



EU R&I policies and programming

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European Commission – DG Research&Innovation – Healthy Planet

R&I programming 2028-2034

- ❖ FP10
- ❖ ECF

R&I programming 2026-2027

- ❖ Horizon Europe Cluster 6, Circular Bio-based Europe Joint Undertaking

R&I policies

- ❖ Life Sciences
- ❖ Bioeconomy
- ❖ Biotech Act I, II
- ❖ Taxonomy

Safe and sustainable by Design
SSbD



The structure of the new Horizon Europe

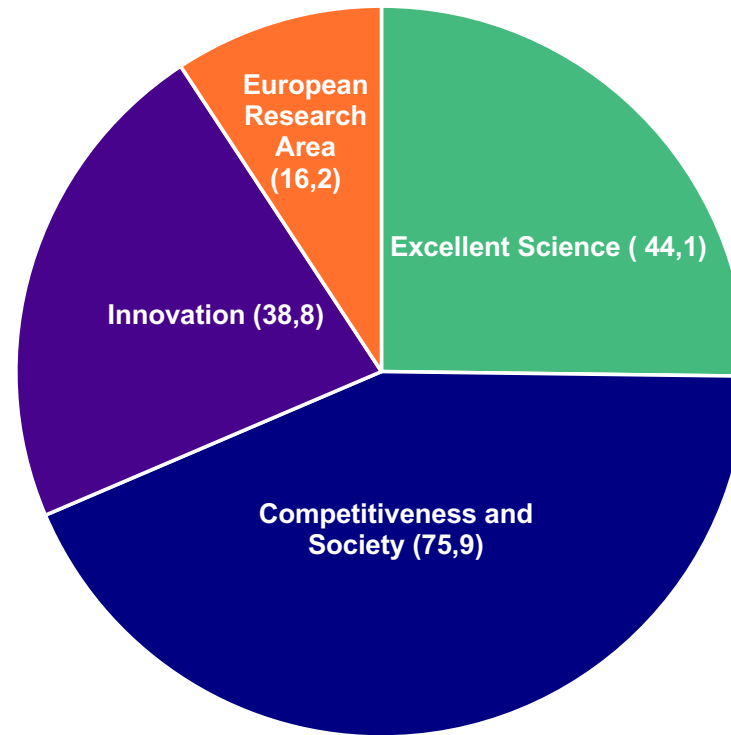


¹ Consistent with activities under the European Competitiveness Fund



The Budget

Horizon Europe total budget EUR 175 billion (current prices)
Figures all in EUR billion



■ Excellent Science (44,1) ■ Competitiveness and Society (75,9) ■ Innovation (38,8) ■ European Research Area (16,2)

