

# HORIZON 2020



## Horizon 2020 Work Programme for 2016- 2017 overview

Organized by Academy of Sciences of  
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# 10 PRIORITIES



Jobs, Growth and  
Investment



Digital Single  
Market



Energy Union and  
Climate



Internal Market



Economic and  
Monetary Union



EU-US Free Trade



Justice and  
Fundamental Rights



Migration



EU as a Global Actor



Democratic Change



## €16 BILLION FOR RESEARCH AND INNOVATION

Horizon 2020 Work Programme 2016-17 is directly aligned with the agenda of the Commission President Jean-Claude Juncker. It will contribute to the Jobs, Growth and Investment Package helping to strengthen Europe's global competitiveness, create new and sustainable jobs and promote growth. All the calls for proposals and activities will contribute substantially to this policy area as well as contributing in broader terms to one or more of the other areas.



*"Research and innovation are the engines of Europe's progress and vital to addressing today's new pressing challenges like immigration, climate change, clean energy and healthy societies. Over the next two years, €16 billion from Horizon 2020 will support Europe's top scientific efforts, making the difference to citizens' lives." \**

*\*Carlos Moedas, Commissioner for Research, Science and Innovation declaration*

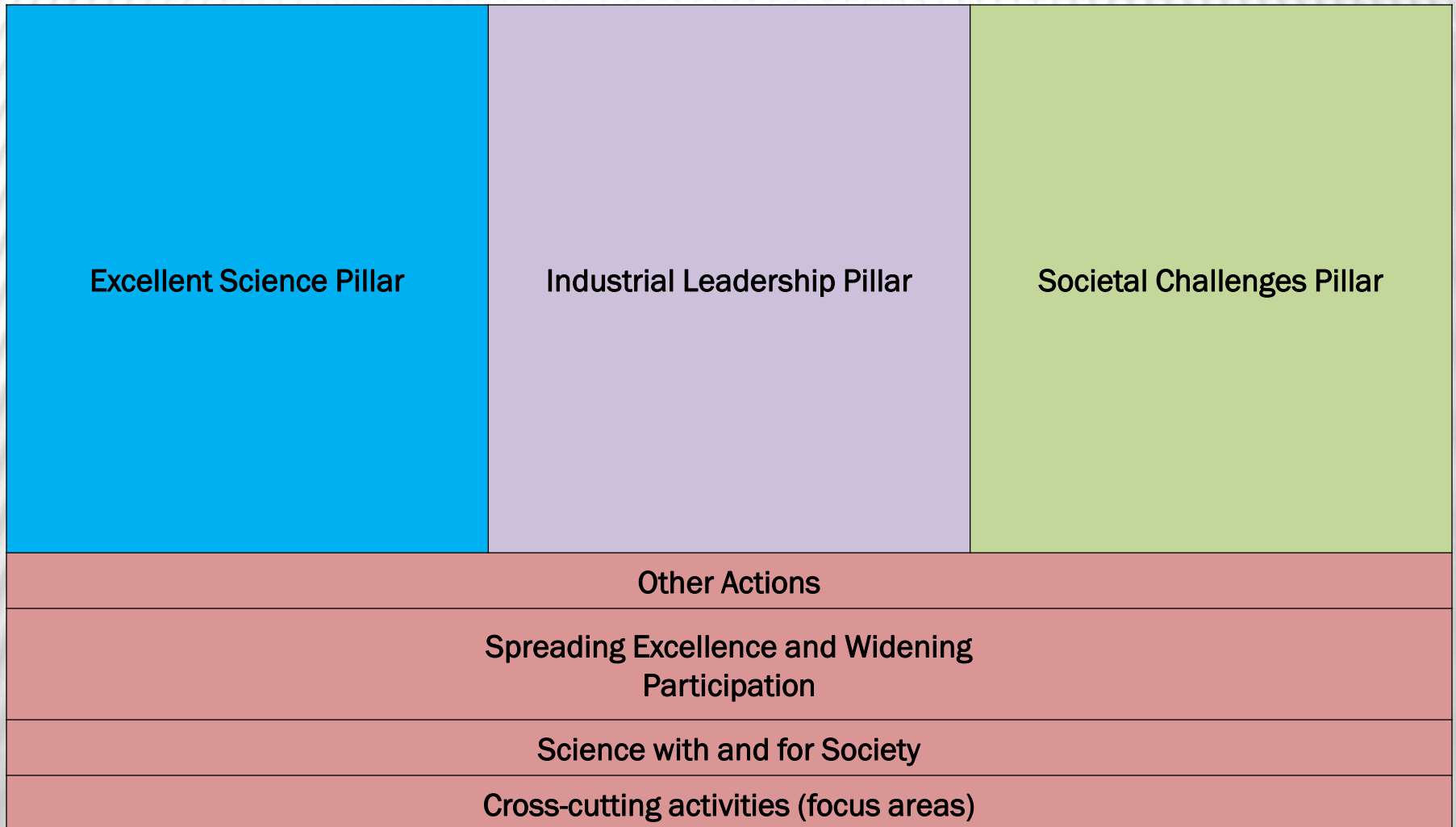


# OPEN INNOVATION, OPEN SCIENCE, OPEN TO THE WORLD





# HORIZON 2020 WORK PROGRAMME 2016-17





## **EXCELLENT SCIENCE**

- 1. European Research Council**
- 2. Future and Emerging Technologies**
- 3. Marie Skłodowska-Curie actions**
- 4. European research infrastructures (including eInfrastructures)**



