#innovacion
#ayudascdti
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GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA E INNOVACIÓN

CDTI INNOVACIÓN

Cluster 4: Digital, **Industry** and Space

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

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Presupuesto Horizonte Europa: lo que sabemos, 95.517 MEUR

PILAR 1 – CIENCIA EXCELENTE	25.011
ERC - Consejo Europeo de Investigación	16.004
MSCA - Acciones Marie Skłodowska-Curie	6.602
Infraestructuras de investigación	2.406

PILAR 2 - RETOS MUNDIALES Y COMPETITIVIDAD INDUSTRIAL EUROPEA	53.516
Clúster 1 - Salud	8.246
Clúster 2 - Cultura, creatividad y sociedad inclusiva	2.280
Clúster 3 - Seguridad	1.596
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

PILAR 3 – INNOVACIÓN ABIERTA	13.597
EIC- Consejo Europeo de Innovación	10.105
Ecosistemas de innovación europea	527
EIT - Instituto Europeo de Innovación y Tecnología	2.965

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)

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Índice de contenidos

- ➤ Destinos y convocatorias del Clúster 4 Industria

- ➤ Topics de potencial interés en Movilidad

- ➤ Apoyo al participante Cluster 4 Industria

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

Cluster 4:
Mundo digital, Industria y Espacio

WP 2023-2024

Destination 1:
Climate neutral, circular and digitised production
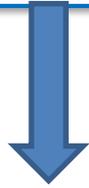
Destination 2:
Increased autonomy in key strategic value chains for resilient industry

Call
TWIN GREEN AND DIGITAL TRANSITION
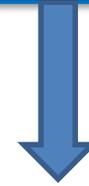
Call
RESILIENT VALUE CHAINS

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

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7

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

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Work Program 2023-2024

Prestar atención

- ❑ Se mantiene piloto **60%** financiación (for profit entities) en IA de partenariados co-programados
- ❑ Incorporación convocatorias en **2 fases**
- ❑ Afecta a **distintas fechas** de apertura y cierre: **2023** marzo (fase 1), abril (fase única), octubre (fase 1)
- ❑ **Fases 1 con blind evaluation.**
- ❑ Incorporación mecanismos de justificación **lump sum.**
- ❑ **Versiones actualizadas de los templates RIA-IA, CSA, fase única y dos fases**
- ❑ **Límites de páginas**: ampliación por incorporación de **lump sum (ver topic y aviso en templates)**, ampliación por **plan de negocio y explotación (ver en el topic)**

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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
- 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

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Resultados provisionales Industria 2021

2. Resilience

1. Twin Transition

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**

DESTINATION 1 - TIPO DE ENTIDAD

Asociaciones
Otros
OPIs (4%)
Administración Pública
Universidades (9%)
Empresas (48,6 %)
Centros Tecnológicos (32,3%)

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**

DESTINATION 2 - TIPO DE ENTIDAD

Asociaciones
Centros de Investigación
Universidades (5%)
Administración Pública
OPIs (7,6%)
Centros Tecnológicos (40,9%)
Empresas (36,4 %)

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Resultados provisionales Partenariados 2021-2022

278 propuestas con participación ES (74,1%)

82 proyectos financiados con participación ES (91,7%)
15 coordinados ES (31,2%)

Tasa de éxito ES: 15,8% vs. 12,8% global

57,3 M€ para entidades ES
ES 1º país en retorno (18,50%)

MADE IN EUROPE (2021-22)

Empresas (45,2%)
Centros Tecnológicos (38,8%)
Universidades (8%)
OPIs (3%)
Asociaciones
Otros

Cluster 4:
Mundo digital, Industria y Espacio

Call 2023

Destination 1:
Climate neutral, circular and digitised production

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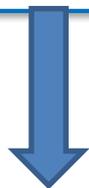
Call
TWIN GREEN AND DIGITAL TRANSITION

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

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Partenariados en Cluster 4 - Industria

Metrología

https://metpart.eu/
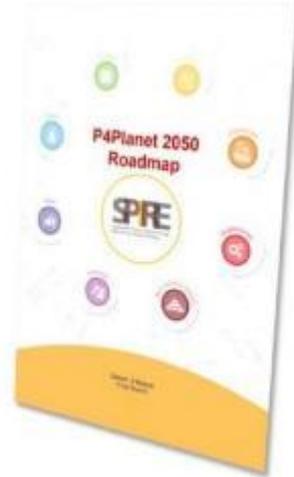
- Partenariados co-programados

