

#innovacion  
#ayudascdti  
#asesoramiento  
#internacionalizacion



Jornada anual  
2024



# Economía Circular – Horizonte Europa



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13 / noviembre / 2024



# EU Research and Innovation Framework Programmes



# Algunos detalles....

Presupuesto  
≈ 95.500 M€

Foco en los Retos  
Globales y en el  
Impacto

Prioridades, Políticas,  
Compromisos de la UE

Diferentes tipos de  
proyectos (RIAs, IAs,  
CSAs, PCPs,....)

Programas de Trabajo/  
**Partenariados /  
Misiones**

Financiación para todo tipo  
de entidades (OPs, Univs.,  
Empresas, Admin....)



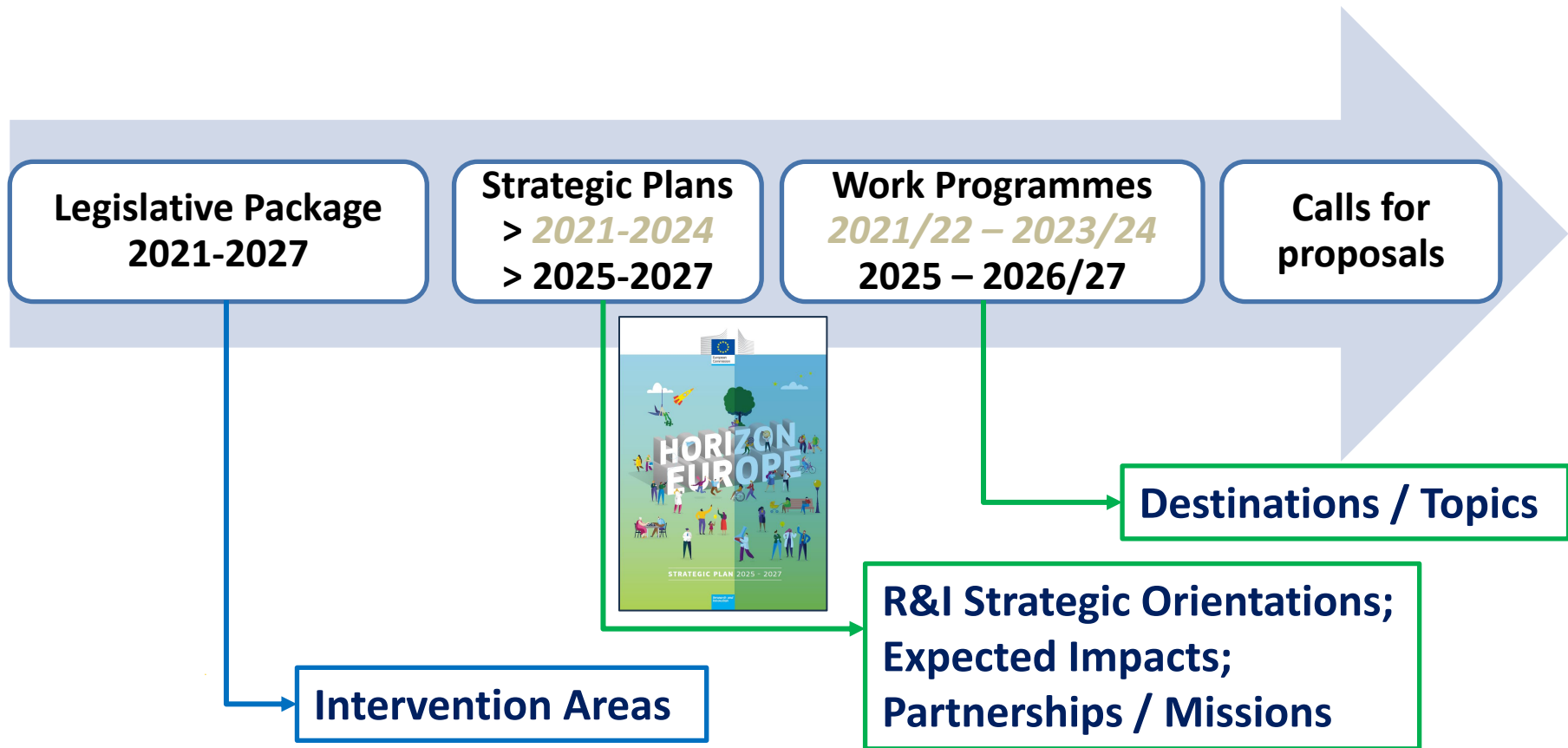
“Topics” definidos  
 (“top-down”)\*

> 100% for non-profit entities  
> 100%-70% for for-profit entities  
(depending on Type of Action)

