



**The role of R&I in Green Deal,  
with focus on Farm to Fork Strategy and future CAP**

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**Horizon Europe Cluster 6  
Intervention Area Agriculture, Forestry and Rural Areas**

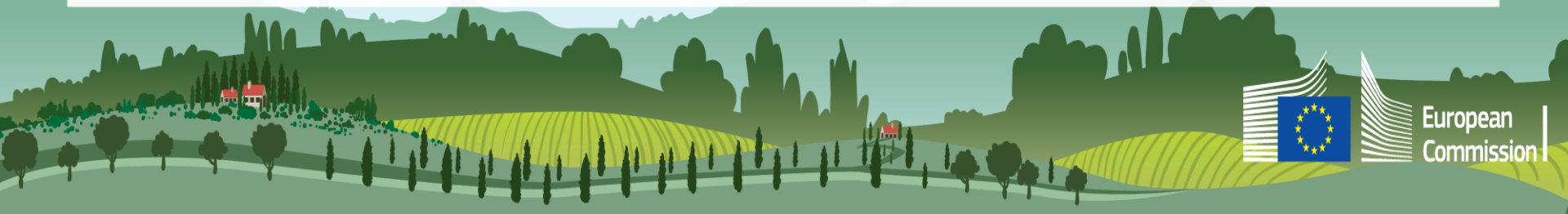
***Natalia BRZEZINA***  
*European Commission*  
*DG Agriculture and Rural Development*

