



*PROMOTING ASEAN PARTICIPATION IN HORIZON EUROPE SERIES OF INFORMATION, TRAINING, AND MATCHMAKING SESSIONS*

# PRESENTATION OF FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE AND ENVIRONMENT CALLS (AND TOPICS FOCUSING IN INTERNATIONAL COOPERATION)

Serena Borgna – Cluster 6 coordinator, APRE

[borgna@apre.it](mailto:borgna@apre.it)

*11th July 2023*



*Thanks to CARE4BIO project*



## INTERNATIONAL COOPERATION IN HORIZON EUROPE (I)

Horizon Europe is one of the main tools to implement Europe's strategy for international cooperation: the [Global Approach to research and innovation](#).

It is **open to researchers and innovators from around the globe** who are encouraged to team up with EU partners in preparing proposals.

It will include dedicated actions to support and strengthen cooperation through **multilateral initiatives** in areas such as **clean and renewable energy, ocean research, earth observation, or infectious diseases**. It will also include targeted actions with key third-country partners, including the development of **Africa Initiative** that will draw on topics across the six clusters of **Pillar II**.

European Commission, Directorate-General for Research and Innovation, *Horizon Europe, a global approach to research and innovation* – , Publications Office of the European Union, 2021, <https://data.europa.eu/doi/10.2777/972884>



## INTERNATIONAL COOPERATION IN HORIZON EUROPE (II)

- Horizon Europe as a programme is open for international participation.
- Horizon Europe wants to **strengthen international cooperation**.
- Association is the closest form of cooperation in R & D.
- Association takes place through individual association agreements, usually retroactive to the start of the programme.
- Framework agreements are negotiated individually with countries.



©scusi – stock.adobe.com



# THE INTERNATIONAL COOPERATION: THIRD COUNTRIES

## What applies in the case of third countries?

- Third country entities are **eligible, if** the country is exceptionally eligible according to the work programme **or if** the EC considers that their participation is indispensable for the implementation of the project [Art. 23.2]<sup>1</sup>.
- Wording for such an exception in the work programme is the following: "Due to the scope of this topic, legal entities established in .... **are exceptionally eligible for funding** from the Union."
- Wordings such as: "**international cooperation is (strongly) encouraged**", "international cooperation is **expected**" or "international cooperation is **mandatory**. Consortia submitting proposals to this topic are encouraged to include in particular participants from countries endorsing ..." **are not sufficient**.
- In some third countries there are possibilities for national co-financing (**co-funding mechanisms – CFM**). This [list from the EC provides a current overview of these possibilities: Complementary funding mechanisms in third countries](#)

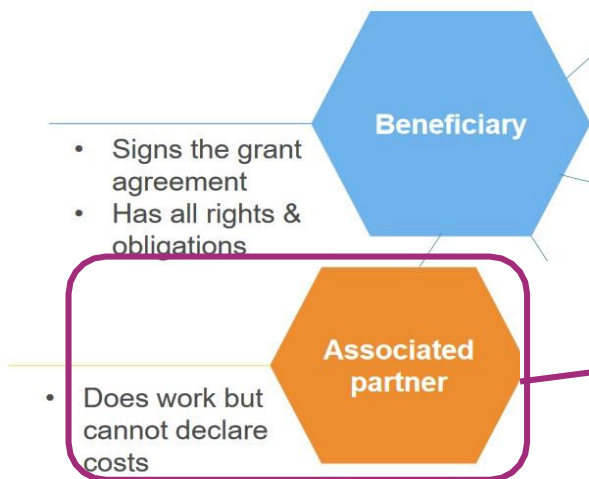
<sup>1</sup> Source: [REGULATION \(EU\) 2021/695](#)



# What can a non-associated third country do / not do?

1. <b>Sign</b> the grant agreement?	<b>No</b> , 'associated partners' => do not sign the grant agreement: Participants from non-associated third countries (not eligible for funding from the EC) are classified as ' <b>associated partners</b> ' (≠ associated country).
2. <b>Coordinate</b> projects?	<b>No</b> . In order to be coordinator (or beneficiary) of a project, a legal entity must sign the grant agreement. Only entities eligible for funding can sign the grant agreement - which is not the case for 'associated partners'.

## Project participants



This table gives an overview of the different kinds of EU grants participants and indicates cost eligibility (not exhaustive):

TYPE	Works on 'action tasks'?	What is eligible for the beneficiary/ affiliated entity?	Must be indicated in Annex 1 GA?	Conditions for participation	GA article
Beneficiaries	YES	Costs	YES	Must be eligible	art 7
Associated partners	YES	n/a	YES	No specific conditions (APs do not receive funding).	art 9.1



## What can a non-associated third country do / not do?

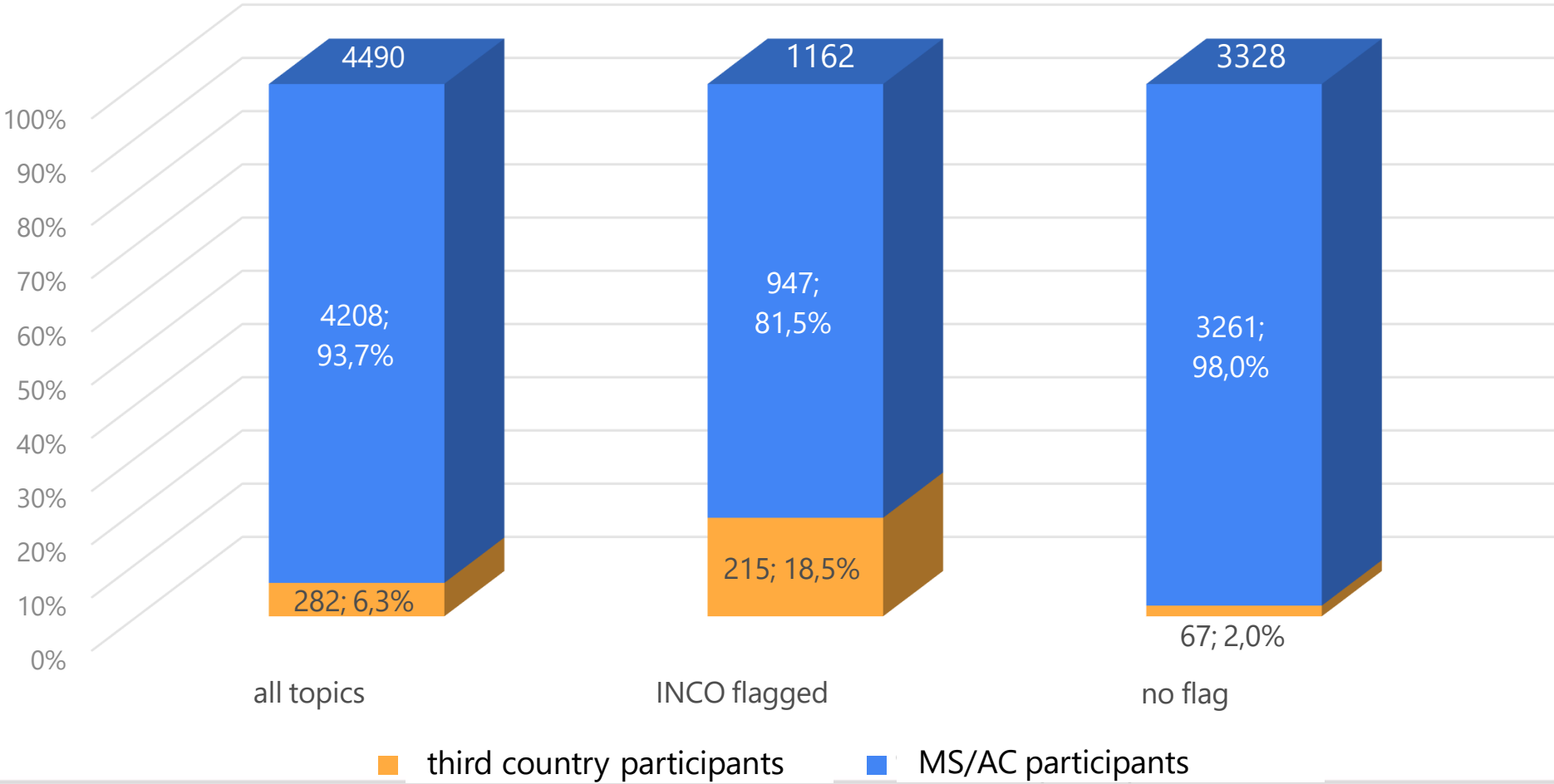
3. <b>Lead</b> a work package?	<b>Yes</b> , entities from non-associated third countries, participating as 'associated partners', are able to lead work packages.
4. Allowed to <b>participate</b> in Coordination and Support Actions ( <b>CSA</b> )?	<b>Yes</b> . Based on the FAQ by the European Commission <sup>1</sup> (January 2022), entities from non-associated third countries are eligible to participate in CSAs as 'associated partners' <b>(without receiving an EU funding)</b> . Unless the work programme, i.e. call conditions or the EU Commission / relevant funding body, lays down additional conditions, which must be met to participate in the action as a beneficiary (i.e. if the participation of the legal entity is considered essential to implement the action, then it must participate as a beneficiary).

