



From Navarra to Europe: Leading the Circular Bio-based Transition

Unlocking opportunities through BIC & CBE JU

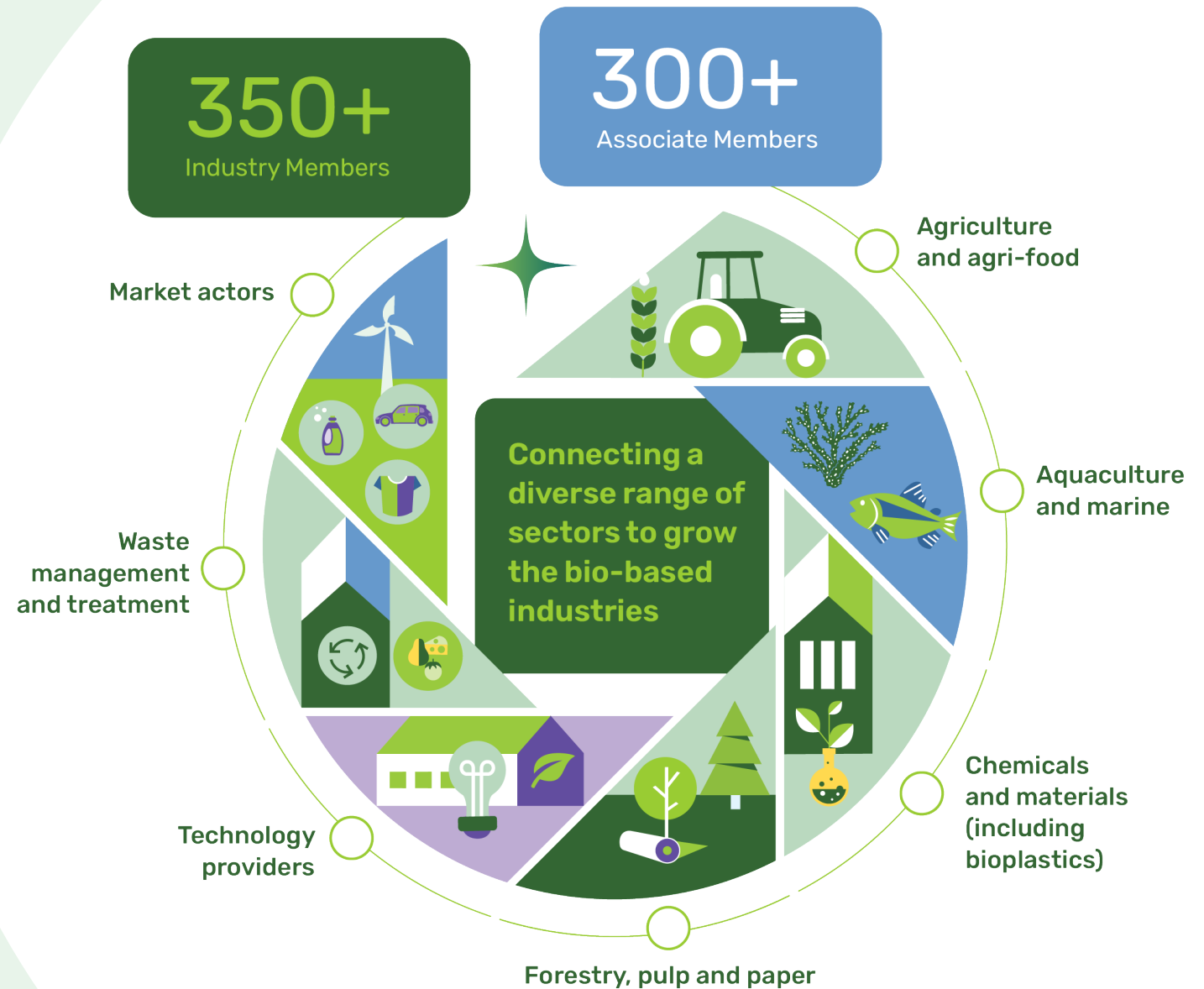
Nelo Emerencia, Bio-based Industries Consortium (BIC), Pamplona, 9 October 2025



