

Eesti Teadusagentuur  
Estonian Research Council

# Horizon 2020 Environment

## Ülle Napa

NCP for Horizon 2020 SC5

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**Climate action, environment,  
resource efficiency and raw  
materials**

# H2020 structure

- total budget 77 028 mil. € (2014-2020)

I. Excellent Science	II. Industrial Leadership	III. Societal Challenges
ERC	LEIT (ICT, Nanotechnologies, Advanced materials, Biotechnology, Manufacturing and Processing, Space)	Health, demographic change and wellbeing
FET	Access to Risk Finance	Food security, sustainable agriculture ... and bioeconomy
Marie- Sklodowska-Curie Actions	Innovation in SMEs	Secure, clean and efficient energy
Infrastructures		Smart, green and integrated transport
		Climate action, environment, resource efficiency and raw materials
		Inclusive, innovative and reflective societies
		Secure societies

**Societal challenge 5 = SC5**

Spreading excellence and widening participation
Science with and for Society
Joint Research Centre (JRC)
The European Institute of Innovation and Technology (EIT)

resource efficiency  
ecosystems conservation  
sustainable development  
sustainable economy  
climate forecast  
raw materials  
mitigation measures  
environmental protection  
water resource  
modelling  
climate change  
climate actions  
eco-innovation  
environmental monitoring  
cultural heritage

# Mainstreaming of climate and sustainable development objectives

- Climate action, resource efficiency and sustainable development supported across the whole of Horizon 2020
- At least 60% of the overall Horizon 2020 budget should be related to sustainable development
- Climate-related expenditure should exceed 35% of the overall Horizon 2020 budget



## Objective:

To achieve a

- resource – and water – efficient and climate change resilient economy and society,
- the protection and sustainable management of natural resources and ecosystems,
- a sustainable supply and use of raw materials, in order to meet the needs of a growing global population within the sustainable limits of the planet's natural resources and eco-systems.

# Horizon 2020 environment topics 2016-2017

- broader topics, bottom-up approach
- key characteristics of each WP topic :
  - *Specific challenge* (definition of problem)
  - *Scope* (specification of range of activities)
  - *Expected impact* (key results)
  - *Type of action*



# Areas of the call „Greening the Economy“ 2016/17

- 1. Climate services**
- 2. Towards a low-carbon Europe**
- 3. Nature-based solutions for territorial resilience**
- 4. Water**
- 5. Raw materials**
- 6. Earth Observation**
- 7. Cultural heritage for sustainable growth**
- 8. Support to policy and preparing for innovation procurement**





# 1. Climate services 2016

Identifier	Topic	Action
SC5-01-2016	Demonstration of climate services	RIA
SC5-03-2016	Climate services market research	RIA
SC5-05-2016	A 1.5 million year look into the past for improving climate predictions	CSA

# 2. Towards a low-carbon Europe 2016

Identifier	Topic	Action
SC5-06-2016-2017	SC5-06-2016-2017: Pathways towards the decarbonisation and resilience of the European economy in the timeframe 2030-2050 and beyond	RIA

# 3. Nature-based solutions for territorial resilience 2016

Identifier	Topic	Action
SC5-09-2016	SC5-09-2016: Operationalising insurance value of ecosystems	RIA
SC5-10-2016	SC5-10-2016: Multi-stakeholder dialogue platform to promote innovation with nature to address societal challenges	CSA

# 4. Water 2016

Identifier	Topic	Action
SC5-11-2016	SC5-11-2016: Supporting international cooperation activities on water	CSA
SC5-12-2016	SC5-12-2016: Food systems and water resources for the development of inclusive, sustainable and healthy Euro-Mediterranean societies	CSA

# 5. Raw materials 2016

Identifier	Topic	Action
SC5-13-2016-2017	SC5-13-2016-2017: New solutions for sustainable production of raw materials	RIA
SC5-14-2016-2017	SC5-14-2016-2017: Raw materials Innovation actions	IA
SC5-15-2016-2017	SC5-15-2016-2017: Raw materials policy support actions	CSA
SC5-16-2016-2017	SC5-16-2016-2017: Raw materials international co-operation	CSA
SC5-17-2016	SC5-17-2016: ERA-NET Cofund on Raw material	ERA-NET Cofund

# 6. Earth Observation 2016

Identifier	Topic	Action
SC5-20-2016	SC5-20-2016: European data hub of the GEOSS information system	RIA