<sup>1</sup> EC FAQ: Can entities established in countries that are neither EU Member States nor associated to Horizon Europe participate in coordination and support actions?: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/faq/18475>



# Participation in HE Cluster 6 calls 2021/2022\* RIA/IA projects

\* 2022 data in status of proposal data, UK not considered



Source: CARE4BIO analyses, based on ECORDA data



## Cluster 6 & international cooperation

- **Cluster 6** is the cluster in the **2023-2024** work programme with the most topics explicitly marked for international participation (**28% of topics**). However, participation does not mean that international partners are also eligible for funding.
- For **pillar II: 22 %**



©j-mel - stock.adobe.com





## Horizon Europe – pillar II: INCO topics in work programmes 2023-2024

	Topics total	Topics (ex Other Actions)	International cooperation encouraged	%
Cluster 1: Health	53	44	7	16%
Cluster 2: Culture, creativity and inclusive society	66	56	15	27%
Cluster 3: Civil Security for Society	44	42	9	21%
Cluster 4: Digital Industry and Space	159	130	22	17%
Cluster 5: Climate, Energy and Mobility	219	191	38	20%
Cluster 6: Food, Bioeconomy, Natural resources, agriculture, and environment	189	179	51	28%
	730	642	141	22%

highest % of INCO topics in pillar II is in Cluster 6!

European  
Commission

Source: Cluster 6 NCP Training Event (EC | 30.11.22)



## Cluster 6 work programme: Third country INCO topics

Topics flagged for International Cooperation	Cluster 6 WP 2021-2022	Cluster 6 WP 2023-2024
International Cooperation (without Cofund or Missions)	58	51
• INCO encouraged	6	19
• INCO strongly encouraged	33	17
• INCO mandatory	0	1
• Intl. research cooperation is needed (2021-22) INCO is highly encouraged/will be essential/should be considered	2	2
• None of the wording above	17 (with 5 simply flagged)	12 (with 4 simply flagged)
Countries / region / strategic partner named	Africa, Brazil, Canada, China, Central Asia, Japan, Western Balkans, non-European (Black Sea and Mediterranean), Latin America and Caribbean (LAC), USA	Africa, Argentina, Brazil, Canada, Cape Verde, China, Morocco, North America, South Africa, USA
International Organisations / Alliances named	FAO, OECD, All-Atlantic Ocean Research Alliance, with participation from bordering countries & beyond the EU MS, AC to HE	All-Atlantic Ocean Research and Innovation Alliance



## Cluster 6

“Food, Bioeconomy, Natural Resources,  
Agriculture and Environment”



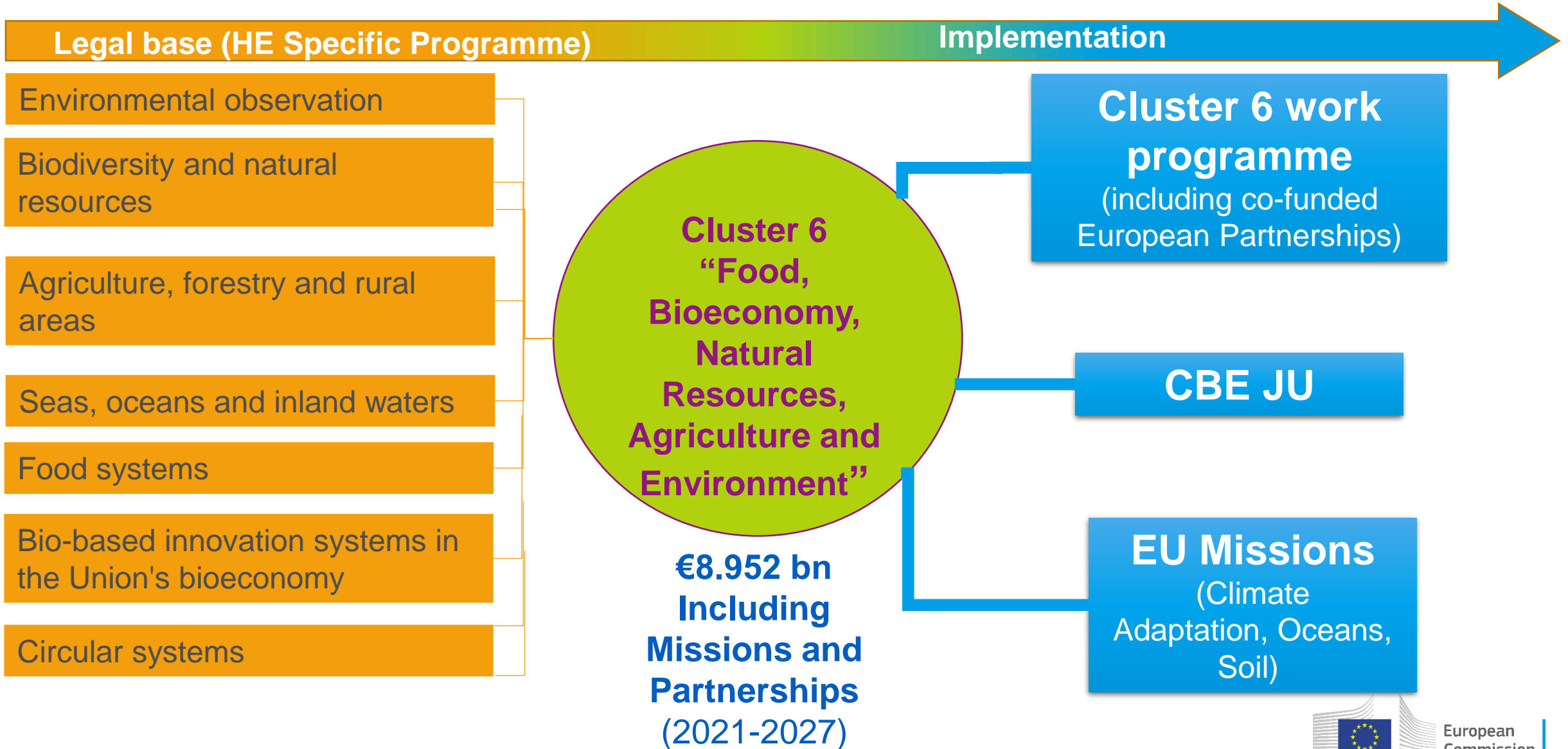
# CL6: Food, bioeconomy, natural resources, agriculture and environment