Leading Europe's sustainable, circular, bio-based transition

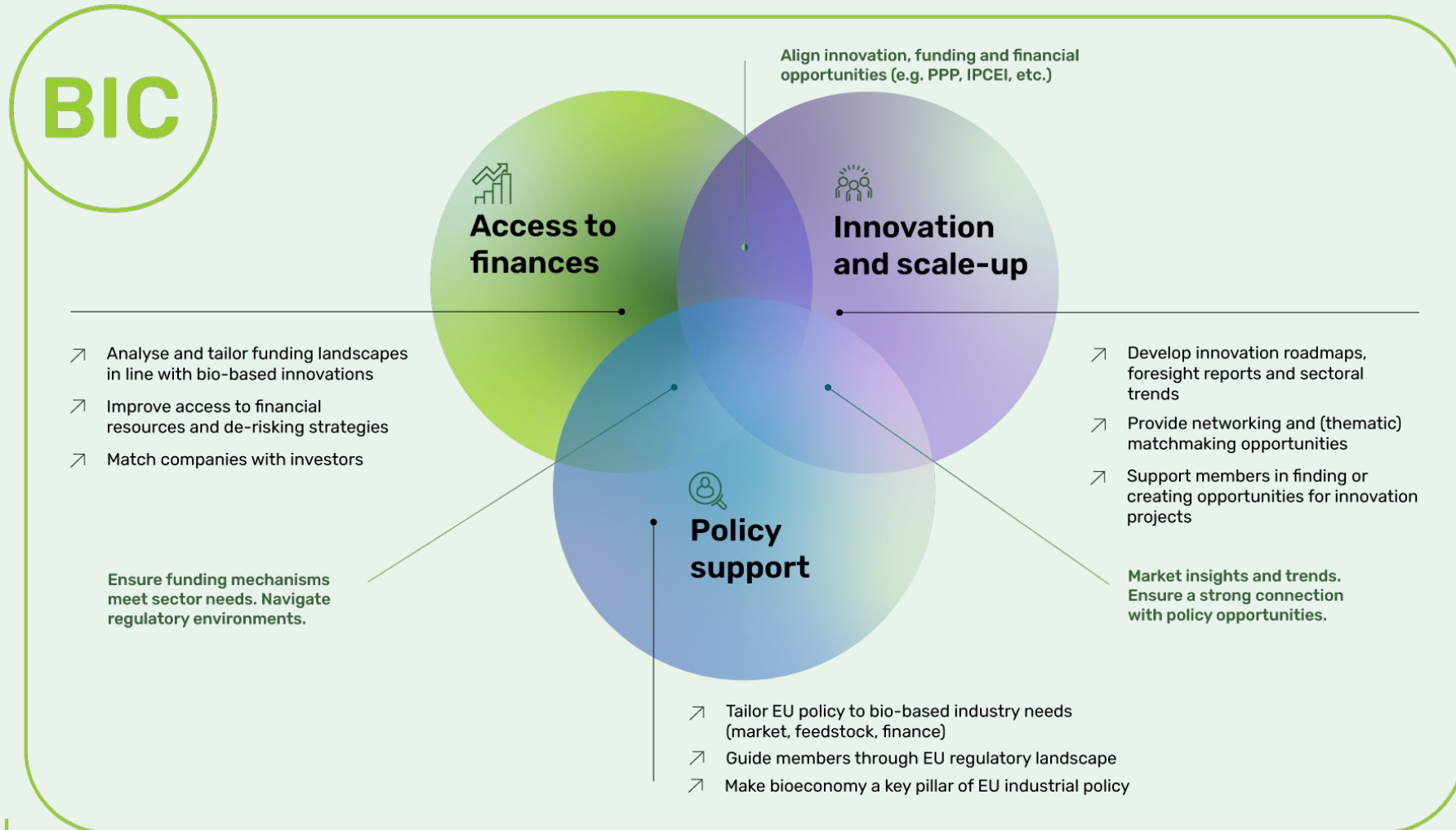
The Bio-based Industries Consortium (BIC) is a non-profit organisation connecting industry, academia, regions and citizens to transform bio-based feedstocks into novel sustainable products and applications, and create circular bioeconomy ecosystems through investments, innovation and know-how.

