

#innovacion
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#internacionalizacion



Clúster 4. Industria

Programa de Trabajo 2023-24

Nieves Gonzalez

nieves.gonzalez@cdti.es

Representante Nacional Industria

Comité Programa del Cluster 4

Santiago de Compostela, 15 de febrero de 2023





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.

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- Introducción al área de Industria
- WP 2023-24: Aspectos horizontales
- Destino 1. Call Twin Transition
- Destino 2. Call Resilience
- Apoyo al participante y próximos eventos

Cluster 4 – DIGITAL, INDUSTRY & SPACE



Presupuesto Horizonte Europa: lo que sabemos, 95.517 MEUR

PILAR 1 – CIENCIA EXCELENTE	25.011	PILAR 2 - RETOS MUNDIALES Y COMPETITIVIDAD INDUSTRIAL EUROPEA	53.516	PILAR 3 – INNOVACIÓN ABIERTA	13.597
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		

Ampliar la Participación y Fortalecer el Espacio Europeo de Investigación	3.393
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)

Cluster 4 - Destinations



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



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



D3 – World leading *data* and *computing* technologies



D4 – Digital and emerging *technologies* for competitiveness and fit for the green deal



D5 – Strategic autonomy in developing, deploying and using global *space*-based infrastructures, services, applications and data



D6 – A *human-centred* and ethical development of digital and industrial technologies

Cluster 4 - INDUSTRY



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

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

D3 – World leading *data* and *computing* technologies

D4 – Digital and emerging *technologies* for competitiveness and fit for the green deal

D5 – Strategic autonomy in developing, deploying and using global *space*-based infrastructures, services, applications and data

D6 – A *human-centred* and ethical development of digital and industrial technologies

Destination 1: Climate neutral, Circular and Digitised Production 2023



Manufacturing Industry



Energy efficient and climate neutral process industries



Hubs for circularity, first-of-a-kind, lighthouse demonstrator plants implementing urban industrial symbiosis



A New Way to Build, accelerating disruptive change in construction (2 stages)

Circularity and Zero Pollution in process industries

Clean Steel, to the Fit for 55 targets



Destination 2: Increased Autonomy in Key Strategic Value Chains for Resilient Industry 2023



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



Safe and Sustainable by Design (SSbD) chemicals and materials

Strategic Innovation Markets driven by Advanced Materials (2 stages)



Improving the resilience of EU businesses, especially SMEs and Startups

Resultados provisionales Industria 2021

**523 propuestas, 413 con ES (79%)
103 coordinadas ES (19,7%)**

**107 proyectos, 82 con ES (76,6%)
25 coordinadas ES (23,4%)**

Tasa de éxito ES: 19,9% vs. 20,5% global

**124 M€ para entidades ES
ES 1º país en retorno (18,50%)**

Resultados provisionales Industria 2021

1. Twin Transition

- 233 propuestas con participación ES (78,7%)
- 15 proyectos **coordinados** ES (30,0%)
- Tasa de éxito: 17,6% vs 16,9%
- **79,6 M€** para entidades ES
- **1er país en retorno: 22,43% UE**

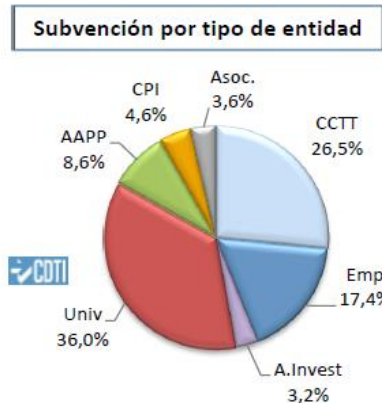


2. Resilience

- 151 propuestas con participación ES (78,2%)
- 10 proyectos **coordinados** ES (18,5%)
- Tasa de éxito: 25,2% vs 28%
- **39,9 M€** para entidades ES
- **2º país en retorno: 13,7% UE**