---

- aims at reducing **environmental degradation**, halting and reversing the decline of **biodiversity** on land, inland waters and sea and better managing **natural resources** through social and economic changes in both urban and rural areas.
- will ensure **food and nutrition security** for all through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems and accelerate the transition to a **circular economy** and sustainable bioeconomy, including forestry.
- R&I activities under CL6 will contribute to the objectives of the [European Green Deal](#) related to the [Biodiversity Strategy to 2030](#), the [Farm to Fork strategy](#), the [European Climate Pact](#) and initiatives under [sustainable industry](#) and [eliminating pollution](#), as well as the [long-term vision for rural areas](#), and the Sustainable Development Goals.

Intervention Areas
Environmental Observation
Biodiversity and natural resources
Agriculture, Forestry and rural areas
Seas, oceans and inland waters
Food systems
Biobased innovation systems in the EU Bioeconomy
Circular systems

# Overview



# Cluster 6: from Expected Impacts to Destinations

## Strategic Plan 2021-2024

**Impact 1** Climate neutrality and adaptation to climate change

**Impact 2** Preservation and restoration of biodiversity and ecosystems

**Impact 3** Sustainable and circular management of natural resources; tackling pollution; bioeconomy

**Impact 4** Food and nutrition security for all from sustainable food systems from farm to fork

**Impact 5** Balanced development of rural, coastal and urban areas

**Impact 6** Innovative governance models enabling sustainability, environmental observation

## Work Programmes 2021-2024

• **Destination 5:** Land, oceans and water for climate action

• **Destination 1:** Biodiversity and ecosystem services

• **Destination 3:** Circular economy and bioeconomy sectors  
• **Destination 4:** Clean environment and zero pollution

• **Destination 2:** Fair, healthy and environmentally-friendly food systems from primary production to consumption

• **Destination 6:** Resilient, inclusive, healthy and green rural, coastal and urban communities

• **Destination 7:** Innovative governance, environmental observations and digital solutions in support of the Green Deal



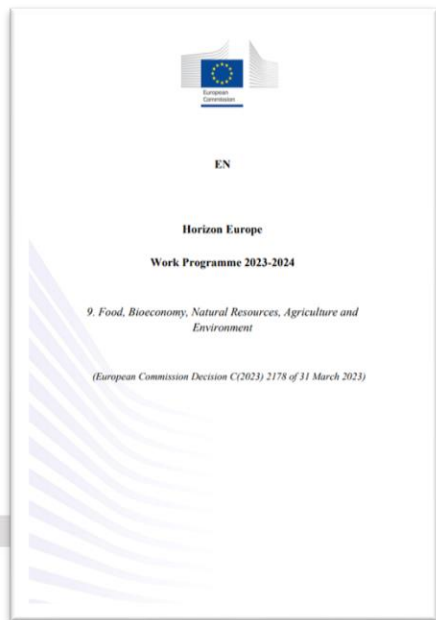


# CLUSTER 6 | Overview Work Programme 2023 -24

Scadenze	
	23 e 28 Marzo e 12 Aprile
'23	21/22 / 28 Febbraio

Topic	
	100
'23	76
'24	176

Budget	
	1056,39 (di cui 897 sui bandi 2023)
'23	903 (di cui 734 sui bandi 2024)
'24	1.959,39 mln €



[https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-9-food-bioeconomy-natural-resources-agriculture-and-environment\\_horizon-2023-2024\\_en.pdf](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-9-food-bioeconomy-natural-resources-agriculture-and-environment_horizon-2023-2024_en.pdf)



# WP 23-24| Overview calls 2024

Opening: 17 Oct 2023

DESTINATION	CALL	DEADLINES
1. BIODIVERSITY AND ECOSYSTEM SERVICES	HORIZON-CL6-2024- <b>BIODIV</b> -01	Deadline: 22 Feb 2024
	HORIZON-CL6-2024- <b>BIODIV</b> -02	Deadline(s): 22 Feb 2024 (First Stage), 17 Sep 2024 (Second Stage)
2. FAIR, HEALTHY AND ENVIRONMENTALLY-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION	HORIZON-CL6-2024- <b>FARM2FORK</b> -01	Deadline: 22 Feb 2024
	HORIZON-CL6-2024- <b>FARM2FORK</b> -02	Deadline(s): 22 Feb 2024 (First Stage), 17 Sep 2024 (Second Stage)
3. CIRCULAR ECONOMY AND BIOECONOMY SECTORS	HORIZON-CL6-2024- <b>CIRCBIO</b> -01	Deadline: 22 Feb 2024
	HORIZON-CL6-2024- <b>CIRCBIO</b> -02	Deadline(s): 22 Feb 2024 (First Stage), 17 Sep 2024 (Second Stage)
4. CLEAN ENVIRONMENT AND ZERO POLLUTION	HORIZON-CL6-2024- <b>ZEROPOLLUTION</b> -01	Deadline: 22 Feb 2024
	HORIZON-CL6-2024- <b>ZEROPOLLUTION</b> -02	Deadline(s): 22 Feb 2024 (First Stage), 17 Sep 2024 (Second Stage)
5. LAND, OCEAN AND WATER FOR CLIMATE ACTION	HORIZON-CL6-2024- <b>CLIMATE</b> -01	Deadline: 22 Feb 2024
6. RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES	HORIZON-CL6-2024- <b>COMMUNITIES</b> -01	Deadline: 22 Feb 2024
	HORIZON-CL6-2024- <b>COMMUNITIES</b> -02	Deadline(s): 22 Feb 2024 (First Stage), 17 Sep 2024 (Second Stage)
7. INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL	HORIZON-CL6-2024- <b>GOVERNANCE</b> -01	Deadline: 28 Feb 2024



