



EU Research and Innovation Funding for the Bioeconomy after 2020

Event organised by ECRN, 26 June 2019, Brussels



Our mission

- Build new *bio-based value chains* (develop new technologies, products and applications, optimise feedstock)
- Create favourable business and policy climate to *accelerate market uptake*

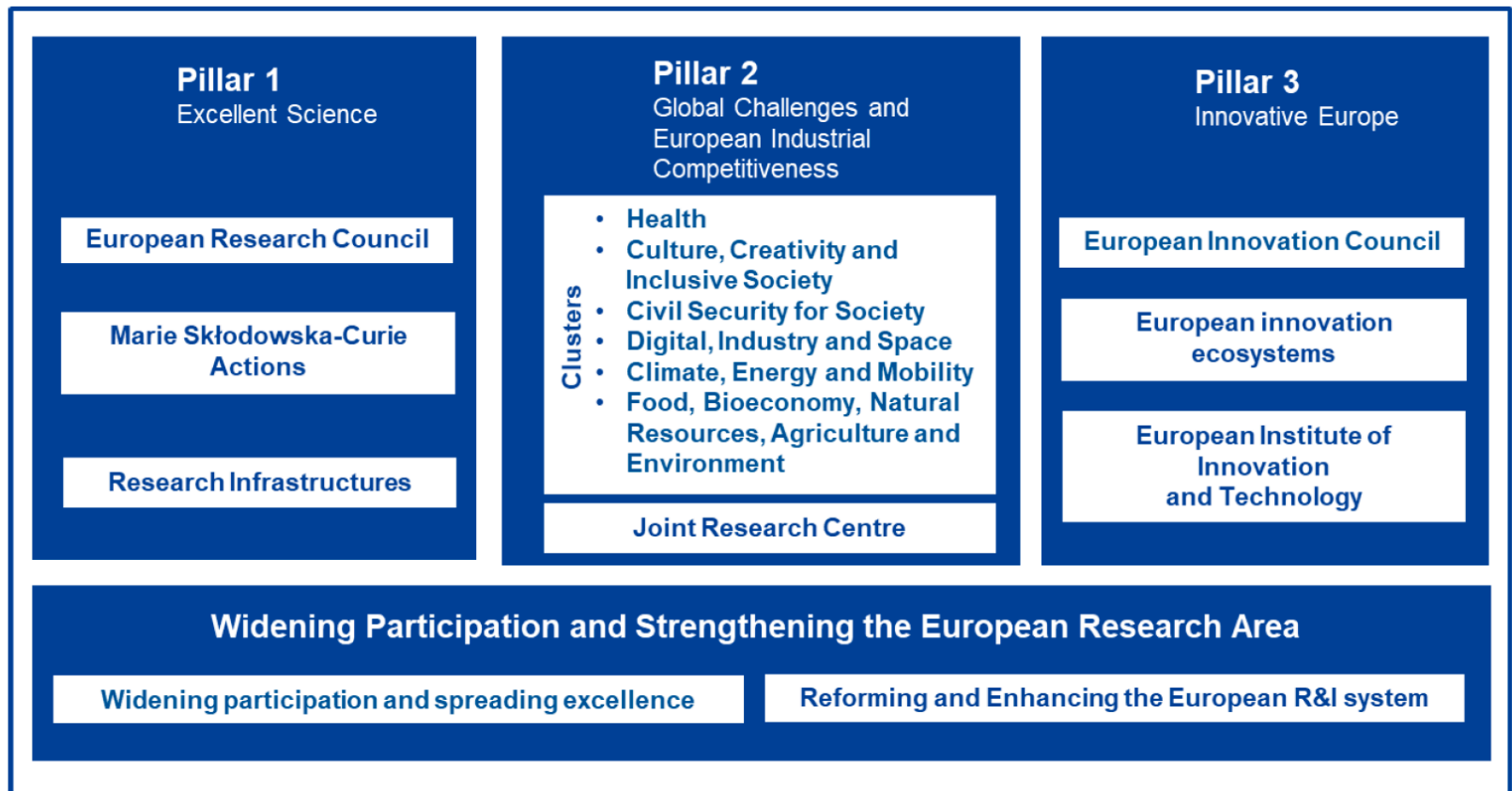
BIC membership in figures

- **> 240 industry members**
(including 40 large industries)
- **> 200 SMEs** (140 represented
in SME clusters)
- **> 200 associate members**
i.e. universities, RTOs,
associations, etc



