



EUCLUSTERS



An initiative of the European Union



Sustainable Food Systems:

Cluster approaches in the bio-based economy

15 November 2023

08:30-09:45 CET

Online

#SingleMarket30

Agenda

1. News from the European Cluster Collaboration Platform
Nina Hoppmann, *Team Member, European Cluster Collaboration Platform*
2. Common agricultural policy (CAP) and bioeconomy
Tsjerk Terpstra, *Policy Officer, DG AGRI, European Commission*
3. Circular Bio-based Europe Joint Undertaking
Nicoló Giacomuzzi-Moore, *Acting Executive Director, CBE JU*
4. Panel debate
Stephen Barry-Hannon, *Senior Researcher & Project Manager, Circular Bioeconomy Cluster South-West*
Susana Caio, *Project Manager, InovCluster*
Yuan Chai, *International Affairs Officer, Wagralim*
5. Funding opportunities
Nina Hoppmann, *Team Member, European Cluster Collaboration Platform*

Housekeeping rules

Zivile Kropaite, presenter

- We will use **slido** to launch polls. Please scan the QR code to answer.
- Please use the **Zoom Q&A function to ask questions**, and the **chat function** to comment or share links
- If you want to speak: Please **raise your hand** and we will give you the floor.
- Please note that the session is being **recorded** and that the recording will be **published** on the European Cluster Collaboration Platform.

NEWS FROM THE EUROPEAN CLUSTER COLLABORATION PLATFORM

Save the Date: European Cluster Conference

The next European Cluster Conference is around the corner!

When? **7-8 May 2024**

Where? **Brussels – Square**

What? **Panel discussions, parallel sessions, workshops, matchmaking, site visits, exhibition**

Submit your topic and speaker ideas for the programme by 24 November!

[https://ec.europa.eu/eusurvey/runner/ECCallforideas2023](https://ec.europa.eu/eusurvey/runner/ECCCallforideas2023)



Follow the livestream of the SME Assembly on 13-15 November

The Assembly will feature high-level panels and interviews, expert round tables, interactive workshops, informative masterclasses and numerous networking opportunities. These will help stimulate Europe's enterprises and equip them with the right tools for the transition towards sustainability and digitalisation.

You can follow the event via the **livestream**.
[Download and install the Promoting Enterprise app.](#)



Take part in the Cluster Booster Academy

The Cluster Booster Academy is an annual event designed for 35 to 50 **cluster managers**. This third iteration will maintain a hybrid format, this time spanning five days:

- **3 days of online training sessions: 23-25 January 2024.** In the mornings from 10 AM to 2 PM CET. This virtual component comprises 1 full day and 2 half days with smaller, more interactive sessions.
- **2 days of in-person training sessions: 11-12 March 2024,** hosted at the Automotive Cluster in Sofia, Bulgaria, allowing participants to personally get to know each other, strengthen networking, and enhance collaboration.

If you are a cluster manager looking to enhance your skills, [apply now](#).



Join Clusters meet Regions!

The objective of the [‘Clusters meet Regions’ events](#) is to facilitate the implementation of good practices where clusters play an active role in regional economies and are **drivers for economic transition**, and to create and promote **collaborations between clusters and regional stakeholders** for the industrial development of the regions.

All event will also have **matchmaking sessions!**

- **Iași, Romania – 21-23 November 2023;**
registration open
- **Kraków, Poland – 11-12 December 2023;**
registration open

The next **call** to host a ‘Cluster meet Regions’ event is published! It is open to institutions such as clusters, regional agencies for economic development, and business network groups.



Feedback survey for ECCP users

Please share your opinion!

We are constantly looking for ways to improve our ECCP activities to best suit the needs of our community. As such, we kindly ask for your **feedback** on some key features and its utility.

https://ec.europa.eu/eusurvey/runner/ECCP_users

The screenshot displays the ECCP website interface. At the top, it reads "The European online hub for industry clusters" with the tagline "Strengthening the European economy through collaboration" and the European Union flag. Below this is a navigation bar with the text "Map industrial clusters and find partners" and a subtext "per country, region, sector or industrial ecosystem", accompanied by an "Explore" button. The main section is titled "Our services" and lists seven key offerings, each with a hexagonal icon and a brief description:

- Clusters meet Regions**: Join clusters and policymakers in the local, regional, and national level and work on strengthening the industrial ecosystem of regions.
- EU Clusters Talks**: Your weekly opportunity to exchange knowledge and discuss topics significant to the EU business community.
- EU Clusters Matchmaking Events**: Team up with other cluster organisations from Europe and third countries and find new collaboration opportunities at dedicated matchmaking events.
- C2Lab**: Interactive workshops for cluster organisations, companies, and other interested entities to meet up, establish new collaborations and develop project roadmaps.
- Cluster Booster Academy**: Join our Cluster Booster Academy, meet other cluster managers and learn how to further develop your cluster and overcome challenges in your daily work!
- Green Transition Support**: Connect with other businesses in the green transition, and get practical knowledge, tools and information you need for your work.
- Trend Universe**: A strategic foresight instrument which allows you to get a deeper understanding of future trends and their impact on your cluster organisation.

Common agricultural policy (CAP) and bioeconomy

Tsjerk Terpstra

Policy Officer, DG AGRI, European Commission



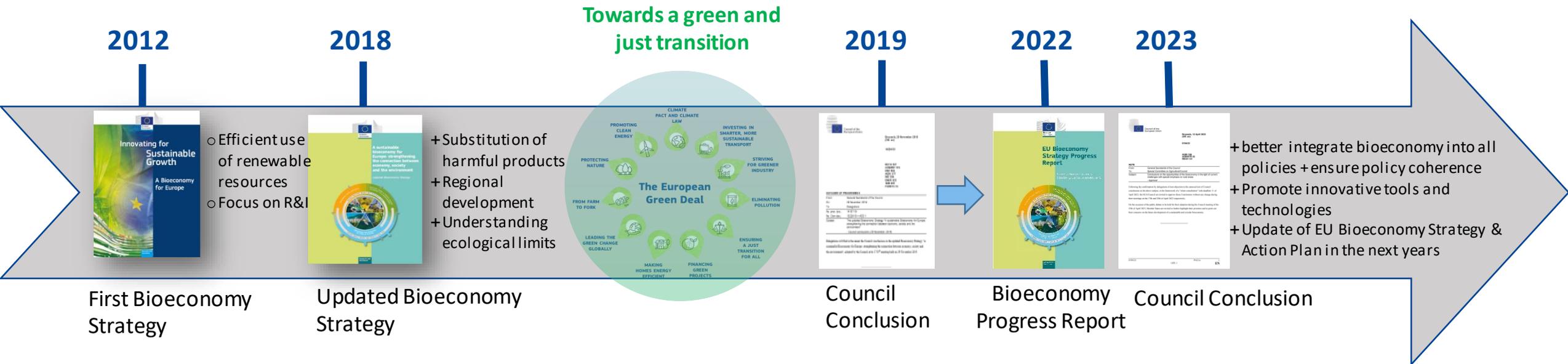
Bioeconomy & the Common Agricultural Policy (CAP)

EU Clusters Talks: Sustainable food systems - Cluster approaches in the bio-based economy

Tsjerk TERPSTRA, European Commission, Directorate General for Agriculture and Rural Development

