

**Stati Generali Green Economy**  
**Innovazione Tecnologica per Transizione Ecologica dell'economia**  
**e delle Imprese italiane**  
**ECOMONDO2023**

**Ricerca e Sviluppo nel settore della**  
**Bioeconomia per l'innovazione tecnologica**  
**per la transizione ecologica in Italia**

**Fabio Fava**

“Gruppo di Coordinamento Nazionale Bioeconomia”, CNBBSV, Presidenza del Consiglio dei Ministri

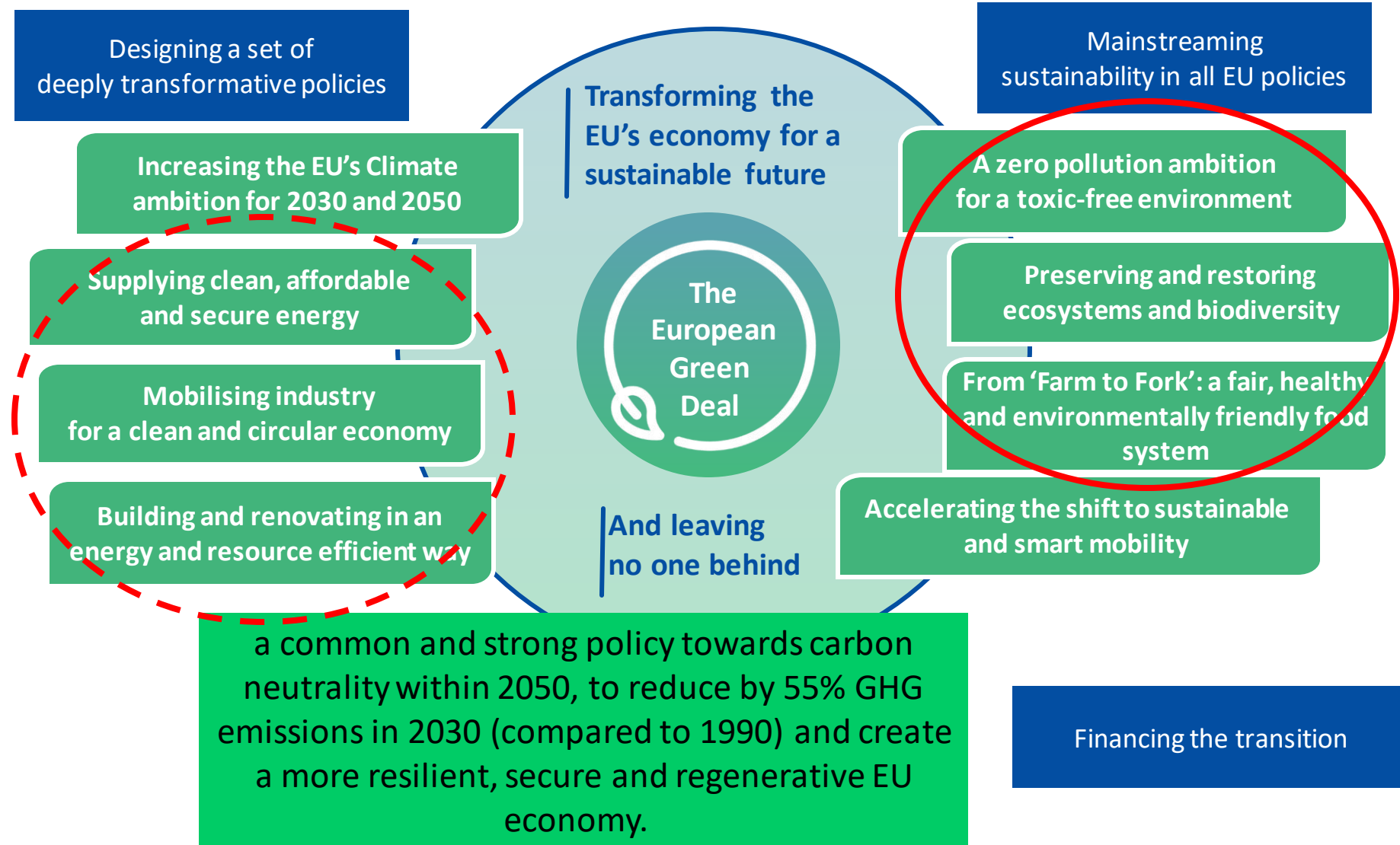
*Comitato di programma, Horizon Europe, Cluster 6*