biconsortium.eu



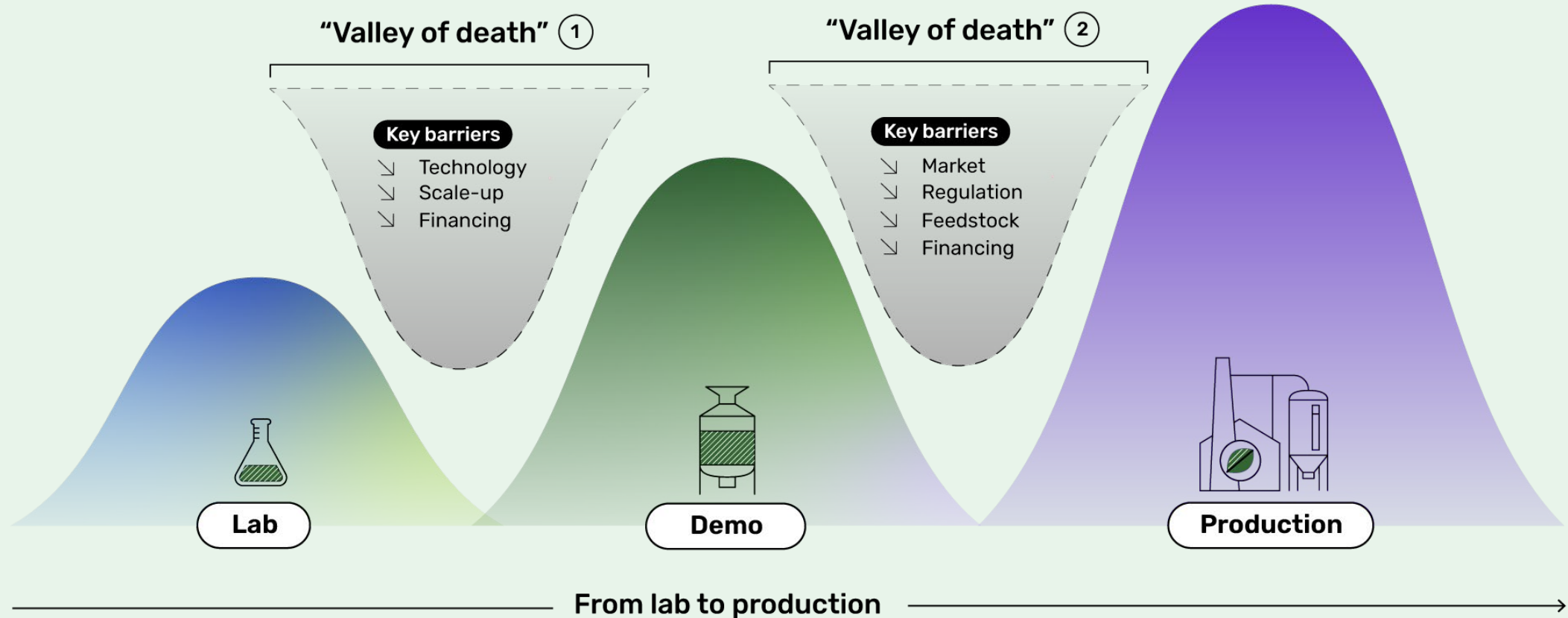


Key Objectives





Valley of death





The Circular Bio-based Europe JU



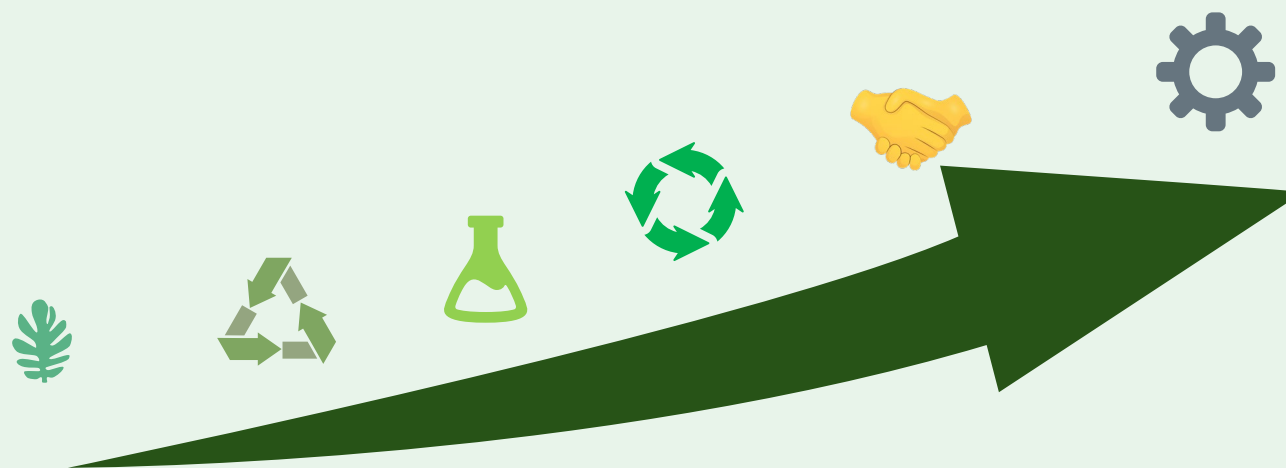
CIRCULAR BIO-BASED EUROPE JOINT UNDERTAKING (CBE JU)

