



**Circular
Bio-based
Europe**
Joint Undertaking

CBE JU Call 2022 topics and priorities

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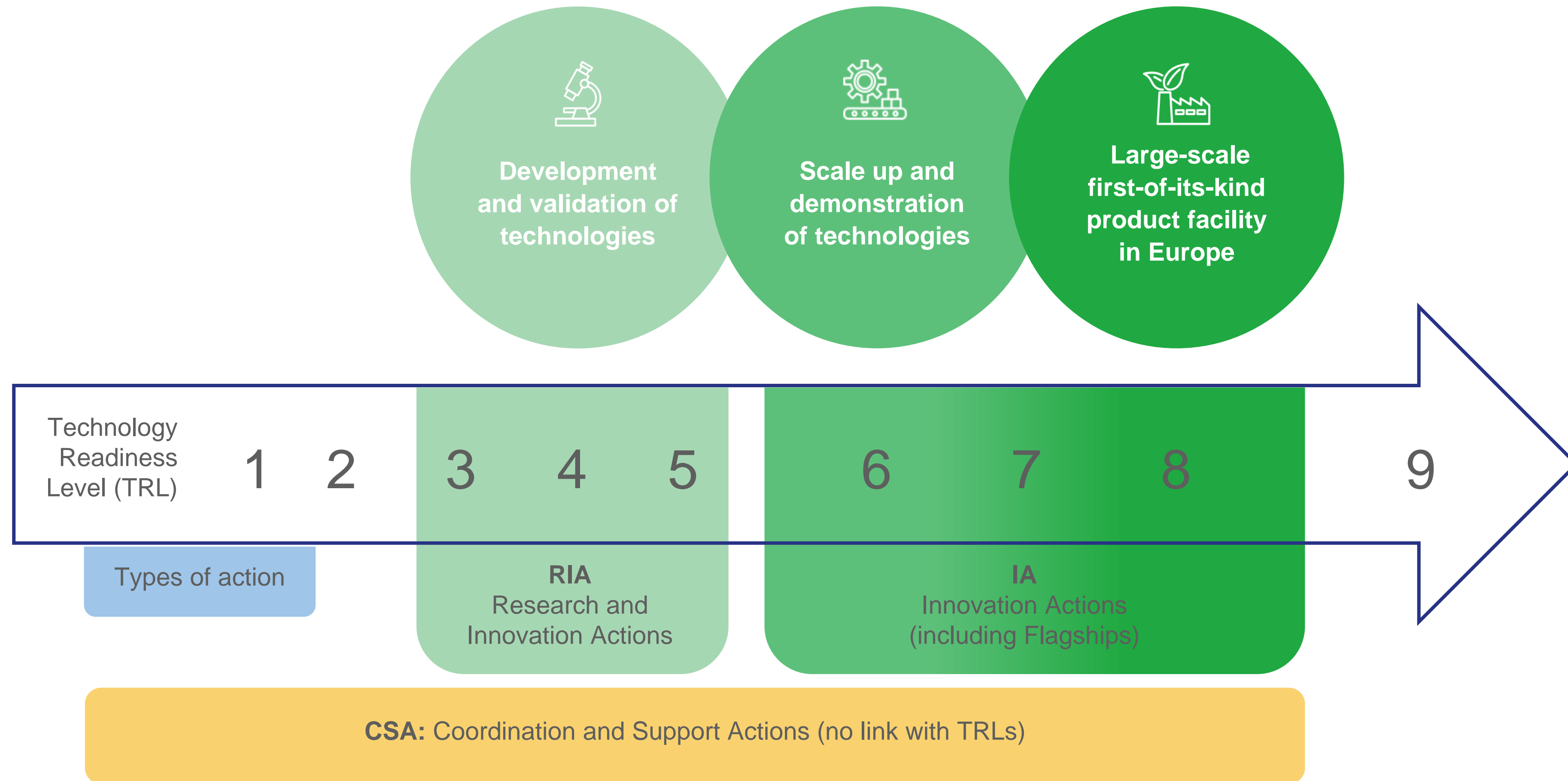
CBE JU AWP2022:

Topic structure: Type of
actions and budget

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

Expected outcomes

Scope



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Expected outcomes

Scope

No competition between topics !

