



# HORIZON 2020

TRAINING SEMINAR  
EUROPEAN DOCUMENTATION CENTRES  
BRUSSELS 6.10.17



**Alan Cross**  
**Horizon 2020 policy**  
**DG Research and Innovation**

- **Structure and budget**
- **Implementation**
- **Sources of information**
- **Next steps**

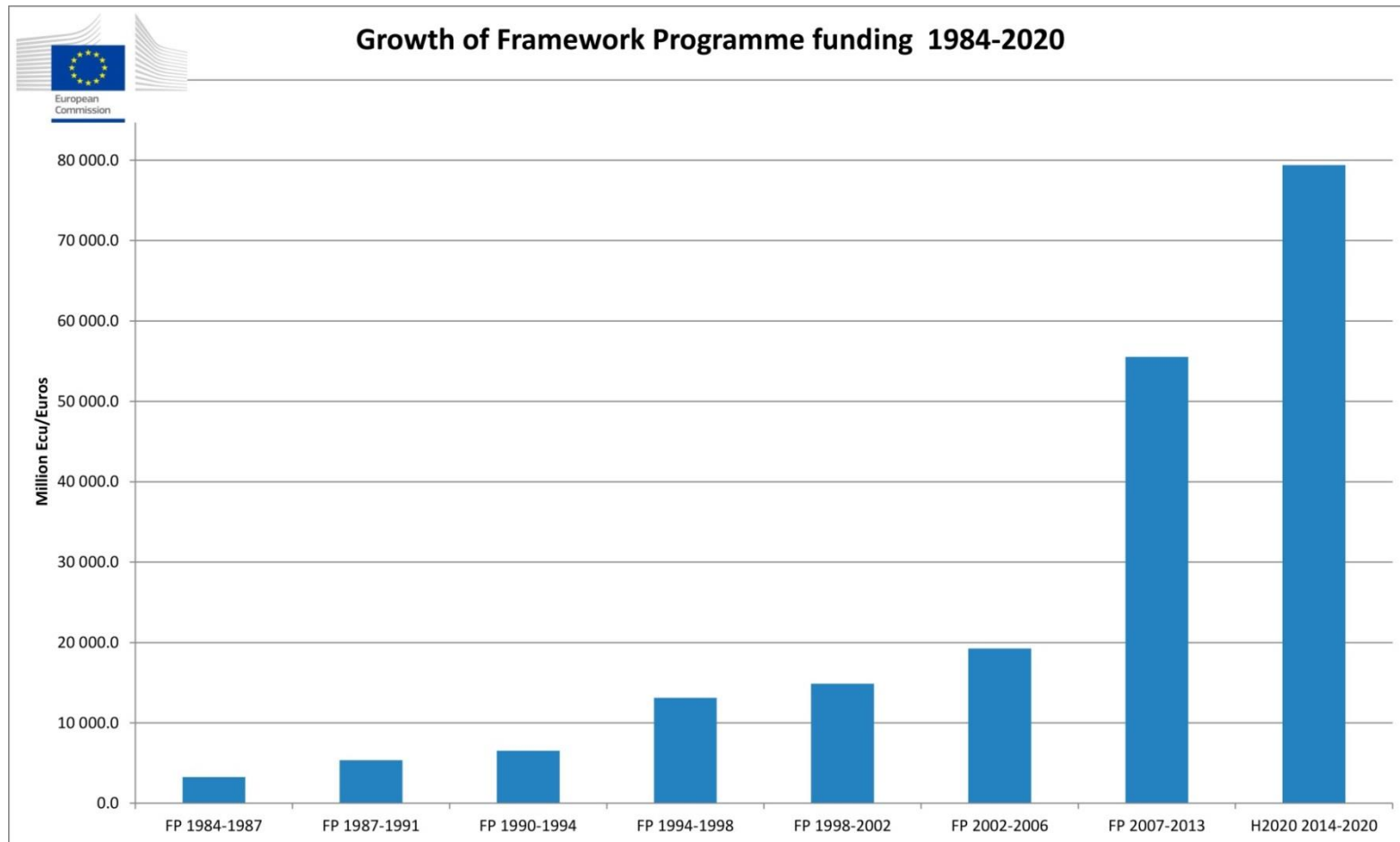
# Structure and budget

# Horizon 2020

## *The European Union programme for research and innovation for 2014-2020*

- Key instrument **to stimulate and leverage R&I investment for securing Europe's future**
- **Integration of research and innovation** aimed at delivering more breakthroughs and discoveries
- **Focus on societal challenges** facing EU society,
- **Simplified access**
- **New instruments** that address broader range of stakeholders