*Brussels, 21 February 2020*

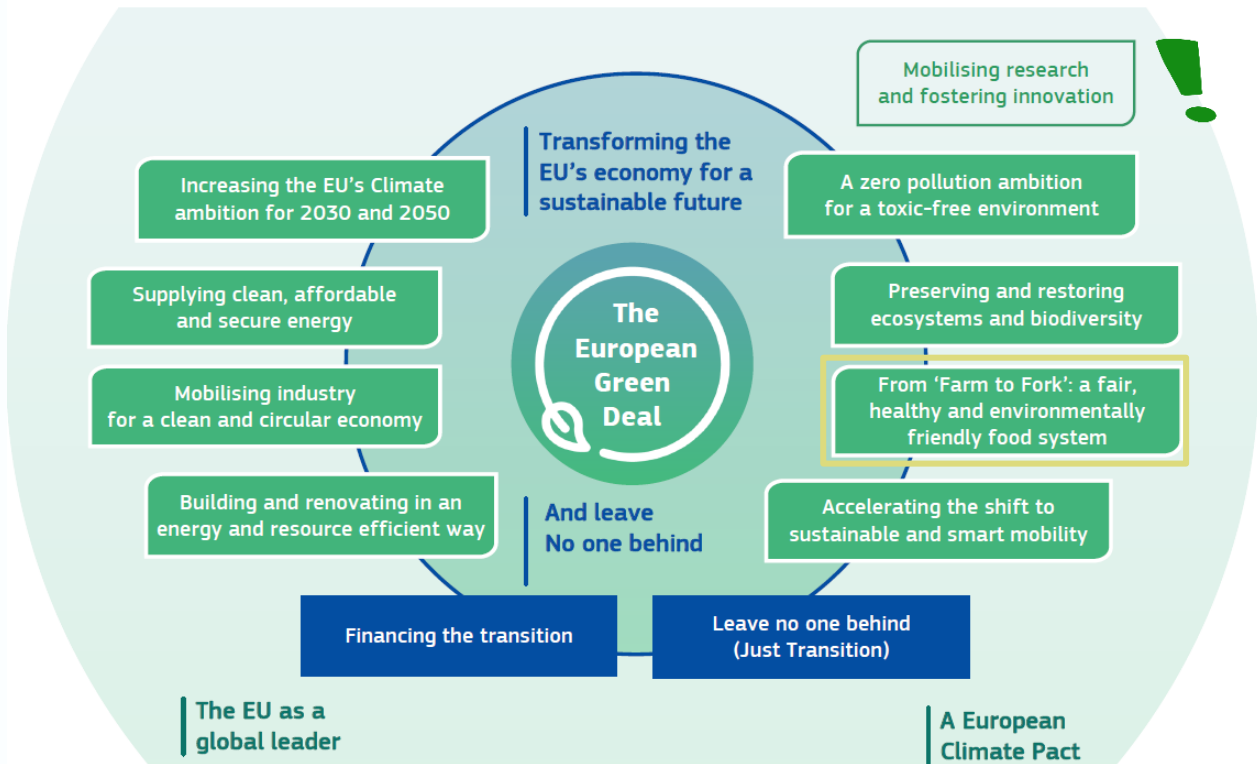


## Six political priorities Commission 2020-2024

- ***A European Green Deal***
- *An economy that works for people*
- *A Europe fit for the digital age*
- *Protecting our European way of life*
- *A stronger Europe in the world*
- *A new push for European democracy*



