

Horizon 2020 - Societal Challenge 5

Climate action, environment, resource efficiency
and raw materials

Work programme 2018-2020 – calls 2018



PRAXI Network

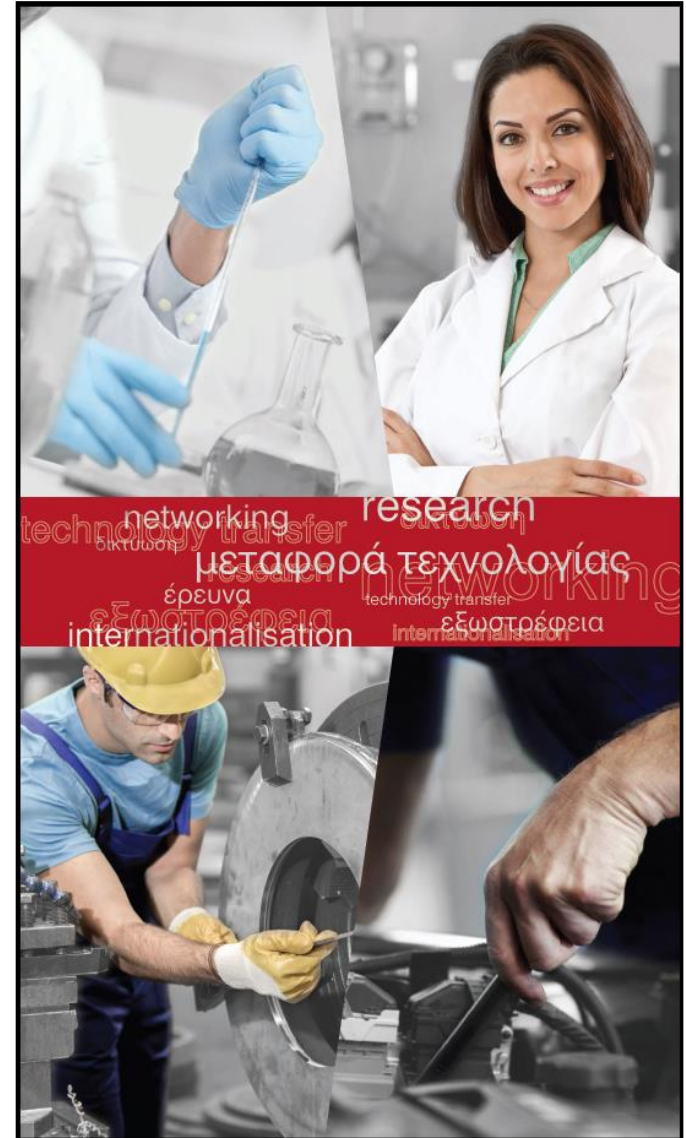
- A unit of Foundation for Research and Technology – Hellas (FORTH)
- Offers technology transfer services to companies, universities, research centres and more
- Established in 1991 with the mission to link industry with academia (FORTH, SEV, FING)



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PRAXI Network

Main activities

- › Member in Enterprise Europe Network
and Coordinator in Enterprise Europe Network - Hellas
- › National Contact Point for Horizon 2020
- › International Cooperation



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PRAXI Network – NCP for Horizon 2020

- ✓ Legal & Financial Aspects
- ✓ SMEs
- ✓ Access to Finance
- ✓ Nanotechnologies, advanced materials and advanced manufacturing and processing (NMP)
- ✓ Space
- ✓ Climate action, environment, resource efficiency and raw materials
- ✓ Smart, green and integrated transport
- ✓ Secure societies - protecting freedom and security of Europe and its citizens
- ✓ Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy
- ✓ Spreading excellence and widening participation



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PRAXI Network in NCP projects

✓ NMP



✓ Space



✓ Widening participation



✓ Food Security



✓ Transport



✓ Climate Action



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Societal Challenges in Horizon 2020

Societal Challenge 5 – Climate Action

The EU has identified seven priority challenges.

- ✓ targeted investment in research and innovation can have a real impact benefitting citizens

➤ ***Societal challenge 5:***

Climate action, environment, resource efficiency and raw materials

The era of never-ending cheap resources is coming to an end: access to raw materials and clean water can no longer be taken for granted. Biodiversity and ecosystems are also under pressure. The solution is to invest now in innovation to support a green economy – an economy that is in sync with the natural environment.



