







Subgroup on Innovation for agricultural productivity and sustainability

13th Meeting
7 March 2019

#RNSubInnovation - @EIPAGRI_SP

Subgroup on Innovation for agricultural productivity and sustainability

Coffee break

13th Meeting – 7 March 2019

9.00 - 10.00

15:00 - 15:30

16:30 - 16:45

9.00 – 10.00	Session I "Recent and future networking activities"	
10:00 – 11:00	Session II "Assessment study on OGs and its implications for the future"	
11:00 – 11:30	Coffee break	
11:30 – 12:30	Interactive part Session II "Assessment study on OGs and its implications for the future"	
12:30 – 13:30	Lunch break	
13:30 – 15:00	Session III "Strengthening the links between CAP and Horizon	

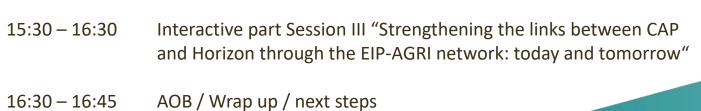
Welcome and introduction - DG AGRI











through the EIP-AGRI network: today and tomorrow"



Session III "Strengthening the links between CAP and Horizon through the EIP-AGRI network: today and tomorrow"



Horizon Europe Proposal and state of play of interinstitutional negotiations

Alberto D'Avino



SUBGROUP ON INNOVATION
for agricultural productivity and sustainability

13th meeting
7 March 2019



The new Horizon Europe programme: key elements of the new legislative proposals

Alberto D'AVINO

European Commission
DG Agriculture and Rural Development





Strategic approach to EU agricultural R&I



O B J E C T I V E S



ensure food and nutrition security in the long term



address the environmental sustainability and resilience of competitive land-based primary production for food and non-food systems



boost the sustainable growth of rural territories

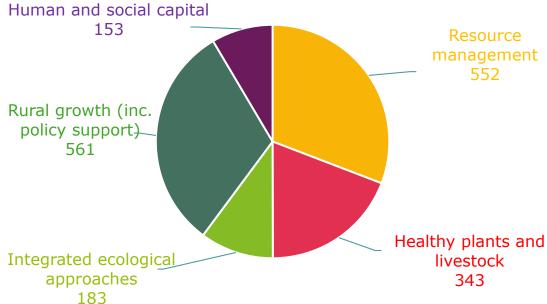




R&I priorities



Distribution of H2020 SC2 budget over priorities (EUR million - 2014-2020)







R&I cross-cutting areas



Systems approaches 1/3 Grants



Socio-economic research

30% SSH - 2/3 value chain approaches



New approaches and infrastructure



Using information technologies



Engaging with society





From strategy to action...

https://ec.europa.eu/agriculture/research-innovation/documents-links_en





Commission proposal for

Horizon Europe

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

#HorizonEU



Horizon Europe

is the Commission proposal for a € 100 billion research and innovation funding programme for seven years (2021-2027)



to strengthen the EU's scientific and technological bases



to boost Europe's innovation capacity, competitiveness and jobs



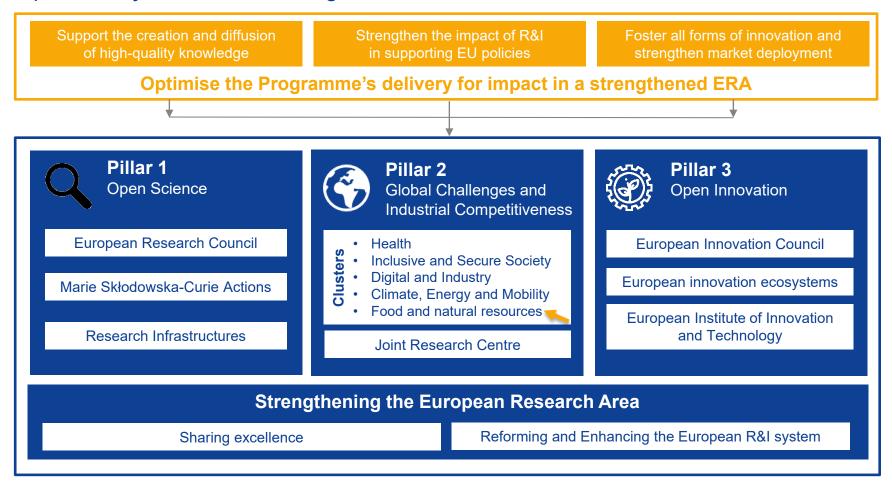
to deliver on citizens' priorities and sustain our socioeconomic model and values

€ 4.1 billion are proposed to be allocated for defence research, in a separate proposal for a European Defence Fund



