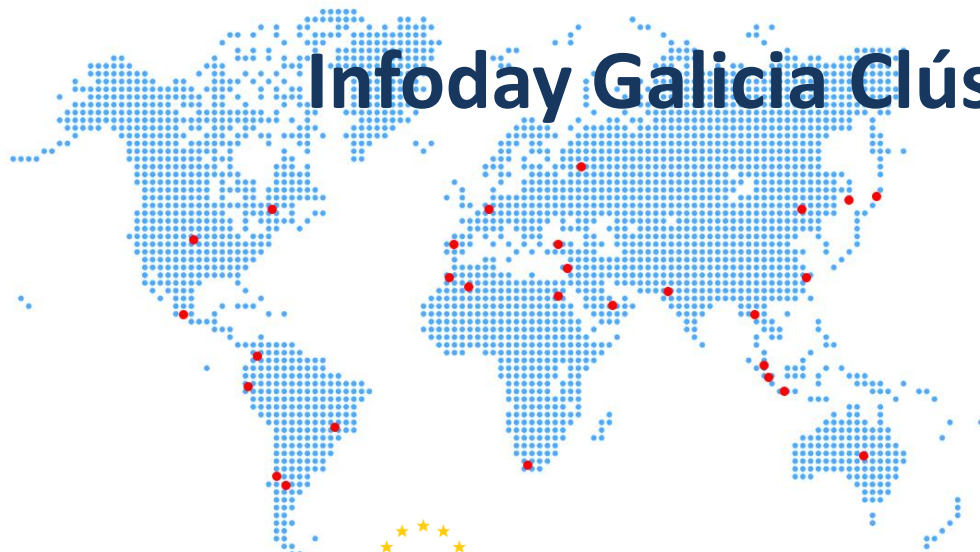


#innovacion  
#ayudascdti  
#asesoramiento  
#internacionalizacion



# Infoday Galicia Clúster 6 y Clúster 5-Clima Horizonte Europa



**HORIZONTE**  
  
**EUROPA**  
@HorizonteEuropa

Juan Carlos García Carrasco



@JCGarcia\_CDTI

21 de noviembre de 2023

# Contenido

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- Aspectos generales de HE
- Convocatorias de Clúster 5-Clima
- Convocatorias de Clúster 6
- Misiones y partenariados
- Soporte CDTI al participante

THE EU RESEARCH & INNOVATION PROGRAMME

# HORIZON EUROPE



# Tipos de proyectos que financia HE

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Se financian proyectos en todas las fases del proceso que lleva de la investigación al mercado:

- ***Valor añadido a nivel europeo,***
- ***Aplicación exclusivamente civil (no militar)***
- ***Respetando los principios éticos y la legislación nacional, de la UE e internacional aplicable***
- ***Desarrollados*** generalmente en ***consorcio transnacional***, aunque hay determinados tipos de proyectos en los que se puede participar de ***forma individual***.
- ***Ajustándose a las líneas específicas de investigación e innovación*** detalladas en los programas de trabajo y las convocatorias correspondientes
- ***Presupuesto global*** entre 0,5 y varios millones de euros (dependiendo del alcance de las actividades)
- ***Duración*** entre 1 y 5 años dependiendo del alcance de las actividades

# Presupuesto Horizonte Europa: lo que sabemos, 95.517 MEUR

<b>PILAR 1 – CIENCIA EXCELENTE</b>	<b>25.011</b>	<b>PILAR 2 - RETOS MUNDIALES Y COMPETITIVIDAD INDUSTRIAL EUROPEA</b>	<b>53.516</b>	<b>PILAR 3 – INNOVACIÓN ABIERTA</b>	<b>13.597</b>
ERC - Consejo Europeo de Investigación	16.004	Clúster 1 - Salud	8.246	EIC- Consejo Europeo de Innovación	10.105
MSCA - Acciones Marie Skłodowska-Curie	6.602	Clúster 2 - Cultura, creatividad y sociedad inclusiva	2.280	Ecosistemas de innovación europea	527
Infraestructuras de investigación	2.406	Clúster 3 - Seguridad	1.596	EIT - Instituto Europeo de Innovación y Tecnología	2.965
		Clúster 4 - Digital, industria y espacio	15.349		
		Clúster 5 - Clima, energía y movilidad	15.123		
		Clúster 6 - Alimentación, bioec. recursos naturales, agricultura y MA	8.952		
		JRC – Centro Común de Investigación	1.970		

<b>Ampliar la Participación y Fortalecer el Espacio Europeo de Investigación</b>	<b>3.393</b>
Ampliar la participación y difundir la excelencia	2.955
Reformar y mejorar el sistema europeo de la I+i	438

**Incl 5.000 M€ Next Generation EU**

**Incl 4.000 M€  
(acuerdo político MFP)**

Precios corrientes



# CLÚSTER 5-CLIMA



# HORIZON EUROPE

# EURATOM

## SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

*Exclusive focus on  
defence research  
& development*

Research  
actions

Development  
actions

## SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT\*

*Exclusive focus on civil applications*



**Pillar I**  
EXCELLENCE  
SCIENCE

European Research  
Council

Marie Skłodowska-Curie

Research Infrastructures



**Pillar II**  
GLOBAL CHALLENGES  
& EUROPEAN  
INDUSTRIAL

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- **Climate**, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre

EU Missions



**Pillar III**  
INNOVATIVE  
EUROPE

European Innovation  
Council

European Innovation  
Ecosystems

European Institute of  
Innovation & Technology\*

## WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

Fusion

Fission

Joint  
Research  
Center



# De Horizonte 2020 a Horizonte Europa

**Reto Social 3**  
Energía limpia,  
segura y eficiente



**Reto Social 4**  
Transporte inteligente,  
ecológico e integrado



**Reto Social 5**  
Acción por el clima, medio  
ambiente, eficiencia en los  
recursos y materias primas

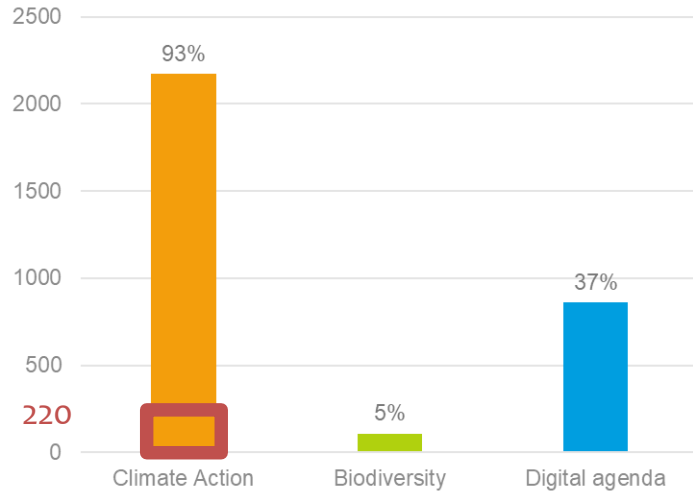


**Clúster 5**  
Clima, Energía y Movilidad

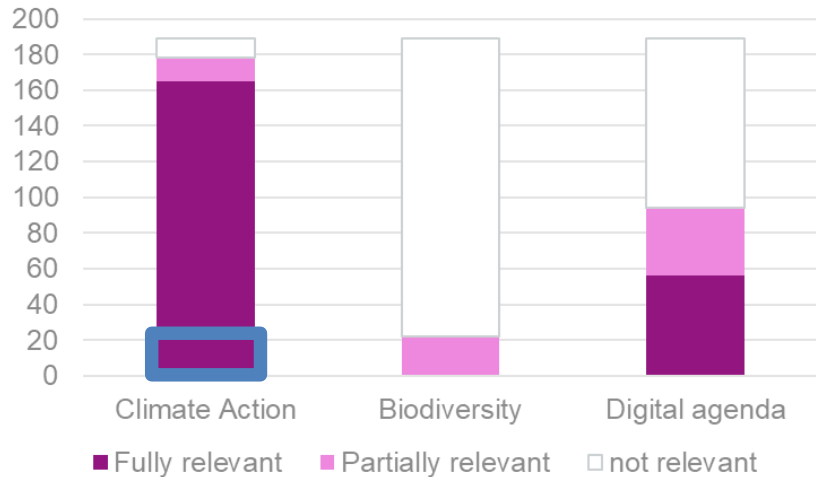
# Cross-cutting policy priorities (Climate Action, Biodiversity, Digital Agenda)