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Societal Challenges in Horizon 2020

Societal Challenge 5 – Climate Action

➤ ***Societal challenge 5:***

Climate action, environment, resource efficiency and raw materials

- Climate change is a cross-cutting priority in Horizon 2020 and accounts for 35 % of the overall budget across the programme.
- Waste and water are particular priorities. Waste is currently responsible for 2 % of the EU's greenhouse gas emissions, while boosting growth in the water industry by just 1 % could create up to 20 000 new jobs.



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

Objectives

Moving towards a greener, more resource efficient and climate-resilient economy in sync with the natural environment

Strong commitment to

- › UN's Sustainable Development Goals (SDGs)
- › COP21 Paris Agreement



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

Six priorities

- › Climate action in support of the Paris Agreement
- › Circular economy
- › Water for our environment, economy, society
- › Innovating cities for sustainability and resilience
- › Raw materials
- › Protecting and leveraging the value of our natural and cultural assets



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

Structure of the new work programme

Two main 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)**



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

- » *The COP21 Paris Agreement (PA) marked the beginning of a new era in the fight against climate change. Governments agreed to limit global temperature rise to well below 2°C and to make efforts to limit this to 1.5°C, as well as to enhance adaptive capacity, strengthening resilience and reducing vulnerabilities. This call contributes in its entirety to the Focus Area "Building a low-carbon climate-resilient future", which brings together funding to support the goals of the PA.*



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

8 topics (2018-2019) under the following thematic areas:

- Decarbonisation
- Climate adaptation, impacts and services
- Inter-relations between climate change, biodiversity and ecosystems
- The Cryosphere
- Knowledge gaps



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

In 2018:

- **LC-CLA-01-2018:** Supporting the development of climate policies to deliver on the Paris Agreement, through Integrated Assessment Models (IAMs)
- **LC-CLA-03-2018:** Climate change impacts in Europe
- **LC-CLA-04-2018:** Resilience and sustainable reconstruction of historic areas to cope with climate change and hazard events
- **LC-CLA-08-2018:** Addressing knowledge gaps in climate science, in support of IPCC reports

➤ Deadlines: 27 Feb 2018 (First Stage) / 04 Sep 2018 (Second Stage)



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

- › *This call focuses on 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).*



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

21 topics (2018-2019) under the following thematic areas:

- 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
- Protecting and leveraging the value of our natural and cultural assets: Nature-based solutions, disaster risk reduction and natural capital accounting
- Protecting and leveraging the value of our natural and cultural assets: Heritage alive



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

Circular economy in 2018:

- **CE-SC5-01-2018:** Methods to remove hazardous substances and contaminants from secondary raw materials
- **CE-SC5-02-2018:** Independent testing programme on premature obsolescence
- **CE-SC5-03-2018:** Demonstrating systemic urban development for circular and regenerative cities
- **CE-SC5-05-2018:** Coordinated approaches to funding and promotion of research and innovation for the circular economy

➤ Deadlines: 27 Feb 2018 (Single or First Stage) / 04 Sep 2018 (Second Stage)



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

Raw materials in 2018:

- **CE-SC5-06-2018:** New technologies for the enhanced recovery of by-products
- **CE-SC5-07-2018-2019-2020:** Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes
- **CE-SC5-08-2018-2019-2020:** Raw materials policy support actions for the circular economy
- **SC5-09-2018-2019:** New solutions for the sustainable production of raw materials

➤ Deadlines: 27 Feb 2018 (Single or First Stage) / 04 Sep 2018 (Second Stage)



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

Water in 2018:

- **SC5-11-2018:** Digital solutions for water: linking the physical and digital world for water solutions
 - **SC5-12-2018:** EU-India water co-operation
- Deadlines: 27 Feb 2018 (Single or First Stage) / 04 Sep 2018 (Second Stage)



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

Innovating cities in 2018:

- **SC5-13-2018-2019:** Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems
 - a) Strengthening EU-China collaboration (2018)
- Deadlines: 27 Feb 2018 (First Stage) / 04 Sep 2018 (Second Stage)



Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

Earth observation in 2018:

- **SC5-15-2018:** Strengthening the benefits for Europe of the Global Earth Observation System of Systems (GEOSS) - establishing 'EuroGEOSS'
- Deadlines: 27 Feb 2018 (First Stage) / 04 Sep 2018 (Second Stage)



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

Nature-based solutions in 2018:

- **SC5-17-2018:** Towards operational forecasting of earthquakes and early warning capacity for more resilient societies
 - **SC5-18-2018:** Valuing nature: mainstreaming natural capital in policies and in business decision-making
- Deadlines: 27 Feb 2018 (Single or First Stage) / 04 Sep 2018 (Second Stage)



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Societal Challenge 5 – Climate Action Work Programme 2018 -2020