*State Representatives Group, Public Private Partnership Circular Biobased Europe JU,*

*European Bioeconomy Policy Forum*

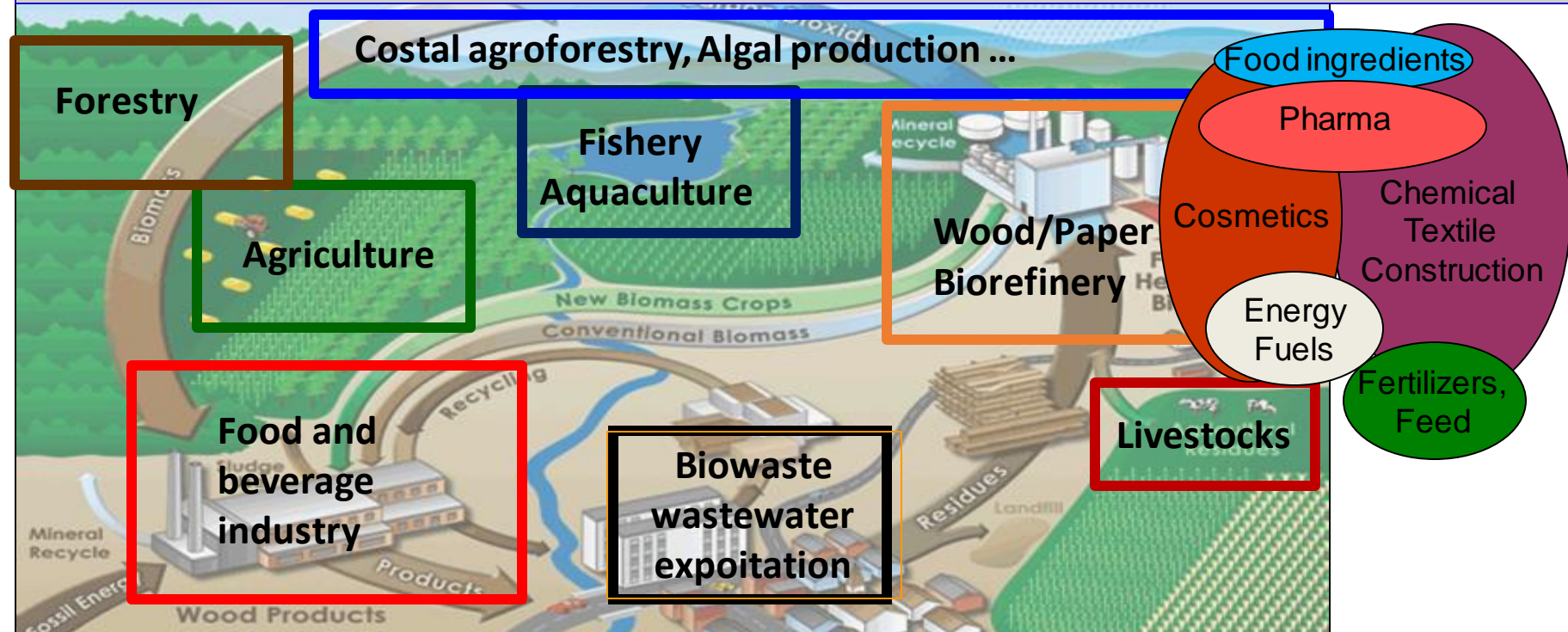
Scuola di Ingegneria, *Alma Mater Studiorum* Università di Bologna (E-mail: [fabio.fava@unibo.it](mailto:fabio.fava@unibo.it))

# Bioeconomy in the frame of EU Green Deal



# The Italian Bioeconomy landscape

**Agriculture**, ~13M ha, 90% in rural areas; Abandoned lands, ~2M ha; **Forestry**, ~12M ha, poorly exploited; **Food&Drink companies**, ~58,000, 88% with <9 employees; **Coastline**, ~ 8,000 km, poorly exploited...



