

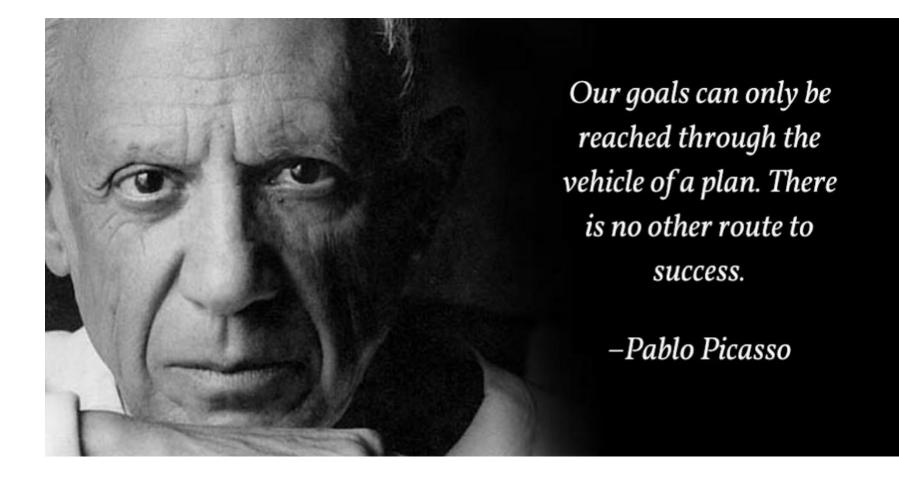
Agriculture in Horizon Europe

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> Agriculture and Rural Development







We have a plan!

A strategic approach to EU agricultural

research & innovation

final paper



Horizon 2020: Strategic approach to EU agricultural R&I



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

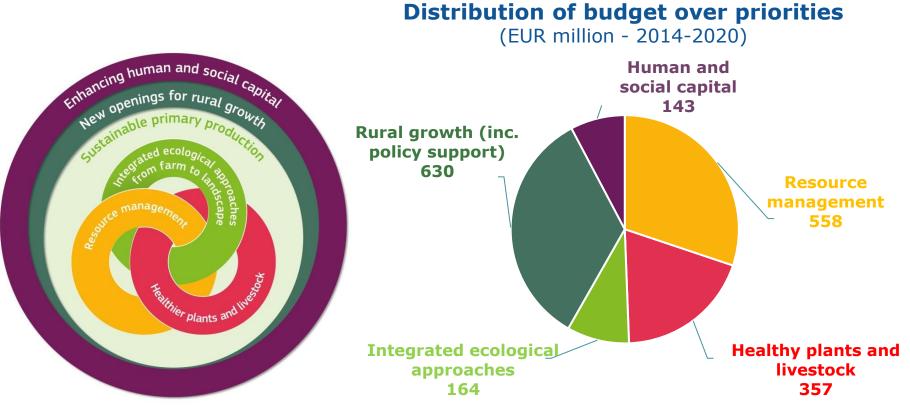


Aariculture

boost the sustainable growth of rural territories







315 projects – 1,9 M€ under Horizon 2020





From strategy to action...

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





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Horizon Europe

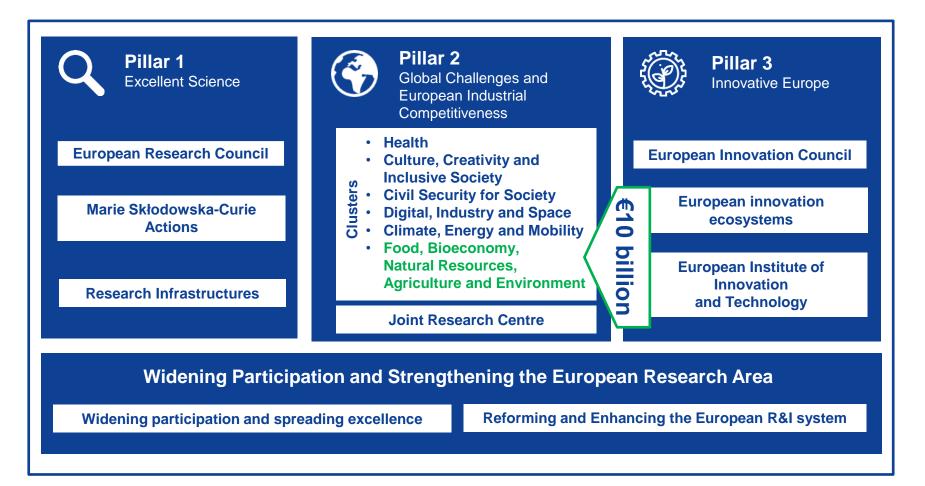
THE NEXT EU RESEARCH & INNOVATION INVESTMENT PROGRAMME (2021 – 2027)