- Partenariado institucionalizado

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Destination 1: Climate neutral, Circular and Digitised Production 2023

Manufacturing Industry

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

Energy efficient and climate neutral process industries

Circularity and Zero Pollution in process industries

Clean Steel, to the Fit for 55 targets

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

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 (Made in Europe and Photonics Partnerships) (IA)

48 M€/ 8 p / TRL 5-7

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

Factory-level and value chain approaches for remanufacturing (Made in Europe Partnership) (IA)

37,6 M€/ 6 p / TRL 5-7

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 (Made in Europe Partnership) (RIA) | 32 M€/ 6 p / TRL 3-6

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

Foresight and technology transfer for Manufacturing as a Service (Made in Europe Partnership) (CSA) | 1 M€ / 1p

Cluster 4:
Mundo digital, Industria y Espacio

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
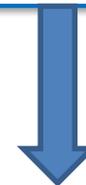
Call
RESILIENT VALUE CHAINS

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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**

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 de participación en elegibility conditions
	".. beneficiaries must make use of **Copernicus and/or Galileo/EGNOS** (other data and services may additionally be used)."

Topics en Raw materials

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

20 M€/ 3p / TRL 6-7

> ➤ **Actions are expected to contribute to** the implementation the **EU action plan on Critical Raw Materials**
> ➤ and the **action plan on Rare Earth Magnets and Motors from the European Raw Materials Alliance**
> ➤ https://erma.eu/european-call-for-action/

EUROPEAN RAW MATERIALS ALLIANCE | ERMA

Ensuring access to the raw materials for the European

Green Deal: A European Call for Action

Topics en Raw materials

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

20 M€/ 3p / TRL 6-7

- ➢ **Priority is neodymium magnets**, **but other highly performant magnets** can also be targeted if duly justified
- ➢ Developed improved magnets and their **recyclability should be tested in the final application in relevant motors or generators**.
- ➢ Actions could **additionally address disruptive technologies** for highly performant magnets

Destination 2: Increased Autonomy in Key Strategic Value Chains for Resilient Industry
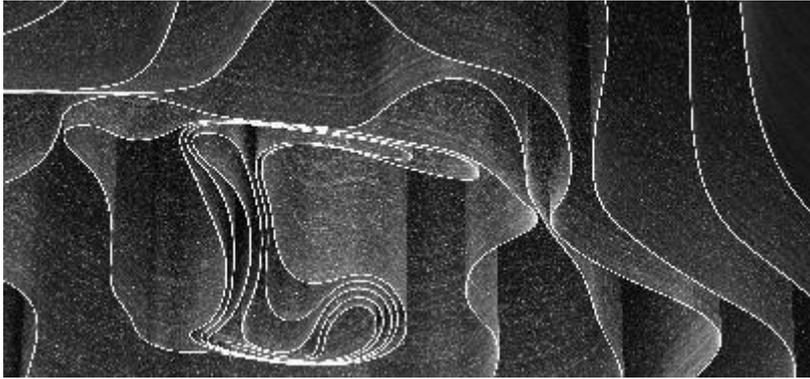
Strategic Innovation Markets driven by Advanced Materials

Call 2023 Two Stages

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

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

Strategic Innovation Markets driven by Advanced Materials

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

31 M€/ 4p / TRL 4-7

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

31 M€/ 4p / TRL 3-6

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

31 M€/ 4p / TRL 3-6

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

31 M€/ 4p / TRL 3-6

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

HORIZON-CL4-2023-RESILIENCE-01-37: Advanced materials for magnets in applications for the New Energies Market (RIA)
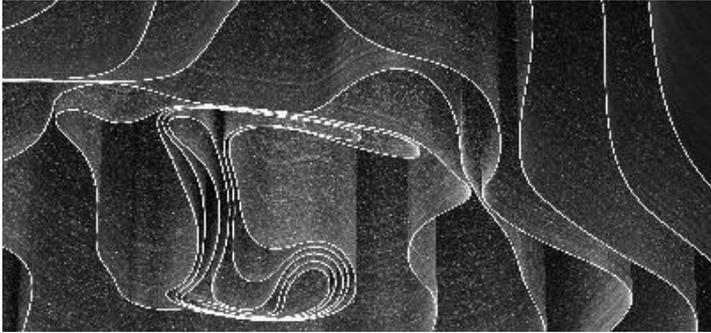
Strategic Innovation Markets driven by Advanced Materials

