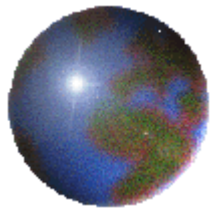


**GR.O.U.N.D, Science Meets Regions**  
**Perugia, October 28, 2022**



# **GR.O.U.N.D challenges and Bioeconomy, and the possible support from EU and IT bioeconomy initiatives**

**Fabio Fava**

*National Bioeconomy Coordination Board, CNBBSV, Presidency of Council of Ministers  
Board Member, Technology Cluster SPRING*

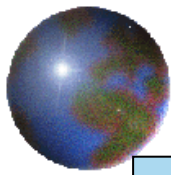
&

*“States Representatives Group” of PPP Circular Biobased Europe (CBE JU),  
«European Bioeconomy Policy Forum», and H EU Cluster VI at EU Commission*

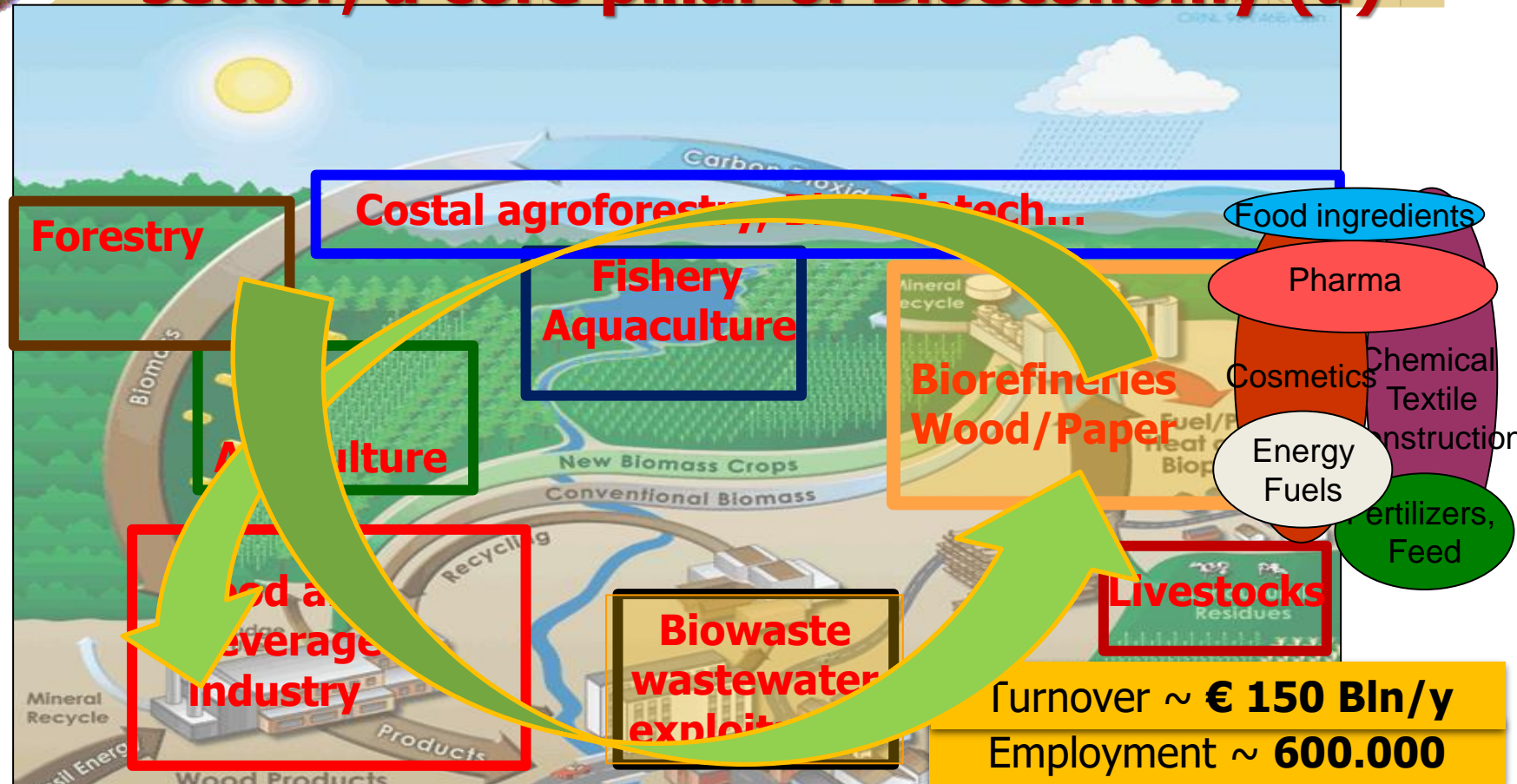
&

*AlmaMater Studiorum-Università di Bologna, Italy*

*(E-mail: fabio.fava@unibo.it)*



# GR.O.U.N.D challenges and the Biobased sector, a core pillar of Bioeconomy (a)



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

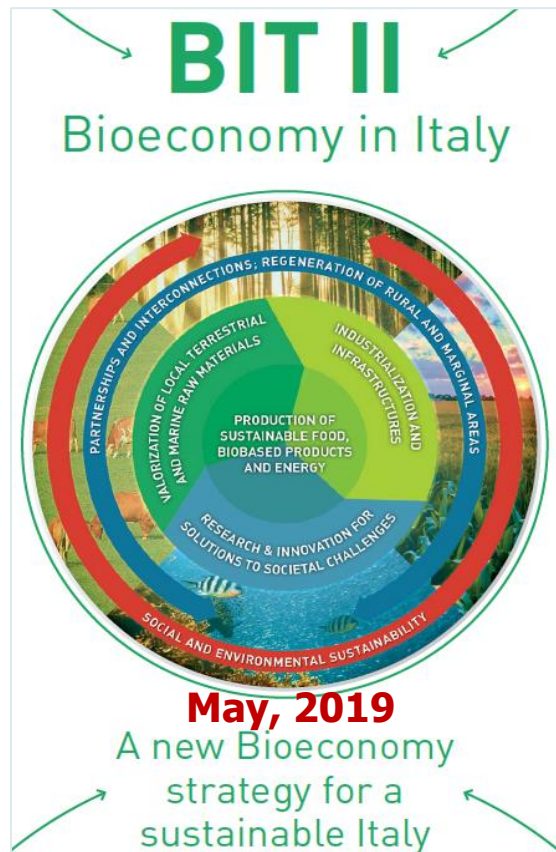
**Europe:** about 2,400 Bil €/y and 18,5 Mil of jobs (2018)

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



# IT Bioeconomy strategy (BIT I, 2017; II, 2019) & Implementation Action Plan (2021)

## "National Bioeconomy Coordination Board" CNBBSV, Presidency Council Ministers, Rome



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

Composition (PdC decree 2021):

- Ministry Agriculture, Food, Forestry Policies;
- Ministry University & Research;
- Ministry Economical Dev;
- Ministry Ecological Transition;