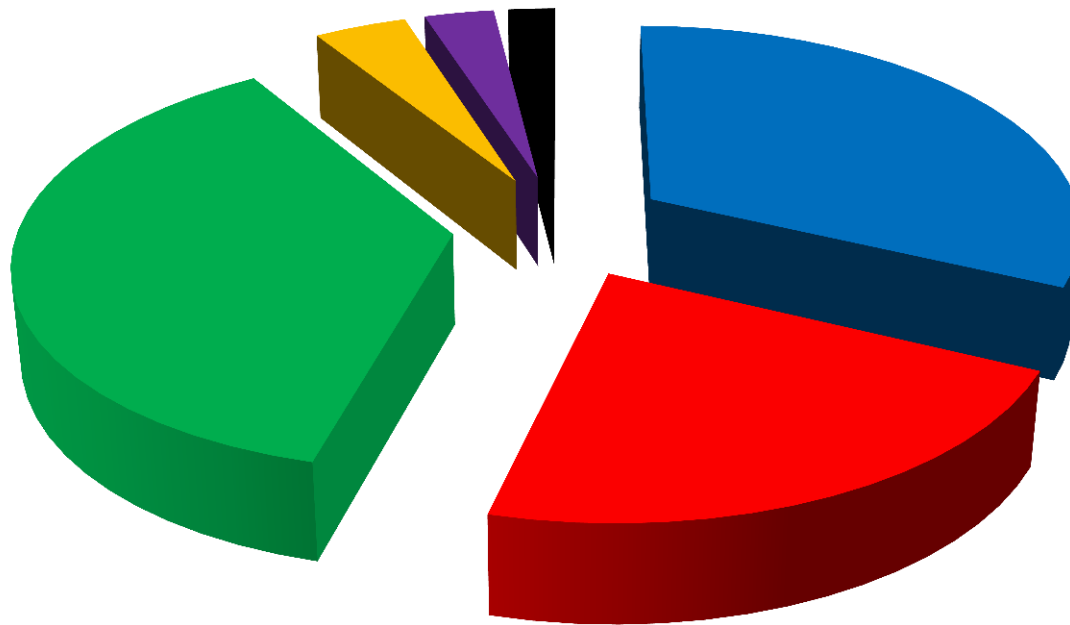
(c) European Union 2013

Innovation

# € 77 billion from 2014-2020

**Horizon 2020 budget\* (in current prizes)**

- Excellent science EUR 24.2 billion



■ Industrial leadership  
EUR 16.5 billion

■ Societal Challenges  
EUR 28.6 billion

■ Other  
EUR 3.1 billion

■ EIT  
EUR 2.4 billion

■ Euratom (2014-2018)  
EUR 1.6 billion

**\* Contribution to European Fund  
for Strategic Investments (EFSI)**

# Three priorities





## **Priority 1 - Excellent science**

- ***Why:***
- **World class science is the foundation of tomorrow's technologies, jobs and wellbeing**
- **Europe needs to develop, attract and retain research talent**
- **Researchers need access to the best infrastructures**



## Funding Excellent science (€m, 2014-2020)

<b><i>European Research Council (ERC)</i></b> Frontier research by the best individual teams	<b>13 095</b>
<b><i>Future and Emerging Technologies</i></b> Collaborative research to open new fields of innovation	<b>2 585</b>
<b><i>Marie Skłodowska-Curie actions (MSCA)</i></b> Opportunities for training and career development	<b>6 162</b>
<b><i>Research infrastructures</i></b> (including e-infrastructure) Ensuring access to world-class facilities	<b>2 389</b>