This presentation focuses on the opportunities available for research on **climate science**, but **climate action** covers a far larger range of research opportunities

**Budget for cross-cutting policy priorities**  
(budget in M EUR & share of total call budget)

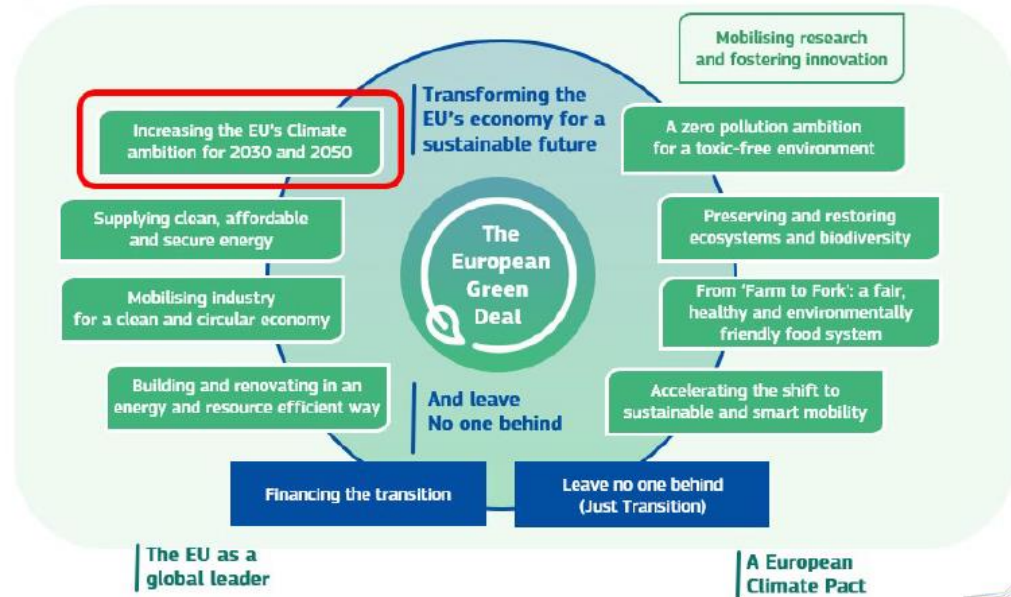


**Number of topics contributing to cross-cutting policy priorities**



# Climate science: providing evidence base for the European Green Deal

- European Climate Law:
  - 2050 climate-neutrality objective
  - 2030 target & Fit for 55
  - 2040 target
  - The EU Strategy on Adaptation to Climate Change
- Climate mainstreaming in other EU policies
- International climate diplomacy:
  - Paris Agreement:
    - GST2023, 2028
    - Post-2030 NDCs
    - Revision of long-term strategies...
  - G7, G20,...



# What do we expect from EU-funded climate science?

- Closing key knowledge gaps & building scientific consensus
- Keep contributing to IPCC & IPBES
- Generating policy-relevant insights to help navigate the transitions
- Guiding question: how do we move from awareness to action?
- More proactive relationship between science, policy & society needed to build support for paradigm shift
- Connecting natural science with SSH
- Communication & outreach beyond specialised audience

# Cluster 5 work programme – Overview

## Destination 1 – Climate science

Climate science

## Destination 2 – Cross-cutting solutions

Batteries

*[Batt4EU partnership]*

Other cross cutting issues

## Destination 3 – Energy supply

Renewable energy

Energy system, grids and storage

CCUS

## Destination 4 – Energy demand

Buildings

*[incl. Built4People partnership]*

Industry

## Destination 5 – Transport modes

Zero-emission road transport

*[2ZERO partnership]*

Aviation

Waterborne transport

*[incl. ZEWT partnership]*

Transport-related health and environmental issues

## Destination 6 – Transport and Smart Mobility services

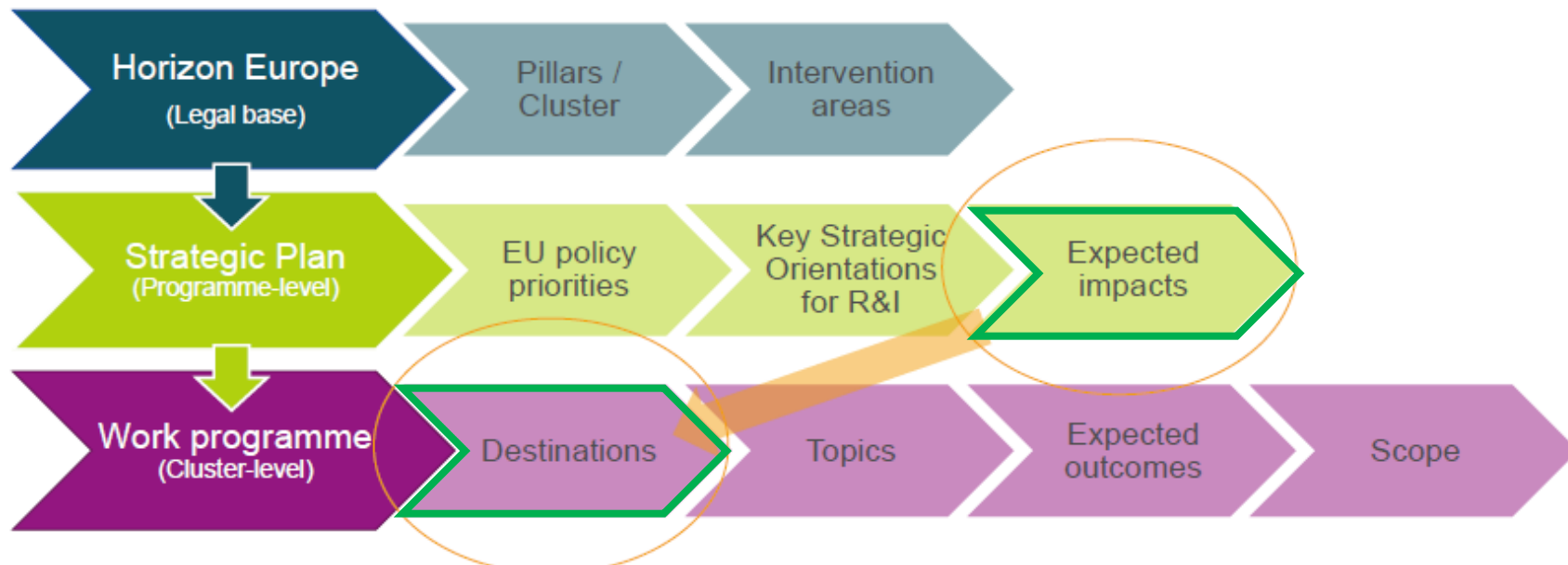
Connected, Cooperative and Automated Mobility