- Ministry Education.
- X and XI Conferences of Regions & autonom. Provinces;
- Italian Agency territorial cohesion; SVIMEZ;
- Institute for Environmental Protection and Research;
- Italian Technology Clusters: Circular Bioeconomy (SPRING), AgriFood (CLAN), BlueGrowth (BIG).

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

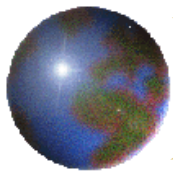


**January, 2021**

*Presidenza del Consiglio dei Ministri*  
**CNBBSV**

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

<http://cnbbsv.palazzochigi.it/en/areas-of-work/bioeconomy/>



# IT tools for boosting BioBased Industry



Italian Circular Bioeconomy Cluster

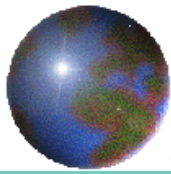


Next Generation EU national Hubs « Biodiversity » and « Agritech »  
Regional Clusters, Next Generation EU extended partnerships...

## Mission & actions:

- ☐ Integrate major national public and private actors of the sector;
- ☐ Identification of main regional & national R&I needs and opportunities;
- ☐ Promotion of identified priorities/needs towards regional, national and EU institutions funding R&I;
- ☐ Promotion of partnerships and the participation of public R&I institutions, industry and associations in regional (Next Generation EU, FESR, FSE, etc.) national and EU (Horizon 2020/EU, BBI/CBE JU, JPIs) agendas/programs for R&I, by reducing fragmentation and duplication, and fostering effective innovation.





