Raise **awareness** through **outreach** and **education** activities about benefits from nature;

• **Multi-stakeholder, multi-disciplinary** (including social sciences and humanities) and **balanced EU-China consortia**

• Foster **participatory engagement** and **co-creation** in urban ecological restoration actions;

• Indicative budget per proposal: **EUR 5 million**

**Eligibility and admissibility conditions**

• Consortia must comprise **at least three participants from China**
Protecting and leveraging the value of our natural and cultural assets: Nature-based solutions, disaster risk reduction and natural capital accounting

- **SC5-18-2018**: Valuing nature: mainstreaming natural capital in policies and in business decision-making (CSA)
  
  a) Valuing nature: developing and implementing natural capital and ecosystem accounts in EU Member States and Associated Countries
  
  b) Operationalisation of natural capital accounting in business decisions
SC5-18-2018: Valuing nature: mainstreaming natural capital in policies and in business decision-making (CSA)

To enhance the capacity of authorities and the private sector to i) better assess, value biodiversity and mainstream ecosystems and their services into accounting and decision making frameworks and ii) ensure long-term coherence between these two strands

a) Develop and implement natural capital and ecosystem accounts in EU Member States and Associated Countries

b) Operationalisation of natural capital accounting in business decisions
a) Develop and implement natural capital and ecosystem accounts in EU Member States and Associated Countries

Make optimal use of existent data and in line with the SEEA-EEA recommendations and capitalizing on the work of KIP-INCA partners (ENV, ESTAT, JRC, EEA, RTD) and MAES:

- Refine and implement European/international guidance standards in European countries;

- Capacity building and mentoring activities among countries advanced in natural capital and ES accounts and others at early stages of development of NC accounts;

**SEEA**: System of Environmental-Economic accounting;

**KIP-INCA**: Knowledge Innovation Project-Integrated Natural Capital Accounting
a) Develop and implement natural capital and ecosystem accounts in EU Member States and Associated Countries

- Experienced countries can further improve their accounts through experimentation of new approaches, testing new valuation techniques, etc.

- Strong commitment and participation from competent public authorities (Ministries or environmental agencies) and National Statistical Offices is highly recommended, since the project should lead to publication of accounts in national statistics.

- Indicative budget per project: EUR 3 million
b) Operationalisation of natural capital accounting in business decisions

- Facilitate the implementation of the "Natural Capital Protocol" at corporate level;

- Establish a network of networks ("Valuing Nature Programme and Network") linking relevant networks and initiatives to:
  
  I. Take stock of ongoing initiatives;
  
  II. Build a community of practice engaging businesses, administrations and academia in open source collaboration
  
  III. Recommend optimal and scientifically rigorous ways to operationalise and mainstream natural capital, including NBS, Green Infrastructures and biodiversity, in companies decision making and business models;

- Indicative budget per project: EUR 2 million
Call "Greening the economy in line with the Sustainable Development Goals (SDGs)"

Protecting and leveraging the value of our natural and cultural assets: Earth observation

Introduction GEO

- GEO is the global Group on Earth Observations
- Over 100 countries and 100 participating organisations
- Working on the GEOSS: Global Earth Observation System of Systems
- 3 ongoing initiatives: AmeriGEOSS, AfriGEOSS, AOGEOSS
- The SC5-15-2018 topic is about establishing 'EuroGEOSS'
  - From "data-centric approach" to "user-driven GEOSS"
  - Integrate scattered efforts: Horizon 2020, Copernicus, ESA, national initiatives,...
- Focus on Sustainable Development Goals, GEO Societal Benefit Areas and GEO priorities in a European context

- **Application-oriented** initiative aimed at **up-scaling** and **promoting** existing European GEOSS-actions and **accelerating users' uptake of EO data/information** for benefit of Europe

- **Integration of different sorts of data** (satellite, in-situ, citizen observatories, land-based, national data,...) to develop a **comprehensive suite of products, services or solutions** to European citizens

- **A coordinated approach** to promote collaboration amongst the **GEO members** and **participating organisations** within the European region

- The projects should be performed in **close collaboration** with the **European EO programme Copernicus** and be in **compliance with the INSPIRE Directive**

- **A plan for longer term sustainability** of applications developed through the 'EuroGEOSS' action should be elaborated

- **Innovation action**;

- **Budget**: € 15M
Thank you!

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

Participant Portal:

SC5 social media network on 'Yammer':
http://www.tinyurl.com/greenRTD
Thank you