*[CCAM partnership]*

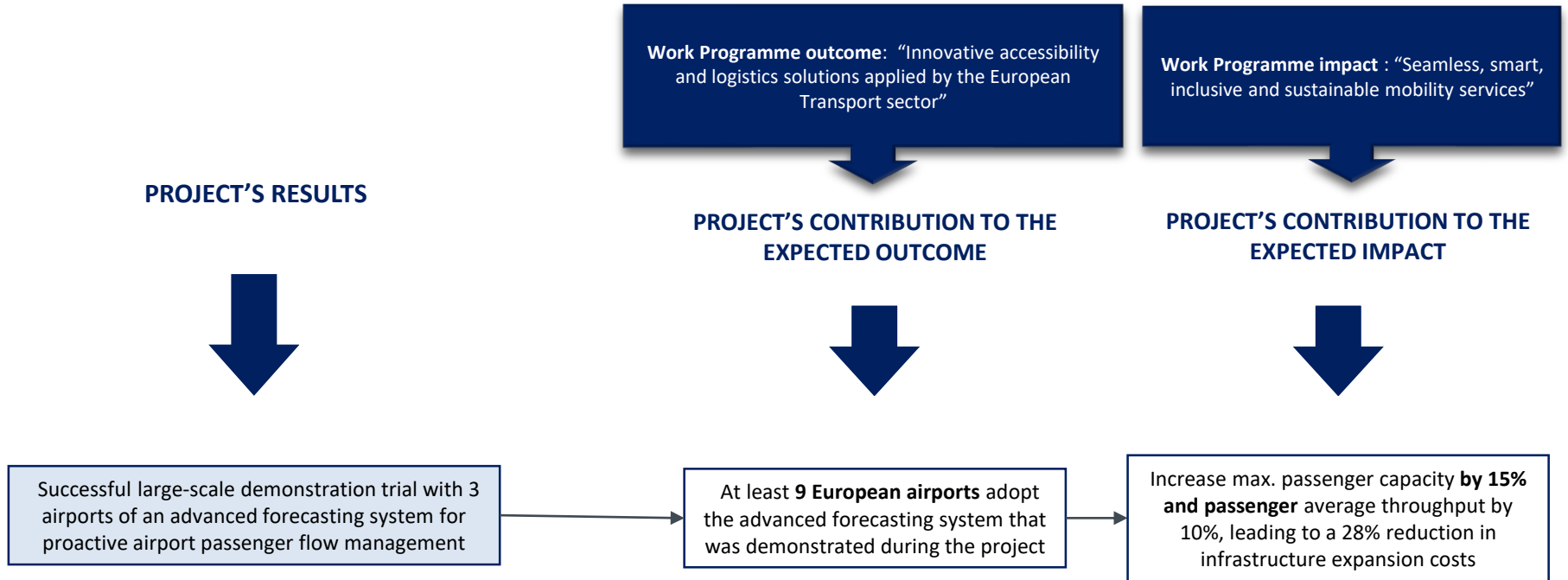
Multimodal and sustainable transport systems for passengers and goods

Safety and resilience

# Horizonte Europa – de la base legal al programa de trabajo



# Expected Outcomes and Impacts - Ejemplo



# HORIZON-CL5-2024-D1-01

Earth system science	
HORIZON-CL5-2024-D1-01-01	Enhanced quantification and understanding of natural and anthropogenic methane emissions and sinks
HORIZON-CL5-2024-D1-01-02	Inland ice, including snow cover, glaciers, ice sheets and permafrost, and their interaction with climate change
HORIZON-CL5-2024-D1-01-03	Paleoclimate science for a better understanding of the short- to long-term evolution of the Earth system
Climate change mitigation, pathways to climate neutrality	
HORIZON-CL5-2024-D1-01-04	Improved toolbox for evaluating the climate and environmental impacts of trade policies
HORIZON-CL5-2024-D1-01-05	Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement
HORIZON-CL5-2024-D1-01-06	The role of climate change foresight for primary and secondary raw materials supply
Climate-ecosystem interactions	
HORIZON-CL5-2024-D1-01-07	Quantification of the role of key terrestrial ecosystems in the carbon cycle and related climate effects



Opening: 12 Sep 2023

Deadline(s): 05 Mar 2024

HORIZON-CL5-2024-D1-01-01	RIA	15.00	Around 15.00	1
HORIZON-CL5-2024-D1-01-02	RIA	22.00	6.00 to 7.50	3
HORIZON-CL5-2024-D1-01-03	RIA	15.00	Around 15.00	1
HORIZON-CL5-2024-D1-01-04	RIA	12.00	Around 6.00	2
HORIZON-CL5-2024-D1-01-05	RIA	14.00	Around 4.50	3
HORIZON-CL5-2024-D1-01-06	RIA	5.00	Around 5.00	1
HORIZON-CL5-2024-D1-01-07	RIA	20.00	Around 10.00	2
Overall indicative budget		103.00		

# Earth system science

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**D1-01-01: Enhanced quantification and understanding of natural and anthropogenic methane emissions and sinks**



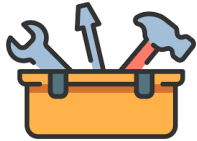
**D1-01-02: Inland ice, including snow cover, glaciers, ice sheets and permafrost, and their interaction with climate change**



**D1-01-03: Paleoclimate science for a better understanding of the short- to long-term evolution of the Earth system**

# Climate change mitigation, pathways to climate neutrality

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**D1-01-04: Improved toolbox for evaluating the climate and environmental impacts of trade policies**



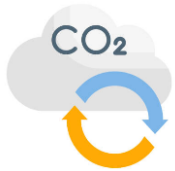
**D1-01-05: Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement**



**D1-01-06: The role of climate change foresight for primary and secondary raw materials supply**

# Climate-ecosystems interactions

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**D1-01-07: Quantification of the role of key terrestrial ecosystems in the carbon cycle and related climate effects**

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THE HORIZON EUROPE  
FRAMEWORK PROGRAMME



## Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment



# HORIZON EUROPE

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# Clúster 6, construyendo sobre Reto Social 2 y 5

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## Reto Social 2

Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the **Bioeconomy**



## Reto Social 5

Climate Action, **Environment**, **Resource Efficiency** and Raw Materials



## Industrial Leadership (NMBP)

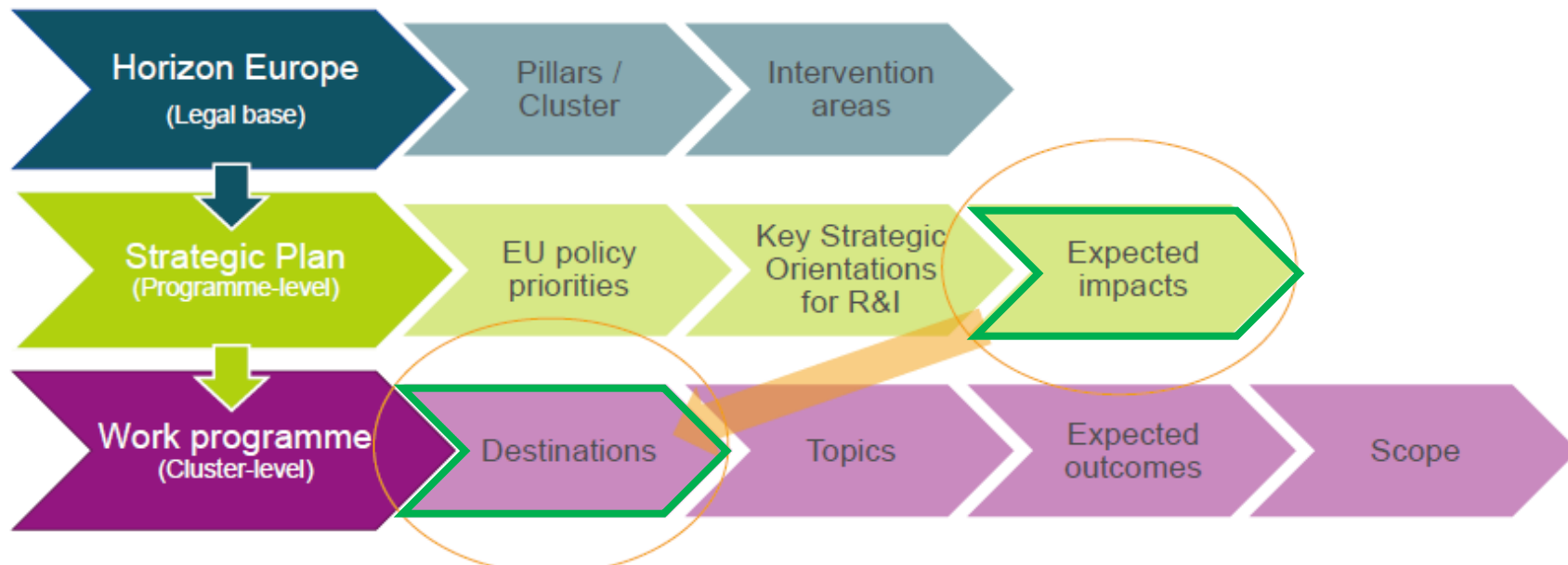
Nanotechnologies, Advance Materials, Advanced Manufacturing & Processing & **Biotechnology**