Participación de Galicia en H2020

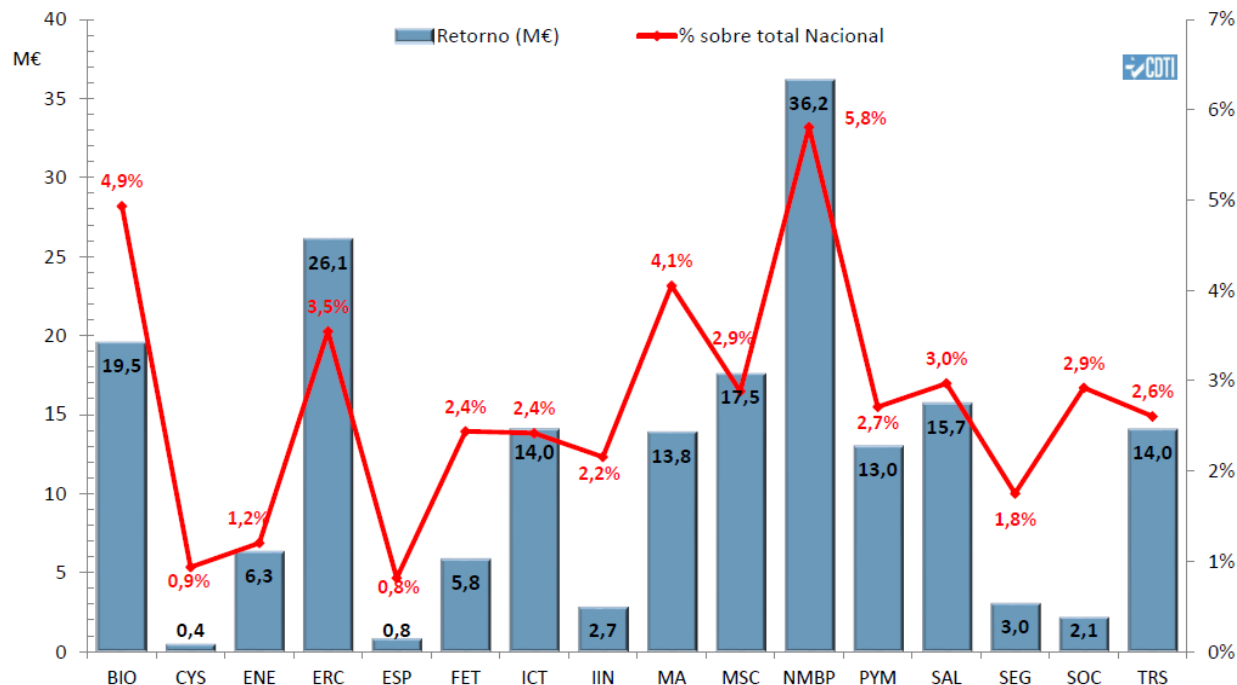


Horizonte 2020:

191,1 M€ para 155 entidades (100 empresas, 84% PYME) por la participación en **423 actividades de I+D+I**, 120 coordinadas.

Entidades destacadas*	Actividades	
	Nº	Coord.
Universidad de Santiago de Compostela	91	31
Asociación de Investigación Metalúrgica del Noroeste	56	20
Universidad de Vigo	42	11
Universidad de La Coruña	24	8
Servicio Gallego de Salud	16	1
A.E. Consejo Superior de Investigaciones Científicas	20	7
Fund. para Promoción de la Innovación, Investigación y Desarrollo Tecnológico en la Industria de Automoción de Galicia (CTAG)	20	2
Nanoimmunotech, SRL	6	2
Centro Tecnológico del Mar - Fundación CETMAR	8	0
Fundación Centro Tecnológico das Telecomunicacions de Galicia	11	1

Participación de Galicia en H2020

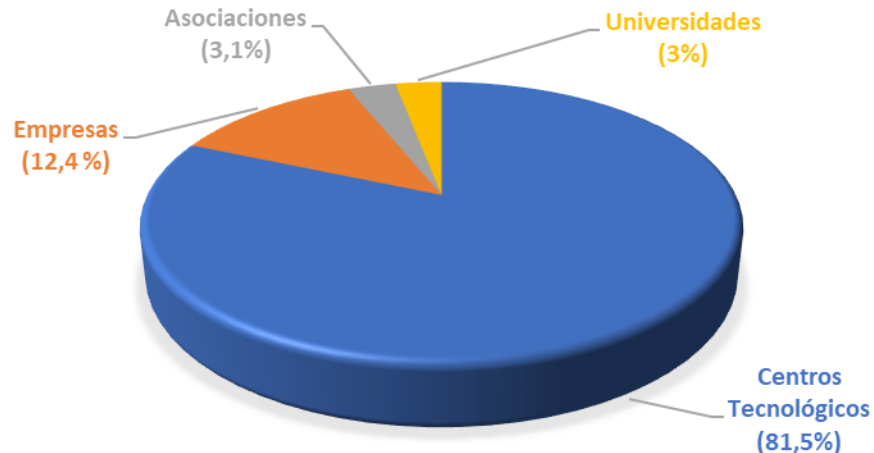


Horizonte Europa: Resultados provisionales Galicia 2021

25 participaciones Galicia
2 proyectos coordinados
12,2 M€ para entidades gallegas

AIMEN
ITG
FORESA TECHNOLOGIES SL
CEAGA
UNIVERSIDAD DE LA CORUÑA
SETGA SL
REVERTIA REUSING AND RECYCLING SL
LINKNOVATE SCIENCE, S.L.
GRI TOWERS GALICIA SL