Topic		Indicative budget (million EUR)
Innovation actions		
HORIZON-JU-CBE-2022-IA-01	Biogenic carbon capture and use (CCU) for circular bio-based products	10
HORIZON-JU-CBE-2022-IA-02	Cooperative business models for sustainable mobilisation and valorisation of agricultural residues, by-products, and waste in rural areas	10
HORIZON-JU-CBE-2022-IA-03	Cost-effective production routes towards bio-based alternatives to fossil-based chemical building blocks	12
HORIZON-JU-CBE-2022-IA-04	Co-processing of mixed bio-based waste streams	12
Innovation actions – flagship		
HORIZON-JU-CBE-2022-IAFlag-01	Maximum valorisation of sustainably sourced bio-based feedstock in multi-product, zero-waste, zero-pollution biorefinery	
HORIZON-JU-CBE-2022-IAFlag-02	Alternative sources for high added value food and/or feed ingredients	14
Research and innovation actions		
HORIZON-JU-CBE-2022-R-01	High performance bio-based polymers for market applications with stringent requirements	9
HORIZON-JU-CBE-2022-R-02	Bio-based coatings, barriers, binders, and adhesives	9
HORIZON-JU-CBE-2022-R-03	Circular-by-design bio-based materials to improve the circularity of complex structures	9
HORIZON-JU-CBE-2022-R-04	Proteins from alternative and unconventional sources	9
HORIZON-JU-CBE-2022-R-05	Sustainable fibres biorefineries feedstock	9
Coordination and support actions		
HORIZON-JU-CBE-2022-S-01	Developing and validating monitoring systems of environmental sustainability and circularity: collection of best practices and benchmarks	3
Total		120

Possible more than one project founded for RIA/IAs topics

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Expected outcomes

Scope

CBE JU AWP2022:

Links with the CBE JU
objectives and its SRIA

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Expected outcomes

Scope

General objectives

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

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

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

Specific objectives

1.1. Increase the intensity of cross-disciplinary research and innovation activities to reap the benefits of the advancement in life sciences and in other scientific disciplines for the development and demonstration of sustainable bio-based solutions

1.2. Increase and integrate the research and innovation capacity of stakeholders across the Union to exploit the local bioeconomy potential including in regions with underdeveloped capacity

1.3. Increase the research and innovation capacity for addressing environmental challenges and development of more sustainable bio-based innovations by ensuring that sustainability issues and environmental performance are integrated throughout the whole innovation chain and in future innovative solutions

2.1. Reinforce the integration of bio-based research and innovation in the Union bio-based industry 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

3.1. Ensure that circularity and environmental considerations, including contributions to climate neutrality and zero pollution objectives, are taken into account in the development and implementation of research and innovation bio-based projects and facilitate societal acceptance.

FEEDSTOCK	Strategic priority 1.1.1 - Ensure the availability and quality of sustainable bio-based feedstock	
	Strategic priority 1.3.1 - Protect and enhance biodiversity and ecosystem services in bio-based feedstock supply systems	
	Strategic priority 2.1.1 - Demonstrate the sustainable supply of bio-based feedstock	
PROCESSING	Strategic priority 1.1.2 - Develop innovative production systems in the bio-based industry	
	Strategic priority 1.3.2 - Improve environmental performances of bio-based processes	
	Strategic priority 2.1.2 - Deploy innovative production technologies	
PRODUCTS	Strategic priority 1.1.3 - Develop innovative bio-based products	
	Strategic priority 2.1.3 – Scale-up production and market uptake of innovative bio-based products	
CROSS-CUTTING	Strategic priority 1.2.1 - Stimulate research activities in countries and regions with underdeveloped R&I capacity for bio-based systems	
	Strategic priority 1.2.2 – Increase the awareness and capacity of national and regional research support agencies for industrial bio-based systems	
	Strategic priority 1.2.3 - Facilitate the development of expertise in bio-based fields by improving higher education and skills development in the private sector	
	Strategic priority 2.1.4 - Build policy makers' awareness and acceptance of bio-based solutions	
	Strategic priority 3.1.3 – Facilitate social acceptance of bio-based applications	
	Finance	Strategic priority 2.2.1 – Improve the risk profile of bio-based projects
		Strategic priority 2.2.2 - Develop investment tools and approaches that mitigate the investment risk in bio-based systems
	Environmental sustainability framework	Strategic priority 3.1.1 - Set effective and robust environmental sustainability and circularity criteria for bio-based systems
		Strategic priority 3.1.2 - Incorporate the environmental sustainability and circularity criteria in bio-based systems