**Italy:** ~335 Bln €/y, ~2.0 Mln of jobs (2018); ~365 Bln €/y, ~ 2.13 Mln of jobs (2021);  
**In EU:** 3<sup>rd</sup> turnover/jobs, 2<sup>nd</sup> as presence in H2020SC2 & BBIJU funded projects,  
1<sup>st</sup> Biodiversity richness and number of high quality products (DOP, IGP, etc) on markets

**Environmental and social benefits, for sustainable/regenerative/inclusive growth**

# IT Bioeconomy strategy (BIT II, 2019) & Implementation Action Plan (2021)



[http://cnbbsv.palazzochigi.it/media/1774/bit\\_en\\_2019\\_02.pdf](http://cnbbsv.palazzochigi.it/media/1774/bit_en_2019_02.pdf)

## “National Bioeconomy Coordination Board” CNBBSV, Presidency Council Ministers, Rome

Composition (PdC decree 2021):

- Ministry Agriculture.....
- Ministry University & Research;
- Ministry Economical Dev...;
- Ministry Environment...;
- Ministry Education...
- X and XI Conferences of Regions & autonomous Provinces;
- SVIMEZ;
- Institute for Environmental Protection and Research;
- Italian Technology Clusters: Circular Bioeconomy (SPRING), AgriFood (CLAN), BlueGrowth (BIG), Forestry and Wood

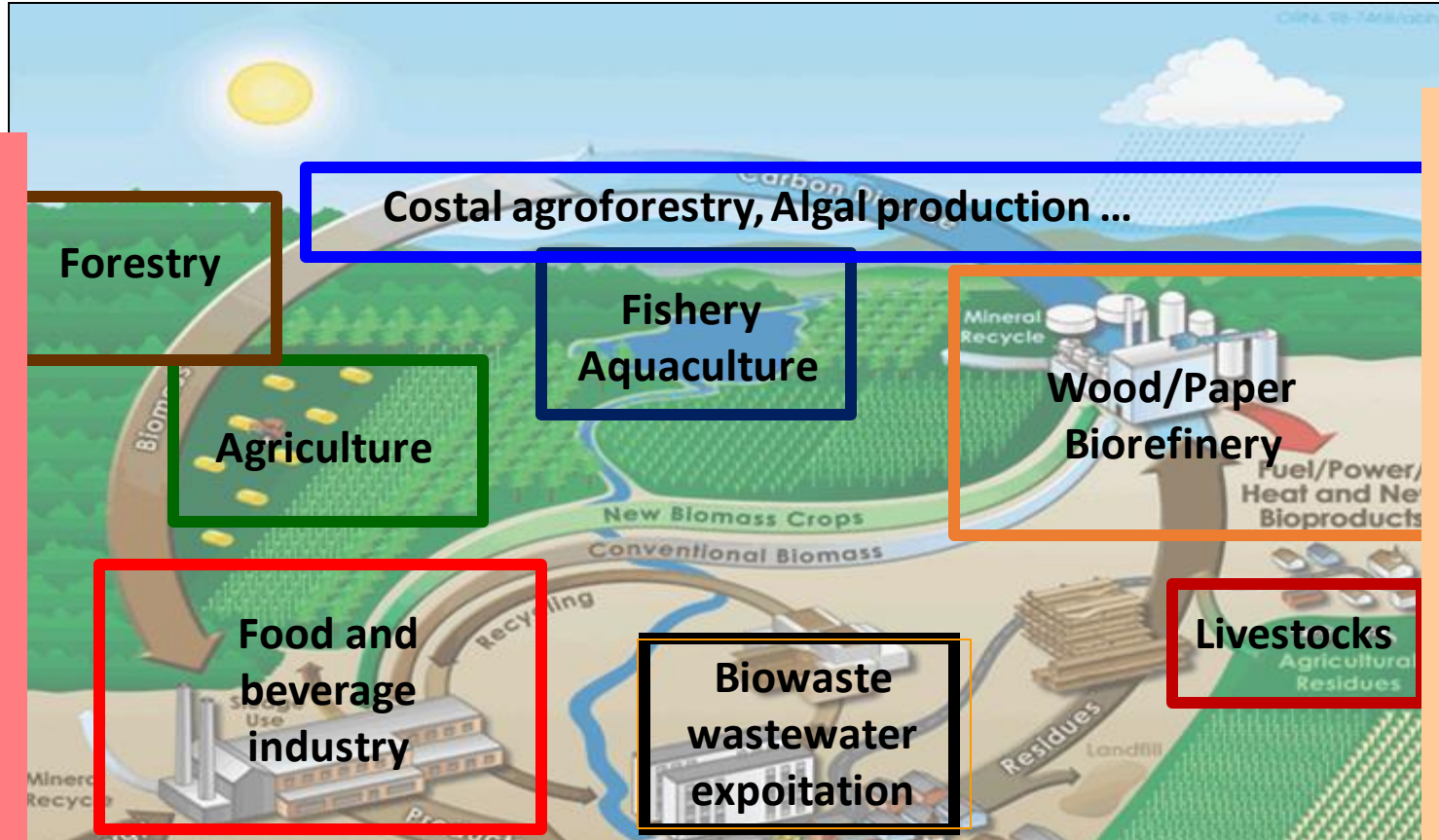
## IMPLEMENTATION ACTION PLAN (2020-2025) FOR THE ITALIAN BIOECONOMY STRATEGY BIT II