# INDUSTRIAL LEADERSHIP

## 1. Leadership in enabling and industrial technologies (LEITs)

### Introduction to LEITs

#### i. Information and communication technologies

#### ii. Nanotechnologies, Advanced materials, Advanced manufacturing and processing, Biotechnology

#### iii. Space

## 2. Access to risk finance

## 3. Innovation in small and medium-sized enterprises





## SOCIETAL CHALLENGES

1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy
3. Secure, clean and efficient energy
4. Smart, green and integrated transport
5. Climate action, environment, resource efficiency and raw materials
6. Europe in a changing world - inclusive, innovative and reflective Societies
7. Secure societies - Protecting freedom and security of Europe and its citizens



## OTHER ACTIONS

### ➤ Spreading excellence and widening participation

Spreading excellence and widening participation

### ➤ Science with and for society

Science with and for society

### ➤ Cross-cutting activities - focus areas

Cross-cutting activities – focus areas

### ➤ Fast Track to Innovation Pilot

FTI Pilot



## SPREADING EXCELLENCE AND WIDENING PARTICIPATION

**TEAMING** will invest in Europe's research and innovation potential through supporting the creation of new (or upgrading of existing) Centres of Excellence in low R&I performing Member States and Associated Countries on the basis of partnerships with internationally leading institutions.

**TWINNING** aims to build on the huge potential of networking for excellence through knowledge transfer and, exchange of best practice between research institutions and leading partners.

**ERA Chairs** will bring outstanding researchers to universities and other research organisations, in those countries, that have high potential for research excellence to help them attract and maintain high quality human resources and implement the structural changes necessary to achieve excellence on a sustainable basis.



## SCIENCE WITH AND FOR SOCIETY

The Horizon 2020 Specific Programme describes the aim of 'Science with and for Society' (SWAFS) as follows:

*"The aim is to build effective cooperation between science and society, to recruit new talent for science and to pair scientific excellence with social awareness and responsibility".\**

\* Horizon 2020 Framework Programme for research and innovation (R&I) (2014-2020)



## CROSS-CUTTING ACTIVITIES - FOCUS AREAS

Synergies between Horizon 2020 and European Structural and Investment Funds (ESIF), which invest up to €90 billion in innovation and research in 2014-20, will expand the scope and impact of both instruments. ESIF could for example support those project proposals evaluated as excellent but which could not be funded because of insufficient Horizon 2020 budget. To facilitate this process, a Seal of Excellence will be provided as of 2016 to above-threshold proposals not-funded under the SME instrument.

Closing the research and innovation divide among countries to bring excellence to all corners of the EU will remain a key objective with the "Widespread" call (€202 million over two years).



## FAST TRACK TO INNOVATION PILOT

Fast Track to Innovation (FTI) pilot is testing a new approach to give the development of innovations the last push needed before their introduction to the market. It is the only fully bottom-up measure in Horizon 2020 promoting close-to-market innovation activities and open to all types of participants.

The FTI pilot aims to reduce the time from idea to market and to increase the participation in Horizon 2020 of industry, and in particular of first-time industry applicants. It should stimulate private sector investment, promote research and innovation with a focus on value creation, and accelerate the development of innovative products, processes and services.



## FUNDING FOR CALLS AND FINANCIAL INSTRUMENTS (IN € MILLION) 2016 - 2017

Funding for calls and financial instruments (in € million)				
Excellent Science Pillar	2016		2017	
	Calls	Budget	Calls	Budget
European Research Council	5 calls	1650.9		1650.9
Marie Skłodowska-Curie actions	5 calls	756.5	5 calls	839.5
Future and Emerging Technologies	4 calls	228.2	3 calls	162.8
European Research Infrastructures (including e-Infrastructures)	5 calls	229.5	5 calls	284.5
Industrial Leadership Pillar	2016		2017	
	Calls	Budget	Calls	Budget
Information and Communication Technologies	3 calls	476.5	2 calls	611.5
Nanotechnologies, Advanced Materials, Biotechnology and Production	2 calls	279.8	2 calls	308.4
Space	2 calls	87.7	3 calls	94.0
Access to Risk Finance	1 call + financial instrument	2.5 + 335.0	financial instruments	407.5
Innovation in small and medium-sized enterprises (does not include Eurostars)	2 calls	382.0	2 calls	412.2
Societal Challenges Pillar	2016		2017	
	Calls	Budget	Calls	Budget
Health, demographic social change and wellbeing	1 call	343.0	1 call	315.3
Food security, Sustainable Agriculture and Forestry, Marine and Maritime and Inland Water Research and the Bioeconomy	4 calls	340.5	4 calls	375.0
Secure, clean and efficient energy	2 calls	448.7	2 calls	468.6
Smart, green and integrated transport	3 calls	352.6	3 calls	403.5
Climate action, environment, resource efficiency and raw materials	1 call	142.9	1 call	183.1
Europe in changing world – inclusive, innovative and reflective societies	4 calls	98.0	4 calls	114.2
Secure societies	3 calls	196.8	3 calls	196.3
In addition	2016		2017	
	Calls	Budget	Calls	Budget
Spreading Excellence and Widening Participation	1 call	90.8	1 call	111.4
Science with and for Society	1 call	44.0	1 call	54.6
Cross-cutting activities (focus areas)	3 calls	577.5	3 calls	462.5