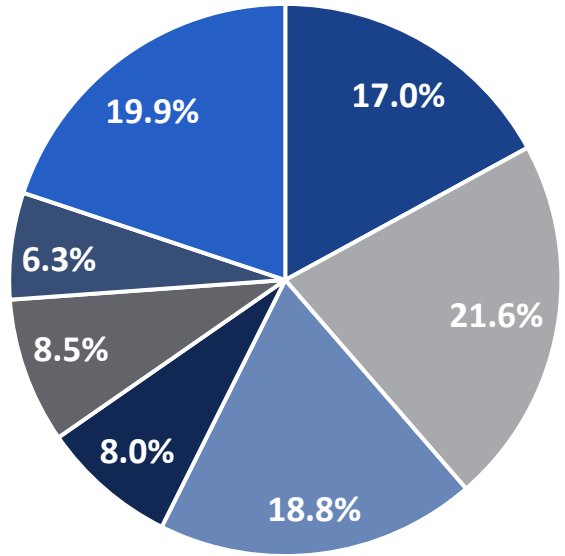


## WP 23-24| Destination

DESTINATION	Topic		Budget	
	2023	2024	2023	2024
1. BIODIVERSITY AND ECOSYSTEM SERVICES	18	12	184,00 €	142
2. FAIR, HEALTHY AND ENVIRONMENTALLY-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION	20	18	196,50 €	256,50
3. CIRCULAR ECONOMY AND BIOECONOMY SECTORS	17	16	178,50 €	147,5
4. CLEAN ENVIRONMENT AND ZERO POLLUTION	9	5	79,50 €	61
5. LAND, OCEAN AND WATER FOR CLIMATE ACTION	8	7	90,00 €	93
6. RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES	6	5	38,50 €	37
7. INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL	22	13	130,00 €	157,5
	<b>100</b>	<b>76</b>	<b>897</b>	<b>894,5</b>
<b>2023-2024</b>		<b>176</b>		<b>1631</b>

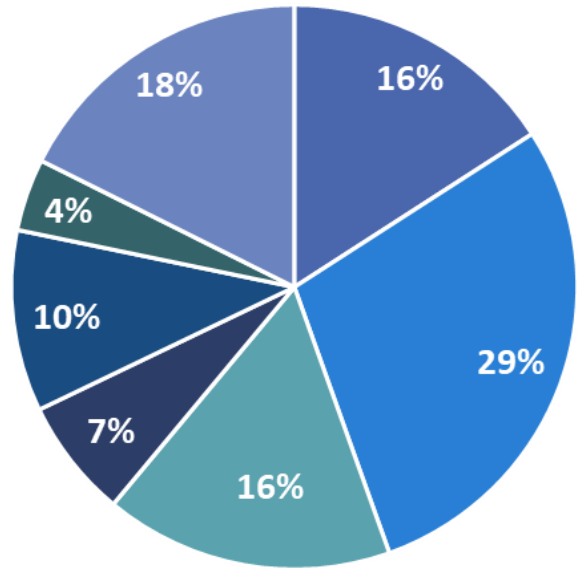
# WP 23-24 | Incidenza per destination

### # Topic per Destination

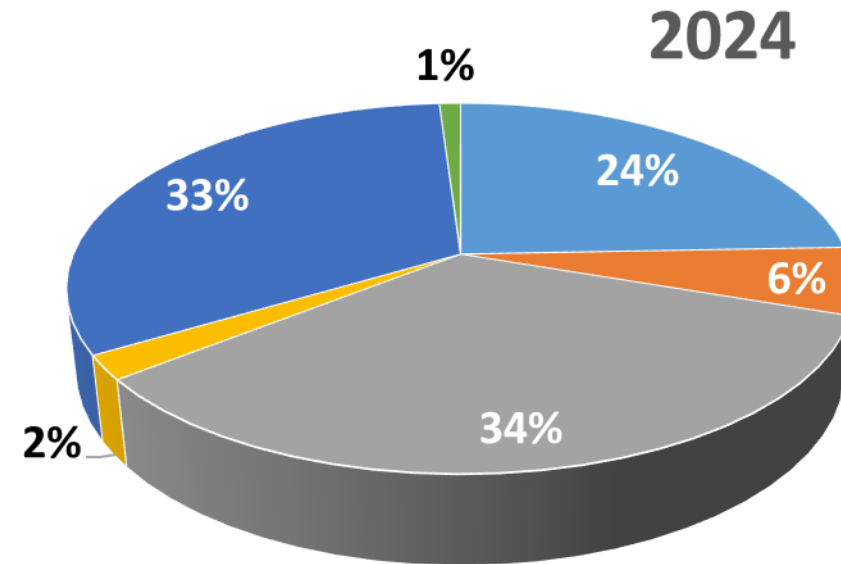
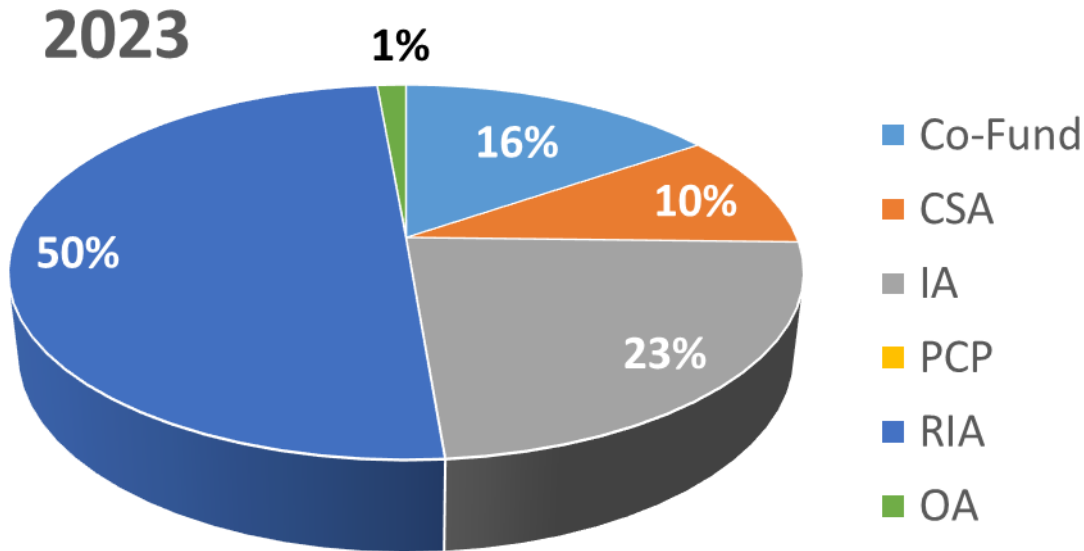


- Destinantion 1
- Destinantion 2
- Destinantion 3
- Destinantion 4
- Destinantion 5
- Destinantion 6
- Destinantion 7