## **Priority 2. - Industrial leadership**

- ***Why:***
- **Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors**
- **Europe needs to attract more private investment in research and innovation**
- **Europe needs more innovative small and medium-sized enterprises (SMEs) to create growth and jobs**

# Funding Industrial leadership (€m, 2014-2020)

<b><i>Leadership in enabling and industrial technologies (LEITs)</i></b> (ICT, nanotechnologies, materials, biotechnology, manufacturing, space)	<b>13 035</b>
<b><i>Access to risk finance</i></b> InnovFIN - Leveraging private finance and venture capital for research and innovation	<b>2 842</b>
<b><i>Innovation in SMEs</i></b> Fostering all forms of innovation in all types of SMEs	<b>589</b> + complemented by expected 20% of budget of societal challenges + LEITs and ' <b><i>Access to risk finance</i></b> ' with strong SME focus

## **Priority 3 - Societal challenges**

- ***Why:***

- **Concerns of citizens and society/EU policy objectives (climate, environment, energy, transport, etc) cannot be achieved without innovation**
- **Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities**
- **Promising solutions need to be tested, demonstrated and scaled up**

## Funding Societal challenges (€m, 2014-2020)

<b>Health, demographic change and wellbeing</b>	<b>7 257</b>
<b>Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy</b>	<b>3 707</b>
<b>Secure, clean and efficient energy *</b>	<b>5 688</b>
<b>Smart, green and integrated transport</b>	<b>6 149</b>
<b>Climate action, environment, resource efficiency and raw materials</b>	<b>2 956</b>
<b>Inclusive, innovative and reflective societies</b>	<b>1 258</b>
<b>Secure societies</b>	<b>1 613</b>
<i>Science with and for society</i>	<i>445</i>
<i>Spreading excellence and widening participation</i>	<i>816</i>

# Implementation

# Implementation

- Proposals are evaluated by independent experts. Only the most excellent are funded
- A work programme is prepared every 2 years
- It sets out calls for proposals, budget, conditions etc
- The work programme for 2018-2020 is due to be adopted by the Commission on 27 October
  - Building on lessons learned, more impact, bigger topics, pilots for the future, "focus areas" cutting across sectors

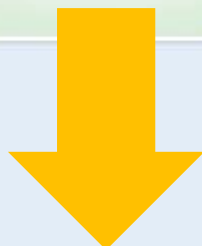


# Focus areas evolution along Horizon 2020



## Sources of information

- Horizon 2020 on Europa
- Participant Portal
- National Contact Points
- Helpdesk (Research Enquiry Service)



## Home



## Latest news and events

Blue Growth Research & Innovation

Date: 17/11/2017

Brussels

All you need to know about the Blue Growth [Read more](#)

Registrations for the Horizon 2020 Societal Challenge 2 Infoweek are now open

Date: 29/09/2017

Horizon 2020 Societal challenge 2 Infoweek: all there is to know about new funding opportunities, Bioeconomy Policy, Digitisation and Blue Growth. [Read more](#)

Horizon 2020 Info Day on Societal Challenge 2

Date: 14/11/2017

Rue de la Loi 170, 1040, Bruxelles

Come and learn about the results of the new Work Programme 2018



Search



Project Stories

Multimedia &  
Publications

Follow us:




#H2020



**Horizon 2020**

@EU\_H2020

#IndustryInnovDay starts again at 2pm 🕒 join us live! Opportunities in 2018-2020 NMBP calls & proposal ideas #H2020 [europea.eu/!rd97Md](https://europea.eu/!rd97Md) [pic.twitter.com/mlEpBXNtMT](https://pic.twitter.com/mlEpBXNtMT)




# RESEARCH & Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT  LOGIN REGISTER

Participant Portal IT How To service will be unavailable on **Wednesday, 04th of October from 06:00 until 09:00 (CET)**.  
We apologise for any inconvenience this may cause.