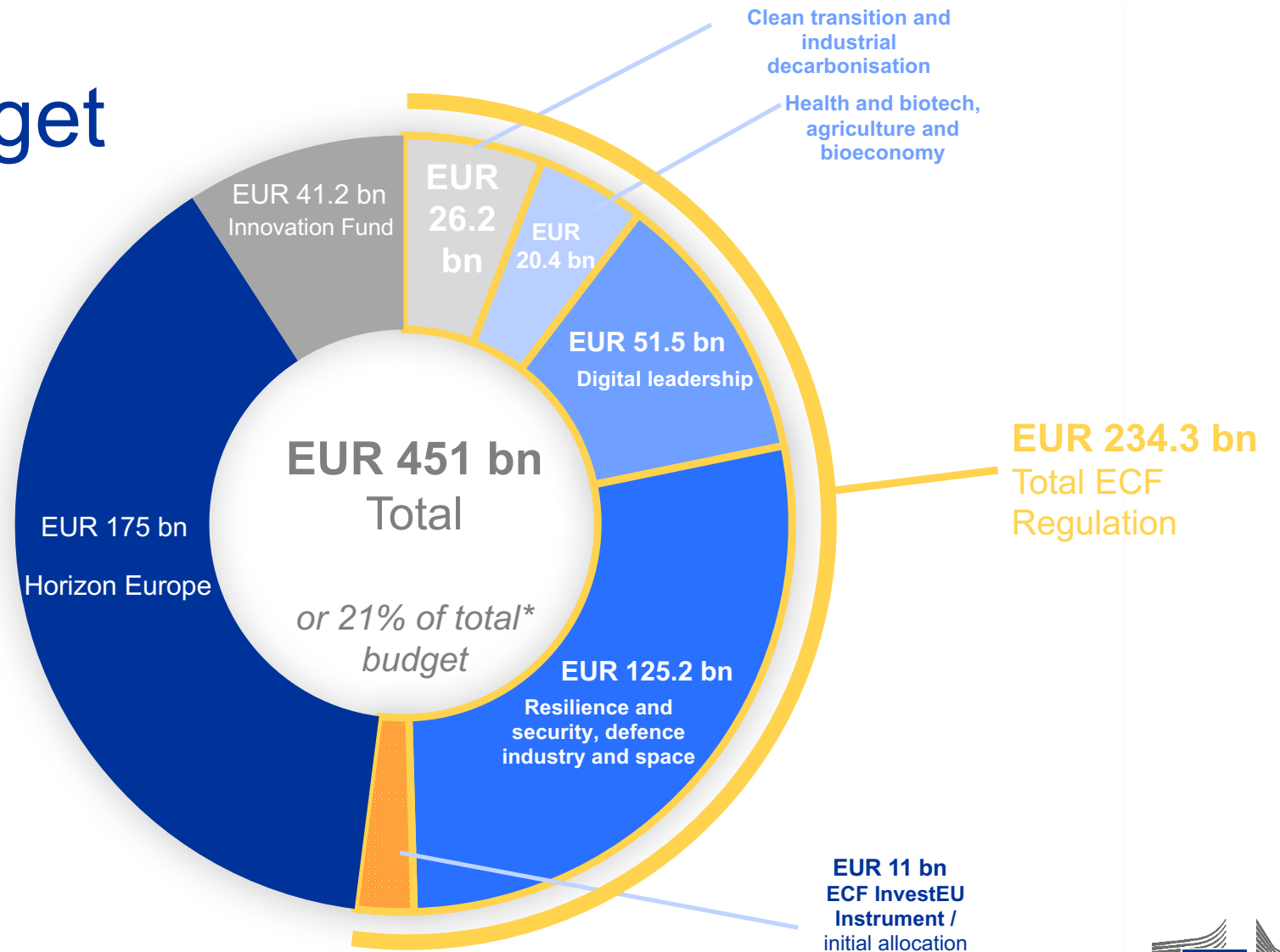


Links with the European Competitiveness Fund

- **Four policy windows defined in the ECF Regulation:**
- ‘Clean Transition and Industrial Decarbonisation’
- ‘Health, Biotech, Agriculture and Bioeconomy’
- ‘Digital Leadership’
- ‘Resilience and Security, Defence Industry and Space’

- **Work programmes, ECF Regulation:** ‘The work programmes under this Regulation shall integrate in a **specific dedicated part collaborative research and innovation activities and their dedicated budget.**’
- Work programmes under ECF will be covered by the **ECF comitology** (ECF Regulation).
- **Budget** for collaborative research is under the ‘Competitiveness’ **part of Horizon Europe.**

ECF Budget



* excluding Innovation Fund



ECF Toolbox

Grants, procurement and industrial policy coordination tools

- Work Programmes
- Accelerated and Targeted Actions for Competitiveness
- Single Market value chains builder
- EU Tech frontrunners
- Production Ramp up actions
- Top Ups for IPCEIs

ECF InvestEU Instrument

- Budgetary guarantee
- Financial instruments
- Blending operations
- Support to start-ups and scale-ups
- EU and Member States Compartments



Horizontal and cross-cutting activities

Project advisory

- Advisory for the identification, development, structuring, procuring and implementation of investment projects.
- Capacity building.
- Market development activities.

Business acceleration services

- Facilitating access to ECF funding.
- Matchmaking with private investors.
- Promoting financial literacy of entrepreneurs.

EU4Business Network

- Building on the Enterprise Europe Network.
- Offering advisory and partnership services free of charge to SMEs.

SME actions

- Dedicated, sector-specific actions targeting start-ups, SMEs and small midcaps under each policy window.

Beneficiary service desk

- Single electronic data interchange area for participants comprising all ECF activities.