### € Contributo Eu per destination



# Budget per Year and Type of Action



	2023		2024		Total
Co-Fund	€ 140,5	€ 220,5	€ 361,0		
CSA	€ 90,5	€ 53,0	€ 143,5		
IA	€ 212,0	€ 308,0	€ 520,0		
PCP		€ 19,0	€ 19,0		
RIA	€ 454,0	€ 294,0	€ 748,0		
OA	€ 12,7	€ 9,4	€ 22,1		
<b>Total</b>	<b>€ 909,7</b>	<b>€ 903,9</b>	<b>€ 1.813,6</b>		

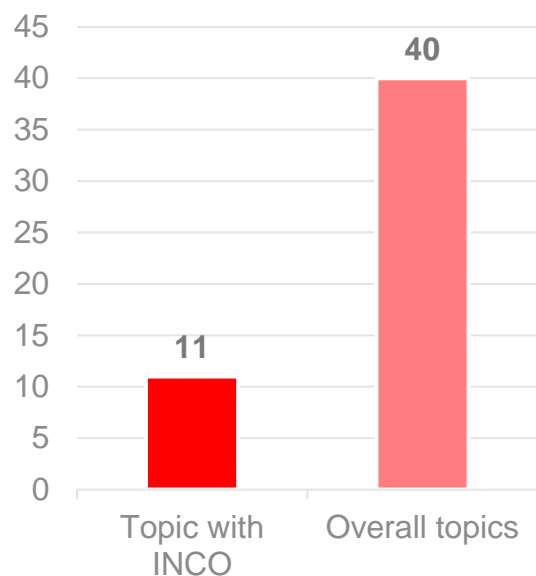
Budgetary balance between the two years  
**RIAs** have the lion share in 2023  
**IAs** are the relative majority in 2024



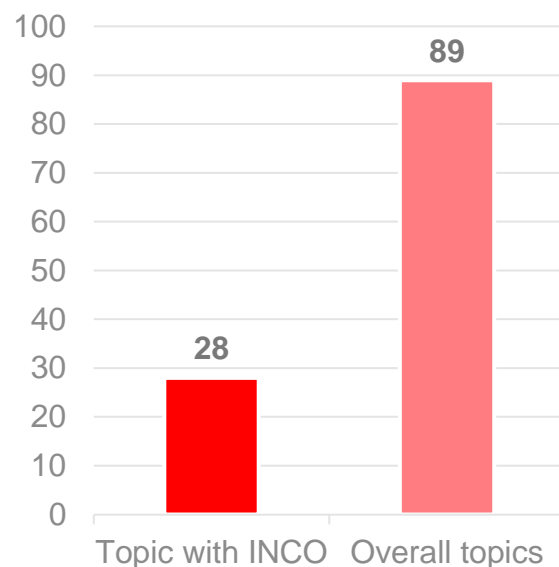
# Cross-cutting issues: International Cooperation

- International cooperation is encouraged in **52** out of 176 topics (**30%**)
  - 27,5%** of IAs, **31,5%** of RIAs, **23%** of CSAs + **4** Co-fund.
  - Most used language:** 'In order to achieve the expected outcomes of this topic, international cooperation is (strongly) encouraged'.

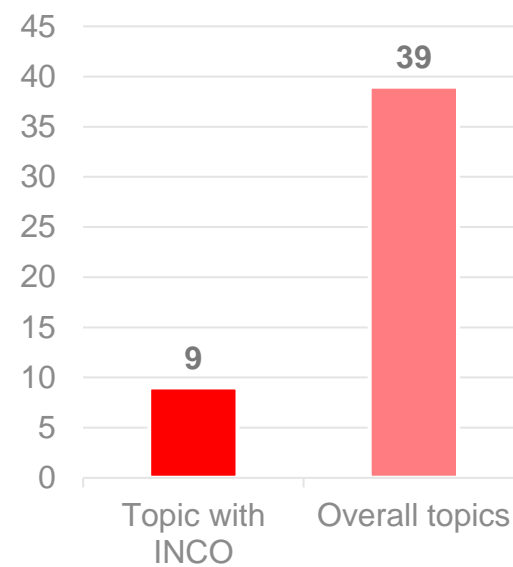
### IAs



### RIAs



### CSAs



Destinations	N. topics
<b>D1</b>	<b>12</b>
<b>D2</b>	<b>13</b>
D3	6
D4	6
D5	4
D6	3
<b>D7</b>	<b>8</b>

## Cluster 6 work programme structure: 7 Destinations with INCO (2024)

Destination 1 – Biodiversity and ecosystem services

D1: 5 INCO topics

Destination 2 – Fair, healthy and environmentally friendly food systems from primary production to consumption

D2: 6 INCO topics

Destination 3 – Circular economy and bioeconomy sectors

D3: 2 INCO topics

Destination 4 – Clean environment and zero pollution

D4: 1 INCO topic

Destination 5 – Land, oceans and water for climate action

D5: 3 INCO topics

Destination 6 – Resilient, inclusive, healthy and green rural, coastal and urban communities

D6: 2 INCO topics

Destination 7 – Innovative governance, environmental observations and digital solutions in support of the Green Deal

D7: 2 INCO topics

## INCO topics in Cluster 6 – thematic areas 2023-2024 (excerpt)

- **Biodiversity:** pollution (chemical, noise) | fisheries | deep sea habitats | NBS | legume crops | zoonotic diseases | invasive alien species | ...
- **Food systems:** organic cropping systems | African swine fever | cultured meat & seafood | sustainable livestock systems | plant pests | resilient food systems | food waste | EU-Africa FNSSA & PANAP | food safety | ...
- **Circular economy / bioeconomy:** construction bio-based materials | water & wastewater management | ...
- **Zero pollution:** Arctic | plastic packaging in food systems | GHG emissions | ...
- **Land / ocean / water:** Ocean & coastal waters | Essential Ocean Variables
- **Communities:** Participatory decision-making (Arctic coastal, local, indigenous communities) | sustainable business & production models (farmers, rural communities) | ...
- **EO / digital solutions:** measures for biotechnology and bio-based innovation systems | food system transformation | Supporting the All-Atlantic Ocean Research and Innovation Alliance and Declaration | ...