## Cluster 6

Food, Bioeconomy, Natural Resources, Agriculture and Environment

# Horizonte Europa – de la base legal al programa de trabajo






# De los expected impacts a los destinations...


## Strategic Plan

## Work Programme





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

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





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

**Destination 1: Biodiversity and ecosystem services**




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

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




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

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




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

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



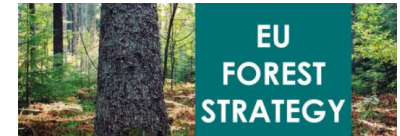
**Impact 6** Innovative governance models enabling sustainability, environmental observation

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



# Clúster 6, contribuyendo a políticas y estrategias

SUSTAINABLE DEVELOPMENT GOALS



# Convocatorias 2024 – apertura 17/10/2023

CALL 2024	Opening date	First stage closing date	Closing date/ second stage closing date	Buget (mio€)
HORIZON-CL6-2024-BIODIV-01	17/10/2023		22/02/2024	76
HORIZON-CL6-2024-FARM2FORK-01			22/02/2024	95
HORIZON-CL6-2024-CircBio-01			22/02/2024	74,5
HORIZON-CL6-2024-ZEROPOLLUTION-01			22/02/2024	38
HORIZON-CL6-2024-CLIMATE-01			22/02/2024	75
HORIZON-CL6-2024-COMMUNITIES-01			22/02/2024	15
HORIZON-CL6-2024-GOVERNANCE-01			28/02/2024	133,5
HORIZON-CL6-2024-BIODIV-02-two-stages	17/10/2023	22/02/2024	17/09/2024	36
HORIZON-CL6-2024-FARM2FORK-02-two-stages		22/02/2024	17/09/2024	69
HORIZON-CL6-2024-CircBio-02-two-stages		22/02/2024	17/09/2024	73
HORIZON-CL6-2024-ZEROPOLLUTION-02-two-stages		21/02/2024	17/09/2024	23
HORIZON-CL6-2024-COMMUNITIES-02-two-stages		22/02/2024	17/09/2024	22
				<b>730</b>



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## DESTINATION 1

# Biodiversity and Ecosystem Services



HORIZON-CL6-2024-BIODIV-01

Budget: 76mio€

17/10/2023 – 22/02/2024 (single stage)

2 IAs/7 RIAs



HORIZON-CL6-2024-BIODIV-02-two stage

Budget: 36mio€

17/10/2023 - 22/02/2024 (1<sup>st</sup> stage)-17/09/2024 (2<sup>nd</sup> stage)

2 IAs/ 1 RIA



# D1 Biodiversity and ecosystem services

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Understanding  
biodiversity decline



Managing biodiversity  
in primary production



Enabling transformative  
change on biodiversity



Interconnecting biodiversity  
research and supporting policies

# CALLS 2024 – BIODIVERSITY AND ECOSYSTEMS SERVICES



**Understanding and addressing the main drivers of biodiversity loss**



**Biodiversity protection and restoration**



**Mainstreaming biodiversity in society and economy**



**Biodiversity friendly practices in agriculture, forestry and aquaculture**

## HORIZON-CL6-2024-BIODIV-01

**01-1.** Invasive alien species

**01-2.** Digital for nature

**01-3.** Dependence of society and the economy on pollinators

**01-4.** Biodiversity, economics and finance: Understanding macro-financial risks associated with biodiversity loss

**01-5.** Transformative action of policy mixes, governance and digitalisation addressing biodiversity loss

**01-6.** Promoting pollinator friendly farming systems

**01-7.** Reintroduction of landscape features in intensive agricultural areas

**01-8.** Conservation and protection of carbon-rich and biodiversity-rich forest ecosystems

**01-9.** Selective breeding programme for organic aquaculture

## HORIZON-CL6-2024-BIODIV-02 two stages

**02-1.** 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

**02-2.** Demonstrating the potential of Nature-based Solutions and the New European Bauhaus to contribute to sustainable, inclusive and resilient living spaces and communities

**02-3.** Promoting minor crops in farming systems



## DESTINATION 2

# Fair, healthy and environmentally-friendly food systems from primary production to consumption



HORIZON-CL6-2024-FARM2FORK-01

Budget: 95mio€

17/10/2023 – 22/02/2024 (single stage)

2 IAs / 8 RIAs /1 CSA



HORIZON-CL6-2024-FARM2FORK-02-two stages

Budget: 69mio€

17/10/2023 - 22/02/2024 (1<sup>st</sup> stage)-17/09/2024 (2<sup>nd</sup> stage)

5IAs / 2 RIAs

# D2 Friendly food systems

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Enabling  
sustainable  
farming



Enabling sustainable  
fisheries and  
aquaculture



Transforming food  
systems for health,  
sustainability and  
inclusion



Targeted  
international  
cooperation



# CALLS 2024 – FAIR, HEALTHY AND ENVIRONMENT-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION



## Enabling sustainable farming systems

### HORIZON-CL6-2024-FARM2FORK-01

01-1. Agro-pastoral/outdoor livestock systems and wildlife management



## Enabling sustainable fisheries and aquaculture

01-2. New healthy and sustainable food products and processes

01-3. Thematic network tackling food fraud by translating research and innovation into practice

01-4. Climate change and food safety: effects of climate change on food safety across food systems

01-5. Creating smart and attractive tools to enhance healthy and sustainable food provision, eating and treating of food at home

01-6. Citizens' science as an opportunity to foster the transition to sustainable food systems

01-7. Impact of the development of novel foods based on alternative sources of proteins

01-8. Preventing and reducing food waste to reduce environmental impacts and to help reach 2030 climate targets

01-9. Microbiome for flavour and texture in the organoleptic dietary shift

01-10. EU-AU cooperation on agroforestry management for climate change adaptation and mitigation

01-11. EU-African Union – towards climate-neutral, social just fair trade food systems



## Transforming food systems for health, sustainability and inclusion



## Targeted international cooperation

### HORIZON-CL6-2024-FARM2FORK-02-two-stage

02-1. Increasing the availability and use of non-contentious inputs in organic farming

02-2. Sustainable organic food innovation labs: reinforcing the entire value chain

02-3. Tools to increase the effectiveness of EU import controls for plant health

02-4. Tackling outbreaks of plant pests

02-5. Animal nutritional requirements and nutritional value of feed under different management conditions

02-6. Minimising climate impact on fisheries: mitigation and adaptation solutions for future climate regimes

02-7. Minimising climate impact on aquaculture: mitigation and adaptation solutions for future climate regimes



## DESTINATION 3

# Circular economy and bioeconomy sectors



HORIZON-CL6-2024-CircBio-01

Budget: 74,5mio€

17/10/2023 – 22/02/2024 (single stage)

4 las / 2 RIAs / 4 CSAs



HORIZON-CL6-2024-CircBio-02-two stages

Budget: 73mio€

17/10/2023 - 22/02/2024 (1<sup>st</sup> stage)-17/09/2024 (2<sup>nd</sup> stage)

4 las / 2 RIAs

# D3 Circular economy and bioeconomy sectors

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Enabling a  
circular economy  
transition



Innovating  
sustainable bio-  
based systems  
and the  
bioeconomy



Innovating for  
blue bioeconomy  
and  
biotechnology  
value chains

# CALLS 2024 – CIRCULAR ECONOMY AND BIO-BASED SYSTEMS

## HORIZON-CL6-2024-CircBio-01

- 01-1.** Circular Cities and Regions Initiative's project development assistance (CCRI-PDA)
- 01-2.** Circular solutions for textile value chains based on extended producer responsibility
- 01-3.** Innovative circular solutions for furniture
- 01-4.** Systemic circular solutions for a sustainable tourism
- 01-5.** Programmed biodegradation capability of bio-based materials and products, validated in specific environments including extreme environments
- 01-6.** Digital information systems for bio-based products
- 01-7.** Demonstrating the fair and just transition from GHG-intensive economies facing challenges towards circular bioeconomy model regions
- 01-8.** Bioeconomy project development assistance
- 01-9.** Circular bioeconomy start-up villages

- 01-10.** Targeting aquatic extremophiles for sourcing novel enzymes, drugs, metabolites and chemicals