# RESEARCH & INNOVATION

## Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT

Search PP



LOGIN



REGISTER



On this site you can find and secure **funding** for projects under the following EU programmes:

- **2014-2020** Horizon 2020 - research and innovation framework programme
- **2007-2013** 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)
- Research Fund for Coal & Steel, COSME, 3rd Health Programme, Consumer Programme, Justice Programme

### Non-registered users

- search for funding
- read the H2020 Online Manual & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs

### Registered users

- submit your proposal
- sign the grant
- manage your project throughout its lifecycle
- register as expert advising the Commission







# RESEARCH & INNOVATION

European Commission

## Participant Portal

European Commission > Research & Innovation > Participant Portal > Funding

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LOGIN



REGISTER

- H2020 Online Manual
- Reference Documents**
- Beneficiary Register
- Financial Viability Self-Check
- SME Participation



### How to participate

H2020 ONLINE MANUAL

The first steps to prepare your proposal and apply for EU research funding. Learn how to find a suitable Call for proposals or project partners and how to submit your proposal.

The following guidance services facilitate your participation:

- **H2020 Online Manual:** step-by-step online guide through the Portal processes from proposal preparation and submission to reporting on your on-going project
- **Reference documents:** library of legal documents, guidance notes, and additional reference material for H2020 and FP7
- search for already registered organisations and their **PICs**
- **Financial viability self-check tool** allows you simulating the financial viability check of your organisation
- **SME participation:** dedicated H2020 guidance page for SME

FIND a call

1

FIND partners

2

CREATE your account

3

REGISTER your organisation

4

SUBMIT a proposal

5

#### Step 1 - Find a suitable Call for Proposals

H2020 ONLINE MANUAL

The Commission publishes on the Participant Portal all the Calls of its research and innovation programmes **H2020**, and you can search calls from previous programmes (**FP7** and **CIP**). In addition you can find information about some additional calls in the **Other Funding Opportunities** section. If you apply for the first time and do not know what the requirements are, it is useful to

- ERC rules for submission and evaluation
- Work Programmes
  - 2014-15
  - 2016-17
    - Main WP**
      - 1. Introduction 2016-17 >
      - 2. Frontiers and Emerging Technologies (FETs) 2016-17 >
      - 3. Marie Skłodowska-Curie actions (MSCA) 2016-17 >
      - 4. Research infrastructures (including e-Infrastructures) 2016-17 >
      - 5. Introduction to Leadership in enabling and industrial technologies (LEITs) 2016-17 >
      - 5i. Information and communication technologies (ICT) 2016-17 >
      - 5ii. Nanotechnologies, advanced materials, advanced manufacturing and processing, biotechnology 2016-17 >
      - 5iii. Space 2016-17 >
      - 6. Access to risk finance 2016-17 >
      - 7. Innovation in SMEs 2016-17 >
      - 8. Health, demographic change and wellbeing 2016-17 >
      - 9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy 2016-17 >
      - 10. Secure, clean and efficient energy 2016-17 >
      - 11. Smart, green and integrated transport 2016-17 >
      - 12. Climate action, environment, resource efficiency and raw materials 2016-17 >
      - 13. Europe in a changing world - inclusive, innovative and reflective societies 2016-17 >
      - 14. Secure societies - protecting freedom and security of Europe and its citizens 2016-17 >
      - 15. Spreading excellence and widening participation 2016-17 >
      - 16. Science with and for society 2016-17 >
      - 17. Cross-cutting activities (Focus Areas) 2016-17 (NEW) >
      - 18. Fast Track to Innovation Pilot 2016-17 >
      - 19. Dissemination, Exploitation and Evaluation 2016-17 >
    - General Annexes to the Main WP
    - European Research Council
    - Euratom
- Templates & forms
  - Proposal templates
  - Proposal evaluation forms
  - Project reporting templates



## USEFUL LINKS

RESEARCH PARTICIPANT PORTAL:

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

Community Research and Development Information Service:

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

European Union Open Data Portal:

<https://open-data.europa.eu/en/data>

Directorate General for Research and Innovation:

<http://ec.europa.eu/research/index.cfm?pg=dg>

European Commission:

[http://ec.europa.eu/index\\_en.htm](http://ec.europa.eu/index_en.htm)

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Thank you for your attention!

Legal&Finacial NCP

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