

#innovacion
#ayudascdti
#asesoramiento
#internacionalizacion



Cluster 4: Digital, Industry and Space

Carlos Toledo

Carlos.Toledo@cdti.es

NCP Cluster 4 Industry

*Horizon Europe. Industrial Leadership
Directorate of European Programmes and
Regional Cooperation*

Cluster 4 – DIGITAL, INDUSTRY & SPACE





Pilar 1 Excelencia científica

Consejo Europeo de
Investigación (ERC)

Acciones Marie Skłodowska-
Curie (MSCA)

Infraestructuras de Investigación



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

Centro Común de Investigación
(JRC)



Pilar 3 Europa innovadora

Consejo Europeo de Innovación
(EIC)

Ecosistemas europeos de
innovación

Instituto Europeo de Innovación
y Tecnología (EIT)

Ampliar la participación y reforzar el Espacio Europeo de Investigación

Ampliar la participación y difundir la excelencia

Reformar y mejorar el sistema europeo de I+i

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)

Índice de contenidos

- Destinos y convocatorias del Clúster 4 Industria
- Introducción al WP 2023-24. Aspectos horizontales
- Destino 1. Call Twin Transition
- Destino 2. Call Resilience
- Apoyo al participante y próximos eventos



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.

Índice de contenidos

- Destinos y convocatorias del Clúster 4 Industria
- Introducción al WP 2023-24. Aspectos horizontales
- Destino 1. Call Twin Transition
- Destino 2. Call Resilience
- Apoyo al participante y próximos eventos

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

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

**WP 2023-
2024**

Destination 1:

Climate neutral, circular
and digitised production

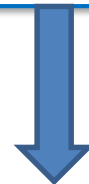


Call

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

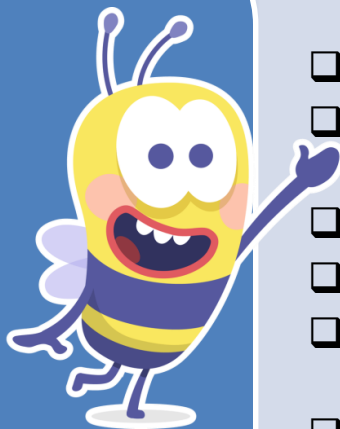
Work Program 2023-2024

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

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)**

Índice de contenidos

- Destinos y convocatorias del Clúster 4 Industria
- Introducción al WP 2023-24. Aspectos horizontales
- Destino 1. Call Twin Transition
- Destino 2. Call Resilience
- Apoyo al participante y próximos eventos



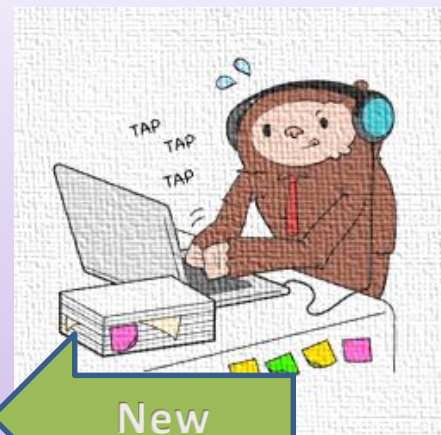
Condiciones de admisibilidad

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**



New

Admissibility conditions	The conditions are described in General Annex A. The following exceptions apply: 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).
--------------------------	--

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.

This document is for internal use only. The tags: they are needed for processing.] #@APP-FORM-HERIAIA1ST@## @REL-EVA-RE@#

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

Joint Research Centre, JRC*

Eligibility conditions	The conditions are described in General Annex B. The following exceptions apply: The Joint Research Centre (JRC) may participate as member of the consortium selected for funding.
------------------------	--

- **Where provided for in the specific call conditions**, applicants may include in their proposals the possible contribution of the JRC but **the JRC will not participate in the preparation and submission of the proposal.**
- Applicants will **indicate the contribution that the JRC could bring to the project** based on the scope of the topic text.
- **After the evaluation process**, the **JRC and the consortium** selected for funding **may come to an agreement** on the specific terms of the participation of the JRC.
- If an agreement is found, the **JRC** may accede to the grant agreement as **beneficiary requesting zero funding or participate as an associated partner** and would accede to the consortium as a member.