# 7. Cultural heritage for sustainable growth 2016

Identifier	Topic	Action
SSC5-21-2016-2017	SC5-21-2016-2017: Cultural heritage as a driver for sustainable growth	IA

# 8. Support to policy and preparing for innovation procurement 2016

Identifier	Topic	Action
SC5-25-2016	SC5-25-2016: Macro-economic and societal benefits from creating new markets in a circular economy	CSA
SC5-27-2016	SC5-27-2016: Preparing for pre-commercial procurement (PCP) and/or public procurement of innovative solutions (PPI) in support of climate action, environment, resource efficiency and raw materials	CSA
SC5-28-2016	SC5-28-2016: Transformations to sustainability	ERA-NET Cofund

# Cross-challenge issues/policy support

- **Coordinating and supporting research and innovation in the area of climate action, environment, resource efficiency and raw materials**
- **Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials**
- **New instruments from 2016 (PCP, Prizes)**



# Deadlines

- ! Call opening: 20.10.2015
- ! Deadline for 2016: 8.3.2016 (1st stage);  
6.9.2016 (2nd stage)

**NB! Separate deadlines for  
SME instrument**





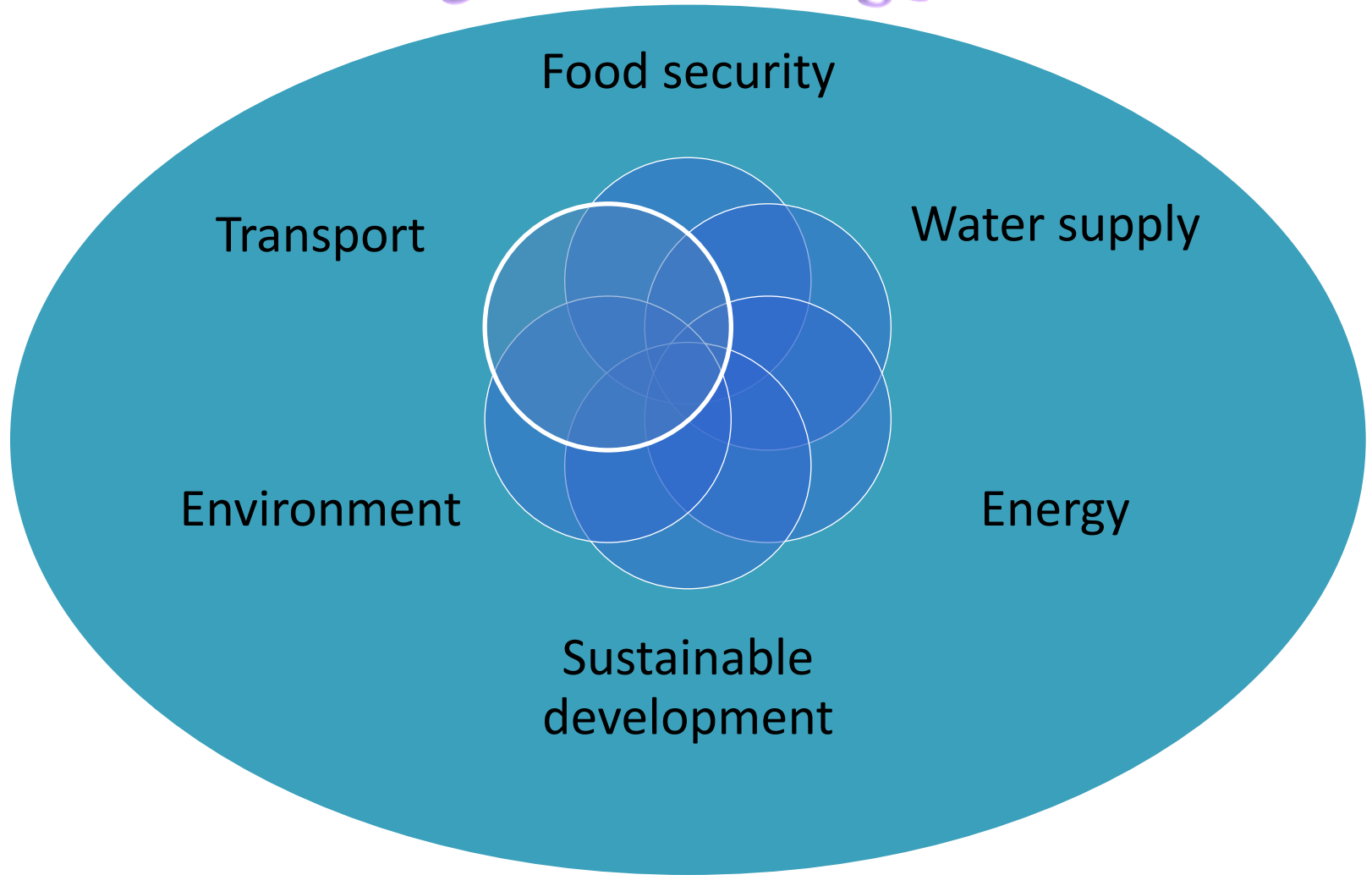
# Expected budget:

