



**Horizon 2020**

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

***The CALL 4 IDEAS***

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# What is Horizon 2020?

- **Decided with €70.2 billion\* billion research and innovation funding programme (2014-2020)**
- **A core part of Europe 2020, the Innovation Union & the European Research Area:**
  - **Responding to the economic crisis to invest in future jobs and growth**
  - **Addressing people's concerns about their livelihoods, safety and environment**
  - **Strengthening the EU's global position in research, innovation and technology**
- **Coupling research to innovation** – "from research to retail", all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond

# Three priorities



## Societal Challenges: funding originally decided (€ million, 2014-2020)

<b>1. Health, demographic change and wellbeing</b>	<b>7 472</b>
<b>2. Food security, sustainable agriculture, marine and maritime and inland water research &amp; the Bioeconomy</b>	<b>3 851</b>
<b>3. Secure, clean and efficient energy *</b>	<b>5 931</b>
<b>4. Smart, green and integrated transport</b>	<b>6 339</b>
<b>5. Climate action, environment, resource efficiency and raw materials</b>	<b>3 081</b>
<b>6. Europe in a changing world - inclusive, innovative and reflective societies</b>	<b>1 309</b>
<b>7. Secure societies - protecting freedom and security of Europe and its citizens</b>	<b>1 695</b>

\* Additional funding for nuclear safety and security from the Euratom Treaty activities (2014-2018)

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

**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, and 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."*



### Broad lines of activities (2014-2020):

- Fighting and adapting to climate change
- Sustainably managing natural resources and ecosystems
- Sustainable supply of non-energy and non-agricultural raw materials
- Transition towards a green economy through eco-innovation
- Global environmental observation and information systems
- Cultural heritage

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**Framework Programmes have ensured continuity over the years, but also introduced necessary innovations**

**During its planned 7 years, Horizon 2020 has itself intrinsic elements of continuity e.g. the original Regulation and of novelty and adaptation e.g. via the periodic programming → the calls for proposals in the workprogrammes (which receive the opinion by the Programme Committee)**

## NEW in 2015: Fast track to Innovation

The **Fast Track to Innovation** (FTI) provides funding for close to market, business driven projects, in any area of technology.

- not restricted to SME (unlike SME Instrument or Eurostars programme)
- aim: reduce time from idea to market.
- 3-5 legal entities from at least 3 eligible States
- business-driven
- industry involvement requires: either the allocation of at least 60% of the budget to industry participants in the consortium or the presence of a minimum number of two industry participants in a consortium of three or four partners, or of three industry participants in a consortium of five partners
- One common and continuously open call
- Time-to-grant for participants = maximum 6 months
- EU funding levels: fixed at 70% of eligible costs
- €1 million and €2 million (in certain cases, up to €3 million)

# SME Instrument: how does it work?

## Phase 1: Concept and feasibility assessment

**Input:** Idea/Concept: "Business Plan 1"

**Activities:**  
Feasibility of concept  
Risk assessment  
IP regime  
Partner search  
Design study  
Pilot application  
etc.

10% success

**Output:** elaborated "Business plan 2"

**Lump sum: 50.000 €**  
~ 6 months

## Phase 2: R&D, demonstration, market replication

**Input:** "Business plan 2" plus description of activities under Phase

**Activities:**  
Development, prototyping, testing, piloting, miniaturisation, scaling-up, market replication, research

30-50% success

**Output:** "investor-ready Business plan 3"

**0.5-2.5 M€ EC funding**  
~ 12 to 24 months

## Phase 3: Commercialisation

Promote instrument as quality label for successful projects

Facilitate access to private finance


Support via networking, training, information, assistance with IP management, knowledge sharing, dissemination...