**January, 2021**

<http://cnbbsv.palazzochigi.it/en/areas-of-work/bioeconomy/strategies-and-implementation-action-plan/>

# The Italian Bioeconomy landscape

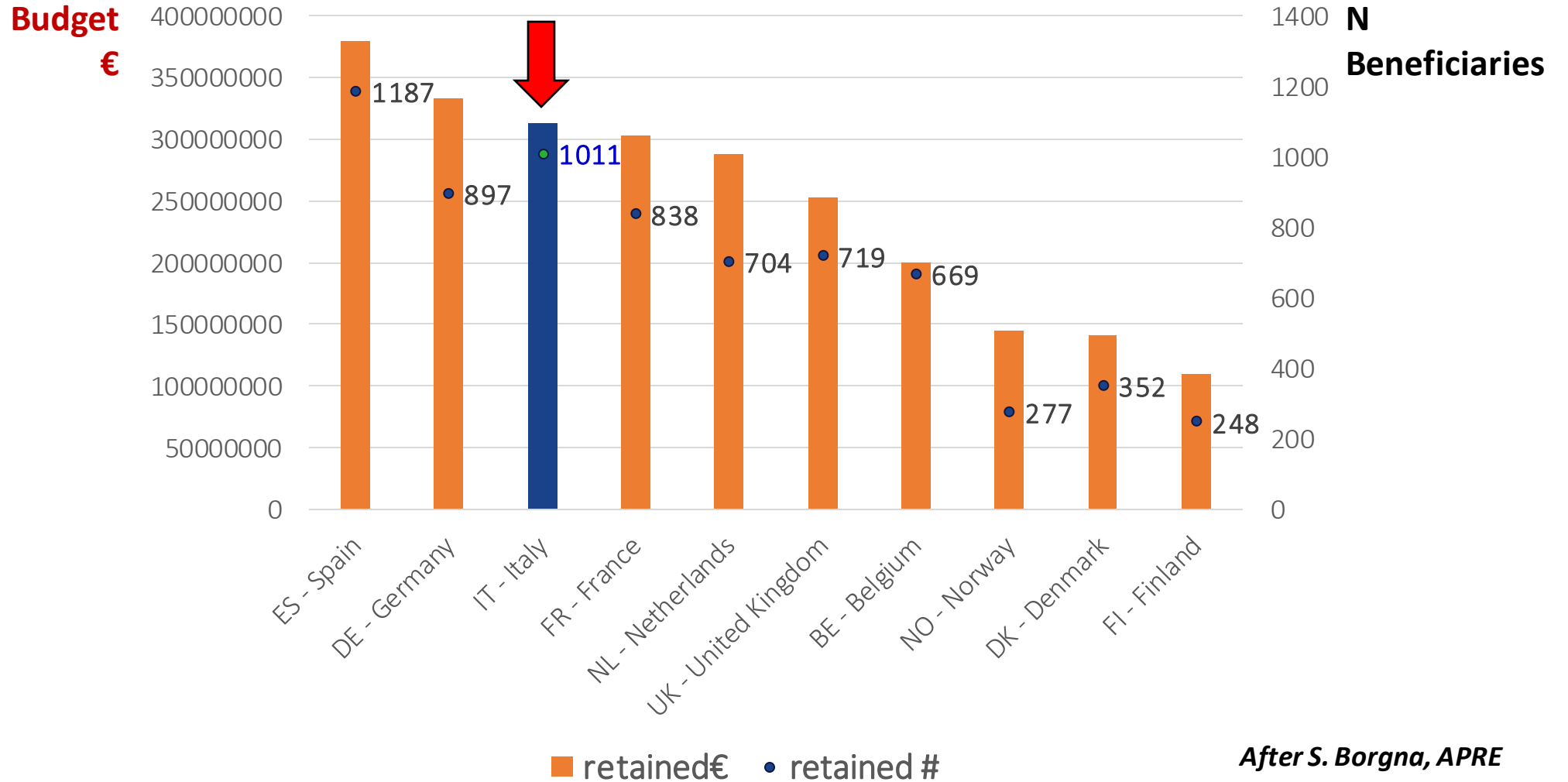


- Improve efficiency, flexibility, safety, biocompatibility and circularity of the production chains, and of the products delivery and use, valorizing digitalization, new bio-packaging, etc
- Production of new Typical/Quality foods, development of personalized and healthier diets, defending their authenticity and traceability;
- New symbiotic society models to improve competitiveness, resilience, sustainability of the sector

- Improve sustainable and climate/stress resilient primary production, valorizing local biodiversity, microbiomes knowhow, new hybridization and production techniques, and digitalization;
- Soil, water and marine ecosystems preservation and regeneration;
- Production of quality products (also «organic»), their certification, and promotion
- Ecosystem services, urban and costal farming

- Improve efficiency, flexibility, circularity of productions, valorising national feedstocks and digitalization;
- Use of biowaste and CO<sub>2</sub> in biorefineries and multiproduct production from wastewater and anaerobic digester plants;
- Production of high quality and certified bioproducts and use of standards and labelling for defending them on the market;
- Foster demand of bioproducts

