Horizon 2020 Work Programme for Research & Innovation 2018-2020

Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

Agricultural research beyond 2020

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Our goals can only be reached through the vehicle of a plan. There is no other route to success.

—Pablo Picasso
We have a plan

Why? (Challenges)
What? (Priorities)
How? (Implementation approaches)
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
Our most prominent challenges for 2021-2027

- Climate
- Biodiversity
- Circularity
- Health
- Social & demographic change (inc. rural)
- Governance for sustainability
**Orientations towards Horizon EU strategic planning**

### Six cross-cutting targeted impacts

<table>
<thead>
<tr>
<th>Environmental Observation</th>
<th>Biodiversity and Natural Resources</th>
<th>Agriculture, Forestry and Rural Areas</th>
<th>Seas, Oceans and Inland Waters</th>
<th>Food Systems</th>
<th>Bio-based innovation systems in the EU Bioeconomy</th>
<th>Circular Systems</th>
</tr>
</thead>
</table>

- ✔ Reduction of greenhouse gas emissions and successful adaptation of ecosystems and production systems as well as rural, coastal and urban areas to climate change
- ✔ Halt of biodiversity decline and restoration of ecosystems
- ✔ Sustainable and circular management and use of natural resources; prevention and removal of pollution; healthy soils and clean water and air for all; attractive jobs, enhanced value creation and competitiveness
- ✔ Establishment of primary production, food and bio-based systems based on sustainability, inclusiveness, health and safety; food and nutrition security for all
- ✔ Behavioural, socio-economic and demographic change are well understood and drive sustainability; a balanced development of vibrant rural, coastal, peri-urban and urban areas
- ✔ Establishment of governance models enabling sustainability
What?
Strategic R&I priorities

315 projects – 1.9 M€ under Horizon 2020

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

- Human and social capital: 143
- Resource management: 558
- Healthy plants and livestock: 357
- Rural growth (inc. policy support): 630
- Integrated ecological approaches: 164
- Sustainable primary production
- New openings for rural growth
- Healthy plants and livestock

Enhancing human and social capital

Projects: 315
Budget: 1.9 M€
From strategy to action: 12 big themes under H2020

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

Update June 2019
Specific objectives of the Programme

- Support the creation and diffusion of high-quality knowledge
- Strengthen the impact of R&I in supporting EU policies
- Foster all forms of innovation and strengthen market deployment

Optimise the Programme’s delivery for impact in a strengthened ERA

**Pillar 1** Open Science
- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

**Pillar 2** Global Challenges and Industrial Competitiveness
- Health
- Inclusive and Secure Society
- Digital and Industry
- Climate, Energy and Mobility
- Food and natural resources

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

**Pillar 3** Open Innovation
- European Innovation Council
- European innovation ecosystems
- European Institute of Innovation and Technology

**Strengthening the European Research Area**
- Sharing excellence
- Reforming and Enhancing the European R&I system
Cluster 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment

What is in it?

- 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
How?
Strategy: our six dimensions of implementation

- Being strategic about programming
- Boosting implementation of R&I
- Leaving more space for new approaches
- Encouraging synergies with Member States
- Developing international cooperation
- Developing synergies with the private sector
Boosting implementation: EIP-AGRI and multi-actor approach

- 190 H2020 multi-actor projects (€1 billion), including 29 thematic networks; 50% newcomers; results!
- 27 Member States implementing the EIP
- Around 3,200 OGs planned in 2014-2020; over 1,000 OGs already running
- A growing and thriving network
- Increasing volume of practice-oriented knowledge

www.eip-agri.eu
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.
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
DEVELOPING A KNOWLEDGE-BASED AGRICULTURE

- Continuation of the agricultural European Innovation Partnership
- Each CAP strategic plan will include a section on how to stimulate the exchange of knowledge and innovation & the development of digital technologies in agriculture
- Strengthening of the Agricultural Knowledge and Innovation System
- Advice, training, innovation and knowledge support in Rural Development
- Specific budget of EUR 10 billion in Horizon Europe for agriculture, food, bioeconomy and rural development
Have your say: why, what and how

- Summer 2019: Open Public Consultations [LINK]
- Autumn 2019: Workshops → Roadmaps for EU Agricultural R&I

24→26 SEPTEMBER 2019
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BELGIUM

EUROPEAN RESEARCH & INNOVATION DAYS
Thank you!

#InvestEUresearch  
#AgriResearchEU  
#H2020SC2

www.ec.europa.eu/agriculture/research-innovation_en  
www.ec.europa.eu/research/bioeconomy  
Funding and tenders portal  