15 November 2023

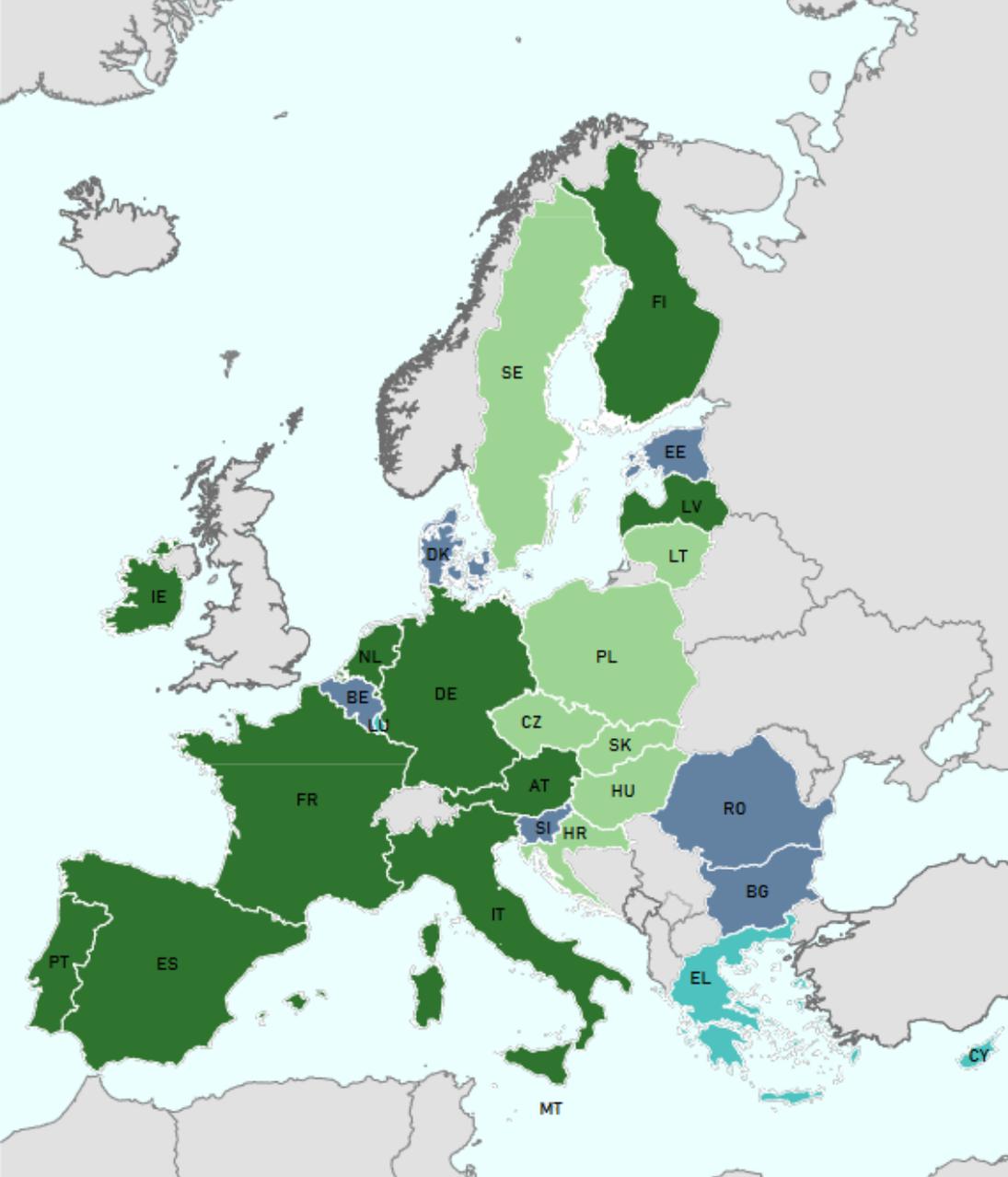
EU Bioeconomy Strategy



Status of the national bioeconomy policies in the EU-27

(as of Dec 2022)

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

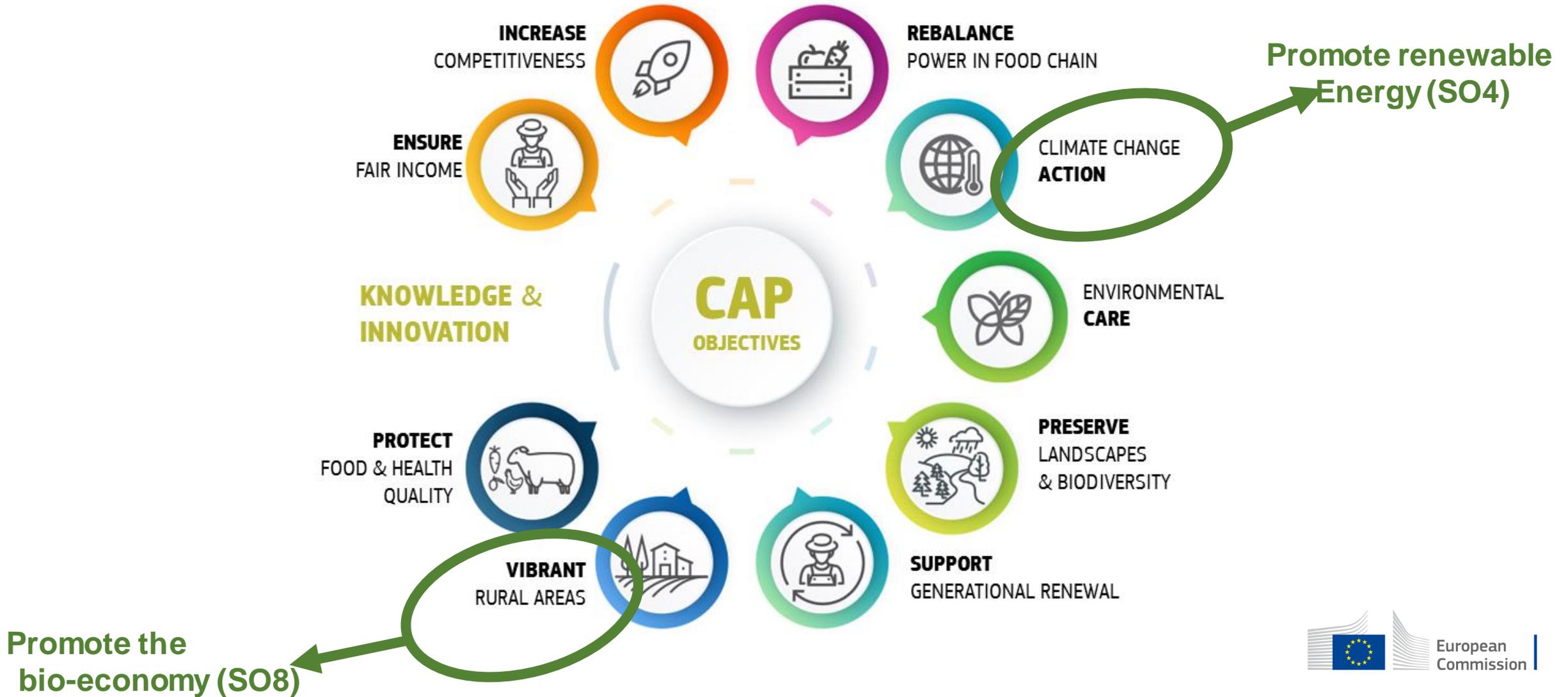


Status of national bioeconomy strategies:

- 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

Source: EC's Knowledge Centre for Bioeconomy
Administrative Boundaries:
© EuroGeographics © UN-FAO © Turkstat

CAP Objectives & Bioeconomy



CAP Strategic Plans – shared management

- **Single CAP plan** for all interventions with a common monitoring system
- **Strategic approach** based on needs assessment
- **Structured dialogue** with Member States
- **MS draws up** and submits the CAP Plan
- CAP Plan is **approved by the Commission**
- **Implementation** of the CAP Plans started in **2023**

INFO

https://agriculture.ec.europa.eu/cap-my-country/cap-strategic-plans_en



EU SPECIFIC OBJECTIVES

Contribute to climate change mitigation and adaptation, [...] as well as to promote **sustainable energy**

Promote employment, growth, gender equality, including the participation of women in farming, social inclusion and local development in rural areas, including **circular bio-economy and sustainable forestry**

IMPACT INDICATORS

- ...
- **I.12 Increasing sustainable energy in agriculture:** Sustainable production of renewable energy from agriculture and forestry

RESULT INDICATORS

- ...
- **R.15 Renewable energy from agriculture, forestry and from other renewable sources:** Supported investments in renewable energy production capacity, including bio-based (in MW)
- **R.16 Investments related to climate:** Share of farms benefitting from CAP investment support contributing to climate change mitigation and adaptation, and to the production of **renewable energy** or **biomaterials**
- -----
- **R.39 Developing the rural economy:** number of rural businesses, including bio-economy businesses, developed with CAP support

Bioeconomy in CSPs

- Most CSPs identified a specific need to develop the bioeconomy.
- Investments, cooperation, knowledge exchange and environment and climate measures are used to support the bioeconomy in CSPs.

Investments

- Investments in the production of renewable energy (on-farm/off-farm).
- Investments in improving energy efficiency
- Investments in infrastructures and equipment that enhance the recovery of sludge, manure, and by-products
- Investments in small-scale infrastructure in rural areas
- Collective investments in e.g. biogas installations

Cooperation

- Cooperation costs to promote new forms of cooperation between different actors
- LEADER projects based on local development strategies
- European Innovation Partnership (EIP-AGRI)

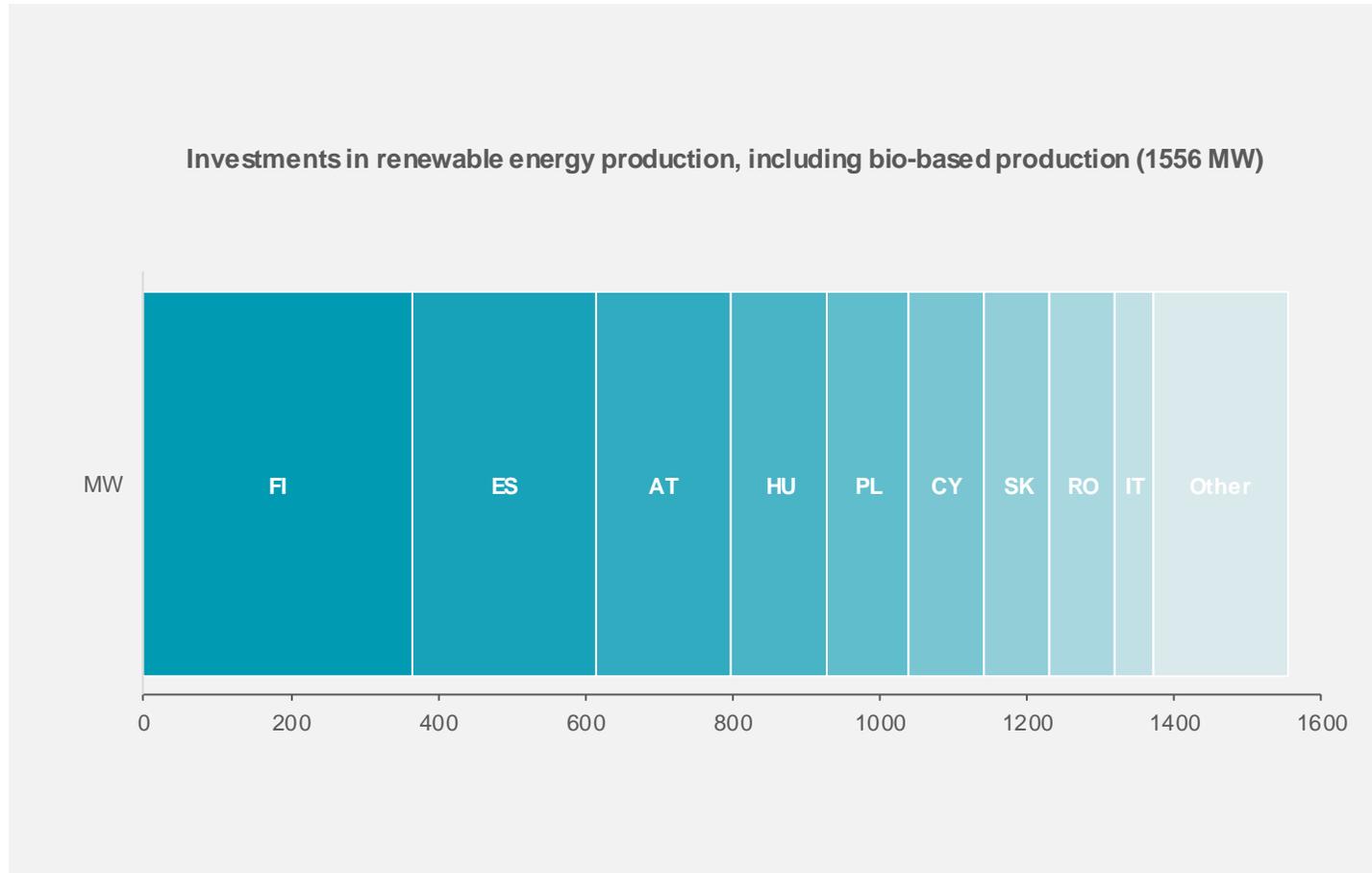
Area-based Environment and Climate interventions

- Ecoschemes
- Environment and climate commitments

Knowledge exchange and dissemination of information

- Trainings
- Advice
- Awareness

Renewable energy (including bio-based production) in CSPs



Thank you



© European Union 2020

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Slide xx: [element concerned](#), source: e.g. [Fotolia.com](#); Slide xx: [element concerned](#), source: e.g. [iStock.com](#)