## The European Green Deal





## ***Essence of the Farm to Fork Strategy***

Snapshot on most relevant components  
of **Green Deal**

for **sustainable food systems**

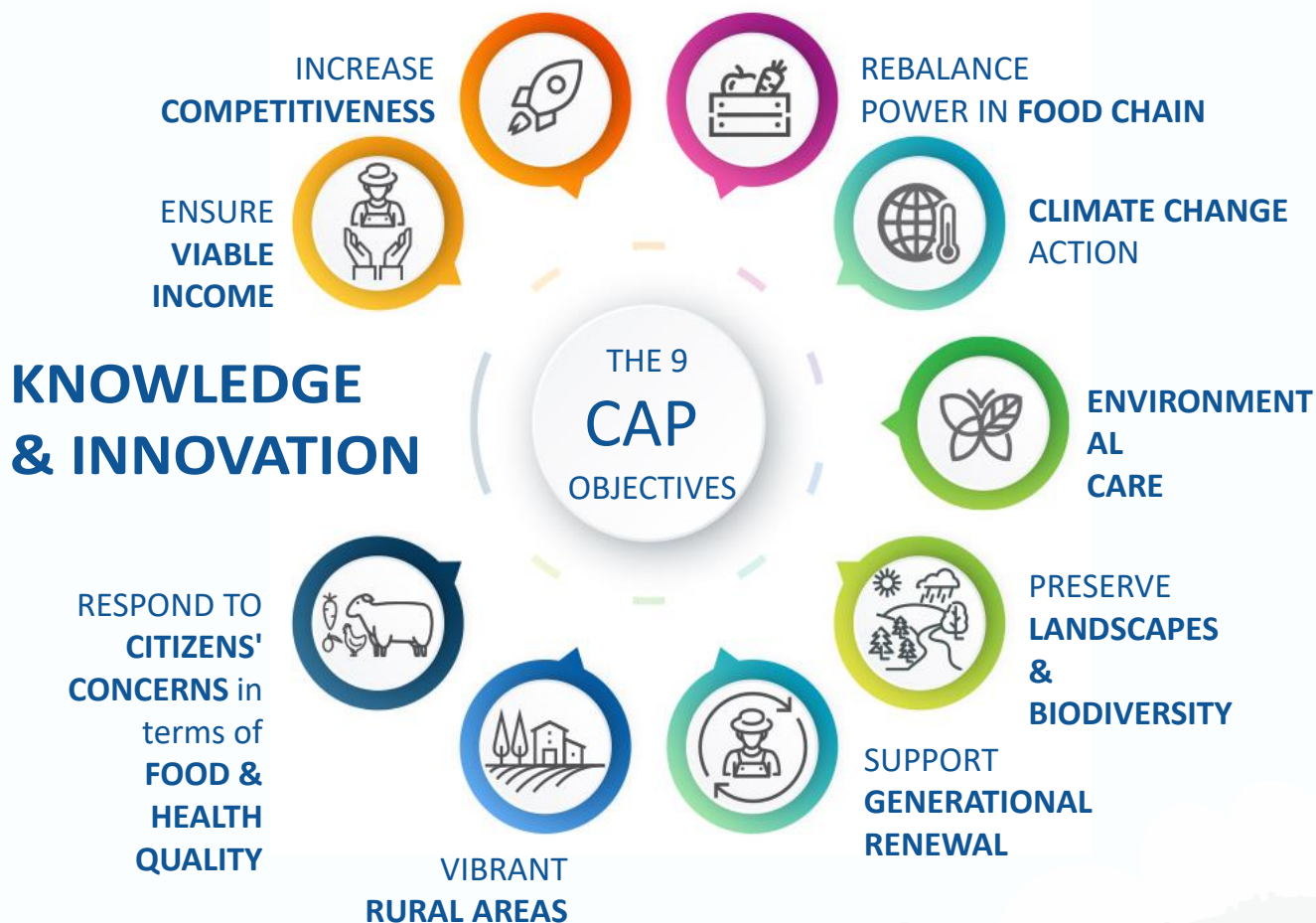
*COM(2019) 640 final*

*11/12/2019*

- Farm to Fork Strategy in **spring 2020**
- Overall objective: **sustainable food system**  
– in environmental, social and economic terms
- Covering **all stages** in food value chains



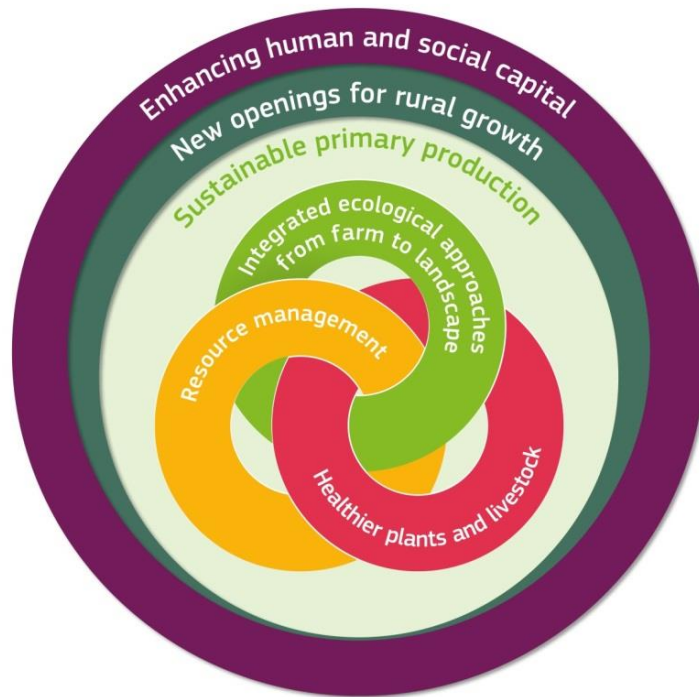
## ***CAP significant contribution to the Green Deal and Farm to Fork Strategy***