Cooperación  
Internacional

Proyectos en Colaboración\*  
(min. 3 entidades independientes  
de 3 MSs / Acs)

# HE: de la Base Legal al Programa de Trabajo



# Horizon Europe: Strategic Plan 2025-2027\*

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## Key Strategic Orientations (KSOs) for R&I:

- The Green Transition
- The Digital Transition
- A more Resilient, Competitive, Inclusive, and Democratic Europe

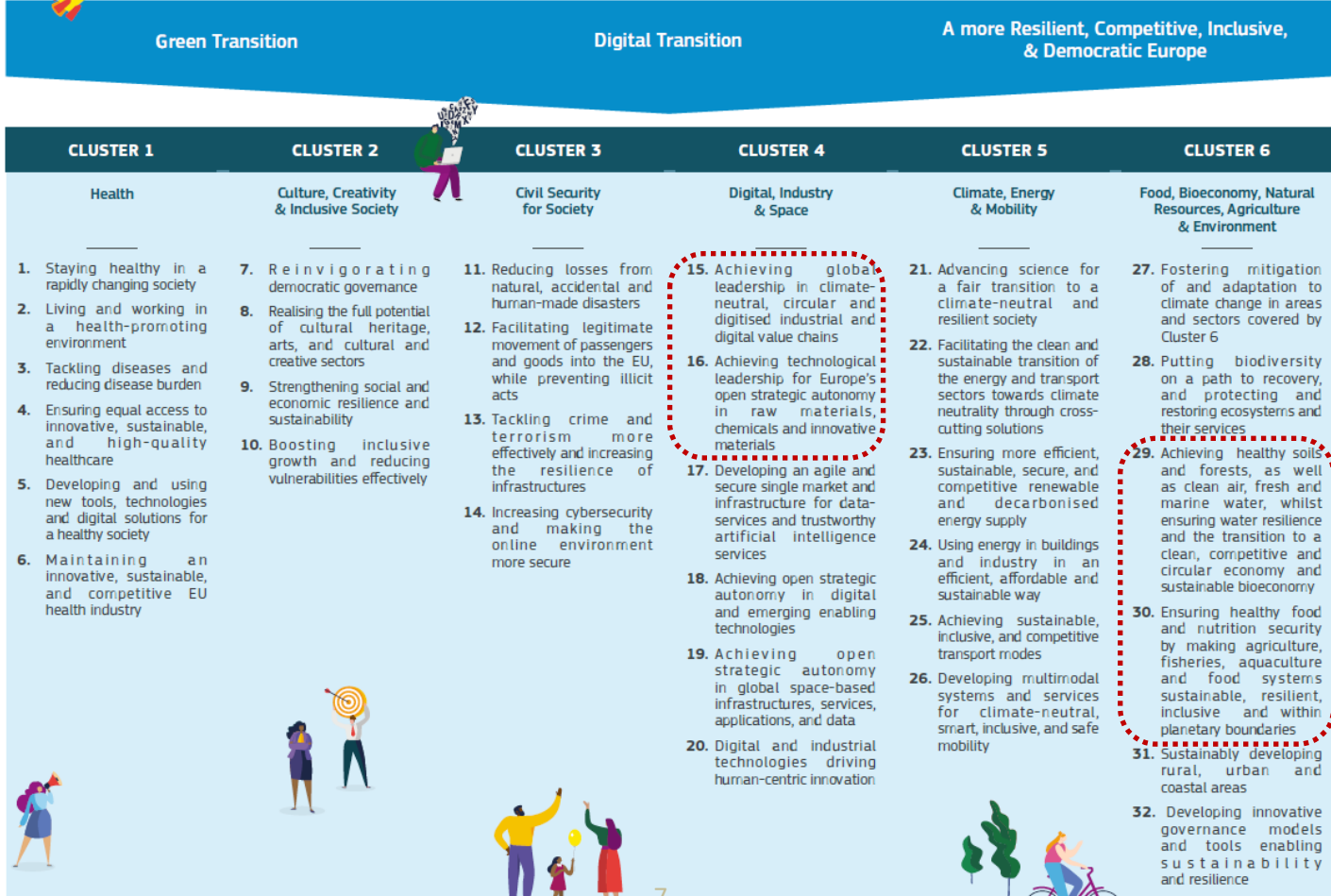
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[https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/strategic-plan\\_en](https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/strategic-plan_en)