Circular Bio-based Europe Joint Undertaking

Nicoló Giacomuzzi-Moore
Acting Executive Director, CBE JU

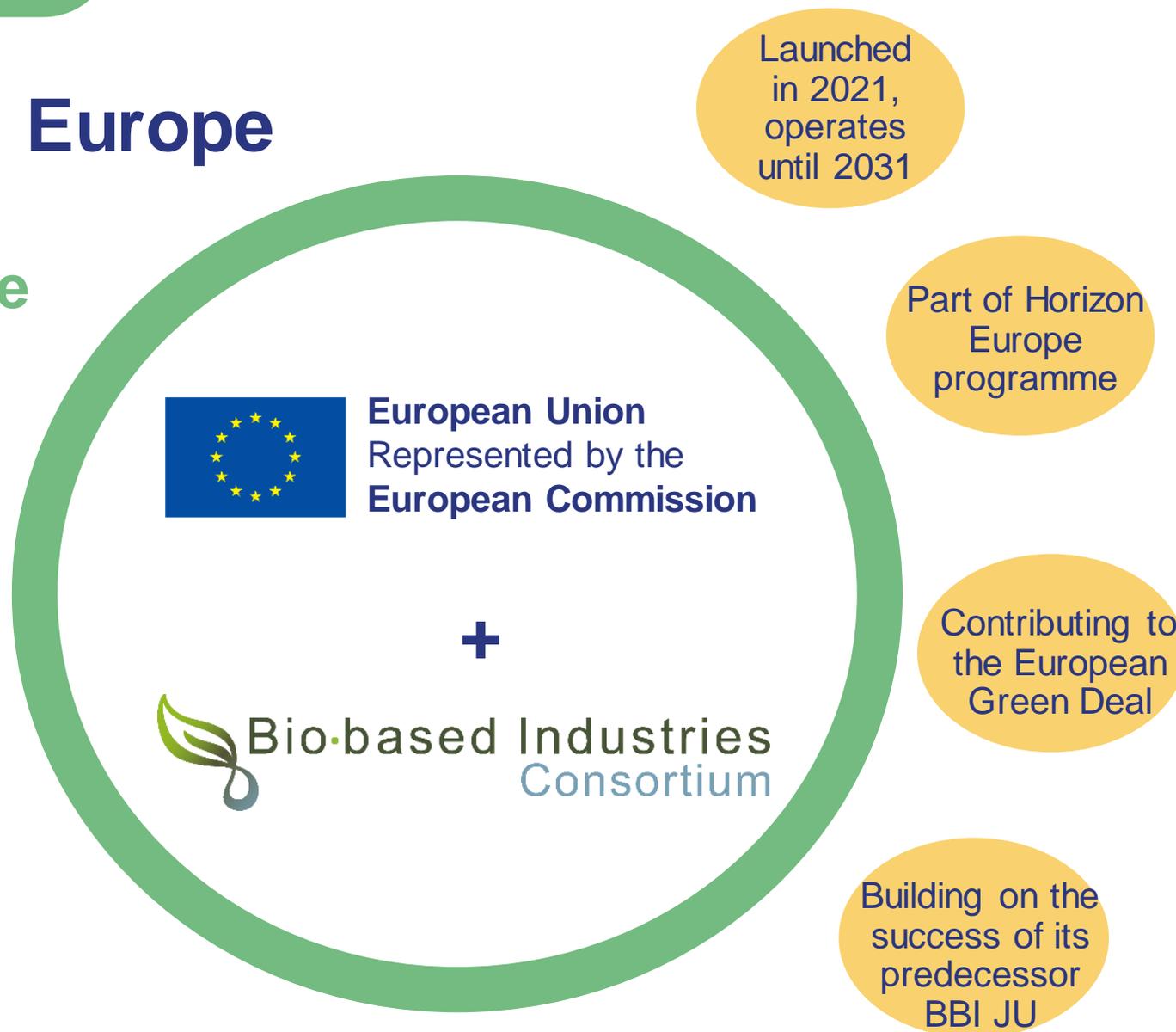
Circular Bio-based Europe JU: boosting competitiveness in regions

