



**Circular
Bio-based
Europe**
Joint Undertaking

Priorities of the CBE JU Call 2023

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Head of Programme
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CBE JU Call 2023: topics list

No competition between topics !

Type of actions	Topics: HORIZON-JU-CBE-2023	Million EUR
IAS-Flagships	IAFlag-01 Optimised and integrated woody-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
IAs	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 environments	5
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

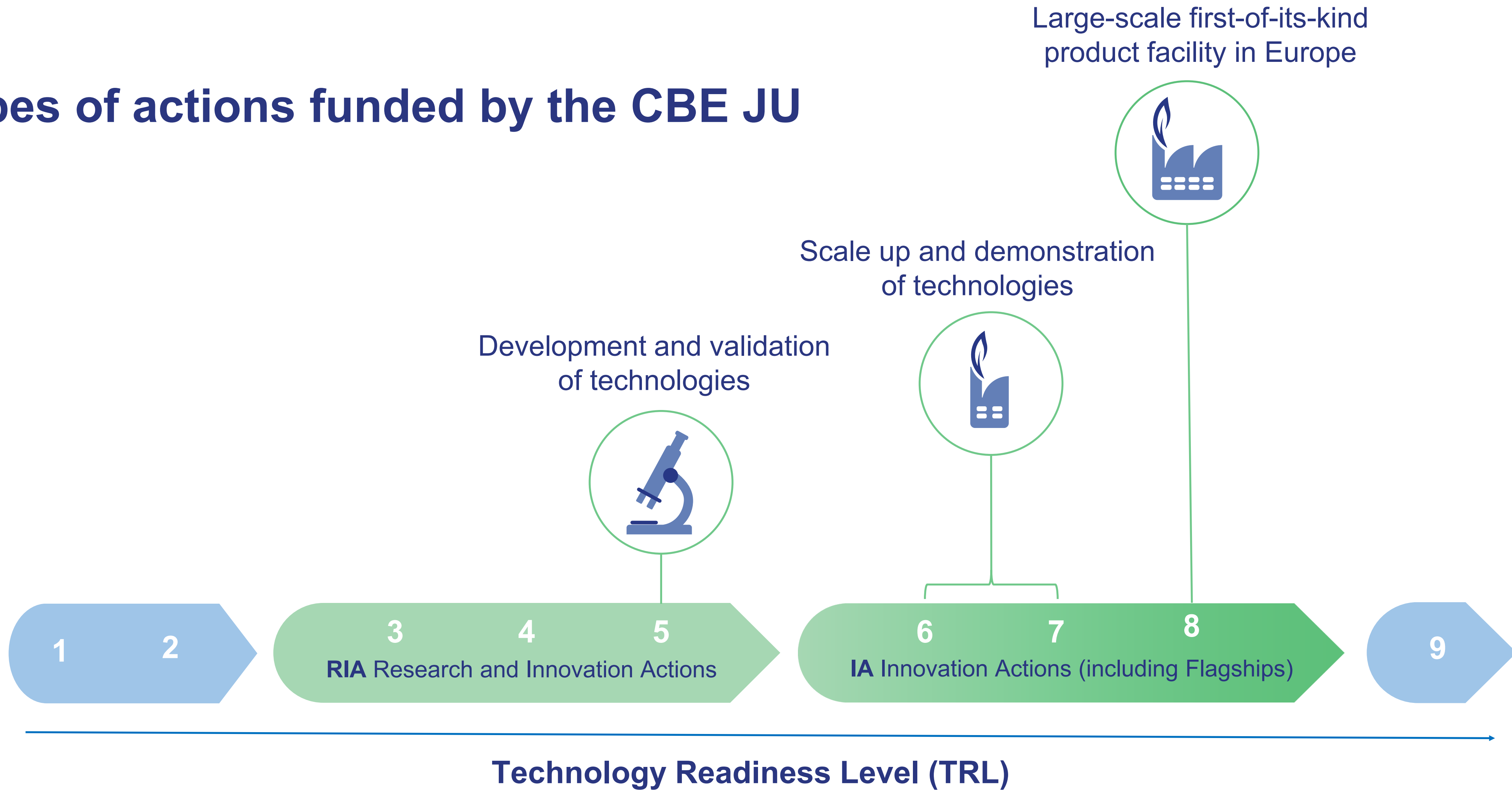
Type of actions and TRL

Type of Action	Innovation Actions, including Flagship Research and Innovation Actions Coordination and Support Actions
Indicative budget	The total indicative budget for the topic is EUR XX million
Expected EU contribution per project	It is estimated that a contribution of EUR XX 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 XX at the end of the project.
Link to CBE JU Specific Objectives	This topic contributes to the CBE JU specific objective XX
Link to CBE JU SRIA2030	Strategic priority XX
CBE JU KPIs	Please refer to the KPIs table 3

Expected outcomes

Scope

Types of actions funded by the CBE JU



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

More than one project expected for most of the RIA/IAs topics !