**2016 calls:** ~142.85 million €

**2017 calls:** ~183.10 million €



# Climate change



# Cross-cutting Activities relevant to SC5

## –Industry 2020 in the Circular Economy

### ➤ **Circular economy**

- Systemic, eco-innovative approaches: large-scale demonstration projects
- Water
- Urban organic waste
- Smart specialisation; economic incentives

– opening: 10.11.2015, deadline: 8.3.2016 (1st stage),  
6.9.2016 (2nd stage)

# Cross-cutting Activities relevant to SC5

– cont.

## –Smart and Sustainable Cities

### ➤ Sustainable cities through nature-based solutions

#### ➤ Lighthouse projects

- opening: 8.12.2015, deadline: 5.4.2016 (for 2016 topic), 14.2.2017 (for 2017 topic)

#### ➤ Nature-based solutions

#### ➤ New governance

- opening: 10.11.2015, deadline: 8.3.2016 (1st stage), 6.9.2016 (2nd stage)

# Environment related topics in other work programmes

**Challenge 2:** **Adaptation to climate change in agriculture, forestry and maritime**

**Challenge 3:** **low-carbon energy**

**Challenge 4:** **carbon-free transport**

**Challenge 7:** **extreme weather conditions**

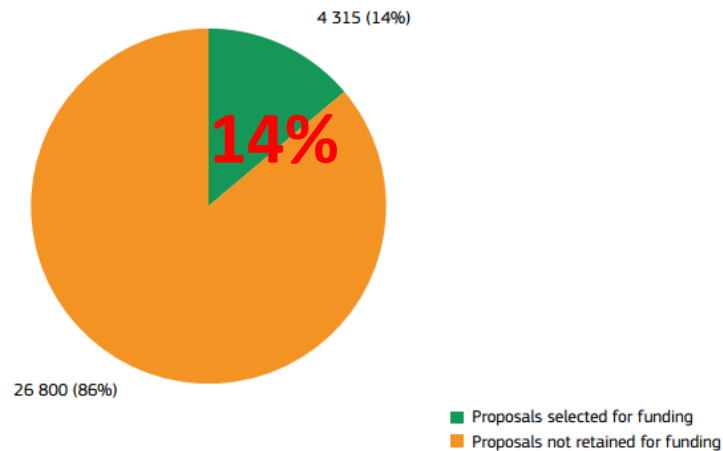
# Statistics

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SUCCESS RATES

## What percentage of proposals received funding?

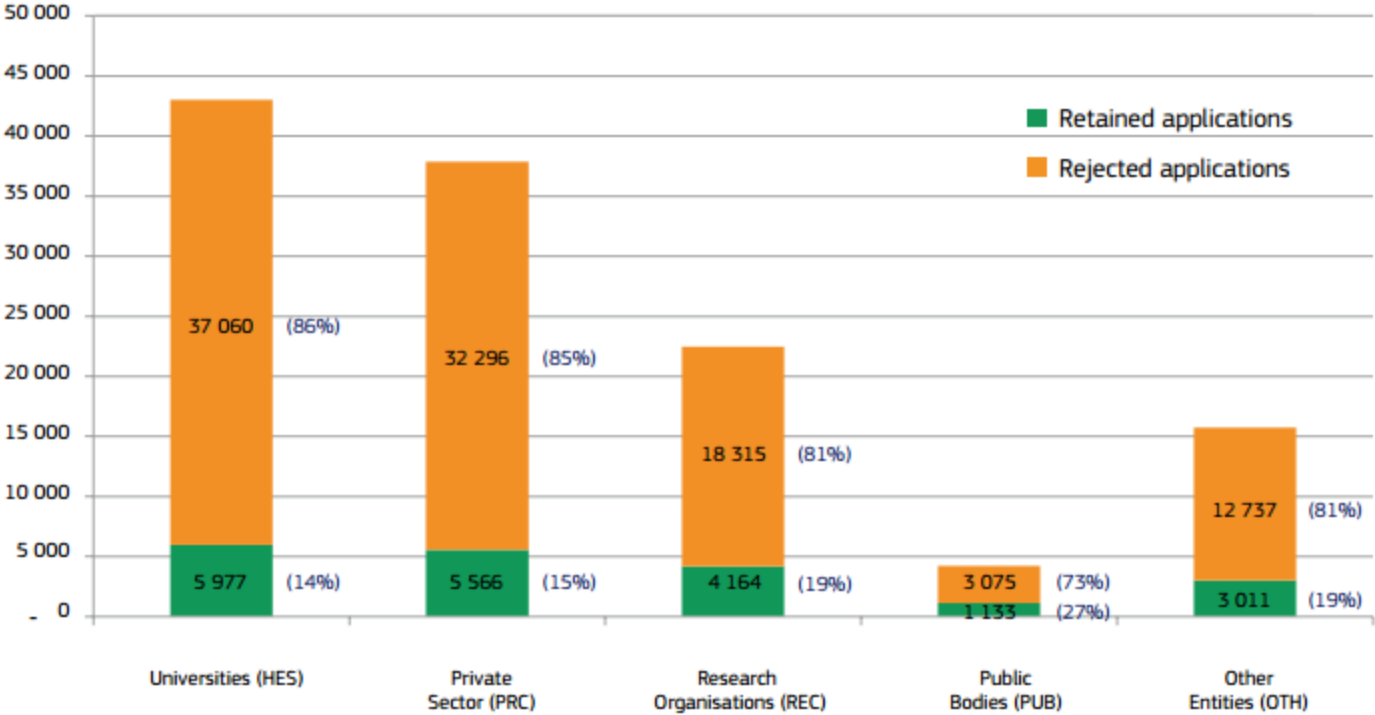
Success rate of eligible full proposals to Horizon 2020



This chart concerns the 31 115 full proposals that were received, comprising 29 794 full proposals in single-stage calls and 1 321 full proposals in the second stage of the two-stage calls. Around 14% of full proposals were selected for funding, a success rate which reflects the very high number of eligible proposals made to the first 100 calls. The success rate of eligible proposals over the full seven-year duration of the Seventh Framework Programme for Research (FP7) was around 20%.

# Which types of organisations applied to Horizon 2020?


Number of applications to Horizon 2020 per type of organisation



