

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

Research and Innovation

Our vision

A sustainable, fair and **prosperous** future for **people** and **planet** based on European values.

- Tackling climate change (35 % budgetary target)
- Helping to achieve Sustainable
 Development Goals
- Boosting the Union's competitiveness and growth





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 socioeconomic model and values

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



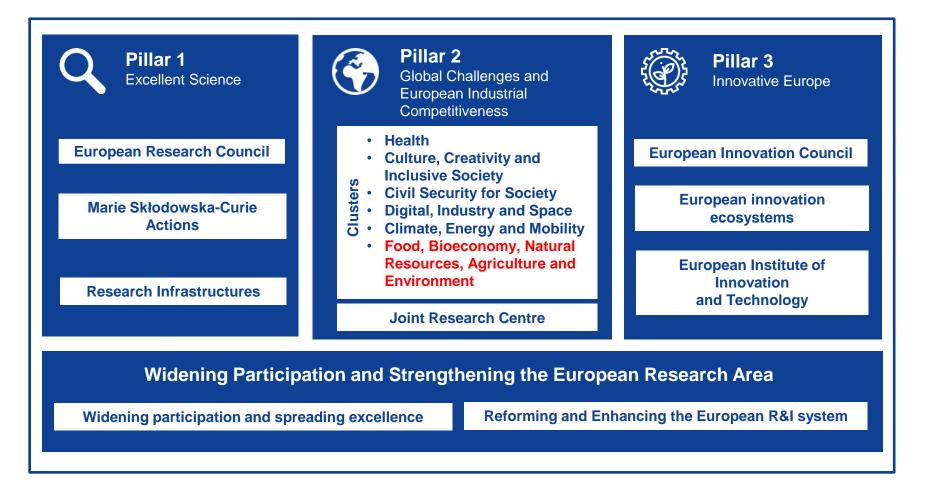
European Parliament and Council reached a common understanding on Horizon Europe on 19 March 2019

- 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





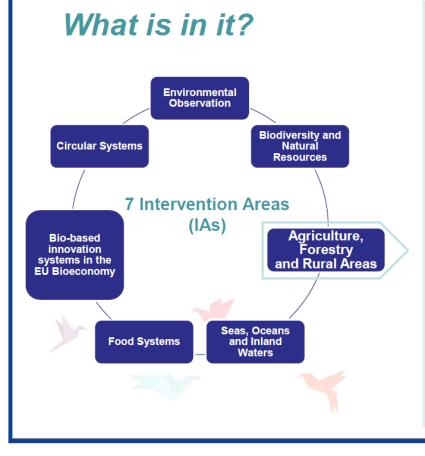
Clusters in 'Global Challenges and Industrial Competitiveness'

Clusters	Areas of intervention	
Health	 Health throughout the life course Non-communicable and rare diseases Tools, technologies and digital solutions for health and care, including personalised medicine 	 Environmental and social health determinants Infectious diseases, including poverty-related and neglected disease Health care systems
Culture, creativity and inclusive society	Democracy and GovernanceSocial and economic transformations	Culture, cultural heritage and creativity
Civil security for society	Disaster-resilient societiesProtection and Security	Cybersecurity
Digital, Industry and space	 Manufacturing technologies Advanced materials Next generation internet Circular industries Space, including Earth Observation Emerging enabling technologies 	 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	 Climate science and solutions Energy systems and grids Communities and cities Industrial competitiveness in transport Smart mobility 	 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	 Environmental observation Agriculture, forestry and rural areas Circular systems Food systems 	 Biodiversity and natural resources Seas, oceans and inland waters Bio-based innovation systems in the EU Bioeconomy



Cluster 6 .- Areas of intervention

Cluster 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment



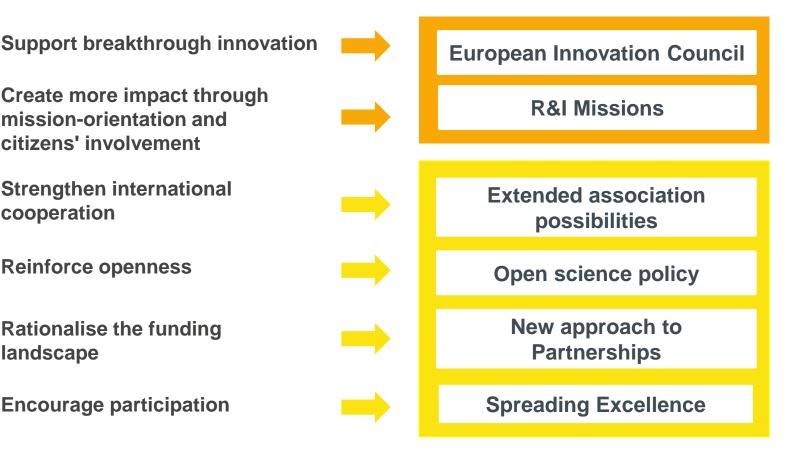
- Sustainable management and efficient use of natural resources
- Climate mitigation and adaptation
- Plant health
- Animal health and welfare
- Use and delivery of ecosystem services
- Sustainable forest management
- EU plant protein production
- Sustainable land use, rural development and territorial linkages
- Digital innovations
- AKIS; advice, building skills, participatory approaches and information sharing
- International partnerships for sustainable agriculture for food and nutrition security

