

A competitive bioeconomy for a sustainable future

Nicoló Giacomuzzi-Moore Executive Director a. i. The Hague, 10 May 2023





Circular Bio-based Europe Joint Undertaking

€2 billion public-private initiative

Launched in 2021, operates until 2031

European Union
Represented by the
European Commission

Part of Horizon Europe programme



Bio-based Industries Consortium Contributing to the European Green Deal

Building on the success of its predecessor BBI JU CBE JU and its Objectives

General and Specific CBE JU Objectives

Accelerate the innovation process and development of bio-based innovative solutions





Increase cross-disciplinary research and innovation activities, reaping its benefits for the development and demonstration of sustainable bio-based solutions.

Increase and integrate the research and innovation capacity of stakeholders across the EU to unlock bioeconomy potential even in regions with underdeveloped capacity.

Increase the research and innovation capacity and development of sustainable bio-based innovations, by ensuring that sustainability issues and environmental performance are integrated throughout the whole **innovation** chain.

Reinforce the integration of bio-based research and innovation in EU bio-based industries and increase the involvement of R&I actors, including feedstock providers, in the bio-based value chains.

Reduce the risk for research and innovation investment in bio-based companies and projects.



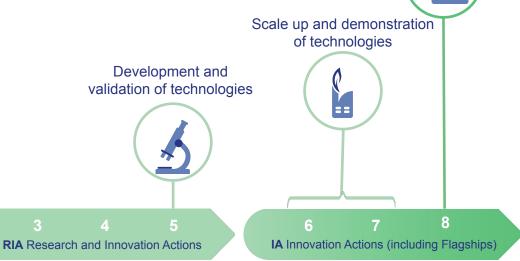
Ensure a high level of environmental performance of bio-based industrial systems



Ensure that circularity and environmental considerations, including contributions to climate neutrality and zero pollution objectives, are considered in the development and implementation of R&I bio-based projects and facilitate societal acceptance.

Types of supported actions

Large-scale first-of-its-kind product facility in Europe

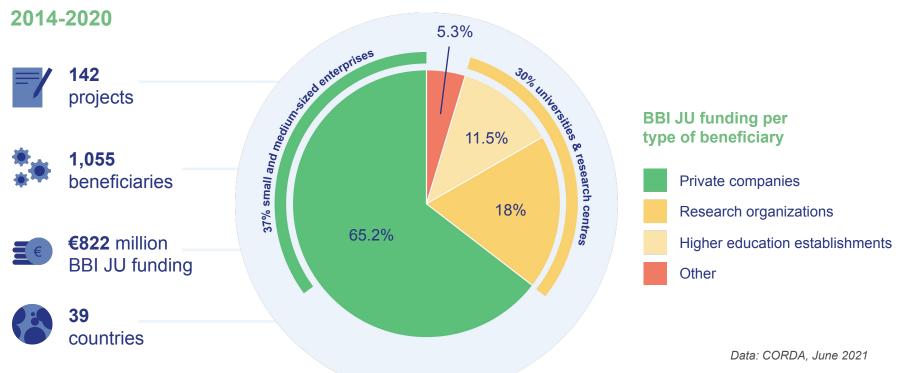


Technology Readiness Level (TRL)

CSA: Coordination and Support Actions (no link with TRLs)