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Expected outcomes

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Specific Objectives and Strategic priorities

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Expected outcomes

Scope

CBE JU General and Specific Objectives



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



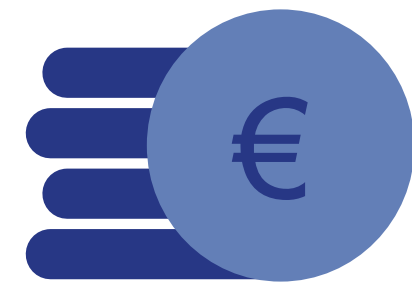
1.1. Increase cross-disciplinary **research and innovation** activities, reaping its benefits for the development and demonstration of **sustainable bio-based solutions**.



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



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



Accelerate **market deployment** of the existing mature and innovative bio-based solutions



2.1. 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**.



2.2. **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

3.1. 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**.

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Expected outcomes

Scope

Expected Contribution to CBE KPIs

CBE KPIs: Objectives and Units of measurement		CBE JU AWP 2023 topics																	
		2023.IA-Flag01	2023.IAFlag-02	2023.IA-Flag03	2022.IAFlag-04	2023.IA-01	2023.IA-02	2023.IA-03	2023.IA-04	2023.IA-05	2023.IA-06	2023.IA-07	2023.R-01	2023.R-02	2023.R-03	2023.R-04	2023.R-05	2023.S-01	2023.S-01
1	Strategic participation and integration of feedstock producers and suppliers towards large-scale valorisation of sustainable biomass																		
1.1	N of primary producers, involved as project beneficiaries and/or engaged in value chains at project level				x	x							x	x					
1.2	N of bio- waste management actors, involved as project beneficiaries and/or engaged in value chains at project level					x	x			x									
2	Unlock sustainable and circular bio-based feedstock for the industry																		
2	N of innovative bio-based value chains created or enabled based on sustainably-sourced biomass				x	x	x	x		x	x		x	x					
3	Ensure environmental sustainability of feedstock																		
3.1	N of projects using feedstock generated with practices that contribute to enhance biodiversity							x			x	x	x		x				
3.2	N of projects using feedstock generated with practices aiming at zero-pollution (soil, water, air) and/or at reducing water consumption							x			x	x	x	x	x				
3.3	N of projects using feedstock generated with practices contributing to climate change mitigation and/or adaptation	x						x			x	x	x		x				
4	Improve environmental sustainability of bio-based production processes and value chains																		
4.1	N of projects with innovative & sustainable processes that contribute to GHG emission reduction					x			x			x					x		
4.2	N of projects developing innovative & sustainable processes that improve on resource efficiency and zero-waste	x	x		x	x			x	x		x					x		
4.3	N of projects developing innovative & sustainable processes enabling to address zero pollution				x	x	x	x			x	x					x		
4.4	N of projects with innovative & sustainable processes with improved energy efficiency	x	x			x			x			x					x		
4.5	N of products with improved life cycle environmental performance			x		x			x	x	x	x	x				x	x	
5	Expand circularity in bio-based value chains																		
5.1	N of innovative products that are biodegradable, compostable, recyclable, reused or upcycled (circular by design)			x						x			x				x	x	
5.2	N projects developing circular production practises (incl. industrial & industrial urban symbiosis)	x	x	x	x					x					x	x	x	x	
6	Increase innovative bio-based outputs and products																		
6.1	N of innovative bio-based dedicated outputs, with novel or significantly improved properties vs relevant alternatives									x		x		x			x	x	
6.2	N of innovative bio-based drop in outputs meeting applications requirements									x		x		x			x	x	
7	Improve the market uptake of bio-based products																		
7	N of brand owners involved as project partners and/or engaged with other mechanisms			x								x		x					x
8	Attract investment on the bio-based sector																		
8	N of actions implemented at project level to attract investment and/or to create awareness in the investment/funding community																		
9	Increase resilience and capacity in the bio-based sector																		
9	N of projects contributing to develop the skills and capacity needed by the EU bio-based sector																		x
10	Improve participation of regions and countries with high unexploited potential and strategic interest to develop it																		
10.1	N of participants from the underrepresented EU countries and region		x		x	x													x
10.2	N of regional hubs established and operated to process bio-based feedstocks and other cooperation aspects		x			x													
10.3	N of projects with synergies with other funding programmes at EU, national or regional level												x						x

Topic structure

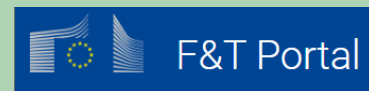
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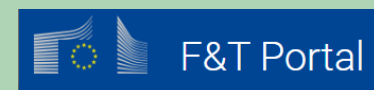
Call topics

Topic



Expected
outcomes

Topic

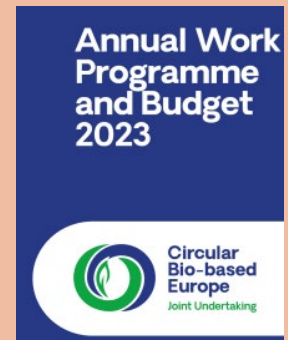


Scope

Topic



AWP
2023



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 project 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.



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