# Horizon Europe: Strategic Plan 2025-2027\*

Expected Impacts

KSOs



# Presupuesto Horizonte Europa (2021 – 2027)

PILAR 1 – CIENCIA EXCELENTE		PILAR 2 - RETOS MUNDIALES Y COMPETITIVIDAD INDUSTRIAL EUROPEA		PILAR 3 – EUROPA INNOVADORA	
25.011		53.516		13.597	
ERC - Consejo Europeo de Investigación	16.004	Clúster 1 - Inteligencia Artificial, robótica y tecnologías emergentes	8.246	Consejo Europeo de Investigación	10.105
MSCA - Acciones Marie Skłodowska-Curie	6.602	Clúster 3 - Seguridad	1.590	Ecosistemas de innovación europea	527
		Clúster 4 - Digital, industria y espacio	15.349	EIT - Instituto Europeo de Innovación y Tecnología	2.965
		Clúster 5 - Clima, energía y movilidad	15.123		
Infraestructuras de investigación	2.406	Clúster 6 - Alimentación, bioeconomía recursos naturales, agricultura y medio ambiente	8.952	JRC – Centro Común de Investigación	1.970

**Misiones**

**Partenariados**

<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

\* Presupuesto en M€ (precios corrientes)

\*\* Fondos de NextGenerationEU incluidos



# 2024-2029: Nuevo periodo político, estrategia y prioridades



The strategic agenda of the European Council sets the EU's priorities and its strategic orientations for the institutional cycle 2024-2029. As such, it guides the work of the EU institutions.

**Jun/2024**



**EUROPE'S CHOICE  
POLITICAL  
GUIDELINES FOR THE  
NEXT EUROPEAN  
COMMISSION  
2024-2029**

Ursula von der Leyen  
Candidate for the  
European Commission  
President

**Jul/2024**



# Agenda estratégica del Consejo Europeo (2024-2029)



## Strategic Agenda 2024-2029

### A free and democratic Europe

Upholding European values within the Union

Living up to our values at global level

### A strong and secure Europe

Ensuring coherent and influential external action

Strengthening our security and defence and protecting our citizens

Preparing for a bigger and stronger Union

Pursuing a comprehensive approach to migration and border management

### A prosperous and competitive Europe

Bolstering our competitiveness

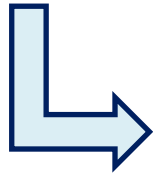
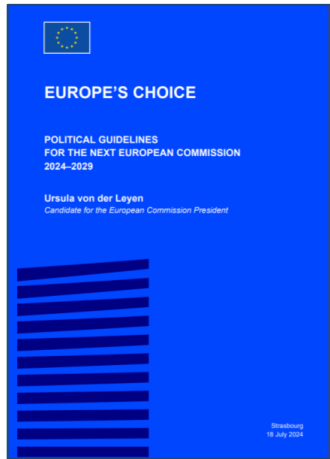
Making a success of the green and digital transitions

Promoting an innovation- and business-friendly environment

Advancing together



# Nueva Comisión: Guía Política 2024-2029



## We need a new European Prosperity Plan to:

- Make business easier and deepen our Single Market;
- Build a Clean Industrial Deal to decarbonise and bring down energy prices;
- **Put research and innovation at the heart of our economy;**
- Boost productivity with digital tech diffusion;
- Invest massively in our sustainable competitiveness;
- Tackle the skills and labour gap



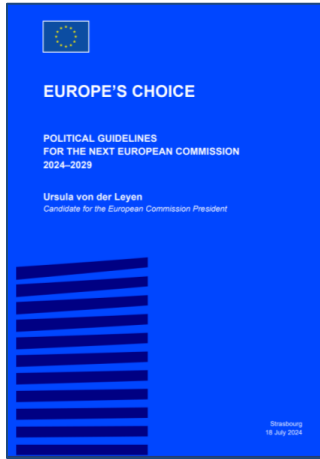
# Nueva Comisión: Guía Política 2024-2029

