



#InvestEUresearch



Horizon 2020 Work Programme for Research & Innovation 2018-2020

€1,3 billion
**Food security, sustainable agriculture and
forestry, marine, maritime and inland
water research and the bioeconomy**

Davide AMATO

Team Leader – Transition Analysis and Outreach

European Commission – DG R&I, C5 Environmental and Social Transition



WP at a glance

The policy context

- Global commitments

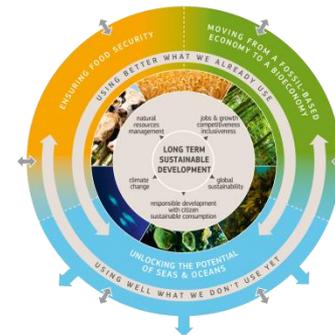


United Nations
Framework Convention on
Climate Change

- European policies



CAP & EIP-AGRI



Bioeconomy strategy



Climate & energy



Circular economy

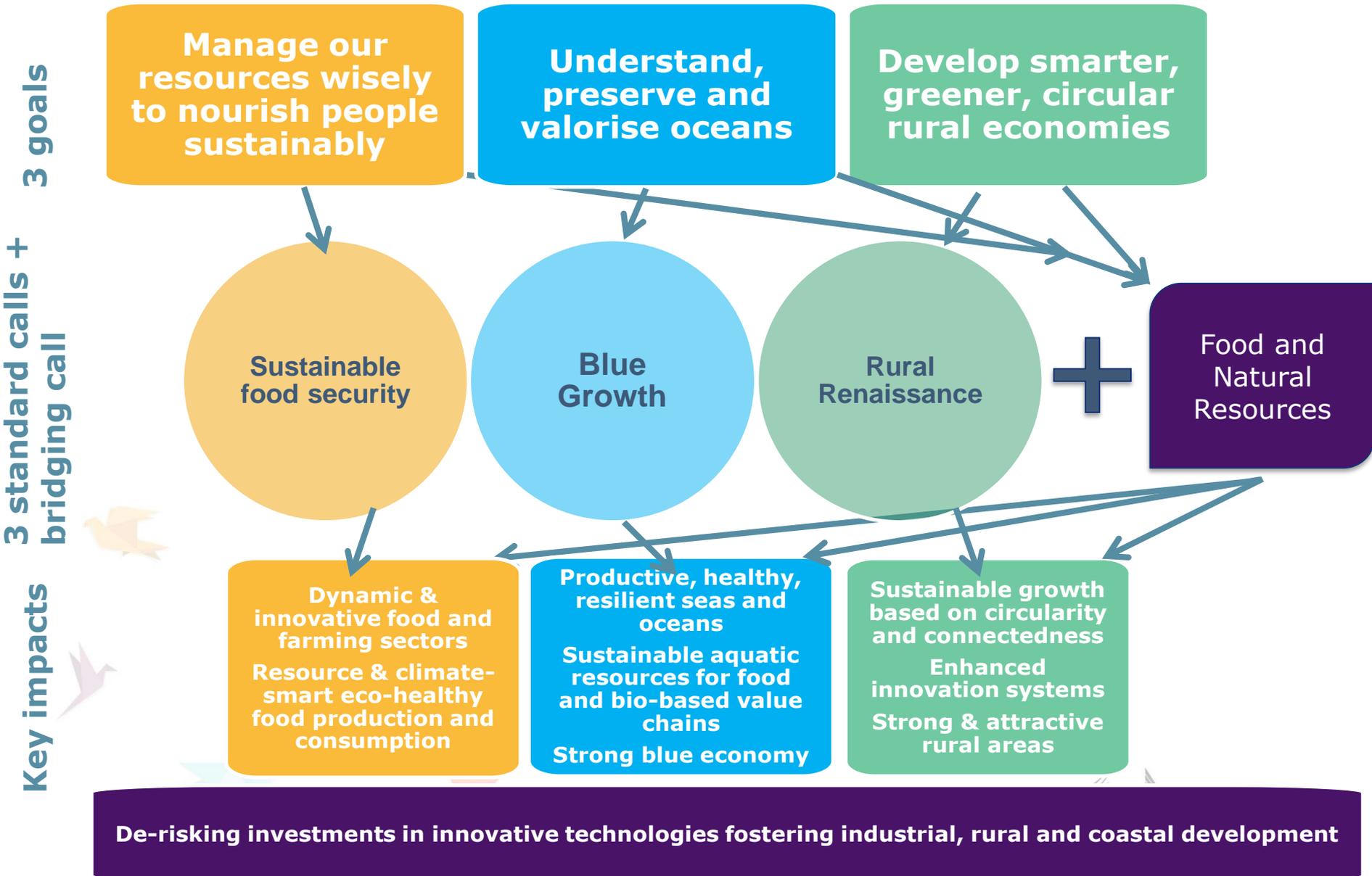


Integrated Maritime and common fisheries policies



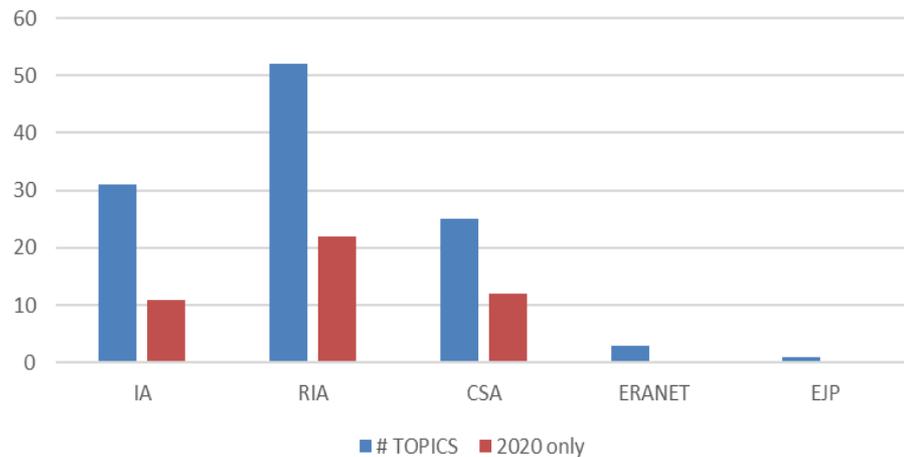
Digital single market

WP at a glance

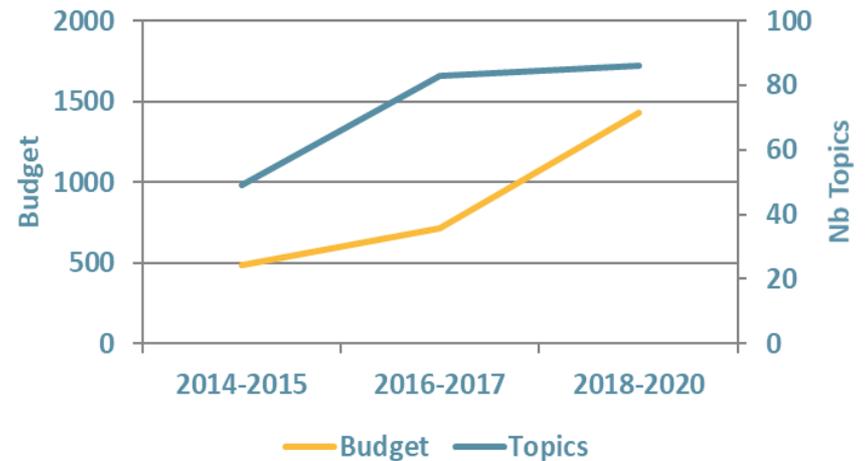


WP at a glance

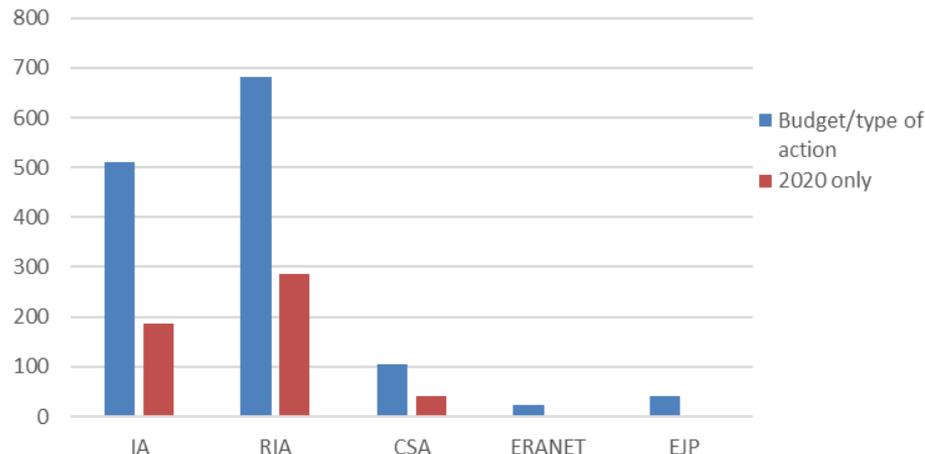
TOPICS 2018-2020



Evolution of SC2 calls budget and topic counts



Budget/type of action



Close to market actions with investment in new knowledge

**Same topics, more budget
→ more projects per topic**

**Reinforced support to policy
(RIAs, IAs, CSAs, procurement)**

Open innovation, open science, open to the world

- **Open innovation**

- **€500+ mio for multi-actor projects** (interactive innovation linked to EIP-AGRI)



- **Open science**

- Research data sharing **by default**
- **Open science clouds**: Food cloud demonstrators (10M€) & Blue cloud services (6M€)



- **Open to the world**

- **119M€** on **EU-AFRICA** partnership on Food and Nutrition Security and Sustainable Agriculture (11 projects): food systems, sustainable intensification and income diversification