# The updated European Bioeconomy strategy

A new  
**bioeconomy** strategy for a sustainable Europe



Brussels, October 22, 2018

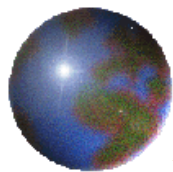
<https://ec.europa.eu/research/bioeconomy/index.cfm?pg=policy&lib=strategy>

## **Rapidly deploying bioeconomies across Europe**

- set up an EU Bioeconomy Policy Support Facility for EU countries to develop national/regional agendas;
- launch pilot actions for the development of bioeconomies in rural, coastal and urban areas, interconnecting the sectors.

**Scaling up and strengthening the bio-based sectors** via a €100 million **Circular Bioeconomy** Thematic Investment Platform.

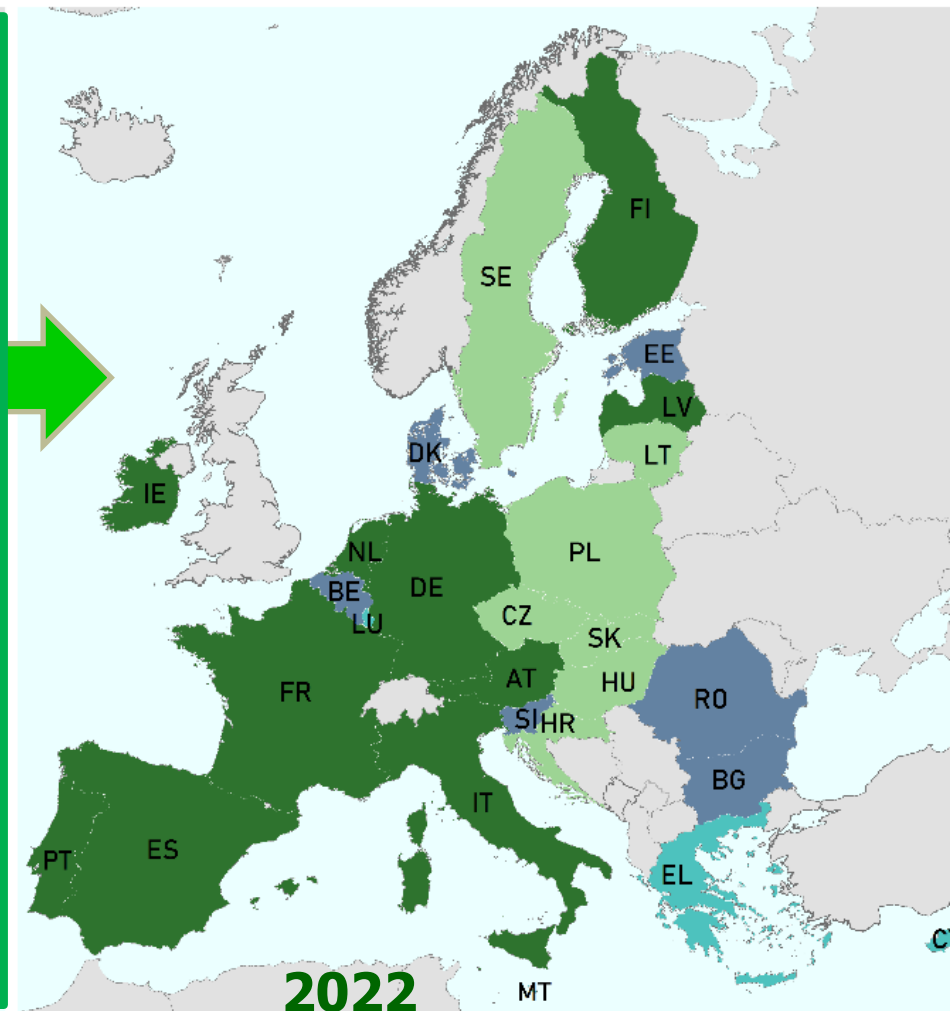
Protecting the ecosystem and understanding the ecological limitations of the bioeconomy



# The current Bioeconomy positioning in EU

## Status of the national bioeconomy policies in the EU-27

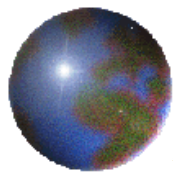
- 10 Member states with dedicated bioeconomy strategies at national level (AT, DE, ES, FI, FR, IE, IT, LV, NL, PT)
- 6 MS in the process of developing their respective dedicated national strategies (CZ, HR, HU, LT, PL, SK)
- 7 MS are involved in other macro-regional (BG, DK, EE, RO, SI, SE) or sub-national (BE) policy initiatives dedicated to the bioeconomy.
- 4 MS have bioeconomy related strategies (CY, EL, LU, MT)