# R&I can be key enablers

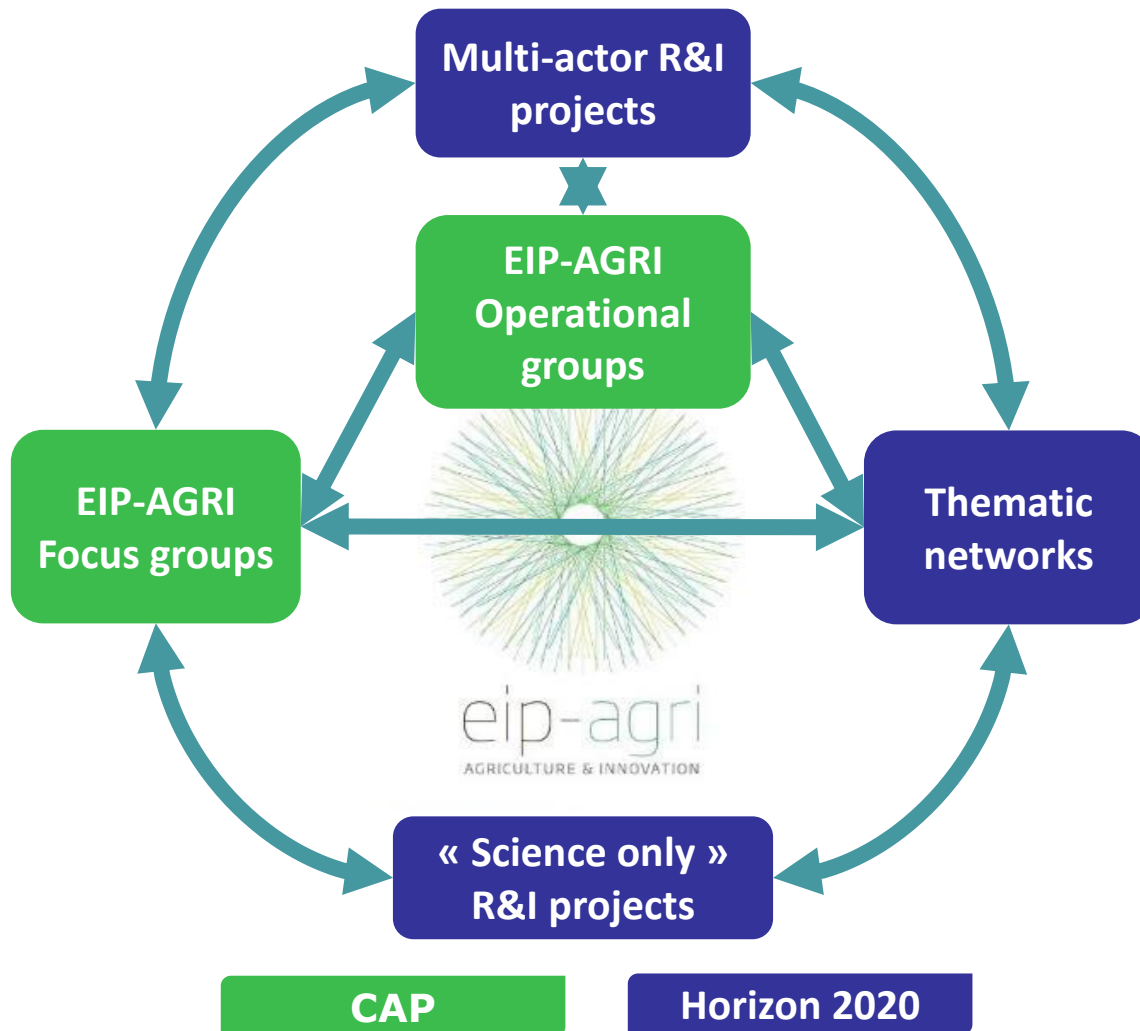


# We have a plan!





# We implement it through...



- ✓ **315** projects – €1,9 billion under Horizon 2020
- ✓ **190** H2020 multi-actor projects (€1 billion);  
**29** thematic networks; 50% newcomers; results!
- ✓ 27 Member States implementing the EIP; over **1000** OGs running
- ✓ A growing and thriving **network**
- ✓ Increasing volume of **practice-oriented knowledge** !



# From strategy to action...

[https://ec.europa.eu/agriculture/research-innovation/documents-links\\_en](https://ec.europa.eu/agriculture/research-innovation/documents-links_en)



# Examples of Horizon 2020 projects



## Why do R&I on sustainable, circular and innovative value chains matter?

Sustainable, diverse and resilient value chains are a prerequisite for sustainable rural growth, for food security and for the sustainable use of biological resources. Food and non-food supply chains operate in an increasingly complex and dynamic environment characterised by new consumer demands, new and sometimes game-changing technologies, changing structures and cooperation modes. The use of new and innovative business models can generate higher income for producers while keeping consumer prices affordable and improving the delivery of environmental and social benefits. Research has a role to play in unravelling the links between the complexity of food systems and their

efficiency, resilience and sustainability. It needs to help understanding food chain dynamics and the interaction between them and non-food chains. Farmers and foresters have for a long time produced non-food products. The need to decarbonise the energy sector to meet climate change goals is compounded with considerations of resource efficiency, and an increasing interest in green chemicals, green growth and circular economy. R&I in this area addresses low-carbon, short-chain or circular delivery systems for innovative bio-based applications, using a systems approach for the provision of biomass for all uses, whilst preserving the delivery of ecosystem services.