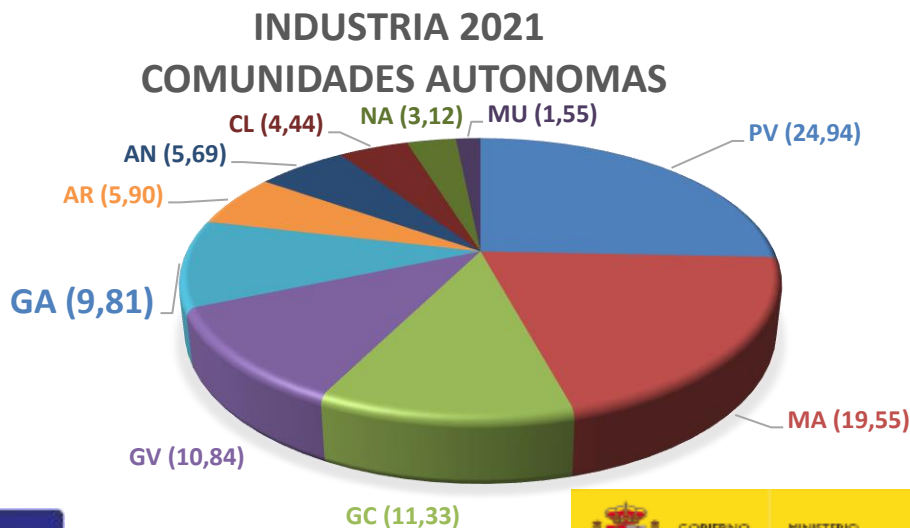
GALICIA 2021 - TIPO DE ENTIDAD



Horizonte Europa: Resultados provisionales Galicia 2021

12,2 M€ para entidades gallegas
5ª Comunidad Autónoma en retorno (9,8% ES)

Tasa de éxito:
31,3% vs. 19,9% ES



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Prioridades Políticas WP 2023-24



Plan Estratégico
2021-2024

Twin Transition



Resilience



Algunas novedades en la agenda política

RePowerEU
and cut our
dependence on
Russian gas



2023
**European
Year
of Skills**



**FIT
FOR
55**

A broad legislative
package to align existing
EU policy with the new
emissions reduction
goal of 55% by 2030.

Work Program 2023-2024

Contextos políticos relevantes

- ❑ The European Industrial Strategy of March 2020, and in particular the Update of May 2021. [European Industrial Strategy of March 2020](#). [Update of May 2021](#)
- ❑ The Circular Economy Action Plan of March 2020. [Circular Economy Action Plan](#)
- ❑ The Chemicals Strategy for Sustainability of October 2020. [Chemicals Strategy](#)
- ❑ *The Zero Pollution Action Plan of May 2021*. [Zero Pollution Action Plan](#)
- ❑ The Materials 2030 Manifesto. [Materials 2030 Manifesto](#)
- ❑ <https://www.ami2030.eu/>
- ❑ The Digital Decade of March 2021. [Digital Decade](#)
- ❑ The Fit for 55 Package of July 2021, delivering the EU's 2030 Climate Target on the way to climate neutrality. https://ec.europa.eu/clima/eu-action/european-green-deal/2030-climate-target-plan_en

Cluster 4: Mundo digital, **Industrial** y Espacio

**WP 2023-
2024**

Destination 1:

Climate neutral, circular
and digitised production

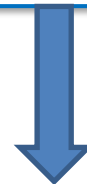


Call

TWIN GREEN AND
DIGITAL TRANSITION

Destination 2:

Increased autonomy in key
strategic value chains
for resilient industry



Call

RESILIENT VALUE CHAINS

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-7-digital-industry-and-space_horizon-2023-2024_en.pdf

Programa de Trabajo 2023-24

- Programación Estratégica 2021-24. Continuidad en temáticas.
- Disminución de presupuesto respecto a 2021-22 (25%).
- Menor número de *topics*; se financiarán más proyectos por *topic*.
- Menos Cooperación Internacional; más restricciones - China IAs
- Vuelven convocatorias en 2 fases

PILOTOS

- ☐ Continúa el piloto **60%** financiación (for profit entities) en algunas IAs de partenariados co-programados
- ☐ Piloto **blind evaluation** en fases 1.
- ☐ Implementación de **lump sum**.



Condiciones de admisibilidad

Same general admissibility conditions

- Applications must be submitted before the call deadline, **electronically** via the Funding & Tenders Portal
- Applications must be **complete, readable, accessible and printable**, and include a **plan for the exploitation and dissemination of results**, unless provided otherwise in the specific call conditions.

Proposal page limit

- ☐ RIAs and IAs type of actions: limit for a full application is **45 pages**
- ☐ CSAs: limit is **30 pages**
- ☐ First stage proposals: limit is **10 pages**
- ☐ Exceptions, if any, would be specified in the call text.
 - ☐ Business case and exploitation strategy: **+ 3 pages**
 - ☐ RIAs and IAs + Lump Sum = **50 pages limit**
 - ☐ CSAs + Lump Sum = **33 pages limit**



<i>Admissibility conditions</i>	<p>The conditions are described in General Annex A. The following exceptions apply:</p> <p>Applicants submitting a proposal under the blind evaluation pilot (see General Annex F) must not disclose their organisation names, acronyms, logos, nor names of personnel in Part B of their first stage application (see General Annex E).</p>
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Blind evaluation pilot

- If indicated in the specific call conditions, **first-stage proposals** of two-stage submissions will **be evaluated blindly** and **applicants may not disclose their identity in Part B** of their proposal.



[insert call identifier] — [insert call name]

⚠ Fill in the title of your proposal below.

TITLE OF THE PROPOSAL

⚠ This proposal is submitted to a call that is evaluated **blindly**. You must not disclose applicants' organisation names, acronyms, logos nor names of personnel in Part B of your application. If you do, your proposal will be declared inadmissible. You can include details of participants in the proposal Part A.

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The rules are described in General Annex G. The following exceptions apply:

Eligible costs will take the form of a **lump sum** as defined in the Decision of 7 July 2021 authorising the use of lump sum contributions under the Horizon Europe....