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**



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**



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)



Resultados provisionales Partenariados 2021-2022

86 propuestas con participación ES (75,4%)

18 proyectos financiados con participación ES (75%)
5 coordinados ES (20,82%)

Tasa de éxito ES: 20,9% vs. 21,9% global

54,2 M€ para entidades ES
ES 1º país en retorno (21,50%)



Processes4Planet

PROCESSES 4 PLANET (2021-22)



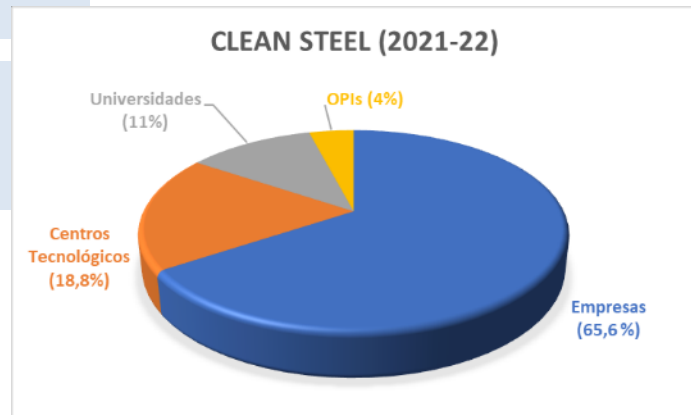
Resultados provisionales Partenariados 2021-2022

10 propuestas con participación ES (62,5%)

5 proyectos financiados con participación ES (50%)
0 coordinados ES (0%)

Tasa de éxito ES: 50,0% vs. 62,5% global

5,1 M€ para entidades ES
ES 4º país en retorno (11,60%)



Índice de contenidos

- Destinos y convocatorias del Clúster 4 Industria
- Introducción al WP 2023-24. Aspectos horizontales
- Destino 1. Call Twin Transition
- Destino 2. Call Resilience
- Apoyo al participante y próximos eventos

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

Destination 1: Twin green and digital transition



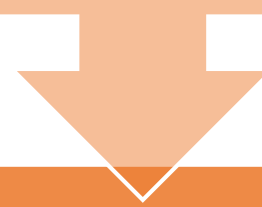
Manufacturing Industry



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

Destination 1: Twin green and digital transition

Energy intensive process Industries

Energy efficient and climate neutral process industries



PROCESSES4PLANET



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

Energy efficiency breakthroughs in the process industries (Processes4Planet partnership) (RIA)

32 M€/ 3p /
TRL 4-6



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

Electrification of high temperature heating systems (Processes4Planet Partnership) (IA)

35,67 M€/ 3p
/ TRL 5-7

Destination 1: Twin green and digital transition

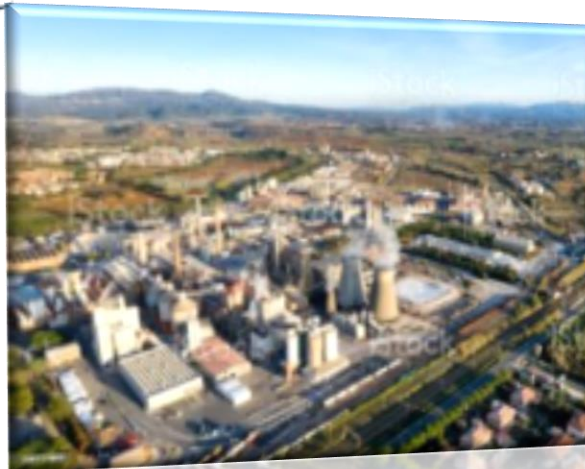
Energy intensive process Industries

Energy efficient and climate neutral process industries

Circularity and Zero Pollution in process industries



PROCESSES4PLANET



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

Modelling industry transition to climate neutrality, sustainability and circularity (Processes4Planet partnership) (RIA)

13 M€/ 2p / TRL NA



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 (Processes4Planet partnership) (IA)

40 M€/ 2p / TRL 5-7

Destination 1: Twin green and digital transition

Energy intensive process Industries

Circularity and Zero Pollution in process industries



PROCESSES4PLANET



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

Sustainable and efficient industrial water consumption: through energy and solute recovery (Processes4Planet partnership) (RIA)

30 M€/ 3p / TRL 4-6



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

Circular economy in process industries: Upcycling large volumes of secondary resources (Processes4Planet partnership) (RIA)

30 M€/ 3p / TRL 4-6

Destination 1: Twin green and digital transition

Clean Steel

to the Fit for 55 targets



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 (Clean Steel Partnership) (IA)

23 M€/ 4p / TRL 5-7



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 (Clean Steel Partnership) (RIA)

12 M€/ 2p / TRL 5-6

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)

- ✓ **Indicative budget: EUR 12 million**
- ✓ **EU contribution per project: EUR 5-6 million**
- ✓ **Type of Action: Research & Innovation Action**
- ✓ **TRL: start at TRL 4 and achieve TRL 6**
- ✓ **Se aplica Lump Sum y Blind evaluation (fase 1)**

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)

Expected Outcomes :

*Identification, analysis and **digitisation of materials and products** from existing built works*

*Increased **construction products for reuse**, thus reducing the resource- and energy-intensity of the sector*

Reduction in construction and demolition waste

*Improved facility to **re-use and repair construction products***

*Improvements to **labour productivity***



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)