## Sustainable, circular and innovative value chains under Horizon 2020 Societal challenge 2

**54**  
Projects or expected grants

**367 M€**  
EU contribution 2014-2020

**603**  
Participations in selected projects

### Key themes

Valorisation of biomass resources and waste – Integrated biomass logistics – food chain sustainability – food safety/quality/authenticity – short food chains

Agriculture and Rural Development



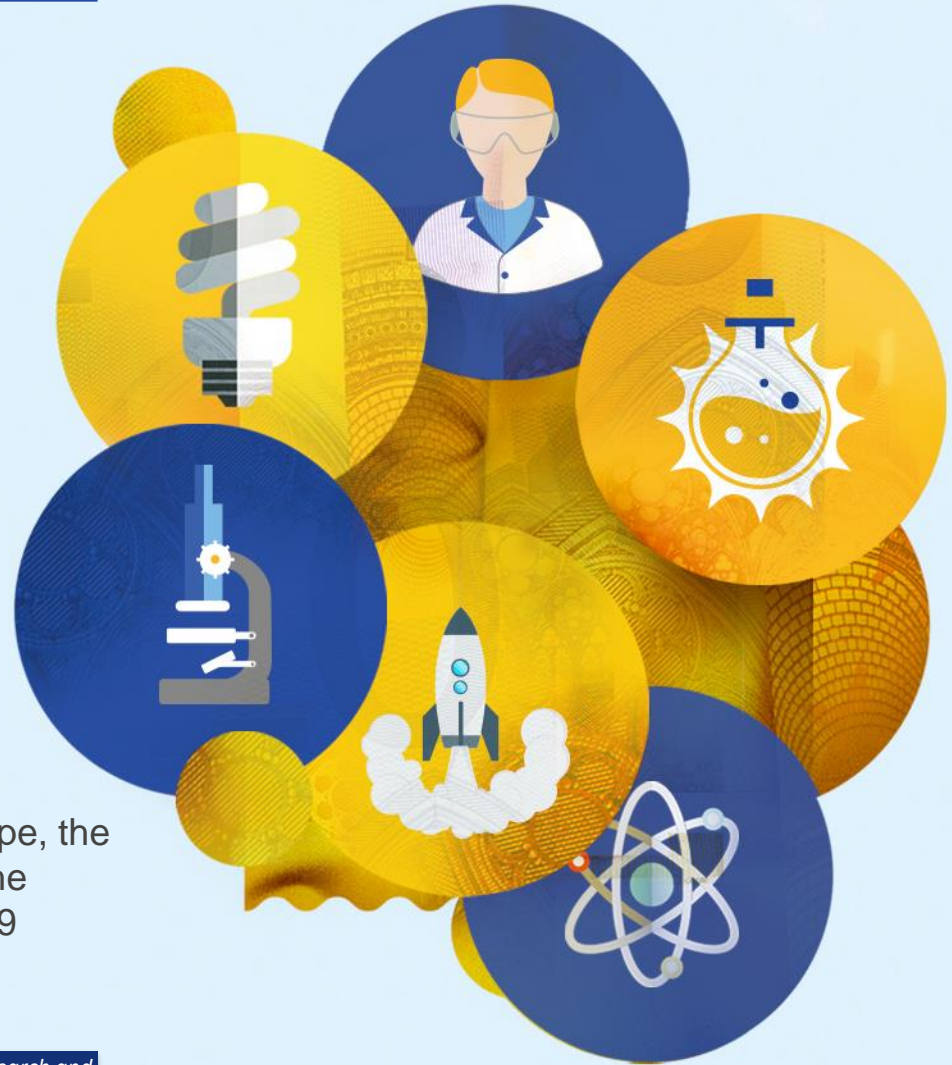


# Horizon Europe

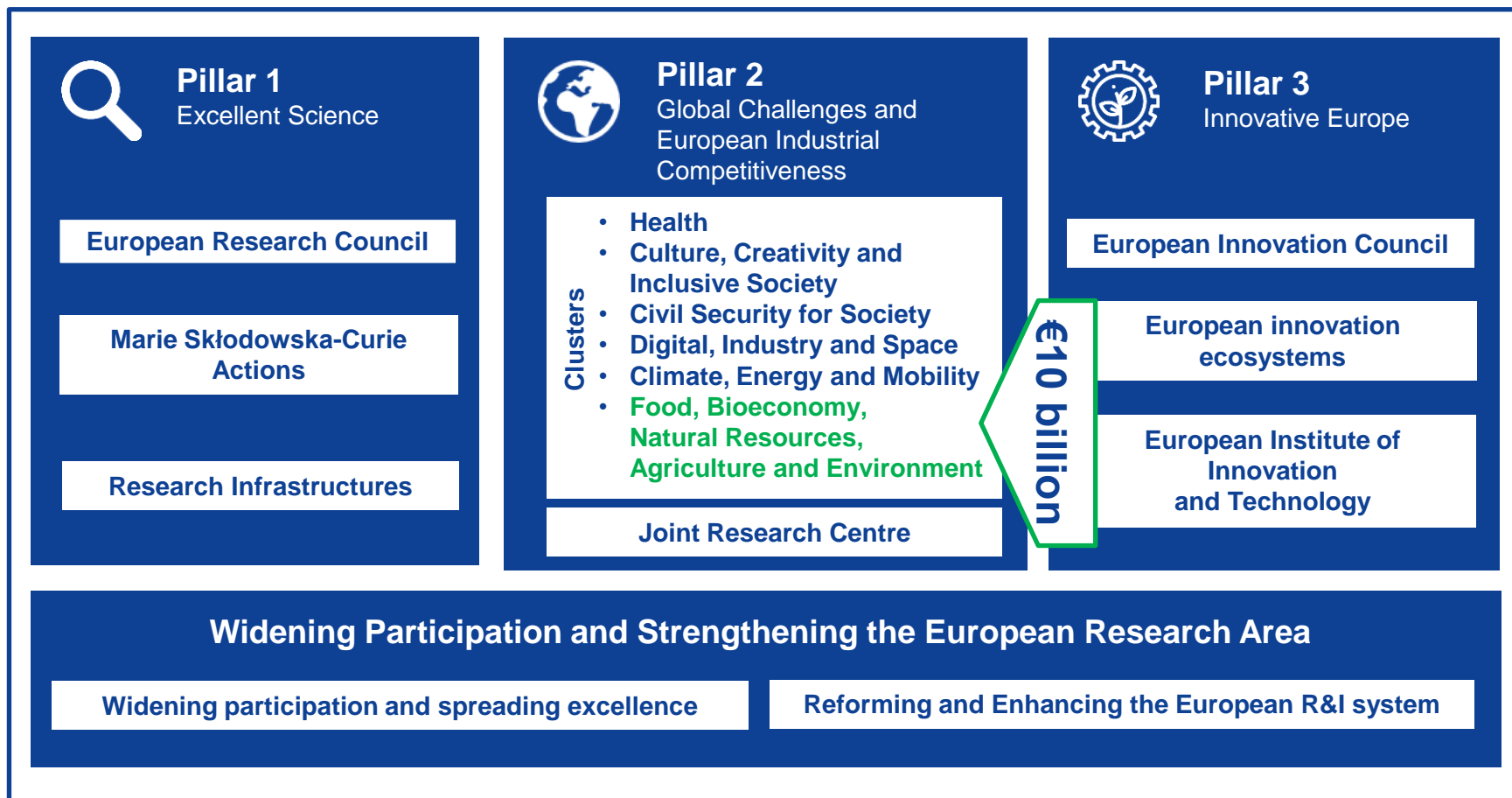
THE NEXT EU RESEARCH & INNOVATION  
INVESTMENT PROGRAMME (2021 – 2027)