Universities are in first place in terms of the overall number of eligible applications, followed by the private sector and research organisations. Please refer to the section in the Glossary on *Evaluation procedure* for more information on how proposals are selected, and to *Definitions of types of organisations* for more information on the above classification.

# H2020 funded calls under environment topic (2014-2015)

At the moment:

- 141 grant agreements signed
- Total EC contribution: ~303 million €  
 AVG per Project: 2 million €



# H2020 funded calls under environment topic (2014-2015)

- Main coordinators:

Spain (ES) – 30 projects



United Kingdom (UK) – 20 projects



Germany (DE) – 17 projects



Italy (IT) – 17 projects

The Netherlands (NL) - 10 projects

# Funded environmental projects: in CORDIS

The screenshot shows the CORDIS website interface. At the top, the URL [cordis.europa.eu/projects/home\\_en.html](http://cordis.europa.eu/projects/home_en.html) is visible in the browser's address bar. The page header includes the European Commission logo and the text "CORDIS Community Research and Development Information Service". A navigation bar contains links for "Home", "News and Events", "Projects and Results", "research\*eu magazines", "Research Partners", and "National and Regional". A search bar is located on the right side of the navigation bar. Below the navigation bar, there is a "Browse by:" section with a dropdown menu. A red arrow points to the "Programme" option in this menu. The main content area features a heading "The primary information source for EU-funded projects since 1990" and a paragraph describing the "Projects & Results Service". Below this, there is a link to "Read more..." and a note about "Horizon 2020 project information". At the bottom, there are two search boxes: "Search projects" and "Search results".