# IT in H2020 SC2 (€3.8 Bln) & BBI JU (€3.7 Bln) (2014-2020)



# BBI JU projects funded (2014-2020)

**FLAGSHIP projects**  
**DEMO projects**



**142 projects , ~1000 beneficiaries,  
~40% SMEs**

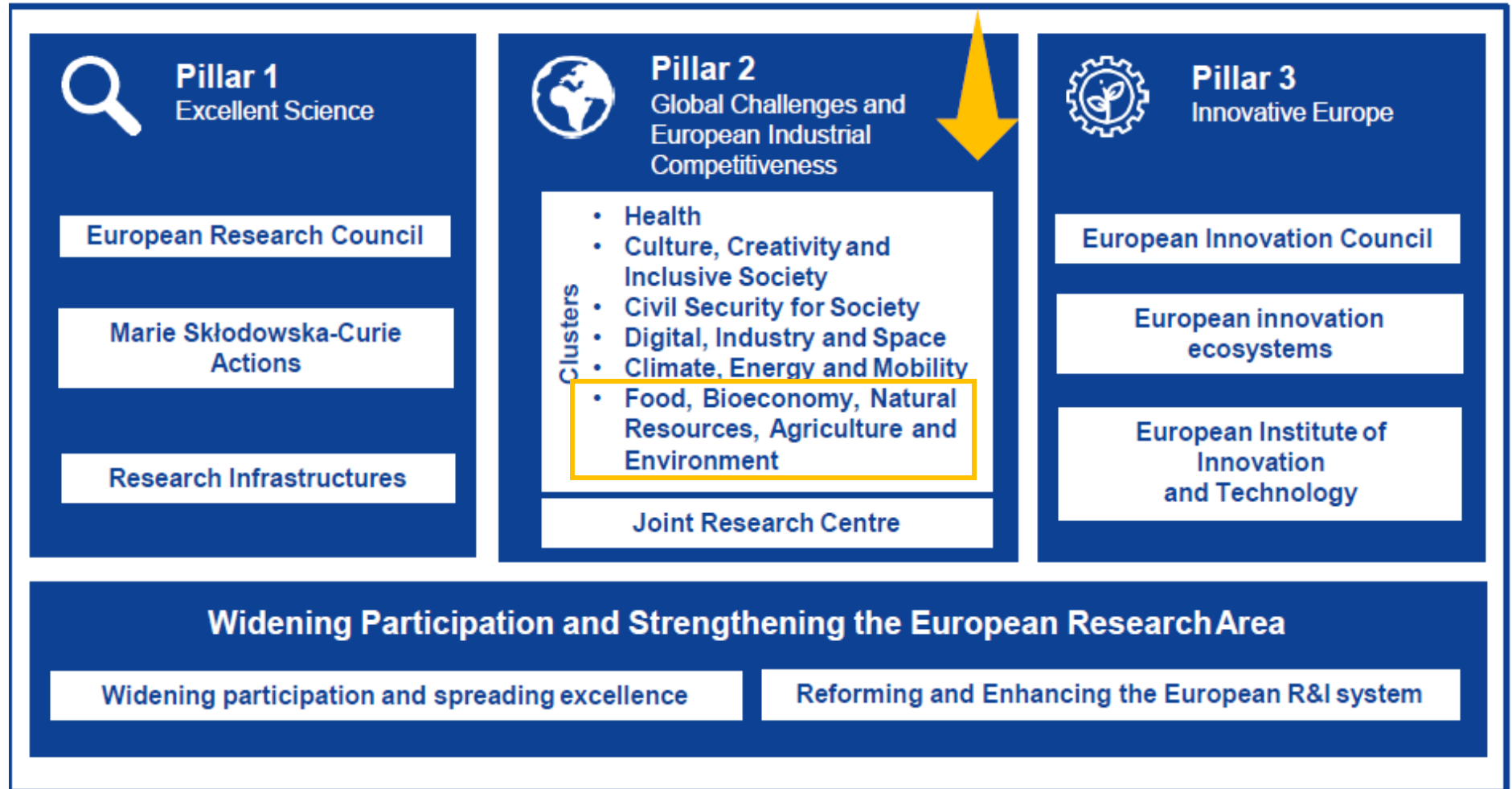
**~ € 822 Mln EC + 2.5 Bln private  
contribution**

**13 FLAGSHIPS**

**Total Grant: € 272 Mln  
€1.8 Bln private investment  
> 4.700 direct  
15.000 indirect jobs**

**Italy: involved in 81 funded  
projects (108 beneficiaries, 65%  
from the private sector, 45% SMEs);  
€ 83 Mln of public funds  
9 coordinated projects, lead or co-  
lead of 2 flagships**

# The Bioeconomy in Horizon EU (95,5 Bln 2021-27)



**MISSIONS:** Restore our Ocean and Waters by 2030; A Soil Deal for Europe;

**PARTNERSHIPS:** biodiversity, agro-ecology & living-labs, agro-digitalization, water4all, animal health, sustainable food systems, sustainable blue economy, CircularBioIndustryEU



# The Public-Private Partnership on Bio-Based Industries (2022-27)

A €2 billion partnership between the European Union and the Bio-based Industries Consortium (BIC) that funds projects advancing competitive circular bio-based industries in Europe.



## CBE JU's objectives

- Accelerate the innovation and development of bio-based solutions
- Accelerate market deployment existing and innovative bio-based solutions
- Ensure high environmental performance of bio-based industrial systems

CBE JU is building on BBI JU's success while enlarging its scope and addressing the remaining challenges of Europe's bio-based industries by:

- Supporting R&I for sustainable bio-based solutions
- De-risking investments in innovative, circular bio-based production plants
- Addressing technological, regulatory & market challenges of the sector
- Strengthening the collaboration of all bioeconomy sectors and actors
- Engaging with more stakeholders along the value chains

## Politica Agricola Comune e Bioeconomia

- Oltre 36 miliardi di euro complessivi (includere risorse non pre-allocate F&V)
- Trasferimento da pagamenti diretti a sviluppo rurale: 126 milioni di euro l'anno, di cui 90 milioni per biologico e 36 milioni per i giovani
- Trasferimento da pagamenti diretti a settore pataticolo: 6 milioni di euro l'anno
- Sviluppo rurale: il cofinanziamento nazionale è aumentato dal 50% circa della programmazione 2014-2020 al 55%