- **28M€** on **EU-CHINA** (5 projects): food safety, soil management and bio-based fertilisers
- **64M€** on **"All Atlantic Ocean Research Alliance"** (8 projects): coordination, marine ecosystems and new value chains
- **PRIMA**





Funding for third countries

Applicants automatically eligible for funding:

- EU Member States and the Overseas Countries and Territories linked to Member States
- Countries associated to Horizon 2020
- Countries identified in WP General Annex A (developing countries)
- International European interest organisations

In addition, eligible for funding:

- ✓ When explicitly foreseen in the call
- ✓ when provided for under a bilateral scientific and technological agreement or any other arrangement
- ✓ when Commission deems participation essential for carrying out the action

Details:

http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2018-20-annexes (after WP adoption)

Multi-actor approach (MAA)= demand driven innovation

- ❖ **Clear list of requirements, forming fully part of the topic requirements** labelled by "*Proposals should fall under the concept of the 'multi-actor approach' in the topic + footnote.*
- ❖ **Requirements** for the 'multi-actor approach' are on **page 9-11** of the introduction of the Work Programme and are generic/similar for all MAA projects (footnote)
- ❖ **Systemic approach:** MAA is not a "cross-cutting issue" (as RRI, SSH, gender), it is not equal to multi/pluri-disciplinarity, nor to Living Labs, nor to a strong dissemination requirement nor to a broad stakeholders' board. Strong impact is key!
