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Cluster 4: Industry

Infoday Nacional convocatorias 2024



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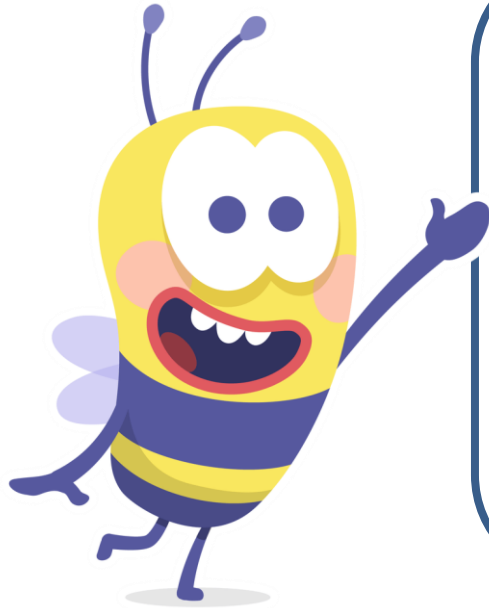
HORIZONTE

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NCP Cluster 4 Industry
Horizon Europe. Industrial Leadership
Directorate of European Programmes and Regional
Cooperation



DISCLAIMER



The contents of this presentation are for informal guidance and discussion purposes only.

In **no circumstance** the content of these slides can substitute the information provided in the official documents and guidelines.

Agenda del día

AGENDA

10:00-10:10 Bienvenida

Javier García Serrano, Jefe del Departamento Liderazgo Industrial, Dirección de Programas de la UE y Cooperación Territorial, CDTI

10:15-10:30 Introducción y aspectos generales Clúster 4 Industria

Equipo Cluster 4-Industria, CDTI

10:30-11:00 Introducción a la convocatoria Twin Transition: Process For Planet, Energy intensive process industries, Hubs for Circularity.

Garbiñe Guiu, Policy Officer Comisión Europea (on line)

11:00-11:20 Introducción a la convocatoria Twin Transition: Manufacturing industry, Clean Steel, New way to Build.

Equipo Cluster 4-Industria, CDTI

11:20-11:45 Consideraciones sobre Inteligencia Artificial en Horizonte Europa.

Cristina Contero, Abogada en APHAIA. Experta en Ética de la inteligencia Artificial.

12:15-12:45 Introducción a la convocatoria Resilient Value chains: Safe and Sustainable by Design (SSbD), Strategic markets by Advanced materials

Evangelos Daskalopoulos, Policy Officer Comisión Europea (on line, inglés)

12:45-13:05 Introducción a la convocatoria Resilient Value chains: Raw materials, improving EU business

Equipo Cluster 4-Industria, CDTI

13:05-13:30 Recordando el proceso de evaluación. Algunos consejos para acertar en el blanco.

Elena Calvo, Subdirectora General Circe Centro Tecnológico. Experta Evaluadora HE

13:30- 13:40 Próximos eventos y apoyo al participante.

Nota. Al final de cada bloque se dispondrá de un turno de preguntas.

Cluster4 Industry Destination 1:

Climate neutral, circular and digitised production.

Call **TWIN GREEN AND DIGITAL TRANSITION**

Call 2024

- Fase única:
 - ✓ Apertura: 19 de septiembre de 2023
 - ✓ Cierre: 7 de febrero de 2024
 - ✓ 9 topics
 - ✓ **M€ 251**
- 2 fases:
 - ❖ Apertura: 19 de septiembre de 2023
 - ❖ Cierre:
 - ❖ 7 de febrero de 2024 (1)
 - ❖ 24 de septiembre 2024 (2)
 - ❖ 2 topics
 - ❖ **M€ 37**



96 M€	2 topics + 1 (2s)
150 M€	5 topics
30 M€	2 topics
12 M€	1 topic (2S)



	Topics	Temática		Ppto (M€)	
MiE	HORIZON-CL4-2024-TWIN-TRANSITION-01-03	Manufacturing as a Service MaaS	RIA TRL6	35	Lump sum/+3 pages
	<ul style="list-style-type: none"> MaaS, manufacture on demand, customized products, ...advanced technologies such as digital twins, real-time AI-based decision support systems, and next-generation Manufacturing Execution Systems... 				<ul style="list-style-type: none"> At least two realistic use cases on different supply chains or industry sectors
MiE	HORIZON-CL4-2024-TWIN-TRANSITION-01-05	Circularity for Manufacturing	RIA TRL6	36	+3 pages AI / INCO
	<ul style="list-style-type: none"> Sustainable Product Framework (SPI), Digital Product Passport Support the human aspect through upskilling manufacture workforce. Environmental and additional ecological impacts 				<ul style="list-style-type: none"> Develop new approaches of Artificial Intelligence to forecasts the environmental impact.... Develop innovative simulation and modelling software or built on existing solutions fostering new manufacturing capabilities to a more sustainable product design.