Scope:

*New techniques and technologies to **rapidly identify materials** and
analyse properties*

***Digitally record** for tools and database*

Identify appropriate reuse, repair or recycling processes

***Circular use** as secondary materials*

Skills development and SSH aspects



Índice de contenidos

- Destinos y convocatorias del Clúster 4 Industria
- Introducción al WP 2023-24. Aspectos horizontales
- Destino 1. Call Twin Transition
- Destino 2. Call Resilience
- Apoyo al participante y próximos eventos

Cluster 4: Mundo digital, Industria y Espacio

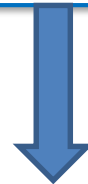
Call 2023

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

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 eligibility conditions

“.. beneficiaries must make use of **Copernicus and/or Galileo/EGNOS** (other data and services may additionally be used).”

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

Topics en Raw materials

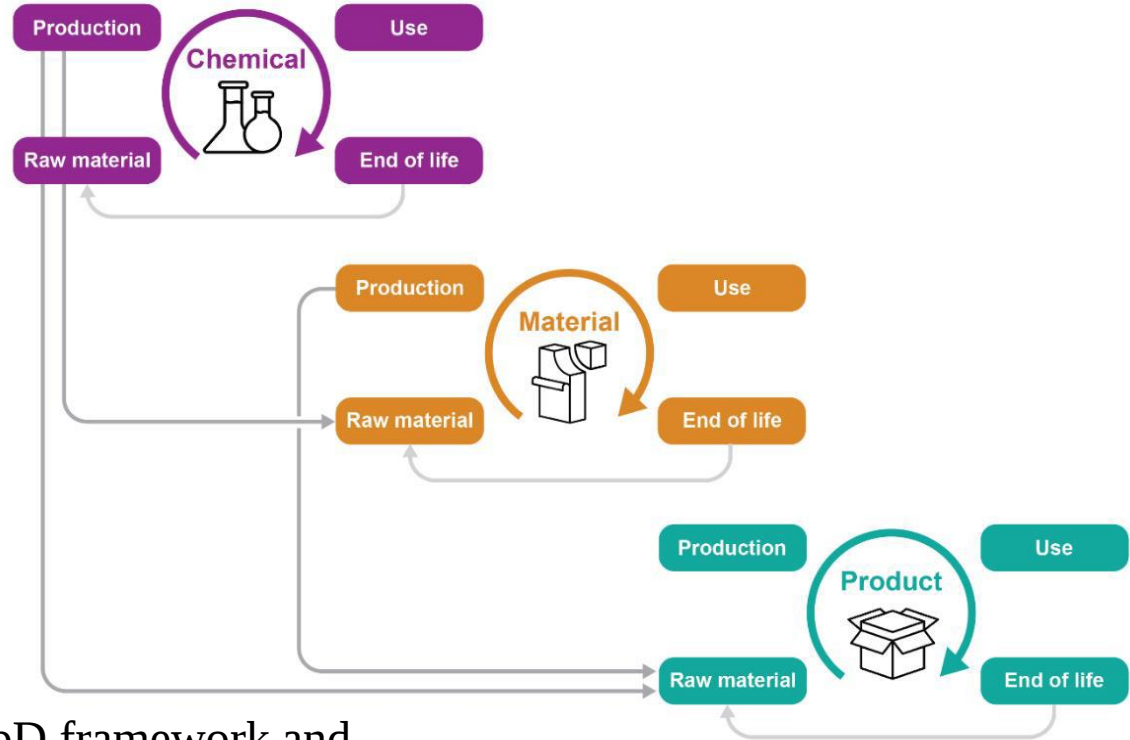


☐ HORIZON-CL4-2023-RESILIENCE-01-02: Innovative technologies for sustainable and decarbonised extraction (RIA)	☐ 25 M€/ 5p / TRL 3-5
☐ HORIZON-CL4-2023-RESILIENCE-01-03: Technologies for processing and refining of critical raw materials (IA)	☐ 22 M€/ 3p / TRL 6-7
☐ HORIZON-CL4-2023-RESILIENCE-01-05: Recycling technologies for critical raw materials from EoL products (IA)	☐ 28 M€/ 4p / TRL 6-7
☐ HORIZON-CL4-2023-RESILIENCE-01-06: Earth Observation platform, products and services for raw materials (IA)	☐ 20 M€/ 3p / TRL 6-7
☐ HORIZON-CL4-2023-RESILIENCE-01-07: Expert network on Critical raw materials (CSA)	☐ 3 M€/ 1p / TRL n.a.

