

Agenda



Agenda:

12:00 Bienvenida

12:00-12:10 Breve recordatorio contexto político de las convocatorias

12:10-12:30 Breve recordatorio de las convocatorias 2024 TWIN TRANSITION, RESILIENT INDUSTRY

12:30-12:40 Breve recordatorio próximos eventos de interés para los participantes

12:40-13:15 Preguntas asistentes

#innovacion
#ayudascdti
#asesoramiento
#internacionalizacion



Cluster 4: Industry

Lanzamiento de convocatorias 2024



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HORIZONTE

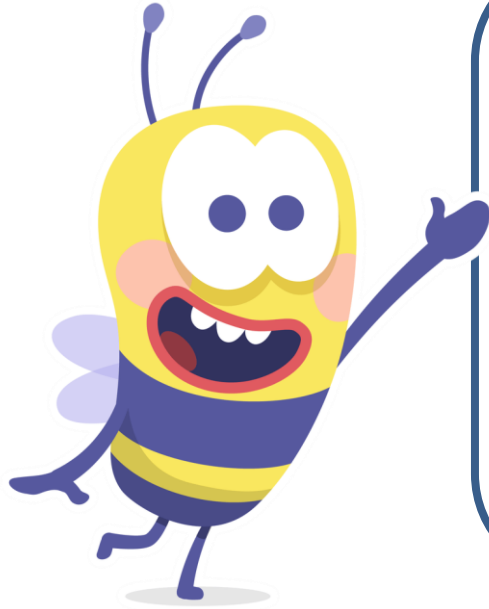
EUROPA
@HorizonteEuropa

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

DISCLAIMER



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

- Recordatorio Contextos políticos del Clúster 4 Industria
- Convocatorias 2024
 - Destino 1 TWIN TRANSITION
 - Destino 2 RESILIENT INDUSTRY
- Recordatorio aspectos horizontales
- Próximos Eventos y Apoyo al participante

Contexto Político Cluster 4 Industria



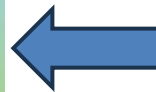
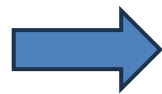
Plan Estratégico
2021-2024

Twin Transition



Resilience





2024 y más allá...



European Critical Raw Materials Act

2030 benchmarks for strategic raw materials:



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



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



EU RECYCLING
At least **15%** of the EU's annual requirements 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



Acuerdos de Asociación a Horizonte Europa

Nuevos países asociados: Nueva Zelanda y **Reino Unido**.



*“UK researchers will be able to fully participate in the Horizon Europe programme on the same terms as researchers from other associated countries, **including leading consortia**, from the 2024 Work Programmes and onwards – **including any 2024 calls opening this year.**”*

Relevant Policies 2023-2024

The **European Industrial Strategy** of March 2020, Update of May 2021. [European Industrial Strategy of March 2020](#). [Update of May 2021](#)

- There is now a renewed momentum in the EU to tackle **its strategic dependencies** as well as to boost **its resilience across key strategic areas**.
- The **Covid-19 crisis** revealed **the importance of improving production response and preparedness of EU industry**, in support of its long-term competitiveness.
- the most **sensitive ecosystems included materials on the list of critical raw materials**

The **Circular Economy Action Plan** of March 2020. [Circular Economy Action Plan](#)

- Initiatives along **the entire life cycle of products**.
- It targets how **products are designed**, promotes **circular economy processes**, encourages **sustainable consumption**,
- and aims to ensure that **waste is prevented** and the **resources used are kept in the EU economy** for as long as possible.

The **Zero Pollution Action Plan** of May 2021. [Zero Pollution Action Plan](#)

- to strengthen the **EU green, digital and economic leadership**, whilst creating a **healthier, socially fairer Europe and planet**.
- addresses **both pollution and waste**, where research needs could be tackled
- particularly relevant to advanced materials , the process industries, and the manufacturing industry.**

Relevant Policies 2023-2024

The Digital Decade of March 2021. [Digital Decade](#)

❑ a vision, targets and avenues for a **successful digital transformation** of Europe **by 2030**.

The Chemicals Strategy for Sustainability of October 2020. [Chemicals Strategy](#)

❑ to better **protect citizens and the environment** whilst boosting the **innovation for safe and sustainable chemicals**.