What is CBE?

- Joint Undertaking under Horizon Europe
- Funding Research and Innovation projects up to TRL 8 (*unicum!*)
- 6 annual calls for proposals, from 2022 to 2027
- Budget: € 1 billion of public funding + € 1 billion industry investment



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CBE JU flagship projects



Flagship
biorefinery

	1	Avaldsnes Norway		2	Sarpsborg Norway
	3	Imavere Estonia		4	Imavere Estonia
	5	Riga Latvia		6	Sas van Gent The Netherlands
	7	Amsterdam The Netherlands		8	Delfzijl The Netherlands
	9	Amiens France		10	Saint-Avoid France
	11	Péage de Roussillon France		12	Hervás Spain
	13	Zaragoza & Sesto San Giovanni Spain & Italy		14	Baillargues France
	15	Péage de Roussillon France		16	Porto Torres & Crescentino Italy
	17	Porto Torres Italy		18	Bottrighe Italy
	19	Podari Romania			



Circular
Bio-based
Europe
Joint Undertaking

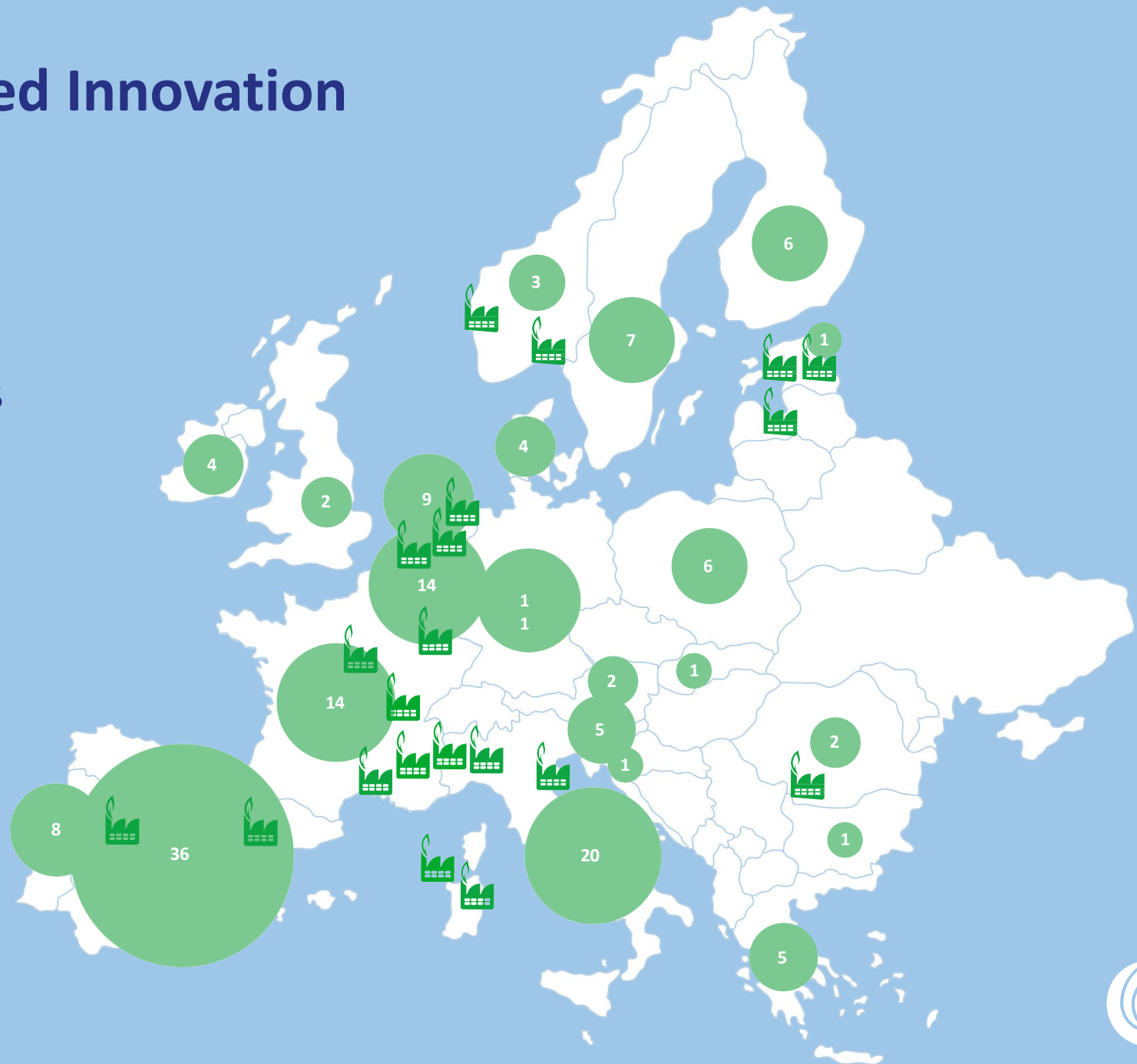
CBE JU-funded Innovation Actions



Flagship biorefinery



Demonstration plants



Number of projects per country



Circular
Bio-based
Europe
Joint Undertaking

CBE JU funding
€14 million

Biorefinery location
📍 Hervás, Spain

Coordinator
Natac Biotech, Spain

Project focus
🌱 Food & feed

How to put in practice a zero-waste and circular-by-design industrial process in a rural region in Europe?

SUSTAINEXT is up to the challenge in Extremadura, Spain. The project is turning an existing production plant into a digitalised circular biorefinery to produce healthy plant-based ingredients from local medicinal and aromatic plants, and agricultural sidestreams.

This will generate value and new jobs for the region, showing **the positive impact of pursuing the European Green Deal** objectives. The project's model is easily adaptable and replicable and can run on renewable energy.



CBE JU funding

€15 million

Biorefinery location

📍 Zaragoza, Spain & Sesto
San Giovanni, Italy

Coordinator

Urbaser, Spain

Project focus



Bio-based
polymers & plastics