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

Heritage alive in 2018:

- **SC5-19-2018:** International network to promote cultural heritage innovation and diplomacy
- Deadline: 27 Feb 2018 (Single Stage)



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Type of actions in Horizon 2020

Rules for Participation Standard eligibility conditions

Type of Action	Eligibility Conditions
Research & Innovation Actions (RIA)	<ul style="list-style-type: none"> ✓ At least three legal entities. ✓ Each of the three must be established in a different EU Member State or Horizon 2020 associated country. ✓ All three legal entities must be independent of each other.
Innovation Actions (IA)	
Coordination & Support Actions (CSA)	<ul style="list-style-type: none"> ✓ At least one legal entity established in an EU Member State or Horizon 2020 associated country.



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Technology Readiness Level in Secure Societies

Definitions of Technology Readiness Level

- ✓TRL 1 – basic principles observed
- ✓TRL 2 – technology concept formulated
- ✓TRL 3 – experimental proof of concept
- ✓TRL 4 – technology validated in lab
- ✓TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- ✓TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- ✓TRL 7 – system prototype demonstration in operational environment
- ✓TRL 8 – system complete and qualified
- ✓TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)



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H2020 SC5 Information day and brokerage event



Information Day and brokerage event on the H2020 WP 2018-2020 SC5 Climate Action, Environment, Resource Efficiency & Raw Materials - 2018 calls 8 and 9 November 2017, Brussels



- The event will be web-streamed
<https://ec.europa.eu/easme/en/2017-information-day>
(Registration is closed)



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Save the date!

Horizon 2020 Information Day

November 7, Athens

Presentation of the new Work Programmes 2018-2020:

- NMPB
- Transport
- Space
- Climate Action
- Food Security



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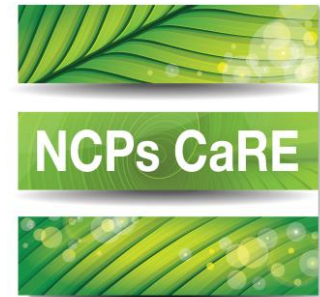
➤ Stay updated: <http://praxinetwork.gr>



NCPs CaRE project
www.ncps-care.eu

SC5 National Contact Points network

- › Information and networking events and services
- › Support in partner search



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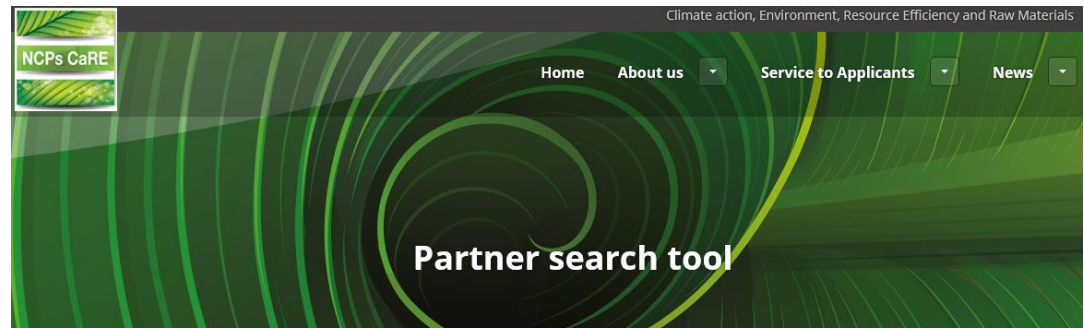
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NCPs CaRE – Partner search tool

<http://partnersearch.ncps-care.eu/>

- Create your cooperation profile
- Search for partnership opportunities



Search

Phrase:

Type of Calls:

Open Calls

Categories:

choose all

Sub-Categories:

please choose a category

Topics:

please choose a subcategory

Partner Login

Username (E-Mail address):

Password:

login

- [Registration](#)
- [Password lost?](#)



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Useful links

- › Horizon 2020 Participant Portal

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

- › Εθνικά Σημεία Επαφής (National Contact Points)

http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html

- › Enterprise Europe Network

<http://een.ec.europa.eu/>

- **Horizon 2020 Draft Work Programmes**

<https://ec.europa.eu/programmes/horizon2020/en/what-work-programme>



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National Contact Point

Vaya Piteli

NCP for H2020 SC5 Climate Action

PRAXI Network

piteli@praxinetwork.gr

+30 2310 552790



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Thank you
for your attention!



Katerina Papadouli

Technology Transfer Consultant

papadouli@praxinetwork.gr

Website: www.help-forward.gr

e-mail: praxi@help-forward.gr

   praxinetwork