#HorizonEU

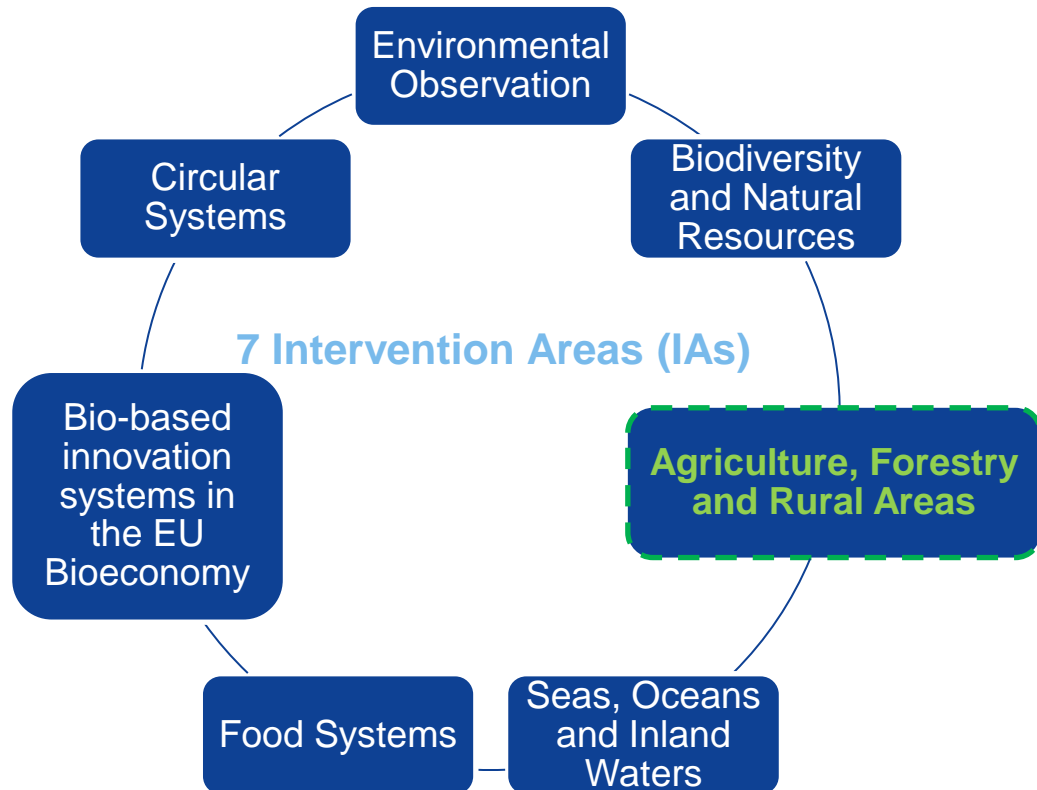
Based on the Commission Proposal for Horizon Europe, the common understanding between co-legislators and the Partial General Approach, both approved in April 2019



# Horizon Europe: structure



# What is in it?



# 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**:

Horizon Europe  
legislative  
package

Strategic Plan  
2021-2024

Work  
programme  
2021-2022

Calls for  
proposals

# 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



Environmental  
Observation

Biodiversity  
and Natural Resources

**Agriculture, Forestry  
and Rural Areas**

Seas, Oceans  
and Inland Waters

Food Systems

Bio-based innovation  
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Circular Systems