Nicoló Giacomuzzi-Moore
Acting Executive Director
Bruxelles, 14/11/2023

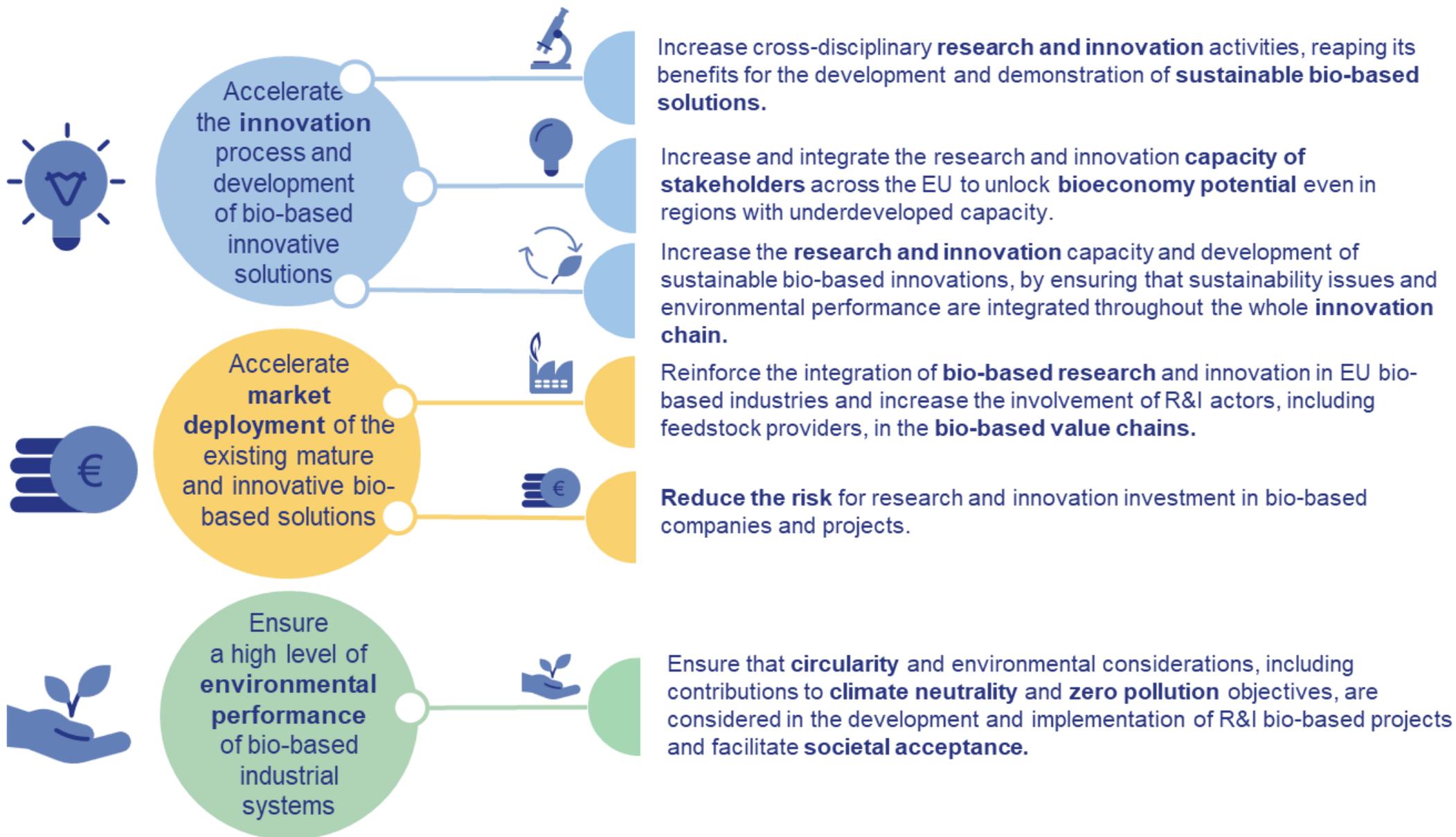


Circular Bio-based Europe Joint Undertaking

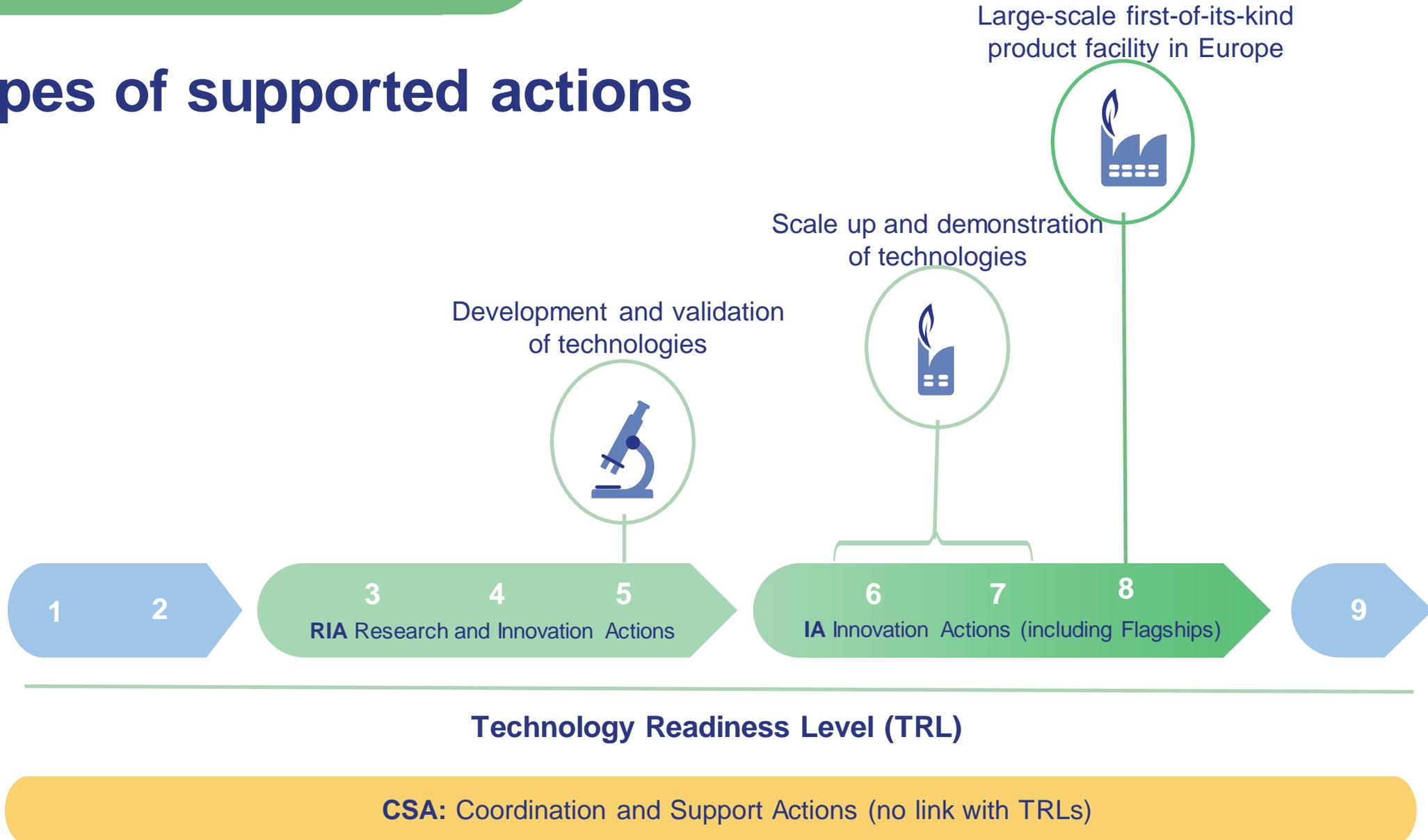
€2 billion public-private
initiative



General and Specific CBE JU Objectives



Types of supported actions



Building on the success of BBI JU

2014-2020



142
projects



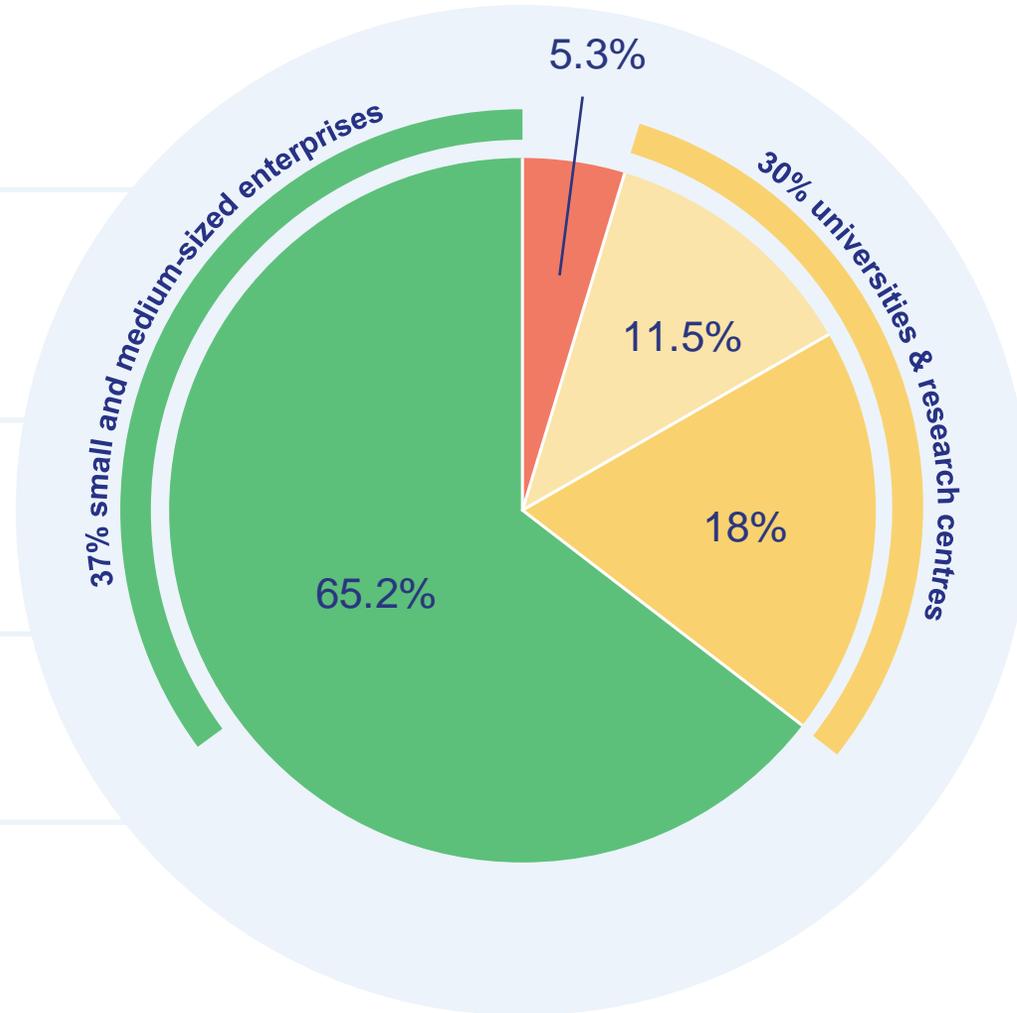
1,055
beneficiaries



€822 million BBI
JU funding



39
countries



BBI JU funding per type of beneficiary



Data: CORDA, June 2021

On the map

CBE JU is funding first-of-their-kind biorefineries and demonstration plants to help expand the European circular bio-based economy.