## Horizon 2020 Funding

Starting from 1/1/2014

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)
- 3rd Health Programme, Asylum, Migration and Integration Fund, Consumer Programme, COSME, Internal Security Fund Borders, Internal Security Fund Police, Justice Programme, Promotion of Agricultural Products Programme, Rights, Equality and Citizenship Programme and Research Fund for Coal & Steel

### 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




WHAT'S NEW?




FUNDING OPPORTUNITIES




HOW TO PARTICIPATE



WORK AS AN EXPERT



MY PERSONAL AREA



INFORMATION AND SUPPORT

HORIZON 2020   RESEARCH ON EUROPA   HORIZON 2020 & FP7 PROJECTS & RESULTS   OLAF

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





# RESEARCH & INNOVATION

## Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT  LOGIN REGISTER



Participant Portal IT How To service will be unavailable from 09:00 until 09:00 (CET). We apologise for any inconvenience this may cause.



On this site you can find and secure funding from:

- 2014-2020 Horizon 2020 - research and innovation
- 2007-2013 7th research framework programme
- 3rd Health Programme, Asylum, Migration and Integration Fund, Consumer Programme, COSME, Internal Security Fund Borders, Internal Security Fund Police, Justice Programme, Promotion of Agricultural Products Programme, Rights, Equality and Citizenship Programme and Research Fund for Coal & Steel

### 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



WHAT'S NEW?



FUNDING OPPORTUNITIES



HOW TO PARTICIPATE



WORK AS AN EXPERT



MY PERSONAL AREA



INFORMATION AND SUPPORT

HORIZON 2020 RESEARCH ON EUROPA HORIZON 2020 & FP7 PROJECTS & RESULTS OLAF

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

### EU Programmes 2014-2020

Search Topics

Updates



Calls



H2020

3rd Health Programme

Asylum, Migration and  
Integration Fund

Consumer Programme

COSME

European Statistics

Hercule III Programme

Internal Security Fund - Borders

Internal Security Fund - Police

Justice Programme

Pilot Projects & Preparatory  
Actions

Promotion of Agricultural  
Products

Research Fund for Coal & Steel

Rights, Equality and Citizenship  
Programme

Union Civil Protection  
Mechanism

### FP7 & CIP Programmes 2007-2013

Calls

Other Funding Opportunities

Participant Portal IT How To service will be unavailable on **Wednesday, 04th of October from 06:00 until 09:00 (CET)**.  
We apologise for any inconvenience this may cause.



### Funding Opportunities

[H2020 ONLINE MANUAL](#)

Find the European Union funding opportunities and search for new or closed calls of the programmes described on this page.

See the full list of the Commission funding programmes.



### Horizon 2020

Horizon 2020 is the new EU funding programme for research and innovation running from 2014 to 2020 with a €80 billion budget. H2020 supports **SMEs** with a new **instrument** that runs throughout various funded research and innovation fields, enhances EU **international research** and Third Country participation, attaches high importance to integrate **social sciences** and **humanities** encourages to develop a **gender dimension** in project.

### Cosme

Programme for the Competitiveness of Enterprises and SMEs (COSME) will run from 2014 to 2020, with a planned budget of €2.3bn. It will facilitate SME access to finance, create supportive environment for business creation, help small businesses operate outside their home countries and improve their access to markets.



### Consumer Programme

The **Multiannual Consumer Programme** 2014-2020 has a planned budget of 188 million EUR. It will support actions that ensure a high level of consumer protection, that empower consumers and that place the consumer at the heart of the internal market.



European  
Commission

# RESEARCH & INNOVATION

## Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT

Search



LOGIN



REGISTER

### EU Programmes 2014-2020

Search Topics

Updates



Calls



H2020

3rd Health Programme

Asylum, Migration and  
Integration Fund

Consumer Programme

COSME

European Statistics

Hercule III Programme

Internal Security Fund - Borders

Internal Security Fund - Police

Justice Programme

Pilot Projects & Preparatory  
Actions

Promotion of Agricultural  
Products

Research Fund for Coal & Steel

Rights, Equality and Citizenship  
Programme

Union Civil Protection  
Mechanism

### FP7 & CIP Programmes 2007-2013

Calls

Other Funding Opportunities

Participant Portal IT How To service will be unavailable on **Wednesday, 04th of October from 06:00 until 09:00 (CET)**.  
We apologise for any inconvenience this may cause.