Clean Industry Deal

A more circular  
and resilient  
Economy

European Biotech Act  
(2025) → European  
Life Strategy

- New European Competitiveness Fund
- IPCEIs



**Europe's competitiveness – and  
its position in the race to a  
clean and digital economy –**

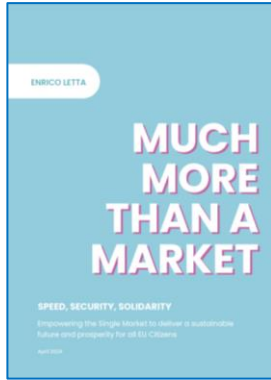
Regions will remain at  
the centre of new  
Commission's work

Vision for Agriculture and Food

European Water  
Resilience Strategy

European Climate  
Adaptation Plan

# Informes “destacables” para el futuro EU y....de HE



## Much More Than A Market Speed, Security, Solidarity

Empowering the Single Market to deliver a sustainable future and prosperity for all EU Citizens

**Enrico Letta**

April 2024



## The future of European competitiveness

Part A | A competitiveness strategy for Europe

Part B | In-depth analysis and recommendations

**Mario Draghi**

September 2024



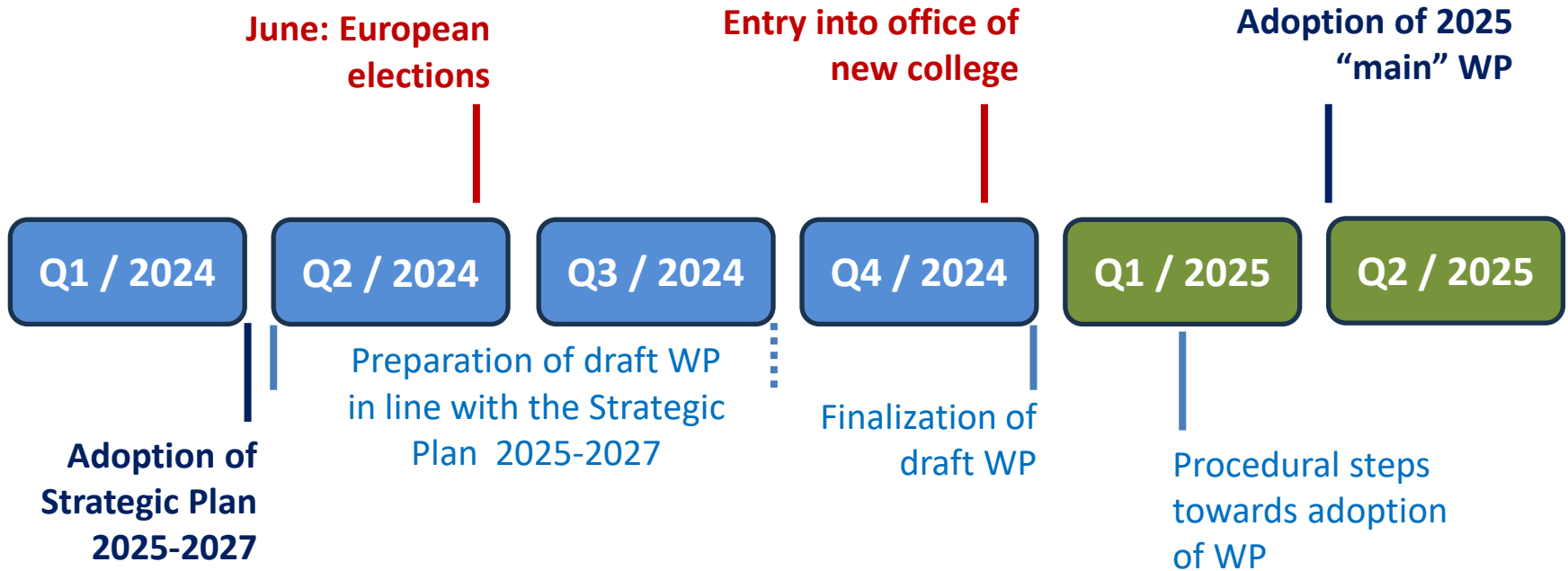
## Align, act, accelerate

Research, technology and innovation to boost European competitiveness

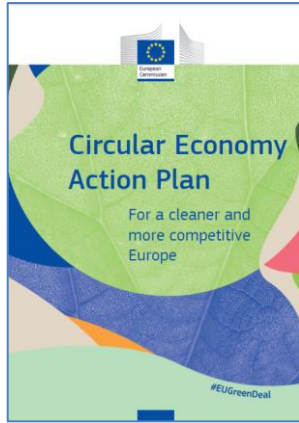