## HORIZON-CL6-2024-CircBio-02-two-stage

- 02-1.** Circular solutions for textile value chains through innovative sorting, recycling, and design for recycling
- 02-2.** Increasing the circularity in plastics value chains
- 02-3.** Increasing the circularity in electronics value chains
- 02-4.** New circular solutions and decentralised approaches for water and wastewater management
- 02-5.** Circular design of bio-based technologies and products
- 02-6.** From silos to diversity – small-scale bio-based demonstration pilots



**Enabling a circular economy transition**



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



**Innovating for blue bioeconomy and biotechnology value chains**



## DESTINATION 4

# Clean environment and zero pollution



HORIZON-CL6-2024-ZEROPOLLUTION-01

Budget: 38mio€

17/10/2023 – 22/02/2024 (single stage)

1 RIA / 1 IA / 1 CSA



HORIZON-CL6-2024-ZEROPOLLUTION-02-two stages

Budget: 23mio€

17/10/2023 - 22/02/2024 (1<sup>st</sup> stage)-17/09/2024 (2<sup>nd</sup> stage)

1 RIA / 1 IA

# D4 Clean environment and zero pollution

---



Halting emissions of pollutants to soils and waters



Protecting drinking water and managing urban water pollution



Reducing the environmental impact and pollution and food systems



Increasing environmental performances and sustainability of processes and products

# CALLS 2024 – CLEAN ENVIRONMENT AND ZERO POLLUTION



**Halting pollution of air, soil and water**



**Protecting drinking water and managing urban water pollution**



**Increasing environmental performances of bio-based processes**



**Reducing the environmental impact and pollution of food systems**

## HORIZON-CL6-2024-ZEROPOLLUTION-01

**01-1.** Demonstrating how regions can operate within safe ecological and regional nitrogen and phosphorus boundaries

**01-2.** Best available techniques to recover or recycle fertilising products from secondary raw materials

## HORIZON-CL6-2024-ZEROPOLLUTION-02- two stages

**02-1.** Holistic approaches for effective monitoring of water quality in urban areas

**02-2.** Innovative technologies for zero pollution, zero-waste biorefineries

**02-3.** Environmental impacts of food systems

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## DESTINATION 5



# Land, oceans and water for climate action



HORIZON-CL6-2024-CLIMATE-01

Budget: 75mio€

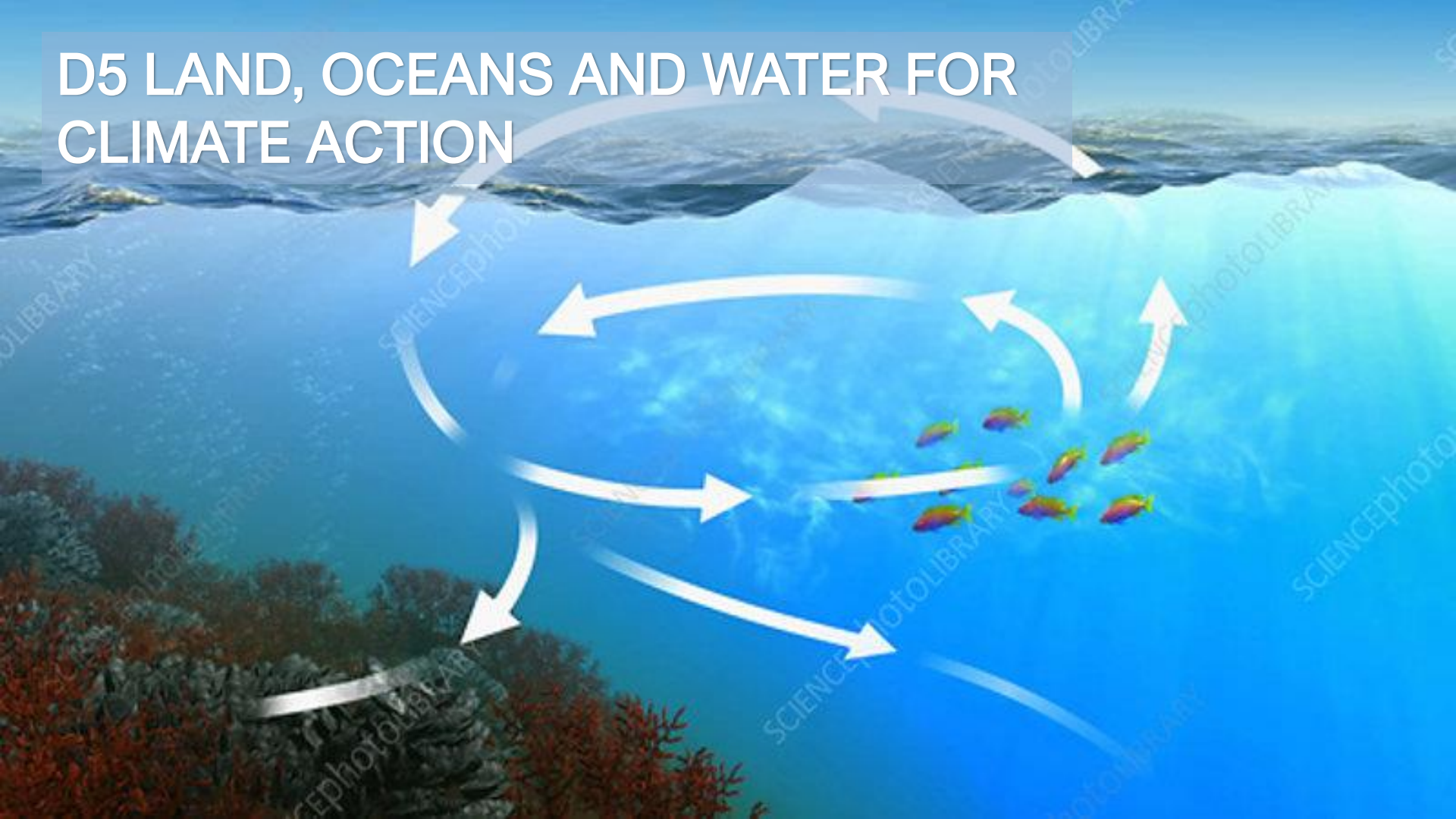
17/10/2023 – 22/02/2024 (single stage)

2 IAs / 5 RIAs





# D5 LAND, OCEANS AND WATER FOR CLIMATE ACTION



# CALL 2024 – LAND, OCEAN AND WATER FOR CLIMATE ACTION

**01-1.** Improving irrigation practices and technologies in agriculture

**01-2.** Socio-economic, climate and environmental aspects of paludiculture

**01-3.** Paludiculture: large-scale demonstrations

**01-4.** Land use change and local / regional climate

**01-5.** Climate-smart use of wood in the construction sector to support the New European Bauhaus

**01-6.** Ocean models for seasonal to decadal regional climate impacts and feedbacks

**01-7.** EU-China international cooperation on improving monitoring for better integrated climate and biodiversity approaches, using environmental and Earth observation





## DESTINATION 6

# Resilient, inclusive, healthy and green rural, coastal and urban communities



HORIZON-CL6-2024-COMMUNITIES-01

Budget: 15mio€

17/10/2023 – 22/02/2024 (single stage)

1 IAs / 2RIAs



HORIZON-CL6-2024-COMMUNITIES-02-two stages

Budget: 22mio€

17/10/2023 - 22/02/2024 (1<sup>st</sup> stage)-17/09/2024 (2<sup>nd</sup> stage)

2 IAs

**D6 RESILIENT, INCLUSIVE, HEALTHY AND GREEN  
RURAL, COASTAL AND URBAN COMMUNITIES**



# CALL 2024 - RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES

## HORIZON-CL6-2024-COMMUNITIES-01

**01-1.** Unlock the potential of the New European Bauhaus in urban food system transformation

**01-2.** Societal perceptions and benefits of rural life and jobs: will COVID 19 generate a long-lasting shift?

**01-3.** Participation and empowerment of Arctic coastal, local, and indigenous communities in environmental decision-making

## HORIZON-CL6-2024-COMMUNITIES-02-two-stage

**02-1.** Innovating for climate-neutral rural communities by 2050

**02-2.** New sustainable business and production models for farmers and rural communities





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## DESTINATION 7

# Innovative governance, environmental observations and digital solutions in support of the Green Deal



- HORIZON-CL6-2024-GOVERNANCE-01
- Budget: 133,5mio€
- 17/10/2023 – 22/02/2024 (single stage)
- 2 RIAs / 8 CSAs / 1 PCP / 1 Co-fund