## Calls for Proposals



Horizon 2020

[Advanced search for topics](#)  
[Calls for tenders on TED](#)



Excellent Science



European Research Council (ERC)



Future and Emerging Technologies (FET)



Marie-Sklodowska-Curie Actions



Research Infrastructures



Industrial Leadership



Leadership in enabling and industrial technologies (LEIT)



Information and Communication Technologies

Status



Calls with forthcoming topics



Calls with open topics



Calls with only closed topics

Sort by



Call title



Call identifier



Publication date

Filter a call

FILTER

#### Industrial Leadership

Inducement prize: Online security -  
Seamless personal authentication  
H2020-OnlineSecurityPrize-  
2017

Publication date:27 September 2017

#### Excellent Science

Call for proposals for ERC Proof of  
Concept Grant

ERC-2018-PoC

Publication date:06 September 2017

#### Science with and for Society

EU Prize for Women Innovators  
2018

H2020-SWFS-Prize-2017-35

Publication date:05 September 2017

#### Excellent Science

Call for proposals for ERC Synergy  
Grant

ERC-2018-SyG

Publication date:24 July 2017

#### Excellent Science

Call for proposals for ERC Starting  
Grant

ERC-2018-STG

Publication date:24 July 2017

#### Societal Challenges

H2020-JTI-IMI2-2017-12-two-stage  
H2020-JTI-IMI2-2017-12-two-  
stage

Publication date:19 July 2017

#### Societal Challenges

H2020-JTI-IMI2-2017-11-single-  
stage

H2020-JTI-IMI2-2017-11-  
single-stage

Publication date:19 July 2017

#### Industrial Leadership

Inducement prize: Tactile Displays  
for the Visually Impaired

H2020-TactilePrize-2017

Publication date:23 May 2017

#### Industrial Leadership

Inducement prize: Zero Power  
Water Infrastructure Monitoring

H2020-PowerWaterPrize-2018

Publication date:19 April 2017

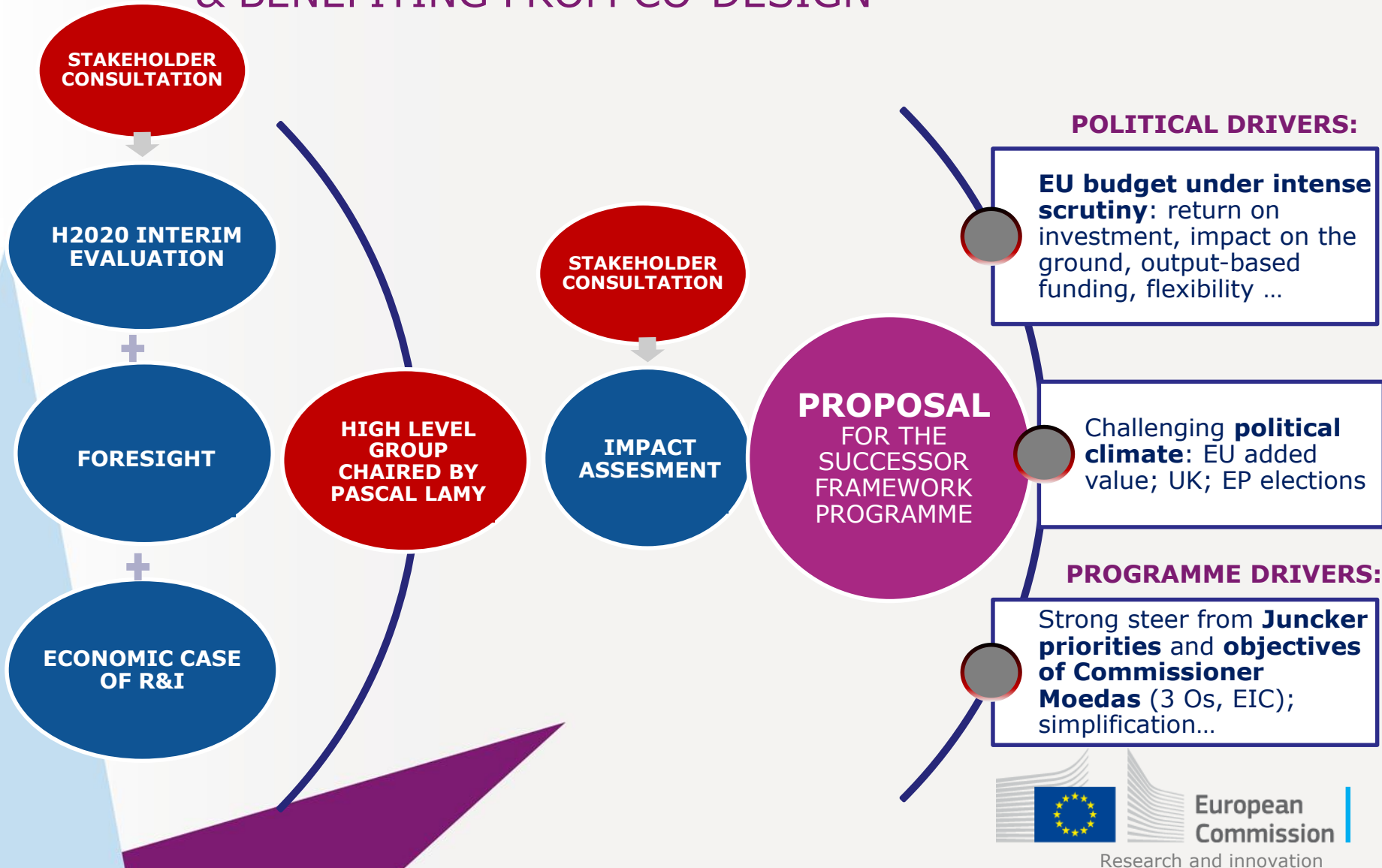