[cordis.europa.eu/projects/home\\_en.html](http://cordis.europa.eu/projects/home_en.html)

Belarus - Wikipedia, the free encyclopedia

File Napa - Outlook... Dokumentihaldusk... Tartu Ülikooli kirjaka... Sign In Pm Postimees: Värsked ... Welcome to Facebo... Asukohapõhine pro... NCPs CaRE | Climate... HORIS

About CORDIS | Contact | Advanced Search | Legal Notice English (en)

European Commission

CORDIS  
Community Research and Development Information Service

European Commission > CORDIS > Projects & Results Service > Home Sign in

Home News and Events Projects and Results research\*eu magazines Research Partners National and Regional

**Browse by:**

- ▶ Subject
- ▶ Programme
- ▶ Content type
- ▶ Country

Advanced search

**The primary information source for EU-funded projects since 1990**

The **Projects & Results Service** is your one stop for information on EU-funded research projects and project results.

[Read more...](#)

Horizon 2020 project information is now [available on CORDIS](#) and the [EU Open Data Portal](#).

**Search projects**  
by free text, Project acronym, reference or record number

Project Acronym

**Search results**  
Results in Brief, Report Summaries or all results

All results

# Example:

European Commission > CORDIS > Projects & Results Service > Aerosols, Clouds, and Trace gases Research InfraStructure Sign

Home | News and Events | **Projects and Results** | research\*eu magazines | Research Partners | National and Regional

Download    | Print My booklet (1)

**HORIZON 2020** **ACTRIS-2**  
Project reference: 654109  
Funded under: [H2020-EU.1.4.1.2.](#)

**Aerosols, Clouds, and Trace gases Research InfraStructure**  
From 2015-05-01 to 2019-05-01, ongoing project

**Project details**

<b>Total cost:</b> EUR 10 126 484,54	<b>Topic(s):</b> <a href="#">INFRAIA-1-2014-2015 - Integrating and opening existing national and regional research infrastructures of European interest</a>
<b>EU contribution:</b> EUR 9 541 194,51	<b>Call for proposal:</b> H2020-INFRAIA-2014-2015
<b>Coordinated in:</b> Italy	<b>Funding scheme:</b> RIA - Research and Innovation action

## Partner in the Project:

B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus

# Lessons from first Horizon 2020 Calls – recommendations (1):

- Complicated and **unclear description of a project idea** – use good English and avoid complicated/long sentences
- The **scope is too broad**– less and concrete description is better
- Expected **impact is not clearly** written
- **Insufficient evaluation of risks**
- **Finances** – salaries not coherent with the average in the country
- The **goals** of the proposal are **too ambitious** for the time period



# Lessons from first Horizon 2020 Calls – recommendations (2):



- Previous **achievements** /projects **not** sufficiently **described**
- **Consortia unbalanced** – each partner needs to have a task
- **Gender balance** and regional balance
- Required **partners** (e.g. SME) are **missing**
- Weak **dissemination plan**
- **SSH** is not integrated to the proposal

# Horizon 2020 environment (SC5)

Work programme available at:

- <https://ec.europa.eu/programmes/horizon2020/en/draft-work-programmes-2016-17> (Draft 2016-17)

[Horizon 2020 European Commission web page](#)

- <http://ec.europa.eu/programmes/horizon2020/h2020-sections>

# Information sources

- **CORDIS**
- <http://cordis.europa.eu/fp7>
- Funded projects, partner searches, list of NCPs
- **Participant Portal**
- <http://ec.europa.eu/research/participants/portal/>
- Entry point for electronic administration of proposals and projects
- **Environmental Research and Innovation at EC pages**
- [http://ec.europa.eu/research/environment/index\\_en.cfm](http://ec.europa.eu/research/environment/index_en.cfm)
- Research areas, events, news, funding opportunities
- **NCPs CaRE**
- <http://www.ncps-care.eu>
- Events, FAQs
- **H2020 in Estonia**
- <http://www.horisont2020.ee>



# Partner Search Tool for environment topics

- Will be developed by NCPs CaRE Project
- Partner search tool by Germany:
- <https://www.nks-umwelt.de/request-offer-list-en>





# NCPs CaRE project



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"NCPs CaRE"

National **C**ontact **P**oints for  
Climate **a**ction, **R**aw materials, **E**nvironment and **R**esource **E**fficiency

Project of the National Contact Points in H2020 Societal Challenge 5

[www.ncps-care.eu](http://www.ncps-care.eu)