- ❖ **Demonstrate selection criterion Excellence=> Clarity and pertinence of the objectives & soundness of the concept!** Clear requirements for MAA (6 bullets)
 - a) How the project proposal's objectives and planning are targeting needs/problems and opportunities of end-users (=demand-driven)**

- b) **The composition of the consortium and the description of the project must reflect a balanced choice of key actors with complementary types of knowledge: building blocks for innovation are expected to come from science as well as from practice and intermediaries**
- ❖ **"all along the project": a clear role for the different actors in the work plan, from the participation in the planning of work and experiments, their execution up until the dissemination of results and the possible demonstration phase.**
 - ❖ **End-users (OF THE PROJECT RESULTS) and practitioners are to be involved**, not as a study-object, but in view of **using their entrepreneurial skills and tacit knowledge** for developing solutions and creating "**co-ownership**" of results,
 - ❖ This **speeds up the acceptance and dissemination of new ideas/solutions** thanks to cross-fertilisation of ideas and views and to including also **multipliers, facilitators and EIP Operational Groups** from countries and regions working on similar topics.
 - ❖ Webpage including the **list of 600 OG projects** (Excel file with data from Feb 2018 study): <https://ec.europa.eu/eip/agriculture/en/publications/eip-agri-operational-groups-assessment-2018> - meanwhile over 1000 OGs (contact NRNs)

c) Project proposals should illustrate sufficient quantity and quality of knowledge exchange activities