# Next steps



## TOWARDS FP9:

LEARNING FROM THE PAST, CONSIDERING THE FUTURE  
& BENEFITING FROM CO-DESIGN





## TOWARDS FP9:

Key findings from the H2020 INTERIM EVALUATION

### KEY STRENGTHS



**An attractive, simplified and well-performing programme,** highly relevant for stakeholders and societal needs.



On track to deliver **value for money** and **to meet its knowledge-creating objectives.**



Strong **EU Added Value** through unique opportunities, competition & access to new knowledge.



## **TOWARDS FP9:**

Key findings from the H2020 INTERIM EVALUATION

### **KEY AREAS FOR IMPROVEMENT**



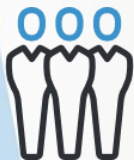
#### **Underfunding**

Has lower success rates than FP7, esp. for high quality proposals.



#### **Support for market-creating innovation**

Demonstrates potential for breakthrough, market-creating innovation, but it should be strengthened substantially.



#### **Greater outreach to civil society**

Should better explain the impacts of R&I, and involve even more the users & citizens in agenda-setting & implementation.



## TOWARDS FP9: LAMY HIGH LEVEL GROUP – REPORT

- 'LAB – FAB – APP: Investing in the European future we want', available on High Level Group web page:

[https://ec.europa.eu/research/evaluations/index\\_en.cfm?pg=hlg](https://ec.europa.eu/research/evaluations/index_en.cfm?pg=hlg)

- Published on 3 July 2017 during 'Research and Innovation – Shaping our Future' conference in Brussels
- The report will set the scene for a public and political debate on research and innovation in the post-2020 EU budget, and is expected to influence the development of FP9
- 11 recommendations and accompanying actions
- Members of the High Level Group will act as ambassadors for the recommendations during the months ahead (a follow-up meeting is scheduled for January 2018)



*Thank you for your  
attention!*