#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

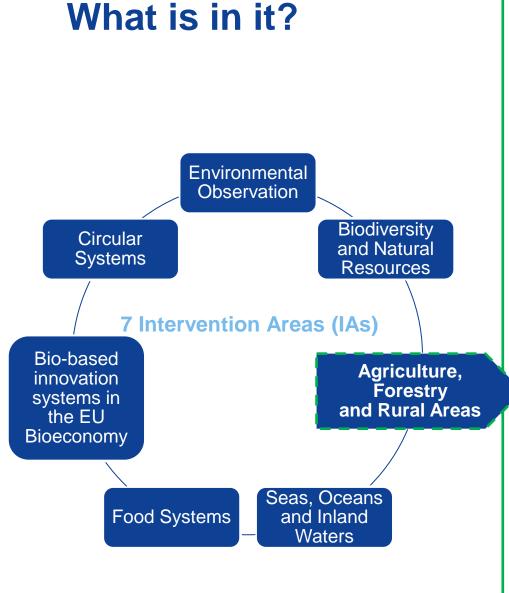
Research and Innovation

Horizon Europe: structure





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- 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

Strategic Plan gives direction to the work programme

Strategic Plan (new implementing act by the Commission) will prepare the content in the work programmes and calls for proposals for the first **four years**:



What will be in it?

- Expected impacts: strategic orientation for R&I support
- Partnerships and missions
- Areas for international cooperation
- Other issues



Strategic Plan: Cluster 6

Why? Challenges: cross-cutting long-term impacts

What? Priorities in intervention areas: short- & medium-term impacts

How? Implementation approaches



Challenges: six cross-cutting long-term impacts













Environmental Observation

Biodiversity and Natural Resources

Agriculture, Forestry and Rural Areas

Seas, Oceans and Inland Waters

Food Systems

Bio-based innovation systems in the EU Bioeconomy

Circular Systems

Priorities: short- & medium term impacts



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Short-& medium-term impacts

short- & medium-term impacts



- climate- and environmentally-friendly practices in farming and forestry systems
- "de-fossilisation" of land-based primary production
- LULUCF activities in the mitigation of climate change
- forest management
- diversity in farming and forestry systems
- better-adapted crop varieties and animal breeds
- climate neutral and resilient rural communities



- resource use efficiency in agriculture and forestry and alternatives to scarce resources
- circular economy: better linking rural and urban resource flows, small-scale bio-based solutions, innovations at the interface between agriculture, aquaculture, forestry



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short- & medium-term impacts

- farming and forestry systems that protect, restore and enhance agrobiodiversity, wild biodiversity and ecosystem services across a range of scales
- implementation and upscaling of agro-ecological approaches in primary production, including organic and mixed farming or agroforestry
- conservation, management and use of agrobiodiversity
- impacts of primary production on biodiversity, identify the ecological boundaries of the bioeconomy
- nature-based solutions to enhance biodiversity
- prevent, monitor and control animal and plant pests and diseases including emerging risks, and to address antimicrobial resistance
- safe and environmentally friendly methods for plant protection and weed control that substantially reduce the use of contentious pesticides
- improved animal health and welfare



short- & medium-term impacts



- sustainability-oriented redesign of food and non-food value chains,
- fairer distribution of value added and better balanced power relations,
- reconnected producers, consumers and nature,
- revalued environmental, health and socio-economic impacts



- strategies and policies to describe and close the divide between rural and urban areas and benefit rural dwellers and workers and generational renewal in farming and rural communities, with special attention to vulnerable groups
- digital services and skills, co-created with and for rural people
- social networks, social capital and social innovation processes and allow for innovations in rural communities that support the sustainability agenda locally



short- & medium-term impacts



- data, knowledge base and impact measurements for improving monitoring and evaluation of EU policies addressing agriculture, forestry, related value chains and rural areas in the period 2021-2027 and beyond
- observation networks of European forests





- Agricultural knowledge and innovation systems (AKIS)
- place-based innovations, strengthening synergies with other EU Funds in particular smart specialisation strategies, reinforcing the multi-actor approach and establishing a network of living-labs in agro-ecology
- ICT as an enabler, allowing to build an open digital environment and supporting bottom-up innovation in agriculture, forestry, related value chains and rural areas



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Towards the first Horizon Europe Work Programme 2021-2022



Early involvement and exchanges with Member States, Online consultation with stakeholders and the public at large, Establishment of Mission Boards

Co-creation at Research & Innovation Days 24 – 26 September, Exchanges with the new European Parliament, Envisaged endorsement by new Commission of Strategic Plan

Drafting of Horizon Europe Work Programme 2021-2022 on the basis of the Strategic Plan

Pre-publication of Work Programme 2021-2022 Opening of first 2021 calls (tbc)

Formal adoption of Work Programme 2021-2022 (tbc)







#InvestEUresearch #AgriResearchEU #H2020SC2 #HorizonEU

www.ec.europa.eu/agriculture/research-innovation_en www.ec.europa.eu/research/bioeconomy http://ec.europa.eu/research/participants/portal/desktop/en/home.html

> Agriculture and Rural Development