Select what you want to see:



Demonstration plant



Flagship biorefinery



CBE JU flagship projects

Feedstock & final product



 Flagship biorefinery  Call 2022

- 1 AgriChemWhey**
Dairy sidestreams
↳ Lactid adic, minerals for food and fertilisers
- 2 EXILVA**
Cellulose
↳ MFC - MicroFibrillated Cellulose
- 3 SWEETWOODS**
Lignin & hardwood residues
↳ High-quality C5/C6 sugars & dried lignin
- 4 VIOBOND**
Forest-based
↳ Bio-based resins
- 5 PLENITUDE**
Residues of cereal crops
↳ Mycoproteins
- 6 PEFerence**
Crop residues
↳ FDCA for bioplastics
- 7 FARMYNG**
Mealworms & agri-food sidestreams
↳ Proteins for animal feed & organic fertiliser
- 8 AFTERBIOCHEM**
Sidestreams from sugar beet
↳ Flavourings, fragrances, hygiene products, pharmaceuticals, antimicrobials & polymers
- 9 ReSolute**
Sidestreams from pulp & paper industry
↳ Biodegradable, harmless & bio-based solvent: Cyrene
- 10 SCALE**
Microalgae
↳ Nutritional ingredients for food, feed and cosmetics
- 11 CIRCULAR BIOCARBON**
Municipal solid waste
↳ High-value products from fertilisers to 5G technology
- 12 FIRST2RUN**
Underutilised oil crops
↳ Building blocks for polyester production & vegetable oils
- 13 LIGNOFLAG**
Crop residues
↳ 2G bioethanol biofuel - building block
- 14 SUSTAINEXT**
Crops & agro-industrial side-streams
↳ Ingredients for food, feed, cosmetics & fertilisers
- 15 SYLPLANT**
Agri-based & wood based
↳ Alternative protein sources for food & feed ingredients

13 Flagship projects:

Expected socio-economic impacts



Flagship
biorefinery



4,700

direct jobs



€5.2

private investment for

15,000

indirect jobs

€1

CBE JU grant-leverage
effect



€250

million CBE JU grant



800+

KT CO₂ emission
savings



€1.3

billion private
investment*



High

replicability potential

* Based on aggregated confidential data provided by the projects and subject to change until the Flagship plants are implemented



Circular
Bio-based
Europe
Joint Undertaking

CBE JU flagship projects

**PLENITUDE,
the Netherlands**



1

FARMYNG, France



7

CIRCULAR-BIOCARBON, Spain & Italy



14

11

2

EXILVA, Norway



3

4



SWEETWOODS, Estonia

5

AFTERBIOCHEM, France



6

8

9

LIGNOFLAG, Romania



13

FIRST2RUN, Italy



12

10

15

11

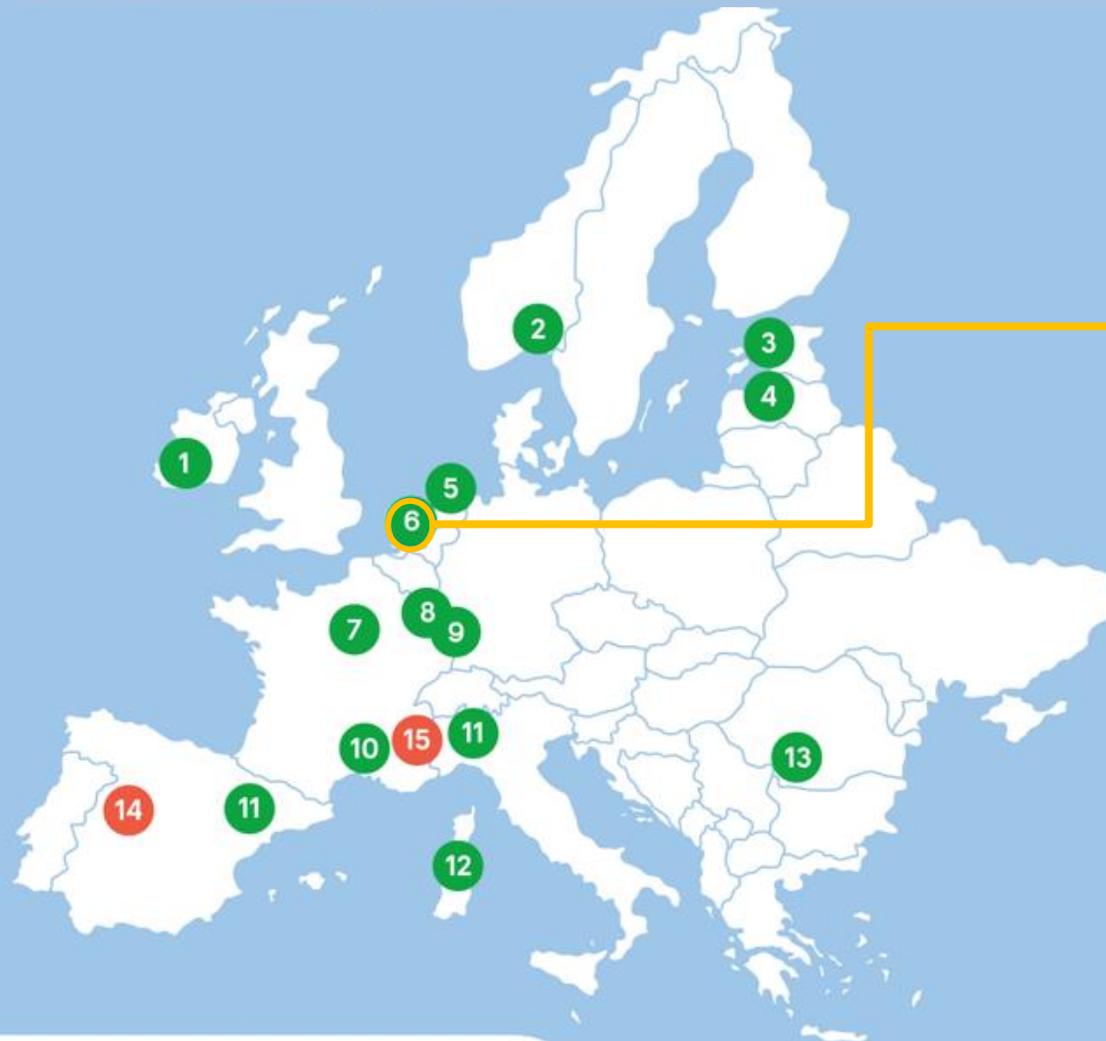
PLENITUDE

Sas van Gent, the Netherlands



CBE JU contribution: €16.94 million

Duration: October 2019 – March 2025



Objective: to create the first-of-its-kind, large-scale, lowest-cost, zero-waste biorefinery for the **production of (Mycoprotein) from low cost sustainable feedstocks.**

Feedstock: Agri-based (grains such as wheat)

Applications: Food (alternative proteins)