TWIN TRANSITION. Bloques temáticos (convocatoria en 2 FASES)



Topics		Temática	Ppto (M€)		
MiE	HORIZON-CL4-2024-TWIN-TRANSITION-01-01	Bio-intelligent manufacturing industries	RIA TRL6	25	Blind ev. Lump sum/ +3 pages
	<ul style="list-style-type: none"> ▪ <i>Bio-inspired manufacturing processes (biomimicry, biomimetics);</i> ▪ <i>Development of bio-intelligent manufacturing systems or tools;</i> 	<ul style="list-style-type: none"> ▪ <i>Expanding opportunities of bio-intelligent and bio-based materials by substituting fossil-based raw materials and limiting the release of microplastics, e.g. in the textile industry;</i> ▪ <i>The focus of this topic is on manufacturing. The development of materials beyond the manufacturing context is excluded.</i> 			

TWIN TRANSITION Bloques temáticos (convocatoria en FASE UNICA)



Topics	Temática	Ppto (M€)		
CSP HORIZON-CL4-2024-TWIN-TRANSITION-01-44	Digital transformation to optimise steel supply chains	IA TRL6-7	10	Lump sum AI
	<ul style="list-style-type: none"> (CSP) (SRIA)-> digitalisation and social aspects are both addressed Novel sensors, soft sensors and related models to reduce the carbon footprint by merging the use of sensors and data processing capabilities 	<ul style="list-style-type: none"> The application of combinations of advanced digital technologies such as but not limited to model-based, knowledge-based and data-based methods, artificial intelligence (AI), supercomputing, edge computing, 		
CSP HORIZON-CL4-2024-TWIN-TRANSITION-01-46	CO2-neutral steel production with hydrogen OR innovative steel applications for low CO2 emissions	RIA TRL6	20	AI
	<ul style="list-style-type: none"> 2 Technology areas in the scope 1. Enhance CO2-neutral steel production with hydrogen, secondary carbon carriers and electricity 	<ul style="list-style-type: none"> 2. Contribute to innovative steel applications for low CO2 emissions. 		

TWIN TRANSITION. A NEW WAY TO BUILD (Construcción). Convocatoria en 2FASES

	Topics	Temática	Ppto (M€)	
<p>A New way to Build</p> <ul style="list-style-type: none"> ▪ <i>Identification of maintenance and repair issues in existing civil engineering infrastructure.</i> ▪ <i>Structural weaknesses, deformation and fatigue, corrosion, weathering..</i> ▪ <i>Develop new solutions to monitor...for example via digital twin and simulation technology</i> 	<p>HORIZON-CL4-2024-TWIN-TRANSITION-01-12</p>	<p>Enhanced repair of civil engineering infrastructure</p>	<p>RIA TRL 6</p>	<p>12</p> <p>Blind ev. Lump sum</p> <ul style="list-style-type: none"> ▪ <i>Develop solutions...for example using automated or remotely operated tools, or next generation egocentric AR solutions</i> ▪ <i>Reduce of risks including health and safety of workers</i> ▪ <i>SSH strategy</i> ▪ <i>Collaboration New European Bauhaus</i>

Cluster4 Industry Destination 2:

Increased autonomy in key strategic value chains for resilient industry.