# D7 Digital solutions in support of the Green Deal

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Innovating with  
governance  
models and  
support



Deploying and  
adding value to  
Environmental  
Observations



Digital and data  
technologies as key  
enablers



Strengthening  
agricultural  
knowledge and  
innovation  
systems

# CALL 2024 - INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL



## Innovating with governance models and supporting policies

- 01-1.** European Partnership for a climate neutral, sustainable and productive Blue Economy (second instalment)
- 01-2.** Regional ecosystems of innovation to foster food system transformation
- 01-3.** The role of mainstream media, social media and marketing in fostering healthy and sustainable consumption patterns and how to encourage good practices



## Deploying and adding value to Environmental Observations

- 01-5.** Customisation/pre-operationalisation of prototypes end-user services in the area Climate Change Adaptation and Mitigation
- 01-6.** Develop innovative applications to support the European Green Deal, building on meteorological satellite data



## Digital and data technologies as key enablers

- 01-7.** Enhancing working conditions and strengthening the work force through digital and data technologies – the potential of robotics and augmented reality in agriculture



## Strengthening agricultural knowledge and innovation systems

- 01-8.** Broaden EIP Operational Group outcomes across borders by means of thematic networks to compile and share knowledge ready for practice
- 01-10.** Thematic networks to compile and share knowledge ready for practice
- 01-11.** Biodiversity thematic networks to compile and share knowledge ready for practice
- 01-12.** Developing EU advisory networks on forestry
- 01-13.** Developing EU advisory networks on sustainable livestock systems



# Multiactor approach en Horizonte Europa

## Interactive innovation model

→ *multi-actor approach*



*“We do not only do R&I for practitioners,  
but also **with** practitioners.”*

*– Commissioner Janusz Wojciechowski*

Practitioners (end-users) are put at the center of the R&I activities all over the whole course of the project.

- ✓ *their **practical expertise** is used to co-create innovative solutions;*
- ✓ *it makes them **co-owner** of the results;*
- ✓ *they **implement** them in practice;*
- ✓ *they **share** them in peer-to-peer meetings*

In this way we can achieve much quicker and bigger impact in practice!

# ¿Por qué el MAA es importante?

El enfoque multi-actor es un “**criterio de elegibilidad**”

El **49% de los topics** de las convocatorias 2024 del Clúster 6 son MAA (37 de 76).  
Afecta a IAs, RIAs, CSAs y Co-fund.

<i>Eligibility conditions</i>	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>The following <b>additional eligibility criteria apply</b>: <b>The proposals must use the multi-actor approach</b>. See definition of the multi-actor approach in the introduction to this work programme part.</p>
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Convocatorias 2024  
Topics MAA por Destination

Destination	N topics	MAA
D1 Biodiversity	12	1
<b>D2 Farm2fork</b>	<b>18</b>	<b>13</b>
D3 CircBio	16	4
D4 Zeropollution	5	1
D5 Climate	7	4
<b>D6 Communities</b>	<b>5</b>	<b>4</b>
<b>D7 Governance</b>	<b>13</b>	<b>10</b>



EUROPEAN UNION

# EU MISSIONS



**Concrete solutions for our greatest challenges**

#EUmissions #HorizonEU

# CINCO ÁREAS MISIONES-MISIONES

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Adaptation to  
Climate Change



Cancer



Climate-neutral  
and Smart Cities



Soil Deal  
for Europe



Restore our  
Ocean and  
Waters



**Mission**

**Adaptation to climate change**

# Misión Adaptación al cambio climático

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# Mission Soil Deal for Europe



# Living Labs and Lighthouses

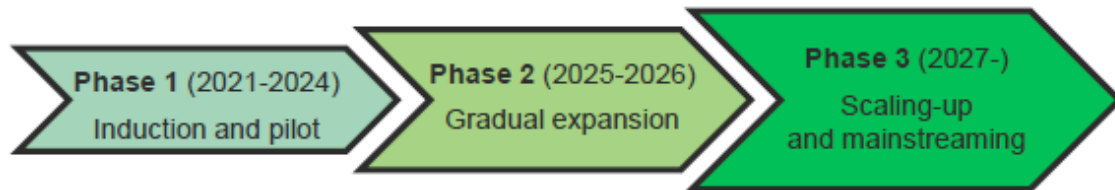
## Living labs are a core element of the mission

- They are real-life sites in rural or urban areas in which people from various sectors and backgrounds experiment and test solutions in a co-creative manner.
- Each living lab is composed of about 10-20 sites (e.g. farms, forest stands, urban green areas) working together at regional or sub-regional level.

## Lighthouses are sites of exemplary performance with regards to a certain practice

- They are individual sites, such as a single farm, to showcase good practices.
- They are places for demonstrations, training and communication.

## Network of 100 Living labs and lighthouses to be built up gradually.



Living labs and lighthouses are key to accelerate the adoption of sustainable practices by users and co-developed methods adapted to the local conditions.



A photograph of an offshore wind farm. The image shows several white wind turbines with three blades each, mounted on yellow and white support structures. They are situated in a vast, dark blue ocean under a bright blue sky with scattered white clouds. The perspective is from a low angle, looking across the water towards the horizon where the turbines are visible. The text 'Mission Restore our Ocean and Waters by 2030' is overlaid in the top right corner in a bold, dark blue font.

**Mission  
Restore our Ocean and  
Waters by 2030**



EUROPEAN UNION

**Mission lighthouses:**  
spaces of transformation to pilot, demonstrate, develop and deploy the Mission activities across EU