=> '**Actor**': a partner taking part **in project activities**, contributing to project outcomes (co-decision, co-ownership)

=> '**Stakeholder**': person expressing a **view/stake** at a certain moment(s) during the project: stakeholders' board, regional or national meetings

d) Project's added value: demonstrate complementarity with existing research and best practice

e) The project should result in practical knowledge, made easily understandable and accessible, which must feed into the existing dissemination channels most consulted by end-users in countries

f) For EU wide communication, this practical knowledge should also be assembled into a substantial number of 'practice abstracts' in the common EIP format to share within the EIP network



Societal challenge 2 calls

Food and Natural Resources



- Testing out new approaches – e.g., Food 2030, Living labs



- Preparation of future initiatives and Missions - e.g., agro-ecology/soil



- Even stronger focus on impact – sharper impact statements



- Support to policy - EU Bioeconomy Strategy, new CAP...



18 topics – 208 M€
Agri, food, marine,
bio-based covered



Type of actions :
RIA, IA, CSA



Societal challenge 2 calls

Sustainable food security topics (2020)

From functional ecosystems to healthy food

- Biodiversity in action
- Livestock microbiome
- Integrated health approaches & alternatives to contentious pesticides
- New and emerging risks to plant health
- IPM
- Epidemiology of contagious animal diseases
- Genome and epigenome enabled breeding in terrestrial livestock

7 topics – 95 M€

Environment/ Climate-smart Food production and consumption

- Emerging challenges for soil management
- Forest soils

2 topics – 24 M€

Building capacities

- GenRes & pre-breeding
- Agri-Aqua labs

2 topics – 19 M€

Targeted international cooperation

- **EU-Africa**
 - ✓ Sustainable intensification
 - ✓ Diversifying revenue in rural Africa through bio-based solutions
- **EU-China**
 - ✓ Healthy soils for healthy food production

3 topics – 35 M€



Type of actions :
RIA, IA, CSA



Societal challenge 2 calls

Blue Growth topics (2020):

Climate-Ocean

- **The Future of Seas and Oceans Flagship Initiative (BG-07, 18 M€)**

Sustainable food chains

- **Fisheries in full ecosystem context (BG-10, 10 M€)**

De-risking Investments

Land-Sea Connection

International cooperation

- **Towards a productive, healthy, resilient, sustainable and high-valued Black Sea (BG-11, 18 M€)**

1 topic – 18 M€

1 topic – 10M€

2018-2019

2018-2019

1 topic – 18 M€

Type of actions :
RIA, IA (lump-sum)



Societal challenge 2 calls

Rural renaissance topics (2020)

Dynamics & policies

- Agricultural markets and international trade

1 topic – 4 M€

Food & non-food Value chains

- Connecting consumers and producers
- Innovative agri-food value chains: boosting sustainability-oriented competitiveness
- Reducing food losses and waste
- Closing nutrient cycles (2 scopes: IA + RIA)
- Sustainable wood value chains

5 topics – 74 M€

Taking advantage of the digital revolution

2018-2019

- + UNDER LEIT-ICT call
- DT-ICT-09-2020: Digital service platforms for rural economies 30 M€ (incl. 15M€ SC2)

1 ICT topic – 15 M€

Innovation and human capital

- Thematic networks compiling knowledge ready for practice

1 topic – 10 M€

Type of actions :
RIA, IA, CSA



Tips & Resources

Call deadlines

Opening	Submission procedure	Stage	Deadline	Info to applicants	Grant Agreements
15 Oct. 2019	single stage	Single stage	22 Jan. 2020	June 2020	Oct. 2020
	2-stages	1 st stage	22 Jan. 2020	May 2020	-
		2 nd stage	08 Sept. 2020	Nov. 2020	May 2021

Tips & Resources

Evaluation of proposals



✓ **Innovation actions** >> higher weighting for "IMPACT"



Tips & Resources

Scores

0

The proposal **fails** to address the criterion or cannot be assessed due to missing or incomplete information.

1

Poor. The criterion is inadequately addressed, or there are serious inherent weaknesses.