Lump sum

- % topics con LS:

Clúster 4 Industry. (≈25%)

Tipo de acciones: RIA - IA – CSA

HOW DOES LUMP SUM FUNDING WORK IN PRACTICE? A QUICK GUIDE

01

LUMP SUM PROPOSALS

- Use the standard Horizon Europe proposal template. Address expected impacts and outcomes as in any Horizon proposal.
- No change in project design, except that work packages with a long duration may be split along the reporting periods. In this way, the relevant activities can be paid at the end of the reporting period.
- You need to provide a detailed breakdown of cost estimates to define and justify the lump sum. The estimates must be an approximation of your actual costs and meet the eligibility criteria of Horizon Europe. These cost details are needed to plan the budget of any proposal, even when they are not part of the proposal. The additional effort to include this information in a lump sum proposal should therefore be limited.

Lump sum funding in Horizon Europe

Overview	Guidance
Guidance	Guidance on lump sums focuses on the limited number of aspects where lump sum funding differs from actual cost grants. All the non-financial aspects remain the same as in actual cost grants.
Events	Lump sums – what do I need to know? General presentation to get started, including details on how to set up a lump sum budget
Opportunities	Quick guide The key steps explained and possible concerns addressed
Background	Detailed guidance for applicants and beneficiaries Lump sum proposal submission, evaluation and grant management
	Lump sum reporting step by step Reporting process for lump sum projects (IT How To)
	Frequently asked questions (FAQs) Check if your question about lump sums is already answered
	Expert briefing Briefing for Horizon Europe evaluations, including a dedicated part on lump sums
	Reference documents Lump sum Model Grant Agreement Commission decision authorising lump sum funding Lump sum budget table

Exceptional page limits to proposals/applications

In order to include a business case and exploitation strategy, the page limit in part B of the General Annexes is exceptionally extended by 3 pages.

Business case and Exploitation strategy

Business Case

- Target market
- Market size EU and globally
- User & Customer needs
- Matching at cost-effective manner
- Competitive advantage

Exploitation strategy

- Obstacles and actions to reach higher TRLs
- TRLs 7 strategy for full-scale manufacturing in the EU
- matching value chains, enhancing product robustness; securing industrial integrators; and user acceptance

Aspectos prácticos



Fase 1 / Fase 2

Fase única

Convocatoria **2023**:

7 marzo / 5 octubre

20 abril

Convocatoria **2024**:

7 febrero / 24 septiembre

7 febrero



ASPECTOS PRÁCTICOS

☐ Ampliación del límites de páginas: lump sum, plan de negocio y explotación

☐ Versiones actualizadas de los templates RIA-IA, CSA, fase única y dos fases

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Cluster 4: Mundo digital, Industria y Espacio

Call 2023

Destination 1:

Climate neutral, circular
and digitised production



Call

TWIN GREEN AND
DIGITAL TRANSITION

Convocatorias 2023

- ☐ Fase única:
 - ✓ Apertura: 8 de diciembre 2022
 - ✓ Cierre: 20 de abril 2023
 - ✓ 12 topics
 - ✓ M€ 334,27
- ☐ 2 fases:
 - ❖ Apertura: 8 de diciembre 2022
 - ❖ Cierre: 7 de marzo (1), 5 octubre 2023 (2)
 - ❖ 1 topic
 - ❖ M€ 12

Destination 1: Climate neutral, Circular and Digitised Production 2023



Manufacturing Industry



Energy efficient and climate neutral process industries



Hubs for circularity, first-of-a-kind, lighthouse demonstrator plants implementing urban industrial symbiosis



A New Way to Build, accelerating disruptive change in construction (2 stages)

Circularity and Zero Pollution in process industries

Clean Steel, to the Fit for 55 targets



Partenariados en Cluster 4 - Industria



PROCESSES4PLANET



The Clean Steel Partnership



Metrología



<https://metpart.eu/>

- Partenariados co-programados

- Partenariado institucionalizado

Made in Europe



- Inicio en FP7 (2007) Factories of the Future.
- DG RTD & CNECT / Asociación EFFRA
- Presupuesto propuesto HE: 900 M€
- Resultados 21-22: 1er país en retorno (57,3 M€, 18,5% UE)

A New Industrial Strategy for Europe (EU Policy):

1. European Leadership & manufacturing excellence

European Green Deal (EU Policy):

2. Circular and climate-neutral manufacturing

Made in Europe
General
Objectives

Europe fit for the digital age (EU Policy):

3. Digital transformation of manufacturing industry

Economy that works for people (EU Policy):

4. Attractive value-added manufacturing jobs

Destination 1: Twin green and digital transition



Manufacturing Industry

● HORIZON-CL4-2023-TWIN-TRANSITION-01-02:

High-precision OR complex product manufacturing – potentially including the use of photonics (IA)

TRL 5 - 7 5-6 M€

● HORIZON-CL4-2023-TWIN-TRANSITION-01-04:

Factory-level and value chain approaches for remanufacturing (IA)

TRL 5-7 5-7 M€



Destination 1: Twin green and digital transition



Manufacturing Industry

- **HORIZON-CL4-2023-TWIN-TRANSITION-01-07:**

Achieving resiliency in value networks through modelling and **Manufacturing as a Service** (RIA)
TRL 3-6 4-6 M€