**Independent expert report**

October 2024

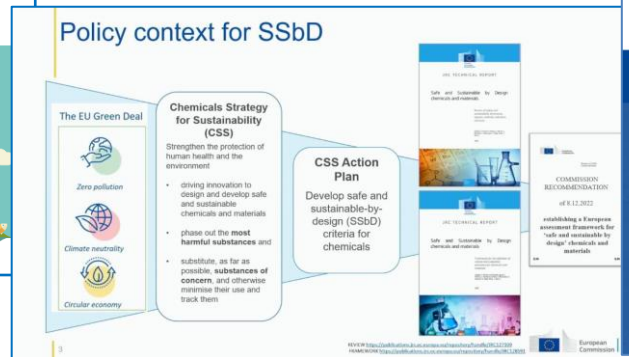
# HE – WP 2025 (calendario tentativo)



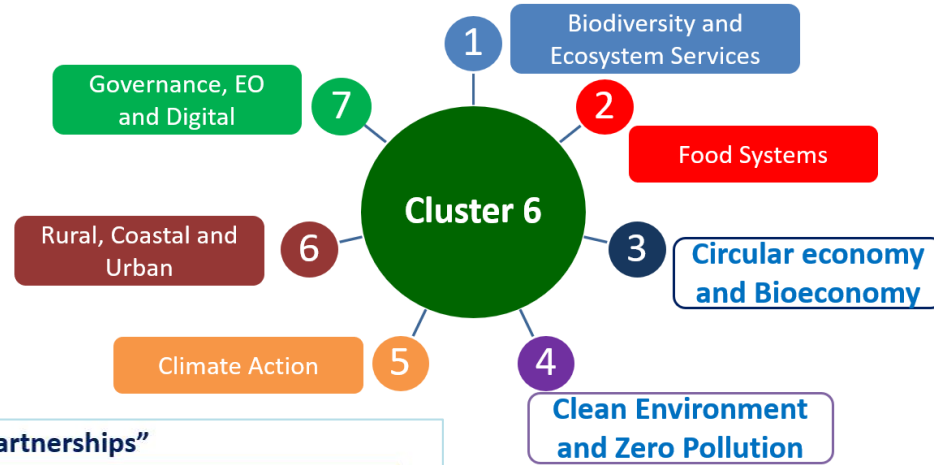
# WP 2025 - Policies, Initiatives, Strategies, Plans.....











## Ecodesign for Sustainable Products Regulation, (ESPR)

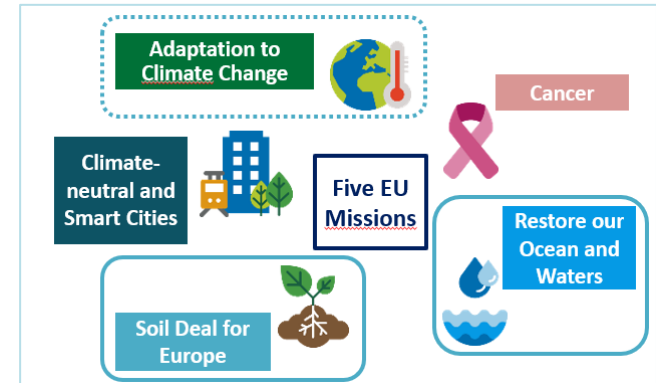


# HE - Cluster 6: Implementación



## Clúster 6 - "Partnerships"

Co-funded partnership	Work Programme where the topic is introduced	HE expected contribution (7 years; min EUR)
 Rescuing biodiversity to safeguard life on Earth	2021	165
 A climate neutral, sustainable and productive Blue Economy	2022	150
 European Partnership Water Security for the Planet (Water4All)	2021	126
 Accelerating farming systems transition: agroecology living labs and research infrastructures	2023	150
 Animal health: fighting infectious diseases	2023	180
 Environmental observations for a sustainable EU agriculture	2024	100
 Safe and sustainable food systems for people, planet and climate	2023	175
 Forests and Forestry for a Sustainable Future	2025	-