- Dedicated bioeconomy strategy at national level
- Dedicated bioeconomy strategy at national level under development
- Other policy initiatives dedicated to the bioeconomy
- Other related strategies at national level

Status before the adoption of the European Bioeconomy Strategy (left side) and in February 2022 (right side)

Source: European Commission's Knowledge Centre for Bioeconomy  
Administrative Boundaries: © EuroGeographics © UN-FAO © Turkey



# The European Bioeconomy Policy Forum



**All MSs, EC DGs, EP, CoR, EESC (high and expert-level) 2020**

2012

2018

2019

2022



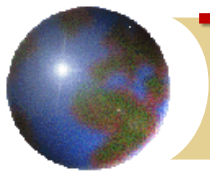
1<sup>st</sup> Bioeconomy Strategy (2012)

Updated Bioeconomy Strategy (2018)

**Towards a green and just transition**

Council Conclusion

Bioeconomy Progress Report



# The Bioeconomy in EU: current status and perspectives



REPORT FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

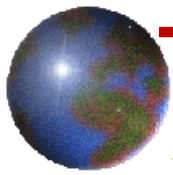
EU Bioeconomy Strategy Progress Report



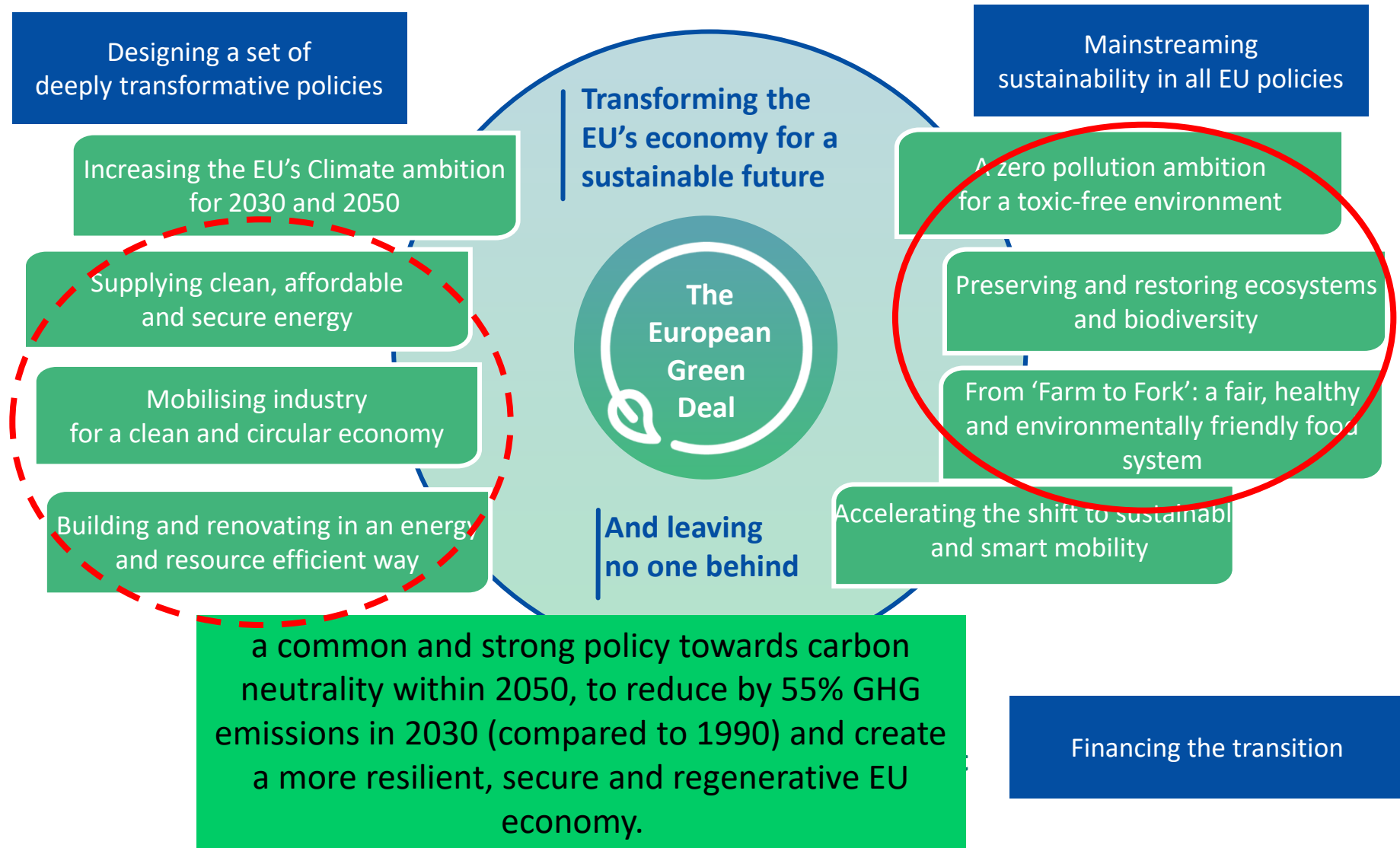
High-level **Bioeconomy Conference** to present the Progress Report on the EU Bioeconomy Strategy