2

Fair. The proposal broadly addresses the criterion, but there are significant weaknesses.

3

Good. The proposal addresses the criterion well, but a number of shortcomings are present.

4

Very Good. The proposal addresses the criterion very well, but a small number of shortcomings are present.

5

Excellent. The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

Tips & Resources

Some tips on how to succeed

Start in time & choose your partners well

Avoid "recycling" of former projects or project partners which do not have a specific contribution to the topic

Check for eligibility & read the evaluation criteria – imagine what the evaluator will think

Excellent science is not enough: consider all the criteria & sub-criteria

Impact matters as much as excellence! → Check the expected impacts and scope of the topic in detail

Write clearly & respect the page limits - ask someone impartial to proof-read your proposal

Be coherent! Make sure that the chosen objectives are coherent with the foreseen project activities, the competence of the partners and the planned budget per activity. Make sure the cost/benefit ratio is sound. Keep in mind that all costs should be reasonable in the light of the foreseen outcomes.

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
INVESTMENT PROGRAMME (2021 – 2027)

#HorizonEU

Based on the Commission Proposal for Horizon Europe, the common understanding between co-legislators and the Partial General Approach, both approved in April 2019



Horizon Europe

The ambitious EU research and innovation framework programme (2021-2027)



to strengthen the EU's scientific and technological bases and the European Research Area (ERA)



to boost Europe's innovation capacity, competitiveness and jobs



to deliver on citizens' priorities and sustain our socio-economic model and values

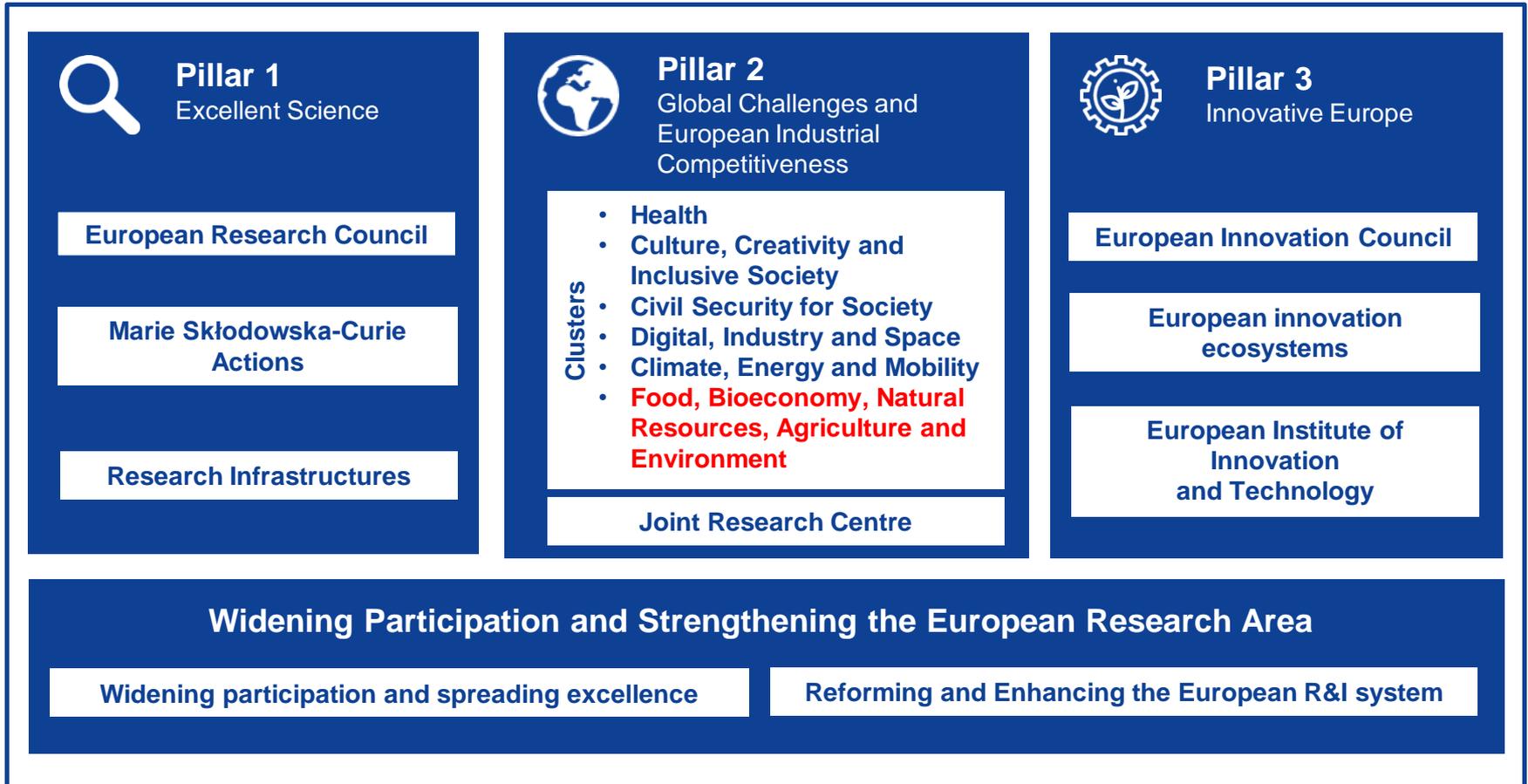
The Commission proposes a budget of € 100 billion for Horizon Europe.