Baltic & North sea basin



**MAKE THE BLUE ECONOMY CARBON-NEUTRAL AND CIRCULAR**

Mediterranean sea basin



**PREVENT AND ELIMINATE POLLUTION OF OUR OCEAN, SEAS AND WATERS**

Danube river basin



**PROTECT AND RESTORE MARINE AND FRESHWATERS ECOSYSTEMS AND BIODIVERSITY**

Atlantic & Arctic coast



# PARTNERSHIPS FOR HORIZON EUROPE



# Co-funded partnerships in Cluster 6

**Destination 1 –  
Biodiversity and  
ecosystem services**

**Biodiversa+**

**Destination 2 – Fair, healthy  
and environment-friendly  
food systems from primary  
production to consumption**

**Agroecology**

**Animal Health and  
Welfare**

**Sustainable Food  
Systems**

**Destination 5 – Land,  
ocean and water for  
climate action**

**Water 4 All**

**Destination 7 – Innovative  
governance, environmental  
observations & digital  
solutions for the Green Deal**

**Agriculture of  
Data**

**Sustainable Blue  
Economy**

**Biodiversa+, Water4All, SBEP → launched in WP 2021-2022**

**Agroecology, PAHW, Sustainable Food Systems & Agriculture of Data**

**WP 2023-2024**

# PRIMA (Research and Innovation in the Mediterranean Area)

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## SECTION 1

### THEMATIC AREAS



Management of water



Farming systems



Agro-food value chain



WEFE Nexus

## EU FUNDS

## SECTION 2

### THEMATIC AREAS:



Management of water



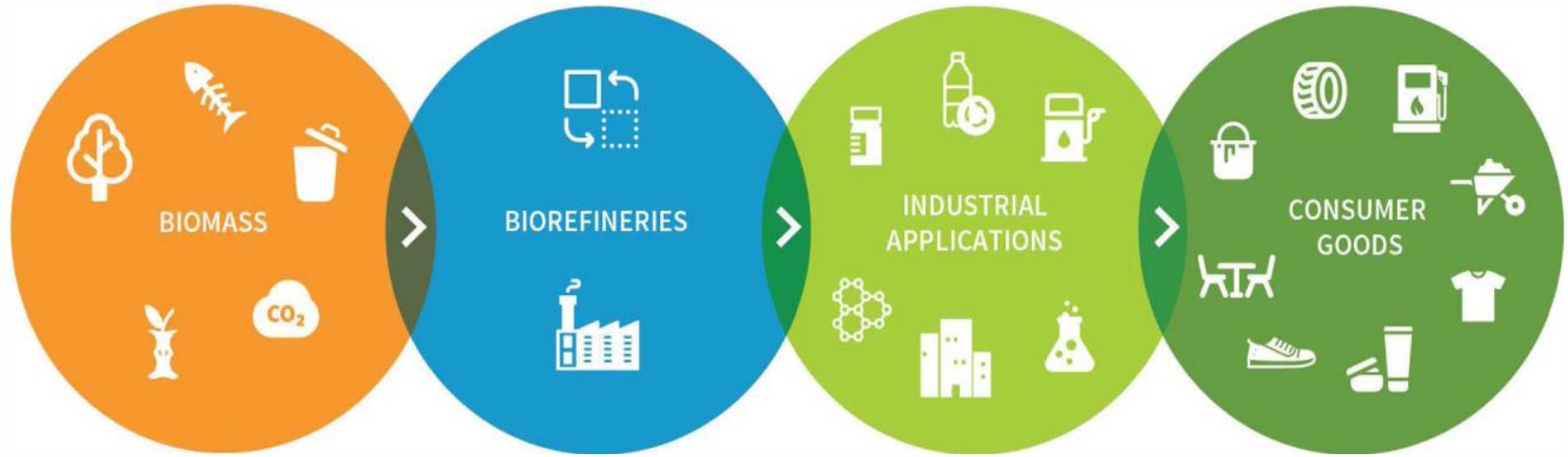
Farming systems



Agro-food value chain

## PRIMA PS

# CBE: Creando cadenas de valor de base biológica



- Waste streams
- Municipal organic waste
- By-products & side-streams
- Forestry side-streams
- Dedicated agricultural crops and residues
- Aquatic biomass
- Food processing residues
- Process and waste water
- CO<sub>2</sub>

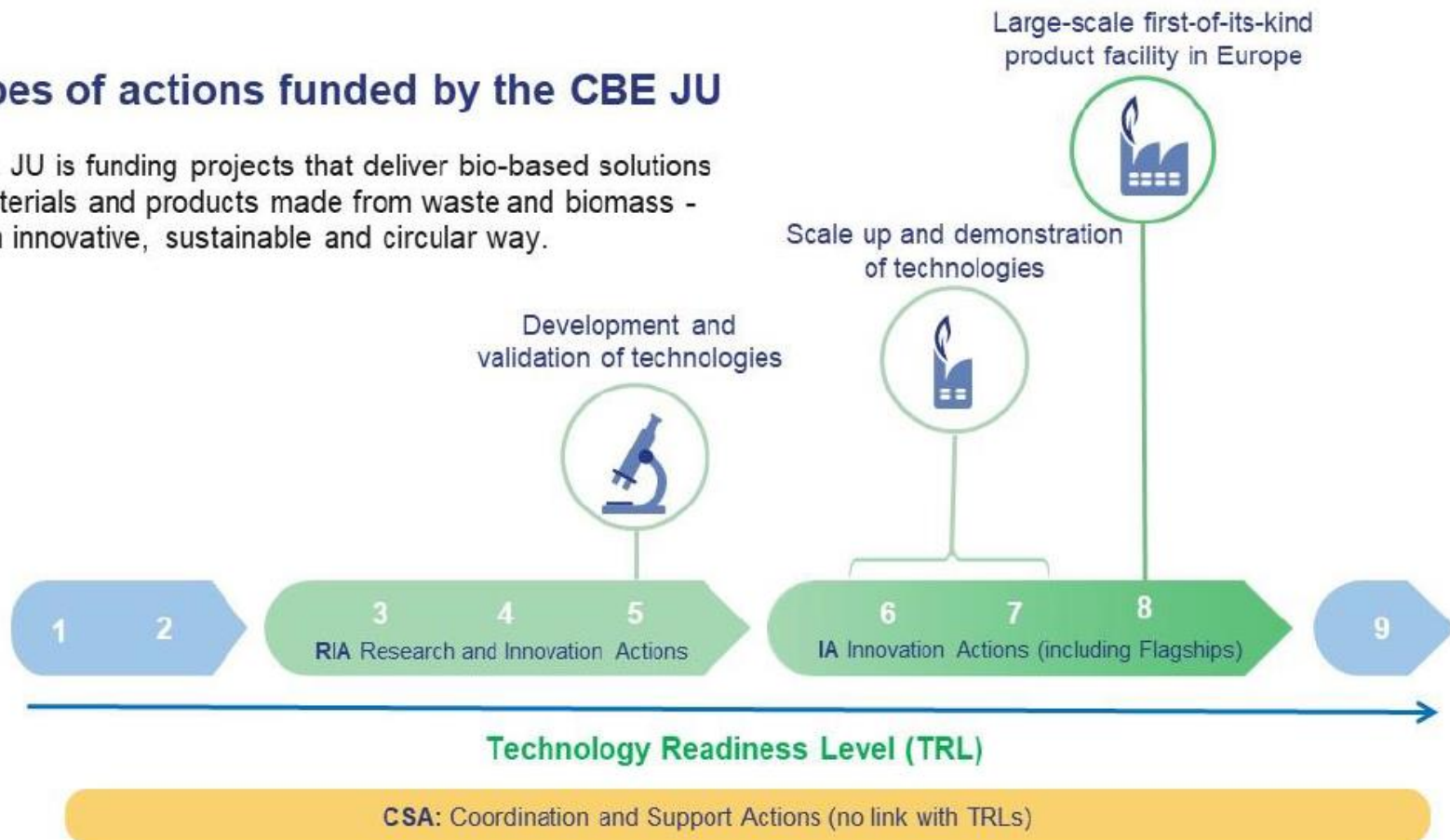
- (Pre-) treatment
- Transformation

- Bioplastics
- Building blocks
- Biopolymers
- Surfactants
- Active ingredients
- Biomaterials
- Biolubricants

- Biofuels
- Textiles
- Packaging
- Solvents
- Furniture
- Personal care
- Construction materials
- Pharmaceuticals
- Clothing
- Car components

## Types of actions funded by the CBE JU

CBE JU is funding projects that deliver bio-based solutions - materials and products made from waste and biomass - in an innovative, sustainable and circular way.







# Calendario y eventos de interés hasta el cierre de convocatorias

1 26 a 28 sept



Brokerage event 26/09/2023. **Abierto hasta 25/12**  
Infoday CE C6 27 y 28/09/2023; C5 17/10/2023

2 C5 12/09  
C6 17/10



Apertura de las convocatorias

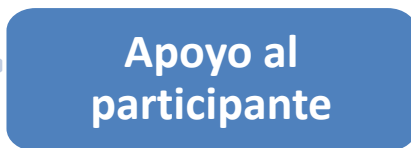
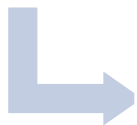
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/horizon>

3 26 octubre 2023  
y hasta fin de  
año



Infoday nacional CL6 y CL5-Clima -online 26/10/2023  
[https://eventos.cdti.es/ES/INFODAY\\_CLUSTER6\\_CL5CLIMA\\_2024](https://eventos.cdti.es/ES/INFODAY_CLUSTER6_CL5CLIMA_2024)  
Infodays regionales

4 hasta el cierre



Taller de coordinadores presencial en  
CDTI (18/01/2024)

# 2 eventos clave



Reabierto registro y matchmaking  
online hasta el 25/12!!