Source: Care4BIO compilation from [Cluster 6 Work programme 2023-2024](#)

# DESTINATION 1 – BIODIVERSITY AND ECOSYSTEMS SERVICES

Topics thematically grouped under 6 headings



## Expected impacts

- Direct **drivers of biodiversity decline** will be **understood** and **addressed**
- **Protected areas** and their networks will be **planned, managed** and **expanded** and the **status of species** and **habitats** will be improved
- Biodiversity, ecosystem services and natural capital will be **mainstreamed** in the **society** and **economy**
- **Practices** in **agriculture, forestry, fisheries and aquaculture** will be **developed and improved**
- **Biodiversity research** and **support policies and processes** will be **interconnected**
- **Biodiversity and health nexus** will be understood (especially at the level of ecosystems)



**HORIZON-CL6-2024-BIODIV-01** *Deadline 22.2.2024*

<b>HORIZON-CL6-2024-BIODIV-01-1: Invasive alien species</b>	IA	6	12	2
<b>HORIZON-CL6-2024-BIODIV-01-2: Digital for nature</b>	IA	8	16	2
<b>HORIZON-CL6-2024-BIODIV-01-3: Dependence of society and the economy on pollinators</b>	RIA	6,5	13	2
<b>HORIZON-CL6-2024-BIODIV-01-4: Biodiversity, economics and finance: Understanding macro-financial risks associated with biodiversity loss</b>	RIA	5	5	1
<b>HORIZON-CL6-2024-BIODIV-01-5: Transformative action of policy mixes, governance and digitalisation addressing biodiversity loss</b>	RIA	2	4	2
<b>HORIZON-CL6-2024-BIODIV-01-6: Promoting pollinator friendly farming systems</b>	RIA	6	6	1
<b>HORIZON-CL6-2024-BIODIV-01-7: Reintroduction of landscape features in intensive agricultural areas</b>	RIA	5	5	1
<b>HORIZON-CL6-2024-BIODIV-01-8: Conservation and protection of carbon-rich and biodiversity-rich forest ecosystems – Strongly encouraged</b>	RIA	6	12	2
<b>HORIZON-CL6-2024-BIODIV-01-9: Selective breeding programme for organic aquaculture</b>	RIA	3	3	1

**HORIZON-CL6-2024-BIODIV-02** *Scadenze 22.2.2024 (1step), 17.9.2024 (2step)*

<b>HORIZON-CL6-2024-BIODIV-02-1-two-stage: Demonstrating Nature-based Solutions for the sustainable management of water resources in a changing climate, with special attention to reducing the impacts of extreme droughts</b>	IA	8	16	2
<b>HORIZON-CL6-2024-BIODIV-02-2-two-stage: Demonstrating the potential of Nature-based Solutions and the New European Bauhaus to contribute to sustainable, inclusive and resilient living spaces and communities</b>	IA	5	10	2
<b>HORIZON-CL6-2024-BIODIV-02-3-two-stage: Promoting minor crops in farming systems</b>	RIA	5	10	2



# DESTINATION 2 – FAIR, HEALTHY, AND ENVIRONMENT-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION

Topics thematically grouped under 4 headings



## Expected impacts

- **Sustainable, productive, climate-neutral and resilient farming systems** providing consumers with affordable, safe, traceable healthy and sustainable food, while minimising pressure on ecosystems, restoring and enhancing biodiversity, improving public health and generating fair economic returns for farmers;
- Sustainable **fisheries and aquaculture** increasing aquatic biomass production, diversification and consumption of seafood products for fair, healthy, climate-resilient and environment-friendly food systems with low impact on aquatic ecosystems and high animal welfare; and
- **Sustainable, healthy and inclusive food systems** delivering co-benefits for climate mitigation and adaptation, environmental sustainability and circularity, sustainable healthy nutrition, safe food consumption, food poverty reduction, the inclusion of marginalised people, the empowerment of communities, and flourishing businesses



<b>HORIZON-CL6-2024-FARM2FORK-01 <i>Deadline 22.2.2024</i></b>				
<u>HORIZON-CL6-2024-FARM2FORK-01-1: Agro-pastoral/outdoor livestock systems and wildlife management</u>	RIA	5	5	1
<u>HORIZON-CL6-2024-FARM2FORK-01-2: New healthy and sustainable food products and processes</u>	RIA	5	10	2
<u>HORIZON-CL6-2024-FARM2FORK-01-3: Thematic network tackling food fraud by translating research and innovation into practice</u>	CSA	2	2	1
<u>HORIZON-CL6-2024-FARM2FORK-01-4: Climate change and food safety: effects of climate change on food safety across food systems</u>	RIA	4	8	2
<u>HORIZON-CL6-2024-FARM2FORK-01-5: Creating smart and attractive tools to enhance healthy and sustainable food provision, eating and treating of food at home</u>	IA	3	6	2
<u>HORIZON-CL6-2024-FARM2FORK-01-6: Citizens' science as an opportunity to foster the transition to sustainable food systems</u>	RIA	5	10	2
<b><u>HORIZON-CL6-2024-FARM2FORK-01-7: Impact of the development of novel foods based on alternative sources of proteins</u></b>	RIA	4,5	9	2
<u>HORIZON-CL6-2024-FARM2FORK-01-8: Preventing and reducing food waste to reduce environmental impacts and to help reach 2030 climate targets</u>	RIA	4,5	9	2
<b><u>HORIZON-CL6-2024-FARM2FORK-01-9: Microbiome for flavour and texture in the organoleptic dietary shift</u></b>	IA	4,5	9	2
<b><u>HORIZON-CL6-2024-FARM2FORK-01-10: EU-African Union cooperation on agroforestry management for climate change adaptation and mitigation</u></b>	RIA	6	18	3
<b><u>HORIZON-CL6-2024-FARM2FORK-01-11: EU-African Union – towards climate-neutral, social just fair trade food systems</u></b>	RIA	4,5	9	2



**HORIZON-CL6-2024-FARM2FORK-02** *Deadlines 22.2.2024 (1step), 17.9.2024 (2step)*

<u>HORIZON-CL6-2024-FARM2FORK-02-1-two-stage: Increasing the availability and use of non-contentious inputs in organic farming</u>	IA	6	12	2
<u>HORIZON-CL6-2024-FARM2FORK-02-2-two-stage: Sustainable organic food innovation labs: reinforcing the entire value chain</u>	IA	5,5	11	2
<u>HORIZON-CL6-2024-FARM2FORK-02-3-two-stage: Tools to increase the effectiveness of EU import controls for plant health</u>	IA	4	8	2
<u>HORIZON-CL6-2024-FARM2FORK-02-4-two-stage: Tackling outbreaks of plant pests</u>	RIA	6,5	13	2
<u>HORIZON-CL6-2024-FARM2FORK-02-5-two-stage: Animal nutritional requirements and nutritional value of feed under different production management conditions</u>	RIA	7	7	1
<u>HORIZON-CL6-2024-FARM2FORK-02-6-two-stage: Minimising climate impact on fisheries: mitigation and adaptation solutions for future climate regimes</u>	IA	4,5	9	2
<u>HORIZON-CL6-2024-FARM2FORK-02-7-two-stage: Minimising climate impact on aquaculture: mitigation and adaptation solutions for future climate regimes</u>	IA	4,5	9	2

# DESTINATION 3 – CIRCULAR ECONOMY AND BIOECONOMY SECTORS



Topics thematically grouped under 4 headings

## Expected impacts

- **Regional, rural, local/urban and consumer-based transitions towards a sustainable, regenerative, inclusive and just circular economy and bioeconomy** across all regions of Europe based on enhanced knowledge and understanding of science;
- European **industrial sustainability, competitiveness and resource independence** by lowering the use of primary non-renewable raw materials and reducing greenhouse gas emissions and other negative environmental footprint;
- **Innovative and sustainable bio-based value-chains**, replacing fossil-based value chains and increasing circular bio-based systems from sustainably sourced biological resources
- **Improved consumer and citizen benefits;**
- **Multi-functionality and management of forests** in Europe based on the three pillars of sustainability (economic, environmental and social);
- **Enlarged potential of marine and freshwater biological resources and blue biotechnology** to deliver greener (climate-neutral circular) industrial products and processes, and to help characterise, monitor and sustain the health of aquatic ecosystems for a healthy planet and people.