Despite gigantic advances in waste recycling in recent decades, the organic fraction of municipal solid waste and sewage sludge are not recovered efficiently enough.

The CIRCULAR BIOCARBON flagship project is building two first-of-their-kind biorefineries converting waste into four value-added products and a range of other intermediate products.

The project's goal is to open new business frameworks based on an innovative circular approach to urban waste treatment. By doing so, the organic waste that currently goes to landfill and incineration will be reduced, it will also cut greenhouse gas emissions, notably methane and carbon dioxide.



Circular
Bio-based
Europe
Joint Undertaking

CBE JU funding

€25 million

Biorefinery location

 Delfzijl, the Netherlands

Coordinator

Avantium Chemicals BV,
the Netherlands

Project focus

 Packaging

Modern human societies need plastic for a wide range of uses, calling for innovative solutions to cut the environmental pollution.

The PEference flagship project is establishing the first industrial-scale, cost-effective biorefinery producing FDCA, a bio-based chemical, to make high-value products.

The goal is to replace a significant share of fossil-based plastics with 100% bio-based polyesters. These can compete with traditional packaging products in price and performance when produced at scale. The resulting bio-based material is sustainable and completely recyclable.

From Europe to Navarra: Opportunities in the Bio-based Transition

How Navarra's innovation ecosystem can connect with BIC & CBE JU

- Join BIC to connect with EU leaders
- Partner in CBE JU calls and projects
- Leverage Navarra's agri-food, forestry, and biotech assets
 - Strengthen Navarra's collective presence in Europe



**Navarra has the assets. Europe has
the platform. Together we can lead.**

Let's make Navarra a European leader in the bio-based transition.





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