		CBE JU TOPICS												
		2022.IA-01	2022.IA-02	2022.IA-03	2022.IA-04	2022.IA-Flag01	2022.IAFlag-02	2022.R-01	2022.R-02	2022.R-03	2022.R-04	2022.R-05	2022.S-01	
FEEDSTOCK	Strategic priority 1.1.1 - Ensure the availability and quality of sustainable bio-based feedstock										X	X		
	Strategic priority 1.3.1 - Protect and enhance biodiversity and ecosystem services in bio-based feedstock supply systems										X	X		
	Strategic priority 2.1.1 - Demonstrate the sustainable supply of bio-based feedstock		X											
PROCESSING	Strategic priority 1.1.2 - Develop innovative production systems in the bio-based industry								X	X				
	Strategic priority 2.1.2 - Deploy innovative production technologies	X		X	X	X								
PRODUCTS	Strategic priority 1.1.3 - Develop innovative bio-based products							X	X	X				
	Strategic priority 2.1.3 – Scale-up production and market uptake of innovative bio-based products	X		X	X		X							
CROSS-CUTTING	Communication	Strategic priority 2.1.4 - Build policy makers' awareness and acceptance of bio-based solutions					X							
		Strategic priority 3.1.3 – Facilitate social acceptance of bio-based applications					X							
	Environmental sustainability framework	Strategic priority 3.1.1 - Set effective and robust environmental sustainability and circularity criteria for bio-based systems	X	X	X	X	X	X						X
		Strategic priority 3.1.2 - Incorporate the environmental sustainability and circularity criteria in bio-based systems	X		X	X	X		X	X	X	X	X	

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Expected outcomes

Scope

Proposals selected in each topic are expected to contribute to a specific set of CBE KPIs

CBE KPIs: Objectives and Units of measurement		CBE JU TOPICs											
		2022.IA-01	2022.IA-02	2022.IA-03	2022.IA-04	2022.IA-Flag01	2022.IAFlag-02	2022.R-01	2022.R-02	2022.R-03	2022.R-04	2022.R-05	2022.S-01
1	Strategic participation and integration of feedstock producers and suppliers towards large-scale valorisation of sustainable biomass		X				X				X	X	
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								
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	
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		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			
4.3	N of projects developing innovative & sustainable processes enabling to address zero pollution			X		X	X			X			
4.4	N of projects with innovative & sustainable processes with improved energy efficiency			X		X	X		X	X			
4.5	N of products with improved life cycle environmental performance			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			
5.2	N projects developing circular production practises (incl. industrial & industrial urban symbiosis)	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	X	
6.2	N of innovative bio-based drop in outputs meeting applications requirements			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		X										
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												
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	
10.2	N of regional hubs established and operated to process bio-based feedstocks and other cooperation aspects						X						
10.3	N of projects with synergies with other funding programmes at EU, national or regional level		X				X						

CBE JU AWP2022:

Topics' scope and
expected outcomes

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Expected outcomes

Scope

Type of Action: IA	Topic Budget: 10 Me
end TRL: 6	EU contribution per project: 5Me

HORIZON-JU-CBE-2022-IA-01: Biogenic carbon capture and use (CCU) for circular bio-based products

Scope

Develop new or improve existing technological solutions for carbon capture and use (CCU) and the production of sustainable renewable-carbon-based products.