Chapter III





EUROPEAN UNION



#HorizonEU

HORIZON EUROPE



INFO DAYS

CLUSTER 6
**FOOD, BIOECONOMY, NATURAL
RESOURCES, AGRICULTURE
& ENVIRONMENT**

22-23 January 2026

BROKERAGE

21 January 2026



THE EU RESEARCH & INNOVATION PROGRAMME **2021 – 2027**

CIRCULAR ECONOMY AND BIOECONOMY SECTORS

Enabling a circular economy transition

1. Improving circularity of multilayer flexible plastic food contact packaging
2. Advancing recycling technologies for mixed post-consumer textiles waste from blended products
3. Advanced recovery of critical raw materials from Waste from Electrical and Electronic Equipment (WEEE)
4. Demonstrating and deploying innovative collection, sorting-for-reuse and repair systems for textiles at city/region level (Circular Cities and Regions Initiative topic)
5. Open topic: Using the Circular Cities and Regions Initiative to strengthen urban manufacturing in support of the Clean Industrial Deal

Innovating for sustainable bio-based systems, biotechnology and the bioeconomy

1. Advancing the European bio-based innovation enabled by biotechnology and biomanufacturing concepts
2. Supporting pre-normative research for standardization of the bio-based products

Innovating for blue bioeconomy and biotechnology value chains

Harnessing the unique properties of marine organisms to deliver sustainable blue bio-based products



CLEAN ENVIRONMENT AND ZERO POLLUTION



4 topics

- Toward a comprehensive assessment of the disturbance of marine ecosystems by anthropogenic underwater noise
- Bioremediation of Ukraine's ecosystems contaminated by conflicts
- Developing managed aquifer recharge techniques (MAR) in a rural context
- Decontaminate and bioremediate aquatic pollution

Circular Bio-based Europe Joint Undertaking



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



Accelerate market deployment of the existing mature and innovative biobased solutions



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

- **€2 billion**

- **public-private initiative** advancing a competitive bioeconomy for a sustainable future

- **Launched in 2021, operates until 2031**

Part of Horizon Europe programme

- **Supporting European bioeconomy**

- **Building on the success of its predecessor BBI JU**



European Union
Represented by the
European Commission



Bio-based Industries
Consortium

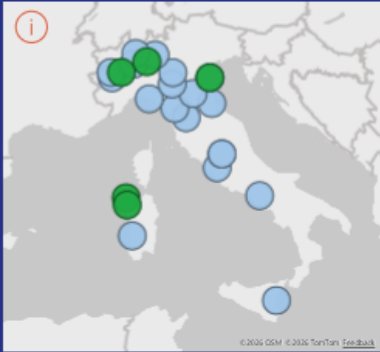
Choose a country

Italy



5 First-of-their-kind industrial biorefineries

20 Demonstration plants



#	Locality	Type
1	Bottrighe	Industrial biorefinery
1	Crescentino	Industrial biorefinery
2	Porto Torres	Industrial biorefinery
1	Sesto san Giovanni	Industrial biorefinery
1	Arborea	Demonstration plant
1	Bologna	Demonstration plant
2	Bottrighe	Demonstration plant
1	Canneto sull'Oglio	Demonstration plant

Type of action: ● Innovation action - Flagship ● Innovation action
● Research & Innovation action ● Coordination & Support action



Feedstock used:

* by selected biorefineries

Agri-food	18
Organic waste	6
Forest-based	4
Aquatic	2

Project applications:

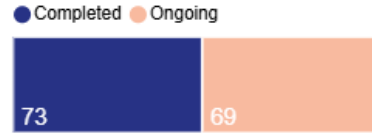
* of selected biorefineries

Agri/ Food/Feed	53
Packaging	36
Other	30
Chemicals/ Cosmetics	24
Automotive	17
Construction	11
Textile	11
Energy	8

Number of projects

142

17 coordinated projects



Small and medium-sized enterprises (SMEs)

Only private companies

CBE JU funding to SMEs
24.90M€

Number of SMEs
63

Members of the Bio-based Industries Consortium (BIC)