# Cluster 6. Circular Economy and Bioeconomy Sectors

## 2023-2024 Structure



Enabling a circular economy transition



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



Innovating for blue bioeconomy and biotechnology value chains



Safeguarding the multiple functions of EU forests

# Cluster 6. Clean Environment and Zero Pollution

## 2023-2024 Structure



Halting emissions of  
pollutants to air,  
soils and waters



Drinking and urban  
water pollution



Increasing environmental  
performances and  
sustainability of  
processes and products



Reducing the  
environmental  
impact and pollution  
in food systems

# Cluster 6. Circular Economy and Bioeconomy Sectors

To Fair, Inclusive, Circular and Healthy cities: Transformation of PhosphoGypsum (PG) into commercial products through sustainable and zero-waste processes



## FIC-FIGHTERS

Coordinated by IDENER RESEARCH & DEVELOPMENT AGRUPACION DE INTERES ECONOMICO

Nº project: 101135157



Coordinated by AIJU

Nº project: 101135505

**K-CCRI, Knowledge hub to leverage existing initiatives and projects to foster the adoption of Circular economy in Cities and Regions In Europe**

Coordinated by SENIOR EUROPA SL

Nº project: 101135174



**Boosting the uptake of innovative solutions in the context of water and circular economy**

Coordinated by BIOAZUL, SL

Nº project: 101135239

# Cluster 6. Circular Economy and Bioeconomy Sectors



## CisWEFE-NEX

CisWEFE-NEX: Circular Systemic Water-Energy-Food-Ecosystems (WEFE) Nexus – CCRI Demonstrator for Regions facing Severe Water Stress

**Entidad coordinadora:** Bioazul S.L. (BIOAZUL)

IA - Acción de innovación

Nº del proyecto: 101135062

## RECONSTRUCT

A Territorial Construction System for a Circular Low-Carbon Built Environment

**Entidad coordinadora:** INSTITUT DE TECNOLOGIA DE LA CONSTRUCCION DE CATALUNYA (ITeC)

IA - Acción de innovación

Nº del proyecto: 101082265



## SYMBIOREM

Symbiotic, circular bioremediation systems and biotechnology solutions for improved environmental, economic and social sustainability in pollution control

**Entidad coordinadora:** UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA

RIA - Acción de investigación e innovación

Nº del proyecto: 101060361

## VERNE, The one-stop-shop of accessible circular solutions for sustainable tourism

Coordinated by PNO INNOVATION SL

Nº project: 101181941

## Cir4Fun, Advancing European Industrial Sustainability and Competitiveness through Circular Design Strategies, Digital Product Passports, and Sustainable Product-Service Systems in the Furniture Sector

Coordinated by AIDIMME

Nº project: 101182081

 **Pilar 2**  
Desafíos mundiales y competitividad industrial europea

Clústeres

- Salud
- Cultura, creatividad y sociedad inclusiva
- Seguridad civil para la sociedad
- **Mundo digital, industria y espacio**
- Clima, energía y movilidad
- Alimentación, bioeconomía, recursos naturales, agricultura y medio ambiente

## Clúster 4: Mundo digital, **Industria** y Espacio

### Destination 1:

Climate neutral, circular and digitised production

### PROCESS

*“Twin Transition”*

### Destination 2:

Increased autonomy in key strategic value chains for resilient industry

### MATERIALS

*“Resilience”*

# Clúster 4. Industria - Economía Circular

Una de las orientaciones del **Clúster 4.Industria**.

Aparece reflejada, directa o indirectamente, en todos los temas del área.

Contribuir a la Economía Circular es un **objetivo de los partenariados del área de Industria**: *Made in Europe, Process4Planet y Clean Steel*.

La Circularidad también será un **aspecto fundamental en los nuevos partenariados** que empiezan en 2025:

- *Textiles for the Future*
- *Innovative Advanced Materials for Europe*
- *Raw Materials for the Digital and Green Transition*