Expected outcomes

- Higher carbon removal potential of bio-based systems
- Improved environmental performances of bio-based processes
- Public awareness and acceptance of bio-based solutions
- Support market uptake growth and acceptance of scalable bio-based solutions

Other elements: Multi-actor approach

Type of Action: IA	Topic Budget: 10 Me
end TRL: 7	EU contribution per project: 5Me

HORIZON-JU-CBE-2022-IA-02: Cooperative business models for the sustainable mobilisation and valorisation of agricultural residues, by-products, and waste in rural areas

Scope

Develop and demonstrate cooperative business models among primary producers for the efficient conversion of agricultural residues, by-products, and waste into high-value bio-based materials and products with improved sustainability characteristics.

Expected outcomes

- Vertical integration of primary producers in bio-based systems and improved cooperation between regional stakeholders in rural areas
- Deployment of replicable, regional, circular bio-based business models through organisational innovation
- Mobilisation and circular use of secondary biological resources and new valorisation pathways for high added-value applications
- Support the establishment of cooperatively owned biorefineries

Other elements: Multi-actor approach

Type of Action: IA	Topic Budget: 12 Me
end TRL: 6-7	EU contribution per project: 6Me

HORIZON-JU-CBE-2022-IA-03: Cost-effective production routes* towards bio-based alternatives to fossil-based chemical building blocks

**The topic does not address bio-based chemicals that already have a large-scale, industrial production capacity in Europe*

Scope

Accelerate the development of the chemicals portfolio by developing novel or improved bio-based platform chemicals derived from sustainably sourced feedstock and improve the environmental sustainability performance of industrial chemical processes by accelerating the fossil-based feedstock substitution and the reduction of GHGs

Expected outcomes

- Enhance the strategic autonomy and lower the dependence at EU level
- Resource- and energy-efficient cascading use of sustainably sourced biomass
- Diversification on the range of EU-produced chemicals, increasing the bio-based chemicals portfolio
- Higher sustainability and cost-competitiveness of the European chemical industry, addressing the competitiveness gap between well-established fossil-based routes and the novel bio-based routes.
- Reduction of direct emissions (scope 1 and 2) and indirect emissions (scope 3) against available benchmarks

Other elements: Multi-actor approach

Type of Action: IA	Topic Budget: 12 Me
end TRL: 6-7	EU contribution per project: 6Me

HORIZON-JU-CBE-2022-IA-04: Co-processing of mixed* bio-based waste streams

*Homogeneous side streams from primary production, mixed municipal solid waste and conversion of contaminated biomass are excluded

Scope

Develop (or even demonstrate) innovative technologies for recycling and upcycling of secondary bio-based feedstock, residues, and bio-based products' waste, including sorting, separation, pre-treatment and upgrading technologies in an integrated processing plant while implementing symbiotic processes across different industrial operations.

Expected outcomes

To contribute to reaching the European targets on bio-waste and the efficient use of resources by

- Increasing processing shares of bio-waste, and waste from bio-based products and processes, as well as their higher priority uses in the waste hierarchy
- Expanding opportunities for the valorisation of bio-waste in all stages and across all sectors – from bio-based industries to municipal bio-waste

Other elements: Multi-actor approach

Type of Action: IA-Flag	Topic Budget: 14 Me
end TRL: 8	EU contribution per project: 14 Me

HORIZON-JU-CBE-2022-IAFlag-01: Maximum valorisation of sustainably sourced bio-based feedstock in multi-product, zero-waste, zero-pollution biorefinery*

**Proposals should target relevant input bio-based feedstock (i.e., widely available in Europe) to ensure replicability of the biorefinery concept.*

Scope

Set-up and demonstrate a new biorefinery concept extracting maximum value from (all components of) the sustainably sourced bio-based feedstock to produce a variety of materials/products in the scope of CBE while minimising the required input (feedstock, energy, other chemicals, other process materials).