HorizonEurope: Structure

Provisional agreement



Status Horizon Europe

Overall picture

- ✓ **Provisional agreement reached on Horizon Europe legislative proposals from EU Commission ***
- ✓ **HorizonEurope includes a Cluster 6 on 'Food, Bioeconomy, Natural Resources, Agriculture and Environment'**
- ✓ **COM proposal: Bio-economy in Budget pillar 2: 52,7 Billion €. of which 10 billion € for cluster 7**

But: no agreement on Horizon Europe budget yet, part of MFF negotiations starting in Q3 2019

* All documents publicly accessible

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

In general

- Actions under this Cluster will lead and support the switch to a competitive, more circular and bio-based, climate-neutral, resilient and environmentally friendly economy in compliance with the Paris Agreement on Climate Change and the United Nations Sustainable Development Goals.
- R&I can play a key role in achieving objectives set in relevant EU policies and global commitments

Horizon Europe: Whats in for the bio-economy?

EU Commission proposal (HEU specific programm decision) – 1/2

Intervention areas	Broad lines of action
Environmental Observation	<ul style="list-style-type: none">• User driven and systemic approaches including open data• Biodiversity status, ecosystem protection, climate change, food security, agriculture and forestry, land use, natural resources management, oceans, maritime security, air and atmospheric changes• User oriented applications on natural resources
Biodiversity and Natural Resources	<ul style="list-style-type: none">• Biodiversity and eco-systems• Holistic and systemic approaches on links between biodiversity, ecosystems and drivers of change• Modelling of trends and integrated scenarios• Ecotoxicology of compounds and new pollutants• Mainstreaming biodiversity and ecosystem services in decision-making frameworks• Adaptable and multi-functional nature-based solutions, addressing challenges related to climate change etc.• Multi-actor living labs approaches engaging stakeholders in co-designing and co-creating systemic solutions
Agriculture, Forestry and Rural Areas	<ul style="list-style-type: none">• Sustainable and resilient production in farming and forestry• Sustainable management and efficient use of natural resources• Climate and environmental impact of activities in the primary sector• Plant pests and diseases and animal health and welfare• Antimicrobial resistance• Ecosystems services in agriculture and forestry systems• Agricultural and forestry systems for optimising local conditions• Innovations in farming• Land use, rural development and territorial linkages• Digital innovations in farming, forestry and across value chains• Agricultural and forestry knowledge and innovation systems

Horizon Europe: What's in for the bio-economy?

EU Commission proposal (HEU specific programme decision) – 2/2

Intervention areas	Broad lines of action
Seas, Oceans and Inland Waters	<ul style="list-style-type: none"> • Sustainable fisheries and aquaculture including alternative sources of protein • Strengthened resilience of marine ecosystems • Ocean governance • Technologies for the digital ocean • Monitoring and predictive/forecasting capacities • Blue value-chains • Nature-based solutions based on marine and coastal ecosystem dynamics • Blue innovation • Better understanding of the role of oceans for climate change mitigation and adaptation
Food Systems	<ul style="list-style-type: none"> • Sustainable and healthy diets for people's well-being across their lifespan • New or alternative protein sources • Personalised nutrition especially for vulnerable groups • Consumers' behaviour, lifestyle and motivations • Modern food safety and authenticity systems • Food system mitigation of and adaptation to climate change • Environmentally sustainable, circular, and resource efficient and resilient food systems • Innovation and food systems for place-based innovation and empowerment of communities
Bio-based Innovation Systems in the EU Bioeconomy	<ul style="list-style-type: none"> • Sustainable biomass sourcing, logistics and production systems • Life sciences and their convergence with digital technologies • Bio-based value chains and bio-based materials • Biotechnology • Circularity of the bio-based sector within the bioeconomy • Inclusive bioeconomy patterns with different actors • Increased understanding of the boundaries, metrics and indicators of the bioeconomy
Circular Systems	<p>Systemic transition to a resource-efficient, bio-based and circular economy</p> <p>Metrics and indicators</p> <p>Solutions for sustainable and regenerative development of cities, peri-urban areas and regions</p> <p>Eco-innovation for prevention and remediation of environmental pollution</p> <p>Circular use of water resources</p>