**Brussels, 6-7<sup>th</sup> October 2022**





# The Biobased industry and Bioeconomy in the frame of the EU Green Deal



# ***A Public-Private Partnership on Bio-Based Industries***



*Realising the European Bio-economy Potential*

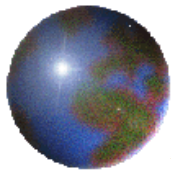
**€ 3.7 Billion 2014-2020**

Supported by



**<http://www.bbi-europe.eu/>**

 Bio-based Industries  
Consortium



# BBI JU projects funded (2014-2020)(a)

14 flagship  
projects  
€272 million  
of BBI JU  
funding

FLAG



RIA



71 research and  
innovation actions  
€256 million  
of BBI JU funding

CSA



18 coordination  
and support  
actions  
€19 million  
of BBI JU funding

DEMO

39 demonstration  
actions  
€274 million of  
BBI JU funding





# BBI JU projects funded (2014-2020)(b)

Call  
2014

Call  
2015

Call  
2016

Call  
2017

Call  
2018

Call  
2019

Call  
2020

2021

2022

2023

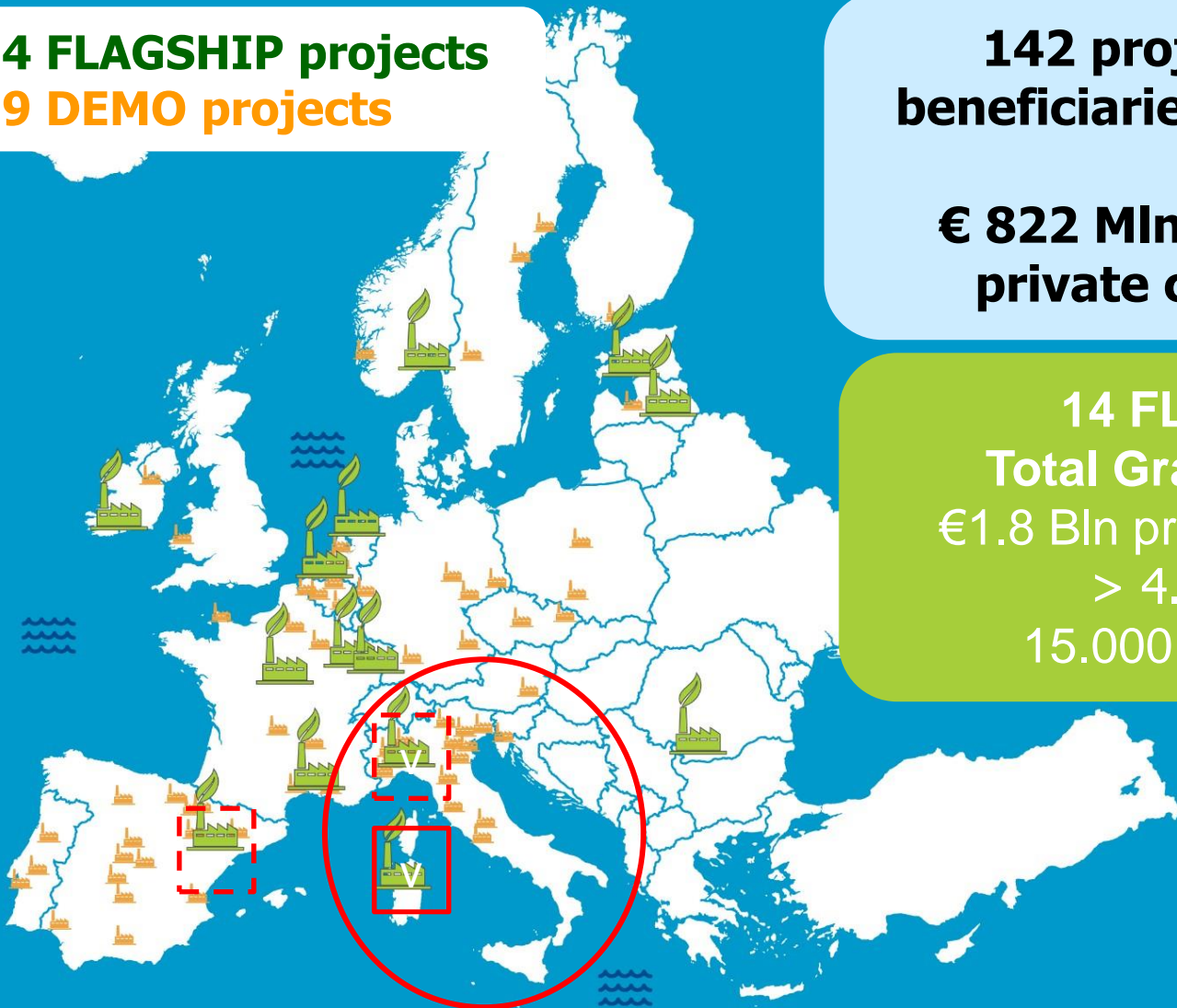
2024

**14 FLAGSHIP projects**  
**39 DEMO projects**

**142 projects , 1050  
beneficiaries, ~40% SMEs**