Expected outcomes

Large-scale deployment of industrial bio-based systems with improved environmental performances, maximum resource- and energy-efficiency, and optimal cascading use of bio-based feedstock, aiming for ‘zero waste’ and ‘zero-pollution’ operations with

- Revitalised communities of the bioeconomy by creating new green jobs and investments
- Deployed industrial symbiosis
- Integrated pollution prevention and control in bio-based systems of air, water, soil and noise levels.

Other elements: Multi-actor approach

Type of Action: IA-Flag	Topic Budget: 14 Me
end TRL: 8	EU contribution per project: 14 Me

HORIZON-JU-CBE-2022-IAFlag-02: Alternative sources for high added value food and/or feed ingredients

Scope

Deploy the production of improved nutritious, healthy, and environmentally sustainable food and feed ingredients from alternative, non-animal sources, demonstrating their clear-cut environmental sustainability gains and reduced environmental footprint, compared to existing alternatives.

Expected outcomes

Large-scale production of high value sustainable food and/ or feed ingredients from alternative and sustainable non-animal sources, not impacting or regenerating biodiversity and local ecosystems; in particular:

- Availability of premium (nutritious, healthy, environmentally sustainable) *food* ingredients meeting consumers' expectations, including on economic level
- Availability of added value sustainable *feed* ingredients, ensuring nutritional quality, health and safety profile
- Rebalancing ratio between animal and plant-based proteins in human consumption and contributing to sustainable food supply for a growing population

Other elements: Multi-actor approach

Type of Action: RIA	Topic Budget: 9 Me
end TRL: 5	EU contribution per project: 4.5 Me

HORIZON-JU-CBE-2022-R-01: High performance bio-based polymers for market applications with stringent requirements*

**The focus is on applications characterized by stringent operating conditions where the ‘bulk properties’ of the developed solutions are prominent.*

Scope

Develop bio-based polymers with tailored functional properties for a pre-defined range of applications for market requirements under stringent conditions. The bio-based polymers should be circular-by-design, allowing for their reuse and recycling, including composting in case of biodegradable biopolymers. They should be tested against the application requirements (including their end-of-life handling) and digital innovation applied to their processing.

Expected outcomes

- Diversified bio-based polymer product portfolio
- Improved safety, sustainability, and circularity profiles of the end-products that use specialty bio-based polymers
- Improved strategic autonomy and lower dependency of the EU on imports of specialty polymers for stringent operating conditions in specific market sectors, such as electronics, automotive, aerospace, maritime/naval, construction, textiles, packaging, etc.

Type of Action: RIA	Topic Budget: 9 Me
end TRL: 5	EU contribution per project: 4.5 Me

HORIZON-JU-CBE-2022-R-02: Bio-based coatings, barriers, binders, and adhesives

Scope

Develop and validate novel/alternative formulations for renewable, recyclable or bio-degradable, and min 95% (aiming at 100%) bio-based coatings and/or barriers and/or binders and/or adhesives, with improved or unprecedented properties with respect to state of the art existing products, using available green biocatalysts and digital technologies.

Expected outcomes

- Diversification of the bio-based coatings and/or barriers and/or binders, and/or adhesives product portfolio and increase of their range of application.
- Deliver bio-based coatings and/or barriers and/or binders, and/or adhesives with improved environmental and production-efficiency performances as well as higher technical and application performances.
- - Improved sustainability and circularity when compared with fossil-based state of the art existing products.
- - Improved health and safety profile when compared with fossil-based state of the art existing products.

Type of Action: RIA	Topic Budget: 9 Me
end TRL: 5	EU contribution per project: 4.5 Me

HORIZON-JU-CBE-2022-R-03: Circular-by-design bio-based materials to improve the circularity of complex structures

Scope

To design and develop novel ‘circular-by-design’ bio-based materials and B2B products, in the scope of CBE, as competitive solutions that address the circularity issues of complex materials/components that are currently fossil-based, or non-circular bio-based or partly bio-based/fossil-based.