Cluster 6: Eight Partnership areas proposed

Final decision subject to HorizonEurope strategic planning

1. Towards more sustainable farming: agro-ecology living labs and research infrastructures
2. European Partnership on Animals and Health
3. Environmental Observations for a sustainable EU agriculture (Agriculture of data)
4. Rescuing biodiversity to safeguard life on Earth
5. A climate neutral, sustainable and productive Blue Economy
6. Safe and Sustainable Food Systems for People, Planet & Climate
7. European Partnership for a Circular bio-based Europe: sustainable innovation for new local value from waste and biomass
8. Water4All: Water security for the planet

Cluster 6: Links to other initiatives and bodies

- EIT Knowledge and Innovation Communities (KICs) e.g. KIC on climate, KIC on Food
- Missions (main novelty under HEU) e.g. Mission on Soil health and food
- SCAR - Standing Committee on Agricultural Research

Horizon Europe: What's next

Milestones

- Horizon Europe Impact Assessment (general and specific e.g. on PPP) to start soon, including stakeholder consultations
- Horizon Europe Strategic Planning: Implementing Act expected in January 2020
- EU budget (2021-2027) including for Horizon Europe: last-minute agreement under German EU presidency (2nd half 2020)?
- 1 Jan 2021? HorizonEurope to start

Vision “The circular bio-society in 2050”

Additional sectors & widening value chains

VISION The circular bio-society in 2050



By 2050, Europe will have a **sustainable** and **competitive** bio-based industry providing jobs and growth that contribute to a **circular bio-society**. In this circular bio-society, **informed citizens** choose a sustainable way of life, supporting an economy that couples economic growth with **societal well-being** and respect for the **environment**.

Mobilising stakeholders

BIC is driver to widen scope of BBI in line with EC vision

*This Vision is the result of **the collective work** by the Bio-based Industries Consortium (BIC) and its members, the BBI JU's advisory bodies: the States Representatives Group and Scientific Committee, and the following organisations:*

- ✓ **European Bioeconomy Alliance (EUBA) and its members:**
 - ✓ **Confederation of European Forest Owners (CEPF);**
 - ✓ **Confederation of European Paper Industries (CEPI);**
 - ✓ **European Association for Bioindustries (EuropaBio);**
 - ✓ **European Association of Sugar Producers (CEFS);**
 - ✓ **European Bioplastics (EUBP);**
 - ✓ **European Farmers and European Agri-Cooperatives (Copa-Cogeca);**
 - ✓ **European Renewable Ethanol Producers Association (ePURE);**
 - ✓ **European Starch Industry Association (Starch Europe);**
 - ✓ **European Vegetable Oil and Protein Meal Industry (FEDIOL);**
 - ✓ **Forest-based Sector Technology Platform (FTP)**
 - ✓ **Primary Food Processors (PFP))**
- **European Agricultural Machinery Industry (CEMA)**
- **European Chemical Industry Council (Cefic)**
- **European Technology Platform 'Food for Life'**
- **European Technology Platform for Sustainable Chemistry (SusChem)**

The Institute for European Environmental Policy (IEEP) has been consulted in this process.

A new BBI JU under Horizon Europe

A strategic Research and Innovation Agenda as the basis for a new PPP

SIRA: important tool to realise and implement **four** pillars of Vision with involved stakeholders (primary producers, industry, academia, EU, society)

1

Foster food security for a growing world population and meet demand for sustainable products

Through integrated, efficient production of food, feed, bio-based products, services and energy with minimal environmental impact.

3

Create jobs and growth in the circular bioeconomy

With value chains that mobilise available and potential local feedstock, making products that meet demand and benefit all actors.

2

Contribute to a sustainable planet

With carbon-neutral value chains, using natural resources optimally, protecting the environment, adding value to society and the economy.

4

Achieve a circular bioeconomic society

Through effective networks of innovation and knowledge centres, connecting industrial actors, investors and municipalities across boundaries of geography and competence, with informed and participating citizens.



Bio-based Industries
Consortium

Thank you

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