# Cluster 4. Industria: Circularidad en Industria de Procesos



## Plastics2Olefins

**Plastics2Olefin:** Recycling plastic waste into high-value materials- Closing the Loop

**Total cost**  
€ 28 208 658,50

**EU contribution**  
€ 18 084 895,00

**Coordinated by**  
REPSOL SA



## Simbiosis industrial: Hubs for Circularity

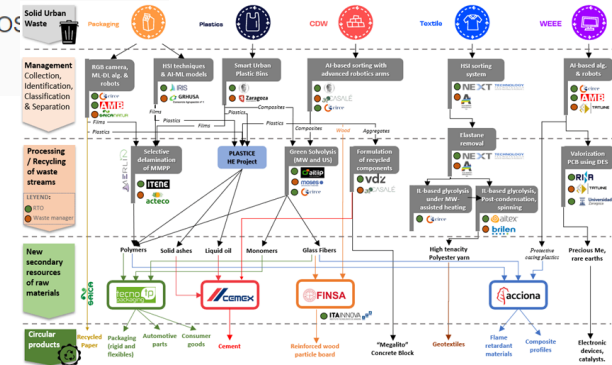
**REDOL:** Aragon's regional hub for circularity. Demonstration Of Local industrial-urban symbiosis initiatives

**Total cost**  
€ 17 012 301,25

**EU contribution**  
€ 14 292 022,25

**Coordinated by**  
FUNDACION CIRCE CENTRO

DE RECURSOS



# Clúster 4. Industria: Circularidad en Fabricación y Materias Primas



➤ *Circular manufacturing, “Remanufacturing”*

**DaCapo:** Digital assets and tools for **Circular value chains** and manufacturing products

**EU contribution**  
€ 5 994 489,25



Coordinated by  
ASOCIACION DE INVESTIGACION METALURGICA  
DEL NOROESTE  
Spain



## Aspectos transversales :

Diseño: Seguro y Sostenible por Diseño-SSbD  
Modelos de negocio circulares, apoyo a empresas, etc.

## Materias Primas



**METALLICO:** Demonstration of **battery metals recovery** from primary and secondary resources through a sustainable processing methodology

**Total cost**  
€ 13 033 408,00

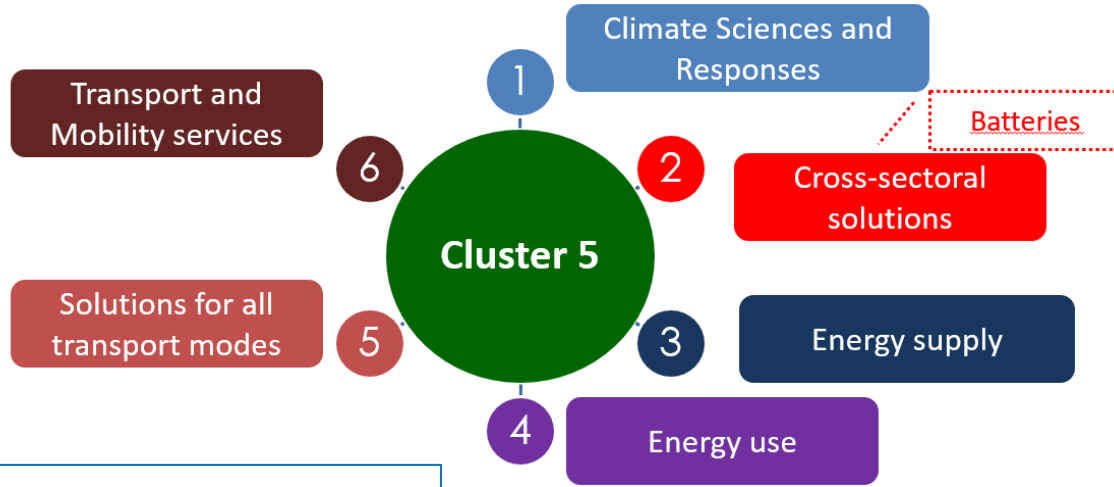
**EU contribution**  
€ 11 798 783,25

Coordinated by  
IDENER RESEARCH & DEVELOPMENT  
AGRUPACION DE INTERES ECONOMICO  
Spain