- **HORIZON-CL4-2023-TWIN-TRANSITION-01-08:**

Foresight and technology transfer for **Manufacturing as a Service** (CSA)
1 M€

Partenariados Cluster 4: Processes for Planet



- Inicio en H2020 (2013) Sustainable Process Industry (SPIRE)
- Enfoque multisectorial: químico, acero, cemento, cerámica, minerales, metales no ferrosos, ingeniería, agua (papel, refino)
- Presupuesto propuesto HE: 1530 M€
- Resultados 21-22: 1er país en retorno (54,2 M€, 21,5% UE)



Destination 1: Twin green and digital transition



PROCESSES4PLANET



Energy efficient and climate neutral process industries

- **HORIZON-CL4-2023-TWIN-TRANSITION-01-31:**

Energy efficiency breakthroughs in the process industries (RIA) TRL 4- 6 8-10M€ (Lump sum)

- **HORIZON-CL4-2023-TWIN-TRANSITION-01-33:**

Electrification of high temperature heating systems (IA) TRL 5-7 12-15 M€

- **HORIZON-CL4-2023-TWIN-TRANSITION-01-36:**

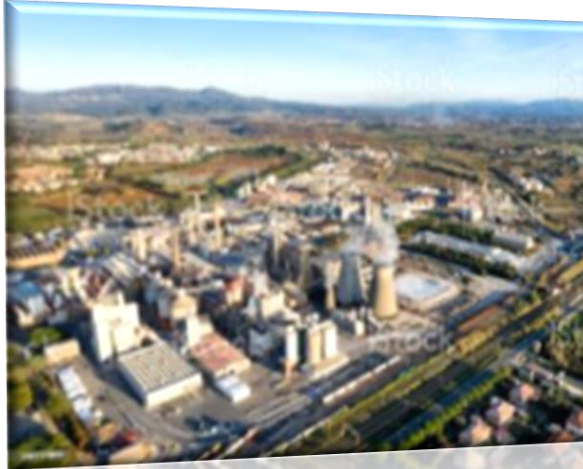
Modelling process industry transition to climate neutrality, sustainability and circularity (RIA) TRL NA 6-7 M€ (Lump sum)

Destination 1: Twin green and digital transition



PROCESSES4PLANET

Circularity and Zero Pollution in process industries



- **HORIZON-CL4-2023-TWIN-TRANSITION-01-37:**

Hubs for circularity for near zero emissions regions applying industrial symbiosis and cooperative approach to heavy industrialized clusters and surrounding ecosystems (IA)

TRL 5- 7 15-20 M€

- **HORIZON-CL4-2023-TWIN-TRANSITION-01-40:**

Sustainable and efficient industrial water consumption: through energy and solute recovery (RIA) TRL 4- 6 10-12M€

- **HORIZON-CL4-2023-TWIN-TRANSITION-01-42:**

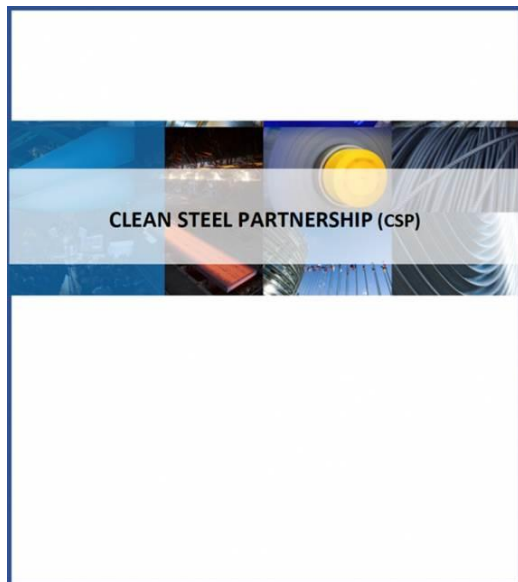
Circular economy in process industries: Upcycling large volumes of secondary resources (RIA)

TRL 4- 6 10-12 M€ (Lump sum)

Partenariados Cluster 4: Clean Steel



- Nuevo partenariado en Horizonte Europa (2021)
- Exclusivo para el sector del acero
- Presupuesto propuesto HE: 350 M
- Resultados 2021-22: 4º país en retorno (5,1 M€, 11,6% UE)



Pathways/ Groups	Circular Economy Enhancing the recycling of steel (e.g. scrap in BOF/EAFF*) and its by-products, Resource efficiency <small>*BOF= Basic Oxygen Furnace EAF= Electric Arc Furnace</small>		
	Smart Carbon Usage (SCU) Process Integration with reduced use of carbon (+CCS) Carbon Valorisation/Carbon Capture and Usage (CCU) (+CCS)	Carbon Direct Avoidance (CDA) Hydrogen Electricity	
Description	Integration of process steps and internal use of process gases	Using CO/CO2 from steel mill as raw material (Chemical conversion of CO/CO2)	Use of renewable electricity in basic steelmaking, e.g. production of H2 to replace carbon

Destination 1: Twin green and digital transition



- **HORIZON-CL4-2023-TWIN-TRANSITION-01-43:**

Low carbon-dioxide emission technologies for melting iron-bearing feed materials **OR** smart carbon usage and improved energy & resource efficiency via process integration (IA)