Horizon Europe: evolution not revolution

Specific objectives of the Programme





Lessons Learnedfrom Horizon 2020 Interim Evaluation

Support breakthrough

innovation





Create more impact through mission-orientation and citizens' involvement





Strengthen international cooperation





Reinforce openness





Rationalise the funding landscape



Key Novelties in Horizon Europe

European Innovation Council

R&I Missions

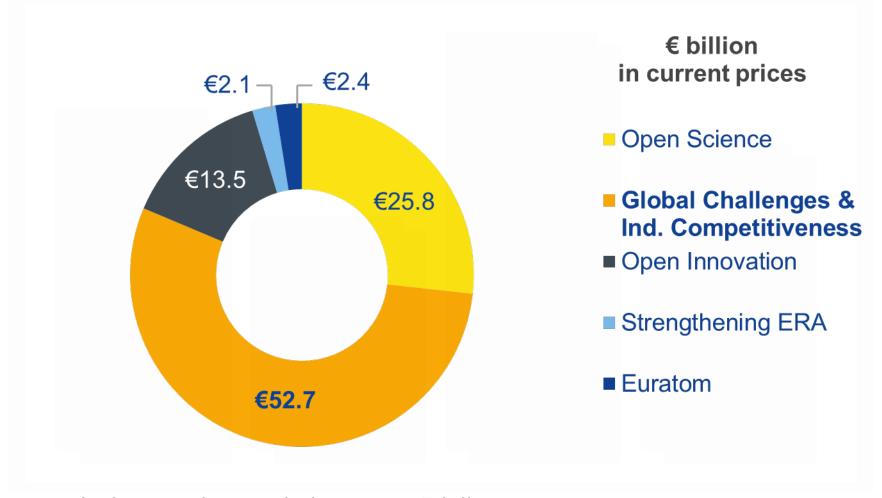
Extended association possibilities

Open science policy

New approach to Partnerships



Budget: €100 billion*



* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.



Pillar 2

Global Challenges & Industrial Competitiveness:

boosting key technologies and solutions underpinning EU policies & Sustainable Development Goals

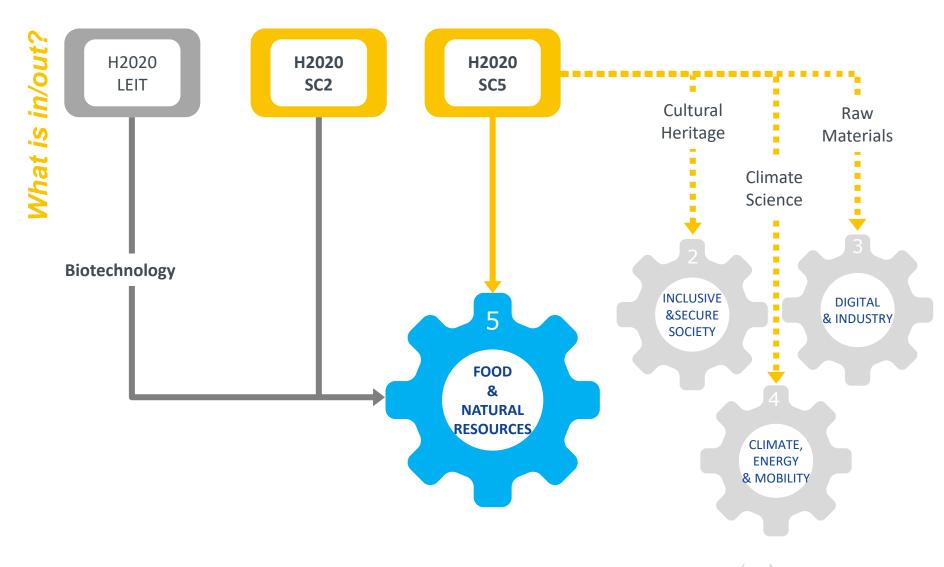
Clusters implemented through usual calls, missions & partnerships	Budget (€ billion)
Health	€ 7.7
Inclusive and Secure Societies	€ 2.8
Digital and Industry	€ 15
Climate, Energy and Mobility	€ 15
Food and Natural Resources	
Joint Research Centre supports European policies with independent scientific evidence & technical support throughout the policy cycle	



Key facts and figures

- Natural resources: planetary boundaries are exceeded. We operate beyond safe limits for genetic biodiversity, nitrogen and phosphorus cycles, land-system change and climate change.
- Agriculture and forestry: highly diverse sectors covering 85% of the EU territory (agriculture 50 %), driving rural economies; the agri-food sector provides 44m jobs in the EU; EU agriculture contributes to 10% of GHG emissions;
- **Food production:** 12 plant species provide for ¾ of world food production. From farm to fork we use 70% of fresh water resources (Europe : 50%) and 30% of energy. By 2050 we need to feed 9 billion people on the planet and meet 60% more food demand.
- Oceans: cover ¾ of the Earth's surface, but largely unknown; Provide half of the oxygen and the largest carbon sink and host the greatest biodiversity of the planet.
- **Circular economy:** only 40% of EU waste is reused or recycled; the circular economy resource productivity growth potential is up to 3 % annually in the EU;







Why a single cluster?