Webpage:
<https://www.plenitude-bbi.com/>

● Flagship biorefinery ● Call 2022

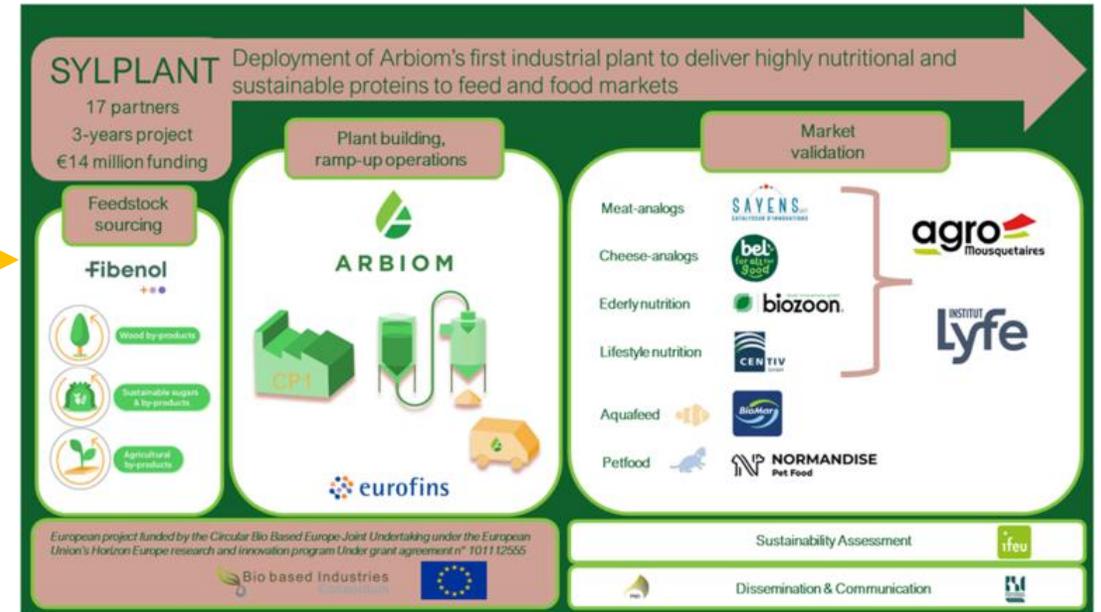
SYLPLANT

Roussillon, France



CBE JU contribution: €13,9 million

Duration: June 2023 – May 2026

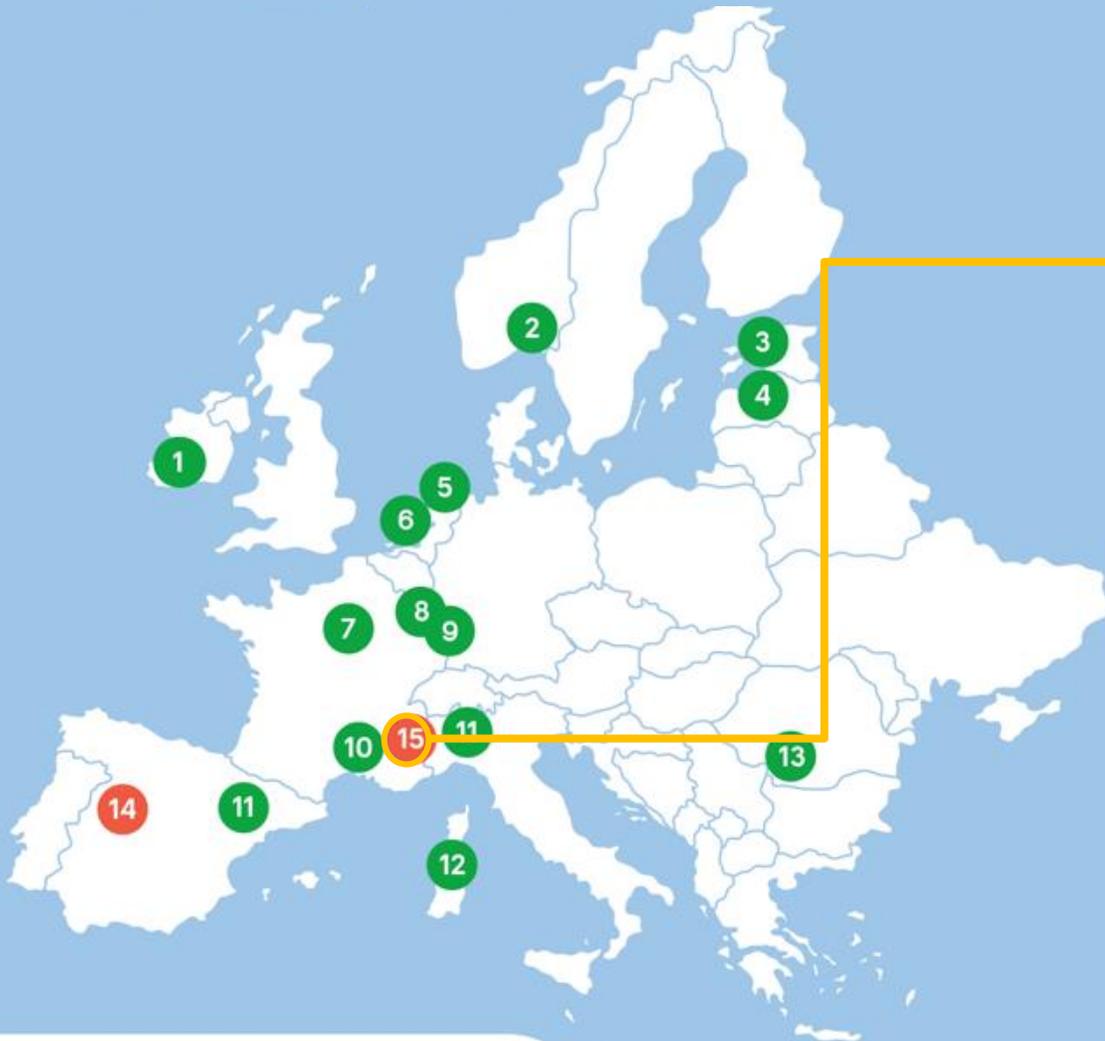


Objective: to deploy at industrial scale a technology which transforms underexploited feedstock, such as agricultural or forestry residues with yeast, in order to produce 10 000 tonnes of protein ingredients per year while minimising CO2 emissions.

Feedstock: Agri-food and Forest-based

Applications: Food & feed

Webpage: in progress



● Flagship biorefinery ● Call 2022



**Circular
Bio-based
Europe**
Joint Undertaking

Contact us

info@cbe.europa.eu
www.cbe.europa.eu

Follow us



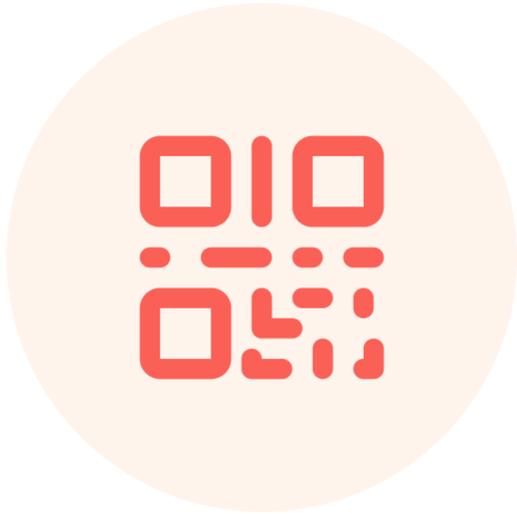
Subscribe



 Bio-based Industries
Consortium

 Co-funded by
the European Union

slido



**Join at slido.com
#Bioeconomy**

ⓘ Start presenting to display the joining instructions on this slide.

slido



Are you or your members working with bio-based materials?