TRL 5 - 7 4-6 M€

- **HORIZON-CL4-2023-TWIN-TRANSITION-01-45:**

Circular economy solutions for the valorisation of low-quality scrap streams, materials recirculation with high recycling rate, and residue valorisation for long term goal towards zero waste (RIA)

TRL 4 a 5-6 3-6 M€



Cluster 4: Mundo digital, **Industria y Espacio**

2023-2024

Destination 1:

Climate neutral, circular
and digitised production



Call

TWIN GREEN AND
DIGITAL TRANSITION

Convocatorias

2 fases:

- ❖ Apertura: 8 de diciembre 2022
- ❖ Cierre: 7 de marzo (1), 5 octubre 2023 (2)
- ❖ 1 topic
- ❖ M€ 12



A New Way to Build,

accelerating disruptive change in
construction



HORIZON-CL4-2023-TWIN-TRANSITION-
01-11 (RIA)

Destination 1: Twin green and digital transition

A New Way to Build,
accelerating disruptive change
in construction



HORIZON-CL4-2023-TWIN-TRANSITION-01-11:
Intelligent data acquisition and analysis of materials and
products in existing built works (RIA)

- ✓ **EU contribution per project: EUR 5-6 million**
- ✓ **TRL: 4 - 6 Lump Sum**
- ✓ **Evaluación en 2 fases (Blind Evaluation pilot)**
- ✓ *New techniques and technologies to **rapidly identify materials** and analyse properties*
- ✓ *Increased **construction products for reuse: reduction in construction and demolition waste***
- ✓ ***Circular use** as secondary materials*
- ✓ ***Digitally record** for tools and database*

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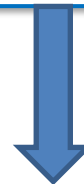
Call 2023

Convocatorias 2023

- ❑ Fase única:
 - ✓ Apertura: 8 de diciembre 2022
 - ✓ Cierre: 20 de abril 2023
 - ✓ 12 topics
 - ✓ M€ 213
- ❑ 2 fases:
 - ❖ Apertura: 8 de diciembre 2022
 - ❖ Cierre: 7 de marzo (1), 5 octubre 2023 (2)
 - ❖ 4 topics
 - ❖ M€ 124

Destination 2:

Increased autonomy in key strategic value chains for resilient industry



Call
RESILIENT VALUE CHAINS

Destination 2: Increased Autonomy in Key Strategic Value Chains for Resilient Industry 2023



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



Safe and Sustainable by Design (SSbD) chemicals and materials

Strategic Innovation Markets driven by Advanced Materials (2 stages)



Improving the resilience of EU businesses, especially SMEs and Startups



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

Asegurar un suministro de MMPP seguro, sostenible y responsable



Investigación e innovación a lo largo de toda la cadena de valor:



Plan de Acción de Materias Primas Críticas

Action Plan on Critical Raw Materials

10 actions to ensure Europe's access to raw materials

1. European Raw Materials Alliance
2. Develop sustainable financing criteria for mining
3. Research and innovation on waste processing, advanced materials and substitution
4. Map the potential supply of secondary CRM from EU stocks and wastes
5. Identify priority mining and processing projects for critical raw materials in the EU
6. Develop expertise and skills
7. Deploy Earth observation programmes for exploration, operation and post-closure environmental management
8. Develop research and innovation projects on exploitation and processing of CRMs
9. Develop strategic international partnerships to secure CRMs supply
10. Promote responsible mining practices for CRMs



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**

Destination 2: Call RESILIENT VALUE CHAINS

Prestar atención a:

- Business cases and exploitation strategies for industrialisation.
- Restricciones a participación internacional

To increase EU resilience in raw materials supply chains and thus reduce the serious risk to the Union's strategic assets, economic and societal interests, autonomy and security associated with the current EU reliance on a few third countries for critical raw materials, by increasing sustainable and responsible sourcing of primary and secondary raw materials necessary to enable the green and digital transition and in alignment with the Communication (2020) 474 on Critical Raw Materials Resilience, participation in this topic is limited to legal entities established in 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.

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

Topics en Raw materials



- ☐ HORIZON-CL4-2023-RESILIENCE-01-02: Innovative technologies for sustainable and decarbonised extraction (RIA)
- ☐ HORIZON-CL4-2023-RESILIENCE-01-06: Earth Observation platform, products and services for raw materials (IA)
- ☐ HORIZON-CL4-2023-RESILIENCE-01-07: Expert network on Critical raw materials (CSA)

- ☐ **5 M€ TRL 3-5**
- ☐ **6,7 M€ TRL 6-7**
- ☐ **3 M€ TRL n.a.**

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

Topics en Raw materials



HORIZON-CL4-2023-RESILIENCE-01-03: Technologies for processing and refining of critical raw materials (IA)



7,3 M€ TRL 6-7



HORIZON-CL4-2023-RESILIENCE-01-05: Recycling technologies for critical raw materials from EoL products (IA)