- New holistic, system-wide, integrated view
- Mainstreaming a participatory approach to R&I and exploitation of big data
- More impact-focused R&I: SDGs and EU policy goals
- More synergies across R&I areas, along the full innovation cycle:
 - □ between **intervention areas** (e.g. circular and bio-based systems)
 - between clusters (e.g. digital and agriculture; marine & maritime)
 - between pillars (through wide / joint Missions)
 - with other EU funding instruments



Contribution to SGDs



13 CLIMATE ACTION



























Contribution to implementation of the EU policy goals

- the Common Agricultural Policy,
- the Common Fisheries policy,
- the Food Law legislation,
- the Maritime policy,
- the Environmental Action Programme,
- the Circular Economy Action Plan,
- the EU Bioeconomy Strategy,
- the 2030 climate and energy framework,
- as well as EU legal provisions to reduce air pollution.











Synergies with other MFF programs

- the European Agricultural Guarantee Fund and the European Agricultural Fund for Rural Development
- the European Maritime and Fisheries Fund (EMFF)
- the European Regional Development Fund (ERDF)
- The LIFE Programme
- The InvestEU Fund
- The Single Market Programme
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How will it be implemented?

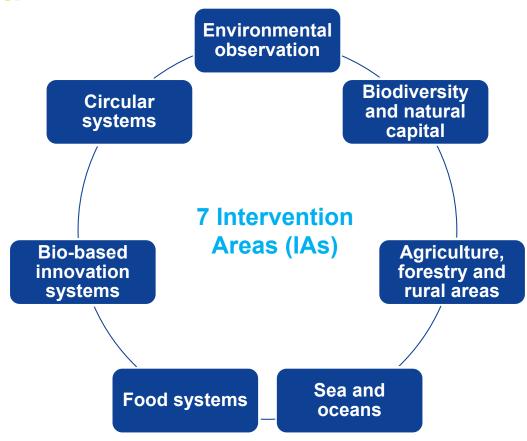
Collaborative projects remain the default:

- Consortiums of at least three independent legal entities and with at least one of them established in a Member State (Art. 18.2 FP/RfP)
- Competitive and open calls for proposals

The **Work Programme**, endorsed by the **Programme Committee** for Cluster 5, will identify **topics** for each call.



What is in it?





IA: Agriculture, forestry and rural areas



Sustainable management and efficient use of natural resources (e.g. soils, water, nutrients and biodiversity including genetic resources) in agriculture and forestry; alternatives to fossil-based resources and adoption of circular economy principles;



Climate and environmental impact of activities in the primary sector; potential of agriculture and forestry as carbon sinks and for mitigation of greenhouse gas emissions including negative emissions approaches;

(SP Annex I, 5.2.3)



IA: Agriculture, forestry and rural areas







- Plant pests and diseases and animal health and welfare; alternatives to the use of contentious pesticides, antibiotics and other substances;
- Antimicrobial resistance and threats from biological and agrochemical hazards as well as chemical contaminants tackling the links between plant, animal, ecosystems and public health from One-Health and Global-Health perspectives;
- The use and delivery of ecosystems services in agriculture and forestry systems applying ecological approaches and testing nature-based solutions from farm to landscape levels for an environmentally friendly agriculture;

(SP Annex I, 5.2.3)



IA: Agriculture, forestry and rural areas







- Innovations in farming at the interfaces between agriculture, aquaculture and forestry and in urban areas;
- Land use, rural development and territorial linkages; capitalising on the social, cultural, economic and environmental assets of rural areas for new services, business models, value chains and public goods;
- Digital innovations in farming, forestry and across value chains and rural areas through the use of data and development of infrastructures, technologies and governance models;
- Agricultural knowledge and innovation systems and their interconnection at various scales; advice, building skills and information sharing.

(SP Annex I, 5.2.3)



Next steps



Strategic planning to define multiannual work programmes and calls for proposals



- Transparency and stakeholder involvement
- Prioritisation and flexibility to align to political priorities
- Internal programme coherence & synergies with other programmes

Multiannual Strategic R&I Plan

* Multiannual orientations and priorities in one document * Areas for Partnerships and Missions

Strategic discussions with Member States and European Parliament

Consultation with stakeholders

Work Programmes





Thank you!

#HorizonEU

http://ec.europa.eu/horizon-europe