Call **RESILIENT VALUE CHAINS**

Call 2024

- ❑ Fase única:
 - ✓ Apertura: 19 de septiembre de 2023
 - ✓ Cierre: 7 de febrero de 2024
 - ✓ 7 topics
 - ✓ M€ 190,20
- ❑ 2 fases:
 - ❖ Apertura: 19 de septiembre de 2023
 - ❖ Cierre:
 - ✓ 7 de febrero de 2024 (1)
 - ✓ 24 de septiembre 2024 (2)
 - ❖ 2 topics
 - ❖ M€ 62

❑ **Raw Materials**

5 topics

91,2 M€

❑ **Safe and Sustainable by Design (SSbD) Chemicals and materials**

1 topic

59 M€

❑ **Strategic Innovation Markets driven by Advanced Materials**

2 topics
(2 stages)

62 m€

❑ **Improving the resilience of EU businesses, especially SMEs and Startups**

1 topics

10 M€

Cluster 4 - INDUSTRY



D1 – Climate neutral, circular and digitised *production* TWIN-TRANSITION



D2 – Increased Autonomy in Key Strategic Value Chains for Resilient Industry



- Industrial leadership and increased autonomy in key strategic **value chains** with **security of supply in raw materials**
- achieved through **breakthrough technologies** in areas of industrial alliances, dynamic industrial innovation ecosystems and advanced solutions
- for substitution, resource and energy efficiency, effective reuse and recycling and clean primary production of **raw materials** including **critical raw materials**,
- and leadership in the circular economy.

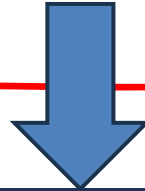
Cluster 4 - INDUSTRY



D1 – Climate neutral, circular and digitised *production* TWIN-TRANSITION



D2 – Increased Autonomy in Key Strategic Value Chains for Resilient Industry



**EUROPEAN CRITICAL
RAW MATERIALS ACT**

March 2023

[European Critical Raw Materials Act
\(europa.eu\)](https://european-critical-raw-materials-act.europa.eu)

European Critical Raw Materials Act

EUROPEAN CRITICAL RAW MATERIALS ACT

[European Critical Raw Materials Act \(europa.eu\)](https://europea.eu)

SETTING PRIORITIES

List of **Critical Raw Materials**

- It identifies raw materials which are important for the whole European economy and face a high risk of supply disruption

List of **Strategic Raw Materials**

- It identifies a list of raw materials characterised by high strategic importance and projected global supply/demand imbalances

SETTING 2030 BENCHMARKS FOR STRATEGIC RAW MATERIALS



EU EXTRACTION

At least **10%** of the EU's annual consumption for extraction



EU PROCESSING

At least **40%** of the EU's annual consumption for processing



EU RECYCLING

At least **15%** of the EU's annual consumption for recycling



EXTERNAL SOURCES

Not more than **65%** of the EU's annual consumption of **each strategic raw material at any relevant stage of processing** from a single third country

Destination 2: Increased Autonomy in Key Strategic Value Chains for Resilient Industry



Raw materials for EU open strategic autonomy and successful **transition to a** climate-neutral and **circular economy**

Pay attention to:

- Business cases and exploitation strategies** for industrialisation
- Elegibility conditions: participation ... is limited to ...Member States, associated countries, OECD countries, African Union Member States*, MERCOSUR, CARIFORUM, Andean Community and countries with which the EU has concluded strategic partnerships on raw materials.**
- “.. beneficiaries must make use of **Copernicus and/or Galileo/EGNOS** (other data and services may additionally be used).”

RESILIENT INDUSTRY Bloques temáticos (convocatoria en FASE UNICA)

Topics	Temática		Ppto (M€)	
Raw Materials <ul style="list-style-type: none"> Develop innovative technologies for exploration of critical raw materials in deep land deposits in the EU and non-EU countries Actions should map Europe's primary raw materials potential and raw materials production, using geoscientific approaches and refining capacities in a harmonised form 	HORIZON-CL4-2024-RESILIENCE-01-01 Exploration in deep land deposits	RIA TRL5	20	AI/ Elegibility conditions. (todo el bloque)
Raw Materials <ul style="list-style-type: none"> Increase recovery rates of valuable raw materials, particularly critical raw materials from low grade or complex ores and/or from extractive waste Also reduce the content of toxic elements or compounds in the resulting material products. 	HORIZON-CL4-2024-RESILIENCE-01-04 Technologies for processing and refining of CRM	IA TRL6-7	22	+3 pages
				<ul style="list-style-type: none"> The actions should target minerals and metals, particularly critical raw materials Recycling of end-of-life products is excluded from this topic.