7 M€ TRL 6-7

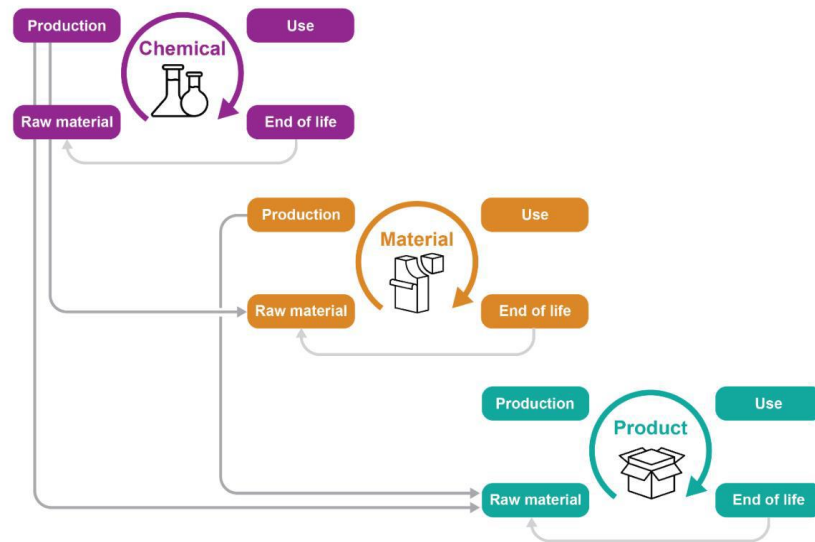
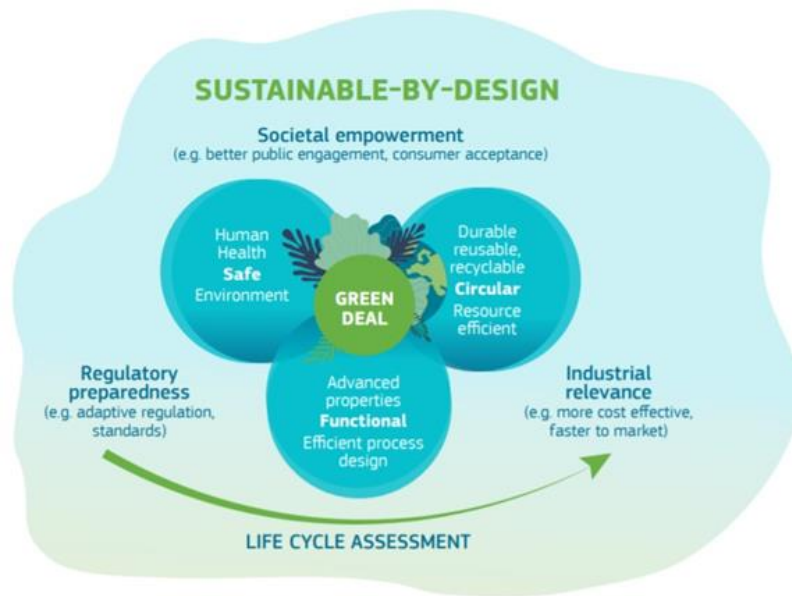


HORIZON-CL4-2023-RESILIENCE-01-09: Recyclability and resource efficiency of Rare Earth based magnets (IA)



6,7 M€ TRL 6-7

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



Safe and Sustainable by Design (SSbD) chemicals and materials

See documents defining the SSbD framework and criteria on: [link](#)

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



Safe and Sustainable by Design (SSbD) chemicals and materials



☐ HORIZON-CL4-2023-RESILIENCE-01-21: Innovative methods for safety and sustainability assessments of chemicals and materials (RIA)

☐ **6-8 M€ TRL 3-6**

☐ HORIZON-CL4-2023-RESILIENCE-01-22: Integrated approach for impact assessment of safe and sustainable chemicals and materials (RIA)

☐ **3-4 M€ TRL 2-5**

☐ HORIZON-CL4-2023-RESILIENCE-01-23: Computational models for the development of safe and sustainable by design chemicals and materials (RIA) (Lump sum))

☐ **6-7 M€ TRL 3 -6**

Materials Manifesto 2030



Strategic Innovation Markets driven by Advanced Materials

The **Materials2030 Roadmap** highlighted that **innovation markets** are the industrial perspective presenting the “**market pull**” to address societal needs and challenges under a long-term perspective

Systemic approach to develop the **next generation solution-oriented advanced materials**

Data exchange and interoperability in materials modelling and characterisation across value chains

Innovation Markets:



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

Strategic Innovation Markets driven by Advanced Materials

Call 2023 Two Stages



☐ HORIZON-CL4-2023-RESILIENCE-01-32: Bioinspired and biomimetic materials for sustainable textiles (IA)

☐ HORIZON-CL4-2023-RESILIENCE-01-33: Smart sensors for the Electronic Appliances market (RIA) (**Lump sum**)

☐ HORIZON-CL4-2023-RESILIENCE-01-34: Advanced (nano and bio-based) materials for Sustainable Agriculture (RIA)

☐ HORIZON-CL4-2023-RESILIENCE-01-37: Advanced materials for magnets in applications for the New Energies Market (RIA)