**HORIZON-CL6-2024-CircBio-01 Scadenza 22.2.2024**

<a href="#">HORIZON-CL6-2024-CircBio-01-1: Circular Cities and Regions Initiative’s project development assistance (CCRI-PDA)</a>	CSA	2	6	3
<a href="#">HORIZON-CL6-2024-CircBio-01-2: Circular solutions for textile value chains based on extended producer responsibility</a>	IA	7	14	2
<a href="#">HORIZON-CL6-2024-CircBio-01-3: Innovative circular solutions for furniture</a>	IA	5	10	2
<a href="#">HORIZON-CL6-2024-CircBio-01-4: Systemic circular solutions for a sustainable tourism</a>	IA	5	10	2
<b><a href="#">HORIZON-CL6-2024-CircBio-01-5: Programmed biodegradation capability of bio-based materials and products, validated in specific environments</a></b>	RIA	4	8	2
<a href="#">HORIZON-CL6-2024-CircBio-01-6: Digital information systems for bio-based products</a>	RIA	3	6	2
<a href="#">HORIZON-CL6-2024-CircBio-01-7: Demonstrating the fair and just transition from GHG-intensive economies facing challenges towards circular bioeconomy model regions</a>	IA	6	6	1
<a href="#">HORIZON-CL6-2024-CircBio-01-8: Bioeconomy project development assistance</a>	CSA	3	3	1
<a href="#">HORIZON-CL6-2024-CircBio-01-9: Circular bioeconomy start-up villages</a>	CSA	0,8	2,5	3
<a href="#">HORIZON-CL6-2024-CircBio-01-10: Targeting aquatic extremophiles for sourcing novel enzymes, drugs, metabolites and chemicals</a>	RIA	0,9	4,5	2



**HORIZON-CL6-2024-CircBio-02 Deadlines 22.2.2024 (1step), 17.9.2024 (2step)**

<u>HORIZON-CL6-2024-CircBio-02-1-two-stage: Circular solutions for textile value chains through innovative sorting, recycling, and design for recycling</u>	RIA	5	15	3
<u>HORIZON-CL6-2024-CircBio-02-2-two-stage: Increasing the circularity in plastics value chains</u>	IA	5	10	2
<u>HORIZON-CL6-2024-CircBio-02-3-two-stage: Increasing the circularity in electronics value chains</u>	IA	5	10	2
<u>HORIZON-CL6-2024-CircBio-02-4-two-stage: New circular solutions and decentralised approaches for water and wastewater management</u>	IA	5	15	3
<u>HORIZON-CL6-2024-CircBio-02-5-two-stage: Circular design of bio-based processes and products</u>	RIA	4	8	2
<u>HORIZON-CL6-2024-CircBio-02-6-two-stage: From silos to diversity – small-scale bio-based demonstration pilots</u>	IA	5	15	3

# DESTINATION 4 – CLEAN ENVIRONMENT AND ZERO POLLUTION

Topics thematically grouped under 5 headings



## Expected impacts

- Move towards achieving clean, unpolluted surface water and groundwater bodies by advancing the understanding of diffuse and point sources of **water pollution in a global and climate change context**, enabling novel solutions to avoid degradation and restore water bodies, aquatic ecosystems and soil functionality, and further improve the quality and management of water for safe human and ecological use, while strengthening EU & Associated Countries' positions and roles in the global water scene.
- Balanced **N/P flows** within safe ecological boundaries at regional and local level, helping ecosystems.
- Move towards **clean, unpolluted oceans and seas**, including in the Arctic, by means of successful scientific, technological, behavioural, social-economic, demographic, governance and green-blue transitions.
- **Strengthen circular bio-based systems** to operate within planetary boundaries, replacing fossil-based systems and their carbon footprint, mitigating climate change, restoring biodiversity and protecting air, water and soil quality along supply chain of biological feedstocks and industrial value chains
- **Substitute harmful chemicals** for safer and more sustainable alternatives, notably by boosting innovative biotechnology and other sustainable technologies to create zero-pollution bio-based solutions.
- **Reduce the environmental impact of food systems**, e.g., by increasing knowledge of environmental and climate impacts from food systems and reducing pollution from plastic food packaging.



<b><i>HORIZON-CL6-2024-ZEROPOLLUTION-01 Deadlines 22.2.2024</i></b>				
<u>HORIZON-CL6-2024-ZEROPOLLUTION-01-1: Demonstrating how regions can operate within safe ecological and regional nitrogen and phosphorus boundaries</u>	IA	9	27	3
<b><u>HORIZON-CL6-2024-ZEROPOLLUTION-01-2: Best available techniques to recover or recycle fertilising products from secondary raw materials</u></b>	CSA	2	4	2
<u>HORIZON-CL6-2024-ZEROPOLLUTION-01-3: Environmental impacts of food systems</u>	RIA	7	7	1
<b><i>HORIZON-CL6-2024-ZEROPOLLUTION-02 Deadlines 22.2.2024 (1step), 17.9.2024 (2step)</i></b>				
<u>HORIZON-CL6-2024-ZEROPOLLUTION-02-1-two-stage: Holistic approaches for effective monitoring of water quality in urban areas</u>	IA	5	15	3
<u>HORIZON-CL6-2024-ZEROPOLLUTION-02-2-two-stage: Innovative technologies for zero pollution, zero-waste biorefineries</u>	RIA	4	8	2



# DESTINATION 5 – LAND, OCEAN AND WATER FOR CLIMATE ACTION

No headings under this Destination



## Expected impacts

- Better understanding and enhancing the **mitigation potential of ecosystems and sectors** based on the sustainable management of natural resources;
- Advanced understanding and science to support **adaptation and resilience** of natural and managed ecosystems, water and soil systems and economic sectors in the context of the changing climate;
- Efficient monitoring, assessment and projections related to climate change impacts, **mitigation and adaptation potential** in order to bring out solutions for **tackling emerging threats** and support decision-making in climate change mitigation and adaptation policies at European and global levels;
- Fostered **climate change mitigation in the primary sector**, including by the **reduction of GHG emissions**, maintenance of **natural carbon sinks** and enhancement of sequestration and storage of carbon in ecosystems;
- Improved **adaptive capacity of water and soil systems** and sectors including by unlocking the potential of **nature-based solutions**;
- Better managed scarce resources, in particular soils and water, thus **mitigating climate related risks, in particular desertification and erosion**, thanks to informed decision-makers and stakeholders and integration of adaptation measures in relevant EU policies.