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



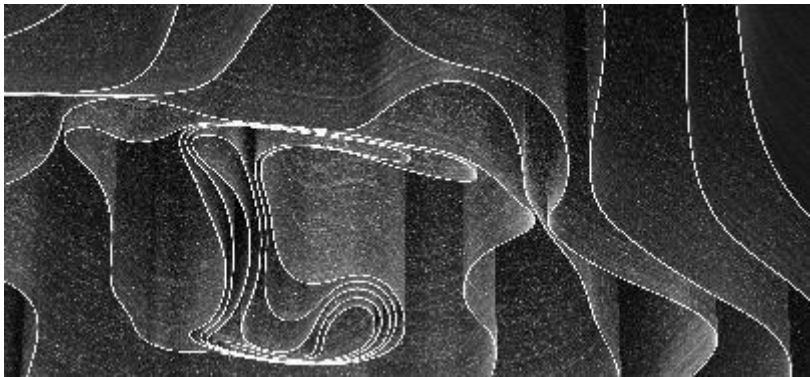
- ☐ HORIZON-CL4-2023-RESILIENCE-01-21: Innovative methods for safety and sustainability assessments of chemicals and materials (RIA)
- ☐ HORIZON-CL4-2023-RESILIENCE-01-22: Integrated approach for impact assessment of safe and sustainable chemicals and materials (RIA)
- ☐ HORIZON-CL4-2023-RESILIENCE-01-23: Computational models for the development of safe and sustainable by design chemicals and materials (RIA) (Lump sum))

☐ **29 M€/ 4p / TRL -6**

☐ **15 M€/ 4p / TRL -5**

☐ **29 M€/ 4p / TRL -6**

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

Call 2023 Two Stages



☐ 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

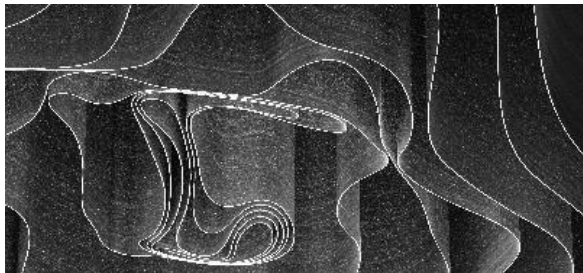
☐ HORIZON-CL4-2023-RESILIENCE-01-34: Advanced (nano and bio-based) materials for Sustainable Agriculture (RIA)

☐ 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



**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)

- ✓ Indicative budget: **EUR 10 million**
- ✓ EU contribution per project: **EUR 2-3 million**
- ✓ Type of Action: **CSA**
- ✓ TRL: **NA**
- ✓ Lump Sum

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)

Some Expected outcomes:

*Build a **model for each industrial ecosystem to identify disruptions and technological opportunities***

Identify potential alternate suppliers of critical advanced technologies

***Launch one pilot** project per each industrial ecosystem*

Increase the adoption of advanced technologies in traditional SMEs

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-01-44: Affordable
Housing District Demonstrator (IA)

- ✓ **Indicative budget: EUR 10 million**
- ✓ **EU contribution per project: EUR 5 million**
- ✓ **Type of Action: Innovation Action**
- ✓ **TRL: NA**
- ✓ *Demonstration activities in diverse geographical areas, those that ensure the most complementary geographical coverage*

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-01-44: Affordable
Housing District Demonstrator (IA)

Some Expected outcomes:

***Demonstrate innovation** in renovation or construction of social
housing*

*Mobilise **cross-sectoral industrial and multi-stakeholder**
partnerships at local level*

*Focus on **SMEs***

*Demonstrations on affordable technological innovation, social and
green innovation, innovative partnerships.*

*Key words: **New European Bauhaus, Affordable Housing Initiative,
European Urban Agenda.***

Índice de contenidos

- Destinos y convocatorias del Clúster 4 Industria
- Introducción al WP 2023-24. Aspectos horizontales
- Destino 1. Call Twin Transition
- Destino 2. Call Resilience
- Apoyo al participante y próximos eventos



The European Network of HE Cluster 4 Industry National Contact Points

Services



www.ncp4industry.eu



ncp4industry@apre.it



[@NCP4Industry](https://twitter.com/NCP4Industry)



[NCP4Industry](https://www.linkedin.com/company/NCP4Industry)



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)
- 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**



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.
Próximo 3 de febrero (on line)
- ***Infodays regionales CDTI con las agencias de las CCAA. Ver en eventos.cdti.es***
 - Cataluña, País Vasco, Castilla y León, C. Valenciana, Aragón.
- Red de NCPs. **www.ncp4industry.eu**
- Web Horizonte Europa <https://www.horizonteeuropa.es/> .
Servicio alertas RSS



Apoyo al participante

Clúster 4 – Industria



nieves.gonzalez@cdti.es



carlos.toledo@cdti.es

@HorizonteEuropa
@CDTIoficial

www.HorizonteEuropa.es
www.cdti.es



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



@HorizonteEuropa - @CDTIoficial