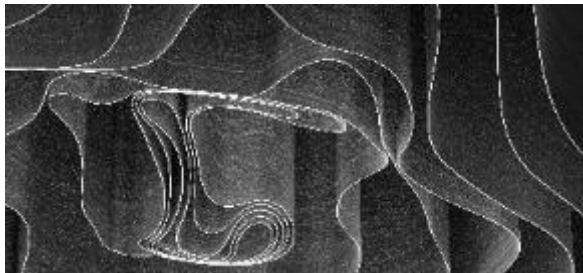
☐ 6-8 M€ TRL de 4 a 6-7

☐ 6-8 M€ TRL 3-4 a 5-6

☐ 6-8 M€ TRL 3-4 a 5-6

☐ 6-8 M€ TRL 3-4 a 5-6

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



**Strategic Innovation
Markets driven by
Advanced Materials**



HORIZON-CL4-2023-RESILIENCE-01-39:
Coordination and knowledge sharing across
materials development communities (CSA)



2 M€ / 1p



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



Improving the resilience of EU businesses,

especially SMEs and Startups

HORIZON-CL4-2023-RESILIENCE-01-42: Boosting generation and diffusion of advanced technologies in SMEs based on a supply chain model (CSA)

2-3 M€
Lump sum

- Build a **model for each industrial ecosystem to identify disruptions** and technological opportunities, alternative suppliers of critical advanced technologies
- Adoption of advanced technologies in traditional SMEs.
- One pilot per each industrial ecosystem.

HORIZON-CL4-2023-RESILIENCE-01-44: Affordable Housing District Demonstrator (IA)

5 M€

- **Demonstrate innovation** in renovation or construction of social housing
- Mobilise **cross-sectoral industrial and multi-stakeholder** partnerships at local level. Focus on **SMEs**
- **New European Bauhaus**, Affordable Housing Initiative, European Urban Agenda.
- Demonstration activities in diverse geographical areas.

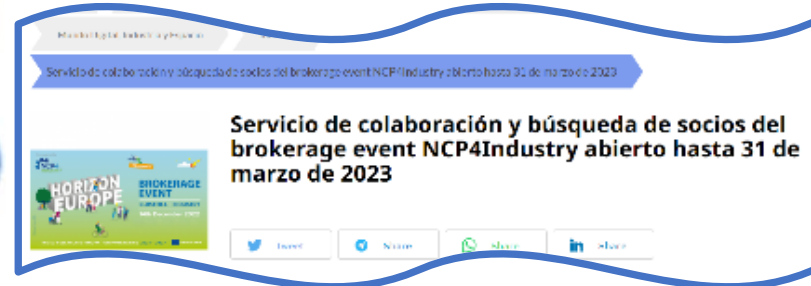
Índice de contenidos

- Introducción al área de Industria
- WP 2023-24: Aspectos horizontales
- Destino 1. Call Twin Transition
- Destino 2. Call Resilience
- Apoyo al participante y próximos eventos

Apoyo al participante

Portal de
eventos

- Acceso a **infodays y sesiones de 2022**. En especial contenidos en aspectos horizontales sobre preparación de las propuestas (parte A y parte B).
https://eventos.cdti.es/ES/20230203_HE_Taller_cluster4industria
- Eventos específicos
 - Sesión específica mecanismos de Lump sum.
 - https://eventos.cdti.es/ES/LosLunes_CDTI_SOST_Bruselas_sesion11
- **Brokerage events para apoyo a búsqueda de socios y preparación propuestas. Abierto hasta 31 de marzo. Ver en la web**



Apoyo al participante

Eventos
informativos y
de apoyo al
participante

- Taller CDTI apoyo a la preparación propuestas y resolución de dudas: 3 de febrero (on line)
https://eventos.cdti.es/ES/20230203_HE_Taller_cluster4industria
- **Infodays regionales CDTI con las agencias de las CCAA. Ver en eventos.cdti.es**
 - Cataluña, País Vasco, Castilla y León, C. Valenciana, Aragón. Galicia, Andalucía.
- Red de NCPs. www.ncp4industry.eu
- Web Horizonte Europa <https://www.horizonteeuropa.es/>.
Servicio alertas RSS



Cluster 4 -Industria



nieves.gonzalez@cdti.es



carlos.toledo@cdti.es

@HorizonteEuropa
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¿Cómo hacerse evaluador?

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/work-as-an-expert>

European Commission | Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS | HOW TO PARTICIPATE | PROJECTS & RESULTS | **WORK AS AN EXPERT** | SUPPORT

Work as an expert

The European Union Institutions appoint external experts to assist in the evaluation of grant applications, projects and tenders, and to provide opinions and advice in specific cases.

Being an expert for the European ...

In particular, experts assist in:

- Evaluation of proposals, prize applications and tenders
- Monitoring of actions, grant agreements, public procurement contracts

In addition, experts provide opinion and advise on:

- Preparation, implementation and evaluation of EU programmes and design of policies.

In order to select experts, the European Union Institutions publish regularly calls for expression of interest (see list below) detailing the selection criteria, the required expertise, the description of the tasks, their duration and the conditions of remuneration.

Interested? Please join the database of external experts!

Register as expert

As new expert, you will be first requested to create your EU login account and register your profile.

Mirando hacia 2025....



Programación
Estratégica 2025-2027

https://research-and-innovation.ec.europa.eu/news/all-research-and-innovation-news/now-open-largest-public-consultation-ever-held-past-present-and-future-european-research-and-2022-12-01_en



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



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