ⓘ Start presenting to display the poll results on this slide.

slido



In one word, what is in your view the value of the bio-based economy?

ⓘ Start presenting to display the poll results on this slide.

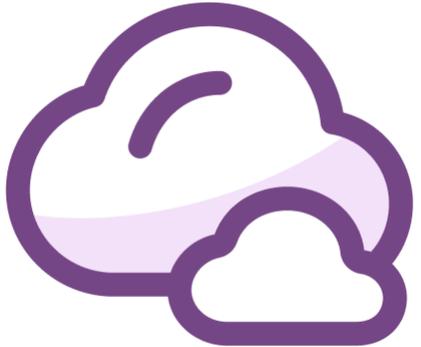
slido



What is the biggest challenge to use bio-based materials?

ⓘ Start presenting to display the poll results on this slide.

slido



Which aspects of sustainable food systems interest you the most?

ⓘ Start presenting to display the poll results on this slide.

Panel debate

Stephen Barry-Hannon, Senior Researcher & Project Manager, Circular Bioeconomy Cluster South-West

Susana Caio, Project Manager, InovCluster

Yuan Chai, International Affairs Officer, Wagralim

FUNDING OPPORTUNITIES

From silos to diversity – small-scale bio-based demonstration pilots

- Projects should, among others:
 - Develop **new business models** for the economic-viable valorisation of local underutilised feedstock, such as by-products, residues, and waste, from land and livestock.
 - Demonstrate **suitable processes and technologies** to produce high-value bio-based materials and products in rural conditions with an active role of primary producers (farmers and foresters) in the value chains.
 - Build-upon existing food, feed, or bioenergy value chains to further strengthen their economic and environmental sustainability through synergistic **interlinkages** and in line with the cascading principle.
 - Improve the knowledge on the quantitative and qualitative requirements, harvesting, logistics, pre-treatment (e.g. mechanical, thermal) and conversion of the feedstock.
- Deadlines: 22 February 2024; 17 September 2024
- HORIZON-IA HORIZON Innovation Actions
Topic ID: HORIZON-CL6-2024-CircBio-02-6-two-stage
- Published on [Funding & Tenders Portal](#)

Circular bioeconomy start-up villages

- Projects are expected to contribute to:
 - **Development and transfer** of the concept of sustainable circular bioeconomy solutions in start-up villages;
 - Showcased **novel governance and business models** for circular systemic bioeconomy solutions in start-up villages or their groupings;
 - Strengthened **position of bioeconomy start-ups** in rural innovation ecosystems for the development of new value-added products, technologies and approaches;
 - Enhanced **training** opportunities and knowledge exchange and cooperation among rural innovators;
 - Improved rural **innovation** ecosystems to build a sustainable bioeconomy within ecological boundaries based on local resources, in particular contributing to climate and biodiversity policies and targets.
- Deadline: 22 February 2024
- HORIZON-CSA HORIZON Coordination and Support Actions
Topic ID: HORIZON-CL6-2024-CircBio-01-9
- Published on [Funding & Tenders Portal](#)

Bioeconomy project development assistance

- Projects are expected to contribute to:
 - Increased **access to financial, legal and technical support** along all Technological Readiness Levels and whole supply chains for bioeconomy projects, leading to a higher number of successful bioeconomy flagship projects.
 - **Alignment of actors** (primary producers, citizens, innovators, educators, SMEs, industry, national authorities and other actors) and their goals in collaborative ventures on bioeconomy related projects.
 - **Promotion** and support of regional and national transitions from existing fossil-based socio-technical systems to bioeconomy-based systems promoting the valorisation of local biological resources and ecosystem services.
- Deadline: 22 February 2024
- HORIZON-CSA HORIZON Coordination and Support Actions
Topic ID: HORIZON-CL6-2024-CircBio-01-8
- Published on [Funding & Tenders Portal](#)

Opportunities for SMEs: Calls from Euroclusters

- AIBC: Open Call for **digitalisation services and product development** targeted at European SMEs from the **manufacturing, mobility, logistics and energy sectors**, working on the AI & BC technologies and/or interested in adopting AI & BC solutions; deadline 16 January 2024
- B-Resilient: Acceleration lump sums targets **food processing and producing** SMEs intending to optimise their use of biomass via digital and sustainable tool solutions; deadline 1 February 2024
- CirclnWater: Knowledge lump sum is willing to boost SMEs' development or growth by facilitating **access to external training or consultancy services**; meant for an individual SME that is offering **water-smart solutions**, especially for the agrifood & energy-intensive industries; deadline 2 October 2024
- E-Boost: Five calls to identify product innovations to reduce dependency on critical inputs and technologies in the E- BOOST value chains, to introduce new-to-firm products or services, and to engage actors from regions with different levels of economic development; targets are SMEs from the **mobility** ecosystem
- ELBE: Financial support for **training** on "Sustainability & Digitalization", "Sustainable Business, with focus on general ESG issues, UN Sustainability goals and a materiality analysis", "Factlines Platform for ESG reporting"; deadline 31 December 2023
- EPICENTRE: Support via mentoring, coaching and training for SMEs from **Digital and Fintech to Health and Agri-food** sectors; deadline 5 December 2023.
- FRIENDCCI: Call for **providers** offering solutions in **digitalisation, greening, and internationalisation** to collaborate with **Creative and Cultural** SMEs for the realization of funded projects; deadline 1 August 2025
- GEMSTONE: Financial support for **training** related to **Green Manufacturing**; deadline 31 December 2024

Opportunities for SMEs: Calls from Euroclusters

- INGENIOUS: **Internationalisation** grant for SMEs operating in **energy-intensive industries** to develop activities related to Africa, Asia, North America and Latin America; deadline 30 September 2024
- INGENIOUS: **Training** grants to help SMEs improve their digital skills, green transition, resilience preparedness and reskilling and upskilling of the workforce; deadline 14 February 2025
- METASTARS: Call for **innovation services** for green technology development, digitalisation, upskilling and reskilling, internationalisation, and information security systems for SMEs from the **aeronautics, space, defence and ICT sectors**; deadline 31 December 2023
- PIMAP4Sustainability: Support for **upskilling and reskilling** projects for photonics, advanced materials, advanced manufacturing, aerospace, metalworking and industrial production SMEs; deadline 31 December 2023, 29 February 2024, 30 April 2024
- RESIST: 2nd **Innovation** Open Call for improved technologies and processes in production in the **Automotive – Mobility – Transport** ecosystem; deadline 12 December 2024
- RESIST: **Networking and marketing** FSTP for SMEs from the **Automotive – Mobility – Transport** ecosystem; deadline 20 December 2024
- RESIST: **Internationalisation** FSTP for activities in target markets; deadline 20 December 2024
- RESIST: **Coaching and mentoring** for assessment and feasibility services; deadline 1 November 2024
- **All calls here:** <https://clustercollaboration.eu/open-calls>

Register for the next Talks

22 November

Generative AI: Potential and challenges for business application

29 November

Green Transition Support: Energy and resource efficiency in EU businesses

6 December

STEP: Strategic Technologies for Europe Platform

13 December

ECCP Activities: Wrap-Up and Outlook

Visit the ECCP website and follow us on social media



www.clustercollaboration.eu



@Clusters_EU



European Cluster Collaboration Platform

#EUClustersTalks

#ECCP

EU CLUSTERS

THANK YOU