SME window in the EU financial facilities (debt facility and equity facility)

**No direct funding**



# Where to get help and support?



INFORMATION AND SUPPORT

## FIND INFORMATION AND SUPPORT

For guidance refer to the How to participate and Support menus which include:

- **H2020 online manual** leads you through all the processes starting from the proposal preparation and through the entire project lifecycle
- **Horizon 2020 helpdesk** - Questions on participation.
- **Reference documents** page gives you access to the work programmes, legal and guidance documents
- search for your **National Contact Points (NCPs)** or contact additional support networks and helpdesks
- check out the frequently asked questions (**FAQ**)
- contact the Participant Portal **IT helpdesk**

For specific factual questions on SC5 calls:  
[RTD-H2020-SC5-CALLS-2014-2015@ec.europa.eu](mailto:RTD-H2020-SC5-CALLS-2014-2015@ec.europa.eu)

# Steps for 2016-2017 programming

- aligning activities clearly with Commission President Juncker's policy priorities
- consultation of Member States (Programme Committee configurations)
- inputs from Advisory Groups
- inputs from other external stakeholders (SC5 launched an open consultation last year)
- Scoping paper
- Preparation of the workprogramme and liaison with the Programme Committees

**3<sup>rd</sup> Quarter 2015** (?): adoption of Work Programme 2016-2017 and publication of the first calls for proposals

- **Aligning to new Commission's priorities**
- **Inputs received**
- **Synergy e.g. with regional funds**

**indicate the need to support also/more/larger  
pilot/demonstration projects  
"to test the thing" and not only to study**

# A call for ideas for large-scale pilot / demonstration projects

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**Large-scale pilot / demonstration projects** are expected to realise and test new technological and non-technological solutions through first-of-a-kind experimental development under real life conditions

Target:  $5 \leq \text{TRL} \leq 7$  in technological development projects

Larger scale than the projects proposals presented - on average - under previous framework programmes in analogous areas

**All forms of innovation** can be addressed:

technological and technical, business model, finance, regulatory, governance and social innovation as well as any other type of non-technological innovation to realise a solution or overcome bottlenecks

# AIMS

**To identify research and innovation areas** attracting most interest from innovators and innovation users:

industries, financial actors, academia, research and innovation players, private or public entities, regions, cities, citizens and their organisations...

**To stimulate developers and providers** of innovative solutions to engage in projects of greater ambition in terms of scope, scale and impact...

Coherently with the open stakeholders consultation, the opinion of the Advisory Group and on-going discussion with the Programme Committee, identified areas are:

**Systemic eco-innovation for a circular economy**

**Climate Services**

**Nature-based Solutions**

**Water**

Each proposed project idea should:

- have appropriate critical mass, involve required actors and deliver innovative solutions and deploy them;
- maximise impact and economic , social and environmental co-benefits
- demonstrate EU added value and replication potential

# ... and then?

Commission will examine all ideas received, which will represent an input for

- the 2016 – 2017 programming and possibly the calls for proposals,
- defining and implementing a supportive EU research and innovation policy framework (also beyond technology),

Commission will publish consolidated results.



# ... and then?

Commission will not:

- Evaluate the ideas received or give any individual feedback,
- necessarily reproduce any of them into future calls for proposals,
- award any grant as a direct result of this call for ideas,
- disclose names or competitive ideas.

# How to submit your idea?

<http://ec.europa.eu/eusurvey/runner/CALLforIDEAS-SC5>

**Deadline: 28 February 2015**



The screenshot shows the EUSurvey website interface. At the top, there is a dark blue navigation bar with the EUSurvey logo and the text "All public surveys" on the left, and links for "Login", "About", "Support", "Download", and "Documentation" on the right. The main content area features the title "Call for Ideas - Pilot / demonstration projects" followed by "HORIZON 2020 - Climate Action, Environment, Resource Efficiency and Raw Materials". On the right side, there are two sections: "Views" with options for "Normal" and "Enhanced Contrast", and "Languages" with the option for "English". At the bottom left, the text "HORIZON 2020" is displayed. At the bottom right, the European Commission logo is shown, consisting of the European Union flag and the text "European Commission".

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for your attention!**

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