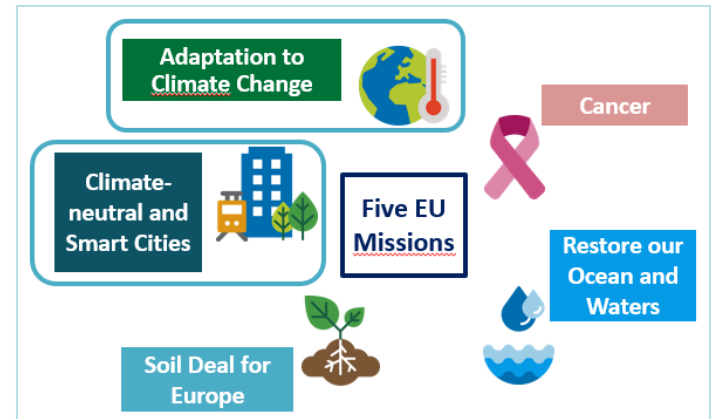


# HE - Clúster 5: Implementación



## Horizonte Europa - Partenariados de Clúster 5

Partenariados Institucionales	Partenariados Coprogramados	Partenariados Cofinanciados
<ul style="list-style-type: none"> <li>Clean Hydrogen</li> <li>Clean Aviation</li> <li>Single European Sky ATM Research 3</li> <li>Europe's Rail</li> </ul>	<ul style="list-style-type: none"> <li><b>Built4People</b>   People-centric sustainable built environment</li> <li><b>Connected, Cooperative and Automated Mobility</b></li> <li><b>Batteries</b>   For stationary applications and e-mobility</li> <li>Zero-Emission Waterborne Transport</li> <li>Zero-emission Road Transport</li> <li>Photovoltaic (NEW)</li> </ul>	<ul style="list-style-type: none"> <li>Driving urban transitions to a sustainable future (DUT)</li> <li>Clean Energy Transition (CET)</li> </ul>



# Clúster 5. Clima, Energía y Movilidad



## RHINOCEROS

Batteries reuse and direct production of high performances cathodic and anodic materials and other raw materials from batteries recycling using low cost and environmentally friendly technologies

**Entidad coordinadora:**  
**FUNDACION TECNALIA  
RESEARCH & INNOVATION**

RIA - Acción de investigación e innovación

Nº del proyecto: 101069685



From linear to circular construction - advancing climate mitigation models

**CO2NSTRUCT: Modelling the role of circular economy construction value chains for a carbon-neutral Europe**

Nº de Proyecto: 101056862



## REWIND

Efficient decommissioning, repurposing and recycling to increase the circularity of end-of-life wind energy systems.

**Entidad coordinadora:**  
**AIMPLAS - ASOCIACION DE INVESTIGACION DE MATERIALES PLASTICOS Y CONEXAS**

RIA - Acción de investigación e innovación

Nº del proyecto: 101147226

**D1 – Clima**

**D2 – Baterías**

**D3 – Energía renovables**

# Apoyo al participante (CDTI)



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[josemanuel.gonzalez@cdti.es](mailto:josemanuel.gonzalez@cdti.es)

## El equipo de Clúster 4.Industria



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[carlos.toledo@cdti.es](mailto:carlos.toledo@cdti.es)



## El equipo de Clúster 6

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[lydia.gonzalez@cdti.es](mailto:lydia.gonzalez@cdti.es)

# Portal español de Horizonte Europa

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

The screenshot shows the homepage of the Spanish Horizon Europe portal. At the top, there is a navigation bar with the 'EUROPA' logo and various menu items. Below this is a large banner with the 'HORIZON EUROPE' logo and illustrations of people. The main content area features four prominent cards: '¿Qué es Horizonte Europa?', 'Guía del participante', 'Plan de Incentivación para la participación española', and 'Programa de Trabajo 2023-2024'. Below these cards, there is a news section with a calendar for October 2024 and a 'eventos' link. At the bottom, there are four navigation buttons: 'PUNTOS NACIONALES DE CONTACTO', 'CÓMO PARTICIPAR', 'RECIBE NUESTRO BOLETÍN', and 'DOCUMENTOS DE INTERÉS'. A blue arrow points from the 'PUNTOS NACIONALES DE CONTACTO' button to a larger box on the right.

A circular logo with a white network icon on a dark background. Below the logo, the text reads 'PUNTOS NACIONALES DE CONTACTO'.

A banner for 'SUSCRIPCIÓN A LISTAS DE DISTRIBUCIÓN'. It features a close-up image of a keyboard with an 'Email' key. The text below the image reads 'PROGRAMA MARCO - HORIZONTE EUROPA' and 'Listas relacionadas con el Programa Marco de I+D de la UE, Horizonte Europa, y las temáticas gestionadas por CDTI'.

<https://www.cdti.es/listas-de-distribucion>



*iiii Muchas gracias!!!!*



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



@HorizonteEuropa - @CDTI-innovacion