To test the possible associated recycling and/or upcycling options (lab and pilot-scale) to increase the valorisation of the complex structures after use and move up in the waste hierarchy.

Expected outcomes

- Higher availability of circular-by-design bio-based materials and B2B products, as innovative solutions to current products with complex structures and in line with application (performance) requirements, while being positively assessed for environmental performance.
- Diversified bio-based materials and B2B products portfolio and their applications.
- Contribution to increasing the availability of renewable carbon-based complex structures, their circularity and addressing zero pollution goals.

Type of Action: RIA	Topic Budget: 9 Me
end TRL: 5	EU contribution per project: 4.5 Me

HORIZON-JU-CBE-2022-R-04: Proteins from alternative and unconventional sources*

**e.g., proteins derived from plants, agro-food by-products, fungi, microorganisms, algae, protein-enriched fermentations, or invertebrates, including terrestrial (e.g., insects) or marine)*

Scope

To develop and test available and upcoming potentially disruptive technologies to produce proteins with novel and/or improved properties from unconventional and sustainable sources with the potential for scale-up and deployment across Europe, enabling the production of bulk proteins for food and feed applications. When targeting non-food applications, proposals must demonstrate that the intended use is not conflicting with food chain.

Expected outcomes

- Identification of currently under- or unexploited sources of proteins.
- Mobilisation of novel protein streams from sustainable alternative sources.
- Increased availability of proteins in the EU and reduced dependency on imports.
- Sustainable premium (defined as nutritious, healthy, and environmentally sustainable) feed, food, and non-food chains meeting the customer expectations, including on economic level.

Other elements: Multi-actor approach

Type of Action: RIA	Topic Budget: 9 Me
end TRL: 5	EU contribution per project: 4.5 Me

HORIZON-JU-CBE-2022-R-05: Sustainable fibres biorefineries feedstock*

**Proposals should focus on the identification of promising low-input crops with associated ecological benefits (biodiversity enhancement, soil quality and retention potential, low requirement for water and nutrient use, pollinator friendliness, as relevant depending on the specific source).*

Scope

Identification of promising low-input fibrous crops, well-known or novel, with associated ecological benefits, including ~~and~~ research on breeding / cultivation and harvesting optimisation steps, and other agronomic options necessary for the subsequent scale-up into the industrial use

Expected outcomes

- Sustainable provision of green biomass, incl. underexploited terrestrial or aquatic feedstocks, for the industrial biorefining process, with environmental and social co-benefits.
- Development of fibre substrates enabling several possible end applications with future benefits for consumers based on the selected green fibre feedstocks (e.g., textiles, non-woven materials, composite bio-based materials, to foster innovation across industrial ecosystems, ranging from fashion, automotive, construction, to furniture sectors)

Other elements: Multi-actor approach , International cooperation is encouraged

Type of Action: CSA	Topic Budget: 3 Me
Third parties - Financial support: up to 45Ke	EU contribution per project: 3 Me

HORIZON-JU-CBE-2022-S-01: Developing and validating monitoring systems of environmental sustainability and circularity: collection of best practices and benchmarks

Scope

To evaluate existing and/or develop new methods to assess the environmental impacts of the selected industrial bio-based systems and their products on climate change (mitigation and adaptation), biodiversity (protection and enhancement), land use and water resources use as priorities, but also on air, water, and soil quality; Assessment of trade-offs and synergies with competing sectors, and development of benchmarks; iLUC risks of bio-based systems (especially concerning bio-based feedstock) and demonstrate low/zero-iLUC risk levels; carbon removal potential of bio-based solutions; involving also circularity criteria, etc...

Expected outcomes

A Monitoring system and assessment of the environmental impacts and circularity of bio-based systems for the EU single market and for international trade.

Other elements: International cooperation is encouraged + LCA experts and researchers in the bio-based technologies, bio-based industries, trade bodies, consumers' organisations, policymakers, etc. should be involved



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