45

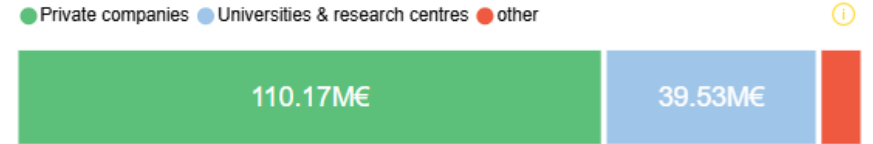
Participating projects	link
AFTERLIFE	link
AgriMax	link
Allthings.bioPRO	link
BARBARA	link
BeonNAT	link
B-FERST	link
BIO4COAT	link

CBE JU funding

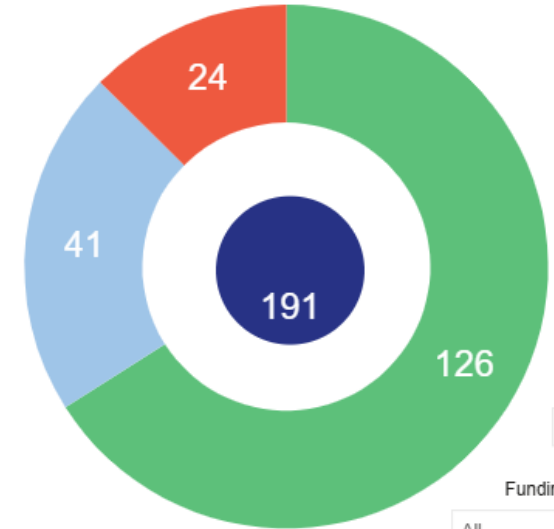


Click on a graph to filter the displayed information. Double-click on the same graph to reset the view.

157.09M€



Beneficiaries



Funding year:
All

Funding programme:
All

Only beneficiaries from the selected country are displayed.

Participants	Role	City
2B Srl	partner	Mogliano Veneto
A2A AMBIENTE SPA	partner	Brescia
A2A SPA	partner	Brescia
ACEA PINEROLESE INDUSTRIALE SPA	partner	Pinerolo
ACEL PHARMA SRL	partner	Beinasco To
ADLER EVO SRL	partner	Virle Piemonte
AEP POLYMERS SRL	partner	Trieste
Aermatica3D srl	partner	Colverde
AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE,	partner	Roma

CBE JU call 2026: 13 topics & their budget

Type of action	Topics HORIZON-JU-CBE-2026	Million EUR
IA- Flagship	IAFlag-01 Boosting biorefinery competitiveness through biotech	20
	IAFlag-02 SSbD bio-based alternatives for fertilising and/or crop protection products	20
	IAFlag-03 SSbD bio-based solutions for home and/or personal care	20
	IAFlag-04 Diversification of nutritional food ingredient sources for increased EU resilience and strategic autonomy	20
IA	IA-01 Biotech routes for valorisation of residual biomass	14
	IA-02 Bio-based additives as alternatives to unlock and increase recyclability and/or biodegradability	14
	IA-03 Bio-based chemicals and/or materials from woody residues	14
	IA-04 High-performance, circular-by-design, bio-based thermosets	14
	IA-05 Films and coatings for circular packaging	14
RIA	R-01 Addressing separation and purification challenges in biorefineries	6.5
	R-02 SSbD bio-based polymers from alternative sources	6.5
	R-03 Develop breakthrough and sustainable bio-based (man-made and/or modified natural) textile fibres	6.5
CSA	S-01 Supporting industry in the switch to sustainable and circular bio-based products and processes	1.2
Total		170.7