**HORIZON-CL6-2024-CLIMATE-01 Deadlines 22.2.2024 (1step), 17.9.2024 (2step)**

<u>HORIZON-CL6-2024-CLIMATE-01-1: Improving irrigation practices and technologies in agriculture</u>	IA	5	10	2
<u>HORIZON-CL6-2024-CLIMATE-01-2: Socio-economic, climate and environmental aspects of paludiculture</u>	RIA	5	5	1
<u>HORIZON-CL6-2024-CLIMATE-01-3: Paludiculture: large-scale demonstrations</u>	IA	10	20	2
<u>HORIZON-CL6-2024-CLIMATE-01-4: Land use change and local / regional climate</u>	RIA	6	12	2
<u>HORIZON-CL6-2024-CLIMATE-01-5: Climate-smart use of wood in the construction sector to support the New European Bauhaus</u>	RIA	7	14	2
<u>HORIZON-CL6-2024-CLIMATE-01-6: Ocean models for seasonal to decadal regional climate impacts and feedbacks</u>	RIA	4,5	9	2
<u>HORIZON-CL6-2024-CLIMATE-01-7: EU-China international cooperation on improving monitoring for better integrated climate and biodiversity approaches, using environmental and Earth observation</u>	RIA	5	5	1

# DESTINATION 6 – RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES

No headings under this Destination



## Expected impacts

- **Rural, coastal and urban areas** are developed in a **sustainable, balanced, equitable and inclusive manner**.
- **Rural, coastal and urban communities** are empowered to **act for change**, be better prepared to achieve climate-neutrality and adapt to climate change, and use the digital and green transitions to increase resilience and provide positive long-term prospects.
- **Rural communities** are equipped with upgraded **innovation ecosystems and innovative and smarter circular solutions** that increase access to services and job opportunities, increase their attractiveness and reduce the feeling of being left behind.
- **Sustainable development of coastal areas**, including coastal protection and resilience, is enhanced, reaping the benefits of **social, digital and community-led innovations**.
- **Urban and peri-urban communities** – including people in vulnerable situations – can access, afford and choose healthy, nutritious and **environmental-friendly food**.



**HORIZON-CL6-2024-COMMUNITIES-01 *Deadlines 22.2.2024***

<a href="#">HORIZON-CL6-2024-COMMUNITIES-01-1: Unlock the potential of the New European Bauhaus in urban food system transformation</a>	IA	3	6	2
<a href="#">HORIZON-CL6-2024-COMMUNITIES-01-2: Societal perceptions and benefits of rural life and jobs: will COVID 19 generate a long-lasting shift?</a>	RIA	6	6	1
<a href="#">HORIZON-CL6-2024-COMMUNITIES-01-3: Participation and empowerment of Arctic coastal, local, and indigenous communities in environmental decision-making</a>	RIA	3	3	1

**HORIZON-CL6-2024-COMMUNITIES-02 *Deadlines 22.2.2024 (1step), 17.9.2024 (2step)***

<a href="#">HORIZON-CL6-2024-COMMUNITIES-02-1-two-stage: Innovating for climate-neutral rural communities by 2050</a>	IA	5	10	2
<a href="#">HORIZON-CL6-2024-COMMUNITIES-02-2-two-stage: New sustainable business and production models for farmers and rural communities</a>	RIA	6	12	2

# DESTINATION 7 – INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL

Topics thematically grouped under 4 headings



## Expected impacts

- Innovative governance models enabling sustainability and resilience notably to achieve **better informed decision-making processes, societal engagement and innovation**
- Areas related to the European Green Deal benefit from further **deployment and exploitation of Environmental Observation** data, products and “green” solutions
- A **strengthened Global Earth Observation System of Systems (GEOSS)**
- **Sustainability performance and competitiveness** in the areas covered by Cluster 6 are improved through further deployment of digital and data technologies as key enablers
- Stakeholders and end users including primary producers and consumers are better informed and engaged thanks to effective platforms such as **Agriculture Knowledge and Innovation Systems (AKIS)**;
- Strengthened EU and international science-policy interfaces to achieve the **Sustainable Development Goals**



**HORIZON-CL6-2024-GOVERNANCE-01 Deadlines 22.2.2024 (1step), 17.9.2024 (2step)**

<b>HORIZON-CL6-2024-GOVERNANCE-01-1: Additional activities for the European Partnership for a climate neutral, sustainable and productive Blue Economy</b>	COFUND	60	60	1
<b>HORIZON-CL6-2024-GOVERNANCE-01-2: Regional ecosystems of innovation to foster food system transformation</b>	CSA	3,5	3,5	1
HORIZON-CL6-2024-GOVERNANCE-01-3: The role of mainstream media, social media and marketing in fostering healthy and sustainable consumption patterns and how to encourage good practices	CSA	3	3	1
HORIZON-CL6-2024-GOVERNANCE-01-4: Supporting the All-Atlantic Ocean Research and Innovation Alliance and Declaration	CSA	4	4	1
HORIZON-CL6-2024-GOVERNANCE-01-5: Customisation/pre-operationalisation of prototypes end-user services in the area Climate Change Adaptation and Mitigation	PCP	19	19	1
HORIZON-CL6-2024-GOVERNANCE-01-6: Develop innovative applications to support the European Green Deal, building on meteorological satellite data	RIA	4	8	2
HORIZON-CL6-2024-GOVERNANCE-01-7: Enhancing working conditions and strengthening the work force through digital and data technologies – the potential of robotics and augmented reality in agriculture	RIA	5	15	3
HORIZON-CL6-2024-GOVERNANCE-01-8: Broaden EIP Operational Group outcomes across borders by means of thematic networks to compile and share knowledge ready for practice	CSA	2	4	2
HORIZON-CL6-2024-GOVERNANCE-01-9: Thematic networks to compile and share knowledge ready for practice	CSA	3	6	2
HORIZON-CL6-2024-GOVERNANCE-01-10: Organic farming thematic networks to compile and share knowledge ready for practice	CSA	4	4	1
HORIZON-CL6-2024-GOVERNANCE-01-11: Biodiversity thematic networks to compile and share knowledge ready for practice	CSA	3	3	1
HORIZON-CL6-2024-GOVERNANCE-01-12: Developing EU advisory networks on forestry	CSA	4	4	1
HORIZON-CL6-2024-GOVERNANCE-01-13: Developing EU advisory networks on sustainable livestock systems	CSA	4	4	1



# Cluster 6 Info Days & Brokerage Event WP 2024



- Brussels - Onsite
- Cluster 6 Info Days (27-28 September 2023)
- Cluster 6 Brokerage event (26<sup>th</sup> of September 2023)



**CARE  
4BIO**

CARE4BIO is the official Network of the Horizon Europe 'Cluster 6' (Food, Bioeconomy, Natural Resources, Agriculture and Environment) National Contact Points!

The project has a duration of 67 months.

**The aim of CARE4BIO is to harmonise NCP services and increase their quality, lower entry barriers for applicants, especially in less active member states and inform the European R&D community about cross-cutting synergies throughout Horizon Europe. To achieve this will CARE4BIO develop capacity-building activities for Cluster 6 NCPs and applicants, such as training, learning courses, best practice manuals, policy briefings, and many more.**

<https://horizoneuropencppportal.eu/news/new-ncp-project-care4bio-and-running>





**Thank you!**

**Serena Borgna**  
**[borgna@apre.it](mailto:borgna@apre.it)**