- ✓ **Indicative budget: EUR 31 million EU contribution per project: EUR 6-8 million**

- ✓ **Type of Action: RIA**

- ✓ **1st stage: 7th March 2023**

- ✓ **TRL:3-4 to 5-6**

- ✓ **Blind evaluation**

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

HORIZON-CL4-2023-RESILIENCE-01-37: Advanced materials for magnets in applications for the New Energies Market (RIA)
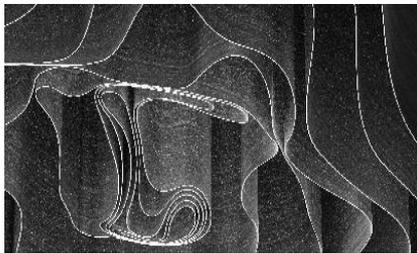
**Strategic Innovation Markets driven by Advanced Materials**

Europe's industry will benefit from advanced materials for magnets that are either free from rare-earth metals, or use to a significant extent a substitute and reduce the share of rare-earth metals magnets

The new advanced materials for high-performance magnets must be available at an industrial scale

The political ambitions of the European Green Deal matching the increasing demand for energy harvesting and storage with the ambition to reduce emissions.

HORIZON-CL4-2023-RESILIENCE-01-37: Advanced materials for magnets in applications for the New Energies Market (RIA)
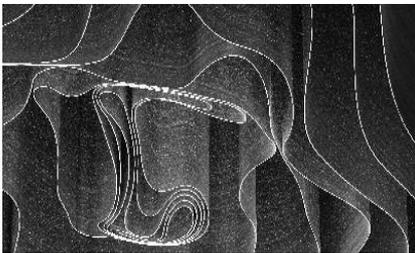
Strategic Innovation Markets driven by Advanced Materials

Bullets in the Scope

Rare-earth metals for magnets shall be replaced or reduced *with inexpensive and non-critical materials*

Designing new rare-earth-free permanent magnetic materials (PMM) *to replace high performing but critically restrained rare-earth-based PMM*

*Projects must demonstrate **50% enhanced magnetic performance***

Life-cycle assessment and techno-economic assessment (LCA/TEA) *will analyse the economic relevance of the new advanced materials for magnets.*

Scaling the production to an industrial level *for advanced materials for magnets that are **rare-earth metal free** or **substituted.***

The European Network of HE Cluster 4 Industry National Contact Points

Services

Proposal Idea Check

13th of March 2023

Proposal Idea Check is a free service offered by the international network of Horizon Europe Cluster 4 Industry National Contact Points, NCP4Industry. This form may be submitted by the coordinator or partner, however, it is highly recommended to submit it at least several months before the call topic deadline.

...ease fill the template below and send your project idea **by 13th of March 2023**. The ...4Industry network will be in contact with all the participants and the feedback ...gs will be organised in February-March 2023

www.ncp4industry.eu

https://ncp4industry.eu/proposal-idea-check/

Industry Matchmaking Event still open until 31 March 2023

Home > News > NCP Networks > Industry Matchmaking Event still open until 31 March 2023

https://ncp4industry.eu/industry-matchmaking-event-still-open-until-31-march-2023/

Apoyo al participante

Portal de eventos

- *Acceso a **infodays y sesiones de 2022-23**. 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*

Los Lunes de CDTI-SOST Bruselas (S11): Lump sum en propuestas de Horizonte Europa

HORIZONTE EUROPA
Infoday - Taller Cluster 4 "Industria"

Servicio de colaboración y búsqueda de socios del brokerage event NCP4Industry abierto hasta 31 de marzo de 2023

Apoyo al participante

Eventos informativos y de apoyo al participante	• Taller CDTI apoyo a la preparación 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.
	• *Web Horizonte Europa* https://www.horizonteeuropa.es/ . *Servicio alertas RSS*

Apoyo al participante

Clúster 4 – Industria

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

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