<https://he-2024-cluster6.b2match.io/>



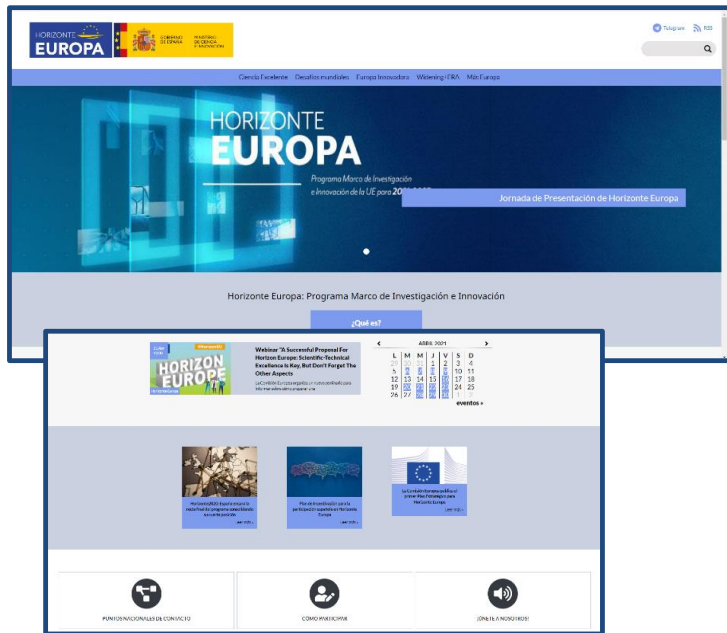
Disponibles grabaciones y  
presentaciones. Sesión Q&A

[Events | The research and innovation  
community platform \(europa.eu\)](#)

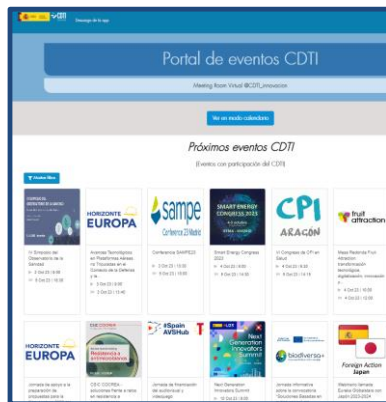
[Infoday Clúster 5](#)

# Portal español de Horizonte Europa y nueva web CDTI

<https://www.horizonteeuropa.es/>



**Nueva web cdti:** [www.cdti.es](http://www.cdti.es) , con acceso al portal de eventos CDTI y las nuevas listas de distribución



<https://eventos.cdti.es/>



## PROGRAMA MARCO - HORIZONTE EUROPA

Listas relacionadas con el Programa Marco de I+D+i de la UE, Horizonte Europa, y las temáticas gestionadas por CDTI

Clúster 6 - Alimentación, Bioeconomía, Recursos Naturales, Agricultura y Medioambiente

Programa Marco: Bioeconomía y Medioambiente

Información sobre el Clúster 6 de HE, CBE y otras iniciativas UE relacionadas

# GREENET, Red de NCPs de Clúster 5



<https://horizoneuropencpportal.eu/cluster-5>



[GREENET newsletter](#)  
[@NCP\\_GREENET](#)

## GREENET Partner Search Tool

An online database that manages Cluster 5 networking opportunities.

<https://greenet-partner-search-tool.b2match.io/>

The GREENET Partner Search Tool brings together organisations (Coordinators as well as partners) from across the world. This is a unique opportunity to generate new contacts and collaborate on potential Horizon Europe projects. Meetings will take place in a dedicated area and will be arranged in advance by means of this website throughout the whole year (2023).

The second purpose of the Greenet platform is online events. Stay updated with our online events by checking out the "Events" tab.



## GREENET - Network of NCPs for Cluster 5

GREENET is the international network of **National Contact Points (NCPs) for Cluster 5 "Climate, Energy and Mobility"**, supporting research and innovation activities for the Horizon Europe Framework Programme. The GREENET network consists of 19 partner organisations from different EU Member States and Associated Countries.



Partner Search



Open Calls



Useful Tools



Upcoming Events

# CARE4BIO, Red de NCPs de Clúster 6



[CARE4BIO](#) ▾ [Find your NCP](#) [Activities](#) ▾ [News](#) [Repository](#) [Funding opportunities](#) [Subscribe to newsletter!](#)



CARE4BIO is here to service your specific needs in all matters related to Cluster 6.

CARE4BIO consists of 26 partners around Europe willing to assist you in your Cluster 6 related endeavor.

Here you will find valuable information, material, seminars, workshops and contact information all in one place.

CARE4BIO site will keep its audience well informed on all publications & news items related to Cluster 6 from the European Commission.

**Bookmark this page to stay engaged and don't forget to sign up for the newsletter!**

# El proceso de participación



LA IDEA



CONVOCATORIA



EL CONSORCIO



LA PROPUESTA



PROYECTO



EL ACUERDO



EVALUACIÓN



EL ENVÍO



REVISION

# El equipo de apoyo al participante. Clúster 5-Clima

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GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE CIENCIA  
E INNOVACIÓN



# NCPs del Clúster 6

## Puntos nacionales de contacto

Alimentación, Bioeconomía, Recursos Naturales, Agricultura y Medioambiente



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**@CDTI\_innovacion**

# Conclusiones

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**Deadlines C5-Clima 5/03/2024**

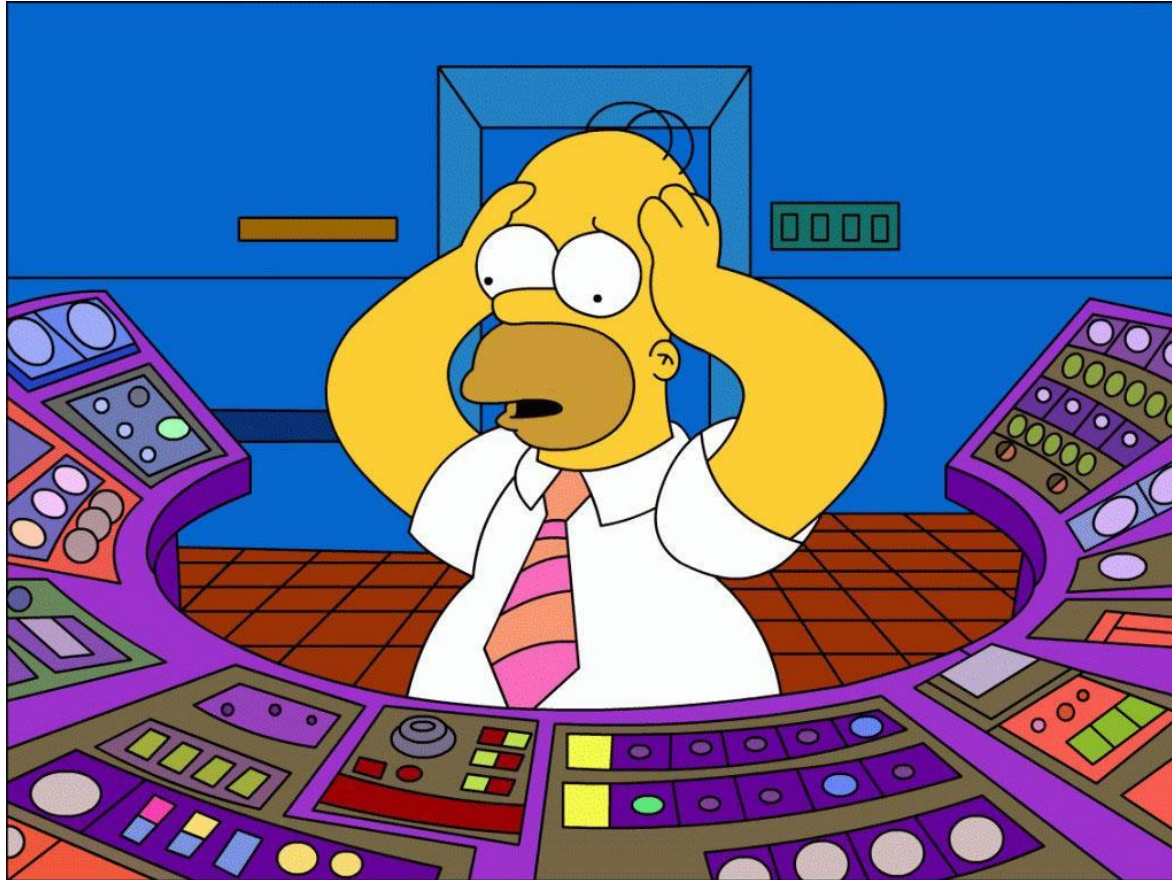
**C6: 21-22 y 28/02/2024 – 17/09/2024 second stage**

**WP Clúster + WP misiones + partenariados**

**Leer documentos de políticas relacionadas**

# Turno de preguntas

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+ info sobre programas y ayudas  
para la  
internacionalización de la I+D+I española



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