Building on the success of BBI JU



CBE JU flagship projects









2 Sarpsborg Norway



3 Imavere Estonia



Riga Latvia





Sas van Gent The Netherlands



Delfzijl The Netherlands



7 Amiens France



Saint-Avold France



te 9 Saint-Avold



Baillargues
France



Zaragoza &
Sesto
San Giovanni
Spain & Italy



Porto Torres



Podari Romania



13 Flagship projects:

Expected socio-economic impacts

biorefinery





4,700 direct jobs

15,000 indirect jobs



€5.2 private investment for

€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



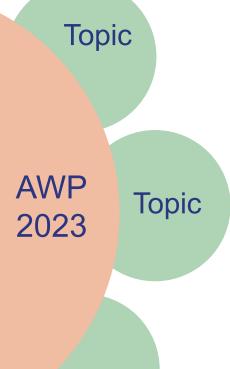
CBE call 2023

Type of action		Topics HORIZON-JU-CBE-2023	Million EUR
IA- flagship	IAFlag-01	Optimised and integrated wood-based value chains	17
	IAFlag-02	Expansion and/or retro-fitting of biorefineries towards higher-value bio-based chemicals and intermediates	17
	IAFlag-03	Bio-based packaging materials with improved properties: barrier, food contact, forming, printability, safety, recyclability /circularity-by-design	17
	IAFlag-04	Valorisation of aquatic biomass waste and residues	10
IA	IA-01	Small scale biorefining in rural areas	15
	IA-02	Production of safe, sustainable, and efficient bio-based fertilisers to improve soil health and quality	15
	IA-03	Improve fermentation processes (including downstream purification) to final bio-based products	15
	IA-04	Recycling bio-based plastics increasing sorting and recycled content (upcycling).	15
	IA-05	Development of scalable, safe bio-based surfactants, with an improved sustainability profile	15
	IA-06	Selective, sustainable production routes towards bio-based alternatives to fossil-based chemical building blocks	15
	IA-07	High performance, circular-by design, bio-based composites	15
RIA	R-01	Phyto-management; curing soil with industrial crops, utilising contaminated and saline land for industrial crop production	10
	R-02	Optimised forest-based value chains for high value applications and improved forest management	10
	R-03	Robust and optimised industrial biotech and chemical/industrial biotech processes	10
	R-04	Development of novel, high-performance bio-based polymers and co-polymers	10
	R-05	Pre-normative research to develop standards for biodegradability of bio-based products in controlled and in open	5
	K-05	environments	3
CSA	S-01	EU-wide network of pilot plants and testing facilities, improving SMEs and start-ups' access to scale-up	1.5
	S-02	Supporting the capacity of regions in environmental sustainability assessment for the bio-based sectors	3

Total 215.5



Call topic structure

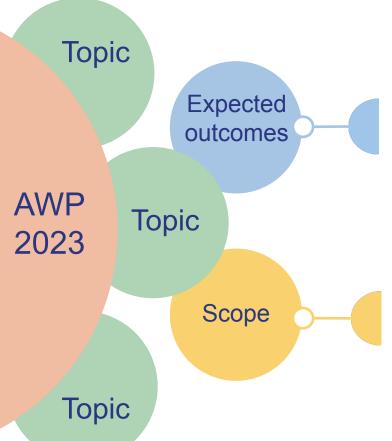


Topic

HORIZON-JU-CBE-2023-XX-NN Topic title

Type of action	Research and Innovation Action
Indicative budget	The total indicative budget for the topic is EUR 10 million
Expected EU contribution per project	It is estimated that a contribution of EUR 5 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts
TRL	TRL 4-5 at the end of the project
Link to CBE JU Specific Objectives	1.1: Increase the intensity of cross-disciplinary research and innovation activities
Link to CBE JU SRIA Strategic Priorities	1.1.2: Develop innovative production systems in the bio-based industry 1.1.3: Develop innovative bio-based products
CBE JU KPIs	4.5 Number of products with improved life cycle environmental performance 5.1 Number of innovative products that are biodegradable, compostable, recyclable, reused or upcycled (circular-by-design) 5.2 Number of projects developing circular production practices (incl. industrial & industrial urban symbiosis) 6 Increase innovative bio-based outputs and products

Call topic structure



The 'change' to be achieved

- Provides a broad description of what is the impact to be achieved by the project
- The dissemination and exploitation of future research results are vital for the impact`

The 'problem'

- Identifies the aspects of the challenge that needs to be tackled
- Specifies a perimeter to the problem described
- Does not specify the expected solutions to the problem, nor the approach to be taken



More information



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