Source: Kerstin Rosenow – DG AGRI, SC2 Infoday 4th July 2019

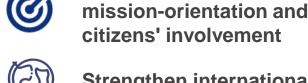


Lessons Learned from Horizon 2020 Interim Evaluation

Key Novelties in Horizon Europe







Strengthen international cooperation

Create more impact through



Reinforce openness

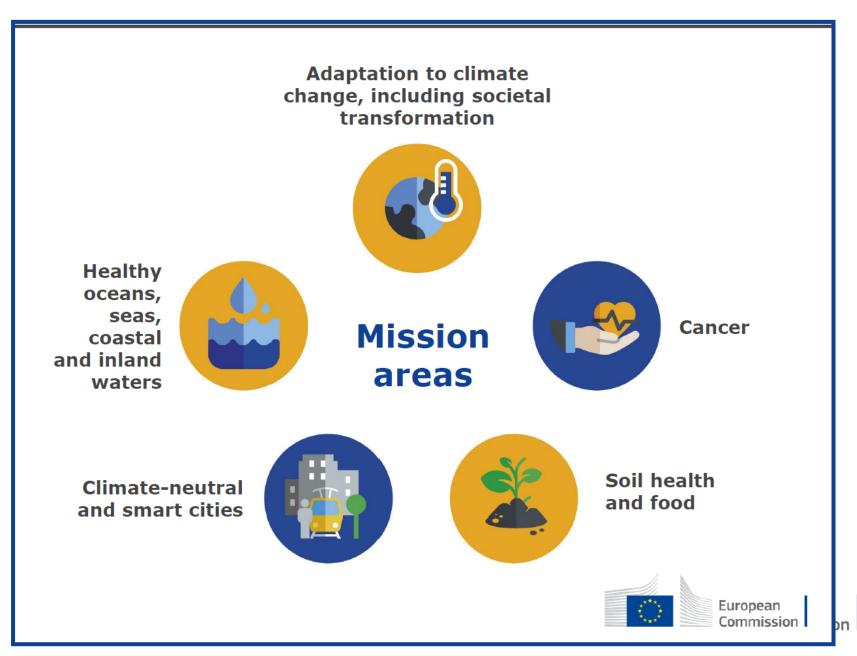


Rationalise the funding landscape



Encourage participation

Horizon Europe – Mission areas



Horizon Europe – Mission areas



A problem-solving approach to fuel innovation-led growth by Mariana MAZZUCATO https://ec.europa.eu/info/sites/info/files/mazzucato report 2013 pdf

Horizon Europe – Mission areas

Leaving space for new approaches: R&I Missions

Mission area: Soil Health and Food



R&I Missions

Connecting to citizens: Missions will relate EU's research and innovation to society and citizens' needs, with strong visibility and impact

A mission will consist of a portfolio of actions intended to achieve a **bold and inspirational as well as measurable goal within a set timeframe**, with impact for science and technology, society and citizens that goes beyond individual actions.

Source: Kerstin Rosenow – DG AGRI, SC2 Infoday 4th July 2019



Agriculture and Rural Development

Horizon Europe - New approach to Partnerships





Encouraging synergies: Partnerships - proposed areas

New generation of objective-driven and more ambitious partnerships with MS, industry and others in support of agreed EU policy objectives:









- □ Towards more sustainable farming: agro-ecology living labs and research infrastructures
- European partnership on animals and health
- Environmental observations for a sustainable EU agriculture (agriculture of data)
- Others related to biodiversity, Blue Economy, food systems, circular bio-based sector, water

Source: Kerstin Rosenow – DG AGRI, SC2 Infoday 4th July 2019



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



Steps towards the first Horizon Europe work programme





Thank you!

#InvestEUresearch #HorizonEU

https://ec.europa.eu/info/designing-next-research-and-innovationframework-programme/what-shapes-next-frameworkprogramme_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 European



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