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

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







# BBI JU projects funded in Italy (2014-2020)(a)



**81** projects (9  
as coordinators)



**25**  
Universities  
&  
research  
centres

**108**  
Unique  
beneficiaries

**13**  
Other

**70**  
Private  
companies

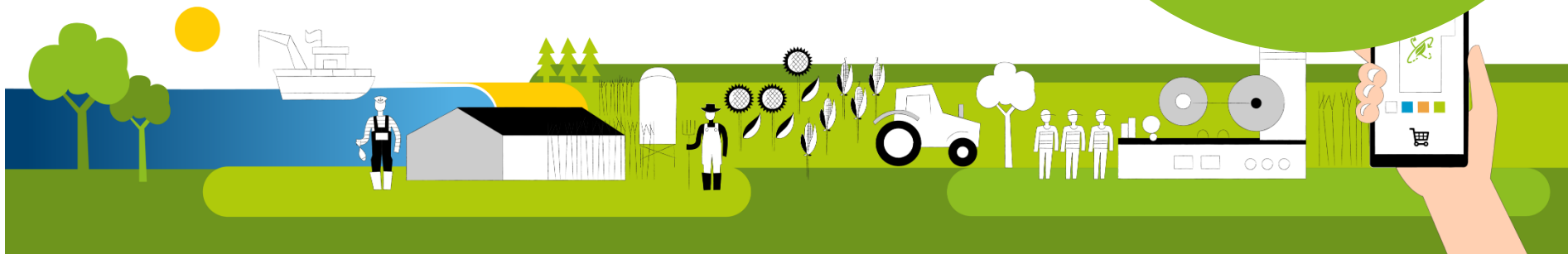
**48**  
of which  
are  
**SMEs**

**€83.3 million**

BBI JU contribution

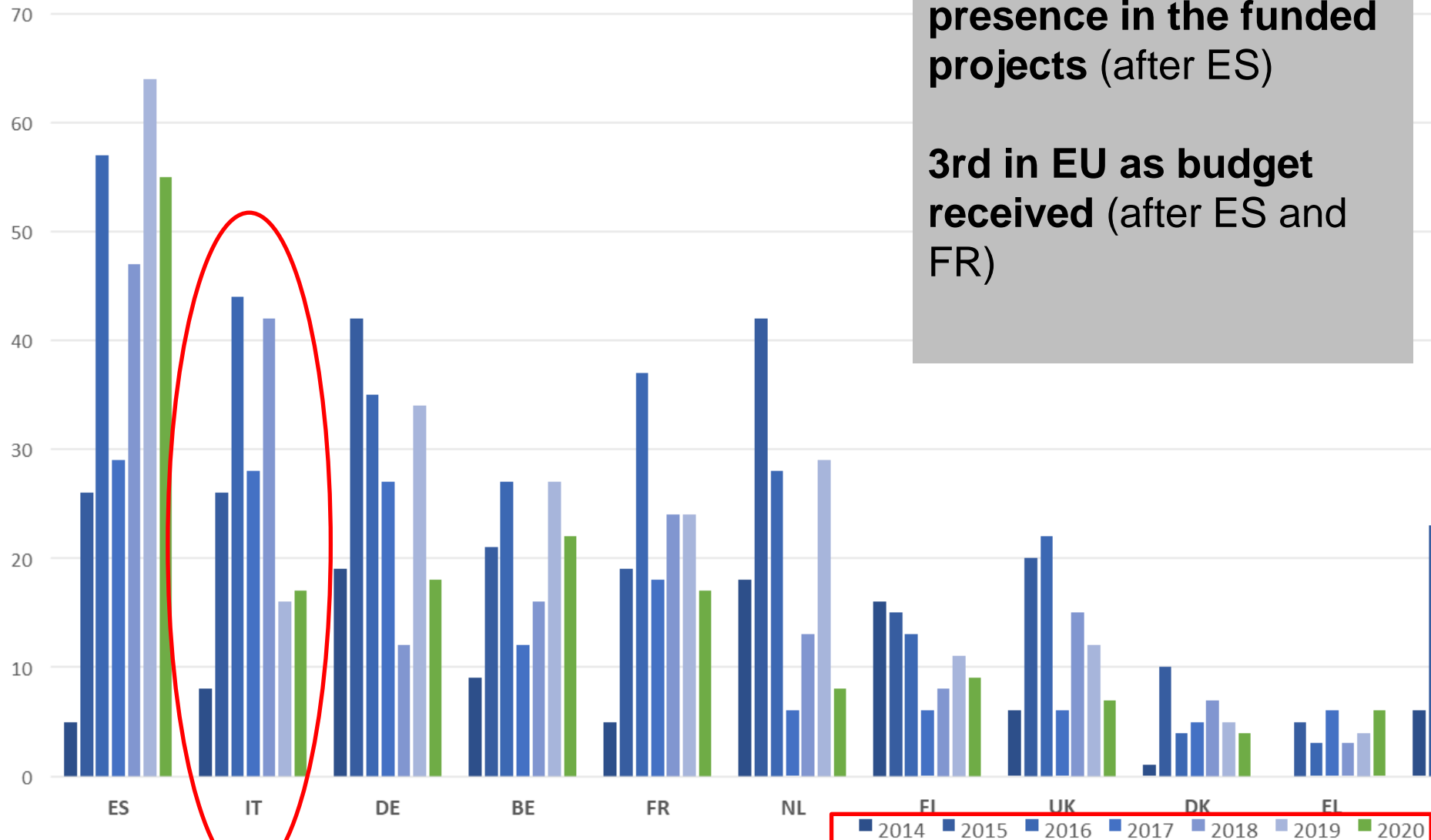
**46%**  
to SMEs

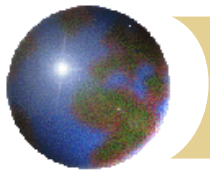
**24%**  
to universities  
and research  
centres





# BBI JU projects funded in Italy (2014-2020)(b)





# The new PPP CBE JU: 2022-2027



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
- Accelerate market deployment existing and in
- Ensure high environmental performance

CBE JU is **Annual Work Programme 2023: expected for the end of 2022** access while enlarging its scope and addressing challenges of Europe's bio-based industries by:

- Supporting 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
- Primary producers/citizen's/consumers engagement; Education, communication

# Horizon Europe (€ 95.5 Bln, 2021-27)



**Pillar 1**  
Excellent Science

European Research Council

Marie Skłodowska-Curie  
Actions



**Pillar 2**  
Global Challenges and  
European Industrial  
Competitiveness

- Health
- Culture, Creativity and  
Inclusive Growth



**Pillar 3**  
Innovative Europe

European Institute of  
Innovation  
and Technology

**Work Programme 2023-24**  
**Publication: end of November 2022;**  
**Info days: Dec 13 and 14, 2022;**  
**Brokerage event: Dec 19 2022.**

Participation and Strengthening the European Research Area

Strengthening participation and spreading excellence

Reforming and Enhancing the European R&I system

**Destination 3: Circular economy and bioeconomy sectors**

**Destination 4: Clean environment and zero pollution**

**Destination 6: Resilient, inclusive, healthy and green rural  
coastal and urban communities-**

**Thank You!**