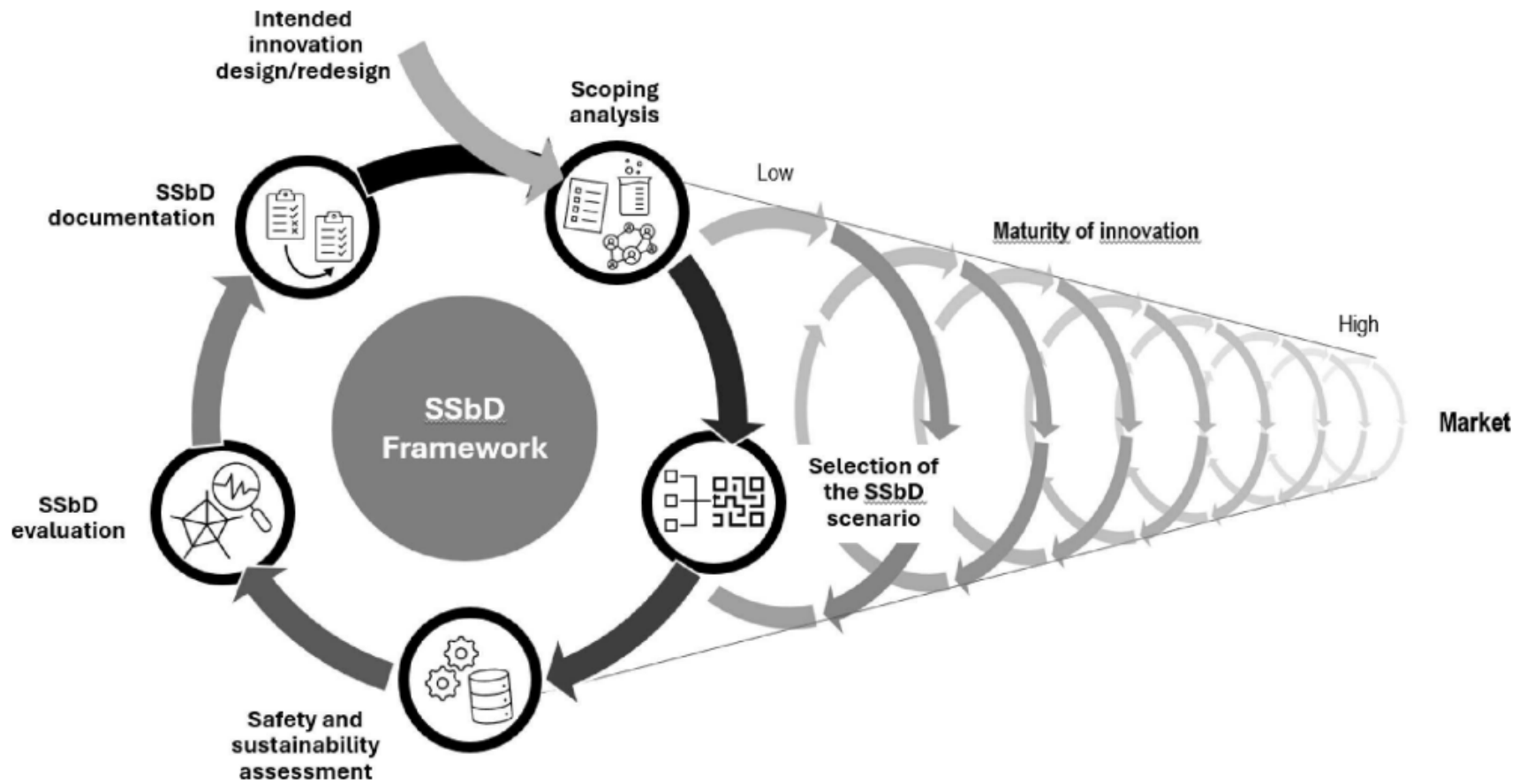
Recommendation (EU) 2026/510

Promotes a European framework for 'safe and sustainable by design' (**SSbD**) chemicals and materials (the SSbD Framework) for R&I activities in the practice of researchers and innovators.

- *Provides a proactive and prevention approach in innovation from the design of new chemicals, materials, processes, and products;*
- *Integrates safety and sustainability considerations to ensure that the potential impacts of innovative solutions to human and the environment are minimised while still meeting functional needs;*
- *It is about considering safety and sustainability with a holistic and life cycle perspective, not only replacing harmful chemicals, materials, processes or products;*
- *Rethinks the entire innovation process (from design to market readiness) to ensure that innovative solutions proposed are consistent with broader safety and sustainability goals;*
- *Is aligned with the overarching goals of the EGD & Competitiveness compass to close innovation gaps and achieve climate neutrality, reduce pollution and move towards a more circular economy.*



Recommendation SSbD



* excluding



Thank you



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