European Parliament and Council reached a common understanding on Horizon Europe on 19 March 2019

- Budget, synergies and third country association still pending, depending on the overall MFF negotiations
- Commission has started preparations for the implementation of Horizon Europe



Horizon Europe: Preliminary structure



Clusters in 'Global Challenges and Industrial Competitiveness'

Clusters	Areas of intervention	
Health	<ul style="list-style-type: none"> • Health throughout the life course • Non-communicable and rare diseases • Tools, technologies and digital solutions for health and care, including personalised medicine 	<ul style="list-style-type: none"> • Environmental and social health determinants • Infectious diseases, including poverty-related and neglected disease • Health care systems
Culture, creativity and inclusive society	<ul style="list-style-type: none"> • Democracy and Governance • Social and economic transformations 	<ul style="list-style-type: none"> • Culture, cultural heritage and creativity
Civil security for society	<ul style="list-style-type: none"> • Disaster-resilient societies • Protection and Security 	<ul style="list-style-type: none"> • Cybersecurity
Digital, Industry and space	<ul style="list-style-type: none"> • Manufacturing technologies • Advanced materials • Next generation internet • Circular industries • Space, including Earth Observation • Emerging enabling technologies 	<ul style="list-style-type: none"> • Key digital technologies, including quantum technologies • Artificial Intelligence and robotics • Advanced computing and Big Data • Low-carbon and clean industry • Emerging enabling technologies
Climate, Energy and Mobility	<ul style="list-style-type: none"> • Climate science and solutions • Energy systems and grids • Communities and cities • Industrial competitiveness in transport • Smart mobility 	<ul style="list-style-type: none"> • Energy supply • Buildings and industrial facilities in energy transition • Clean, safe and accessible transport and mobility • Energy storage
Food, bioeconomy, natural resources, agriculture and environment	<ul style="list-style-type: none"> • Environmental observation • Agriculture, forestry and rural areas • Circular systems • Food systems 	<ul style="list-style-type: none"> • Biodiversity and natural resources • Seas, oceans and inland waters • Bio-based innovation systems in the EU Bioeconomy

Lessons Learned

from Horizon 2020 Interim Evaluation

Key Novelties

in Horizon Europe



Support breakthrough innovation



European Innovation Council



Create more impact through mission-orientation and citizens' involvement



R&I Missions



Strengthen international cooperation



Extended association possibilities



Reinforce openness



Open science policy



Rationalise the funding landscape



New approach to Partnerships



Encourage participation



Spreading Excellence

Strategic plan gives direction to the work programme



Main Features

Early involvement and extensive exchanges with Member States

Extensive exchanges with the European Parliament

Consultations with stakeholders and public at large

Thank you!

#InvestEUresearch

#HorizonEU

https://ec.europa.eu/info/designing-next-research-and-innovation-framework-programme/what-shapes-next-framework-programme_en?pk_campaign=rtd_news

#H2020SC2

www.ec.europa.eu/research/bioeconomy

www.ec.europa.eu/agriculture/research-innovation_en

Participant Portal

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