**Short-  
& medium-term  
impacts**

## Agriculture, Forestry and Rural Areas

# short- & medium-term impacts



## short- & medium-term impacts



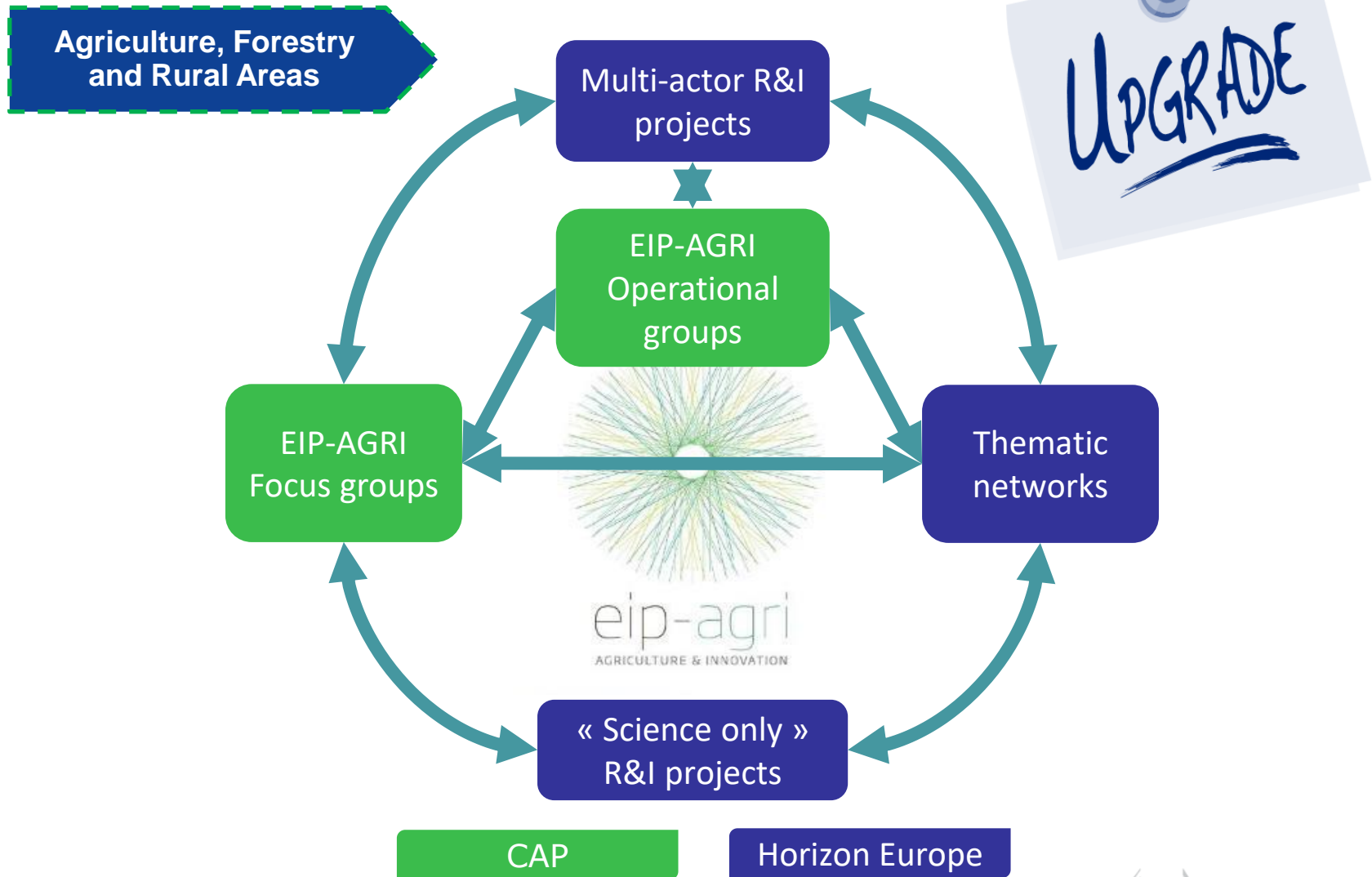
Improved knowledge on structure and performance of **food value chains** will support their innovative **redesign oriented towards sustainability principles**.

It will allow to better:

- balance power relations,
- connect producers, consumers and nature, and
- capture the value of environmental, health and socio-economic impacts originating from food value chains.

More details: [Orientations towards the first Strategic Plan for Horizon Europe](#)

# Boosting implementation of R&I





# Leaving space for new approaches

Adaptation to climate change,  
including societal transformation

Agriculture, Forestry  
and Rural Areas

Soil health  
and food

**Mission  
areas**

Cancer

Climate-neutral  
and smart cities

Healthy oceans,  
seas, coastal  
and inland waters

# Encouraging synergies

**Agriculture, Forestry  
and Rural Areas**



**Towards more sustainable farming:  
agro-ecology living labs  
and research infrastructures**



**Agriculture of data**



**Animals and health**

## Proposed partnerships

**Others related to biodiversity, Blue Economy,  
food systems, circular bio-based sector, water**





# Thank You!

#InvestEUresearch

#AgriResearchEU

#H2020SC2 #HorizonEU

[www.ec.europa.eu/agriculture/research-innovation\\_en](http://www.ec.europa.eu/agriculture/research-innovation_en)

[www.ec.europa.eu/research/bioeconomy](http://www.ec.europa.eu/research/bioeconomy)

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>