RESILIENT INDUSTRY Bloques temáticos (convocatoria en FASE UNICA)

	Topics	Temática		Ppto (M€)	
Raw Materials	HORIZON-CL4-2024-RESILIENCE-01-08	Rare Earth and magnets innovation hubs	IA TRL6-7	32	+3 pages
	<ul style="list-style-type: none"> The action should create an innovation hub that enables the development, demonstration and testing of new processes for production of rare earths and related products, particularly neodymium permanent magnets. 		<ul style="list-style-type: none"> Demonstrations could cover novel, cost-effective and environmentally sound rare earths extraction, processing and separation routes 		
Raw Materials	HORIZON-CL4-2024-RESILIENCE-01-010	Due diligence requirements in raw materials supply chains.	CSA	2,2	Lump sum +3 pages
Raw Materials	HORIZON-CL4-2024-RESILIENCE-01-11	Technologies for extraction and processing of CRM	IA TRL6-7	15	INCO Canada, Ukraine Lump sum/ + 3 pages
	<ul style="list-style-type: none"> Actions have to collaborate with Canada or Ukraine, following the strategic partnership on raw materials established in 2021 also to at least one project per each partner country Technology should be demonstrated on the resources of the partner country. 		<ul style="list-style-type: none"> Actions are expected to develop and demonstrate extraction and processing technologies to facilitate exploitation of the primary critical raw materials (minerals and metals only) 		

RESILIENT INDUSTRY Bloques temáticos (convocatoria en FASE UNICA)

	Topics	Temática		Ppto (M€)	
<p>Resilience EU bus., SMEs, Start-ups</p> <ul style="list-style-type: none"> ▪ <i>Support objectives of the European Green Deal and the EU SME Strategy</i> ▪ <i>Increase resilience, competitive sustainability of SMEs</i> 	<p>HORIZON-CL4-2024-RESILIENCE-01-41</p>	<p>'Innovate to transform' support for SME's</p>	<p>CSA</p>	<p>10</p>	<p>Lump sum FSTP</p> <ul style="list-style-type: none"> ▪ <i>Advisory services</i> ▪ <i>Financial support of Third parties</i>

Apoyo al participante y eventos destacados

- **CDTI Sesión lanzamiento convocatoria 2024.** Próximo **19 de septiembre** (on line). Registro abierto. (eventos.cdti.es)
- **CDTI Infoday nacional 19 de Octubre** (presencial). (eventos.cdti.es). **Registro abierto**
- *Web Horizonte Europa*
<https://www.horizonteeuropa.es/> . *Servicio alertas RSS (suscribirse)*



Industria

Reserva de fecha para el próximo Infoday Nacional Clúster 4 Industria 19 de octubre 2023

05 de Septiembre de 2023

Apoyo al participante y eventos destacados

Participación en infodays regionales

- *Castilla y León (Ávila), 26 de Octubre*
- *Comunidad Valenciana (Castellón), 30 de octubre*
- *Galicia (Santiago de Compostela), 3 de noviembre.*



Industria

**Reserva de fecha para el próximo Infoday
Nacional Clúster 4 Industria 19 de octubre
2023**

05 de Septiembre de 2023

Apoyo al participante y eventos destacados

Eventos de ámbito europeo

- **11-12 Octubre:** Horizon Europe info days Cluster 4. Digital, Industria y Espacio (grabación disponible)
- **19 de Octubre-7 de febrero.** Brokerage event Comisión Europea. Jornada de lanzamiento y participación abierta durante el periodo.
- <https://ncp4industry.eu/events/horizon-europe-industry-2024-brokerage-event/>
- **27 de Octubre:** Brokerage Event KETs NCPs Francia y Alemania (híbrido)
- **Raw Materials Week 2023, 13-17 Noviembre, Bruselas.**
<https://www.rawmaterialsweek2023.eu/>
- Red de NCPs. www.ncp4industry.eu



Equipo Clúster 4 Industria Apoyo al participante



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Servicios de apoyo al participante

- *Reuniones presenciales y virtuales*
- *Revisión de ideas de proyectos*
- *Interpretación y adaptación al topics*
- *Apoyo en la búsqueda de consorcios*
- *Revisión de propuestas en fase de escritura*

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Reuniones bilaterales solicitadas

SOLICITANTE	HORARIO	SALA	EQUIPO CDTI
EURECAT	15-15:30	Sala VIP anexa al salón de actos	Carlos Toledo
INCOTEC	15:30-16	Sala VIP anexa al salón de actos	Carlos Toledo