❑ to develop a **Safe and Sustainable by Design (SSdB)** framework and criteria

The Materials 2030 Roadmap. [Materials 2030 Manifesto](#) / <https://www.ami2030.eu/>

❑ **synergies** between **advanced materials, circularity, digital and industrial technologies**

❑ the **evolution of materials research by uniting digital** and material capacities and competences

❑ combining **technology push with market pull**

The Fit for 55 Package of July 2021, delivering the EU's 2030 Climate Target on the way to climate neutrality

❑ given **the process industries' 20% share of global GHG emissions**. https://ec.europa.eu/clima/eu-action/european-green-deal/2030-climate-target-plan_en

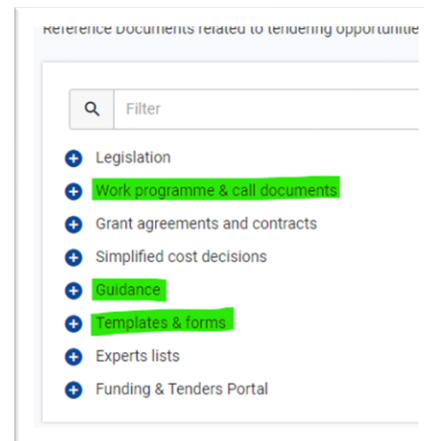
Por donde empezamos/ Funding and tender portal

• DOCUMENTOS DE REFERENCIA

- [HE Programme Guide](#)
- [WORK PROGRAMME Digital, industry and Space v2.0.](#)
- [LIST OF ELEGIBLE COUNTRIES](#)
- TEMPLATES AND FORMS. Ej: [Standard application form \(HE RIA IA\)](#)
- EVALUATION FORMS. Ej: [Standard evaluation form \(HE RIA IA\)](#)

General conditions

- **1. Admissibility conditions:** described in [Annex A](#) and [Annex E](#) of the Horizon Europe Work Programme General Annexes.
- **Proposal page limits and layout:** described in Part B of the Application Form available in the Submission System.
- **2. Eligible countries:** described in [Annex B](#) of the Work Programme General Annexes.
- A number of non-EU/non-Associated Countries that are not automatically eligible for funding have made specific provisions for making funding available for their participants in Horizon Europe projects. See the information in the [Horizon Europe Programme Guide](#).



Por donde empezamos /Funding and tender portal

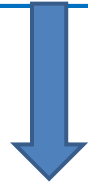
- **3. Other eligibility conditions:** described in [Annex B](#) of the Work Programme General Annexes.
- **4. Financial and operational capacity and exclusion:** described in [Annex C](#) of the Work Programme General Annexes.
- **5. Evaluation and award:**
 - **Award criteria, scoring and thresholds** are described in [Annex D](#) of the Work Programme General Annexes.
 - **Submission and evaluation processes** are described in [Annex F](#) of the Work Programme General Annexes and the [Online Manual](#).
 - **Indicative timeline for evaluation and grant agreement:** described in [Annex F](#) of the Work Programme General Annexes.
- **6. Legal and financial set-up of the grants:** described in [Annex G](#) of the Work Programme General Annexes

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

Call 2024

Destination 1:

Climate neutral, circular
and digitised production



Call

TWIN GREEN AND
DIGITAL TRANSITION

Convocatorias 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**

Destination 1: Twin green and digital transition

Manufacturing



Construction

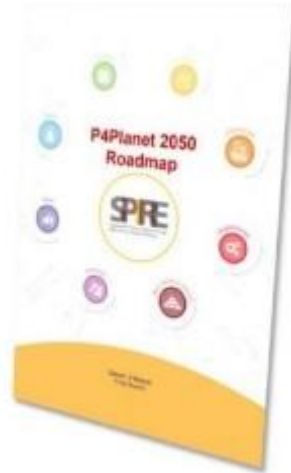


Process Industry



- Global leadership in clean, climate-neutral and resilient industrial value chains, circular economy and climate-neutral and human-centric digital systems and infrastructures,
- through innovative production and manufacturing processes and their digitization,
- new business models,
- sustainable-by-design advanced materials and technologies enabling the switch to decarbonisation in all major emitting industrial sectors, including green digital technologies.
- for achieving climate neutrality of the industrial sector by 2050

Partenariados en Cluster 4 - Industria



Metrología

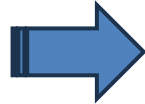


<https://metpart.eu/>

- Partenariados co-programados

- Partenariado institucionalizado

Partenariados en Cluster 4 - Industria



GOBIERNO DE ESPAÑA | MINISTERIO DE CIENCIA E INNOVACIÓN | CDTI INNOVACIÓN | SPAIN OFFICE FOR SCIENCE AND TECHNOLOGY | SOST-BRUSSELS

2ª Temporada de Los Lunes de CDTI-SOST Bruselas (S9): Partenariados en el Clúster 4 de Horizonte Europa (Industria)

Registro | Agenda | Presentación de Chris Decubber | Presentación de Angels Orduña

Presentación de Klaus Peters | Presentación de Nieves González | Agenda próximas sesiones

Grabación de la sesión

Webinario online

Comienza: 11:00

Evento terminado

Añade al calendario

Información ampliada sobre los **partenariados** en la sesión del siguiente [enlace](#)

Partenariados: Processes for Planet



- ❖ Inicio en H2020 (2013) Sustainable Process Industry.
- ❖ Asociación SPIRE
- ❖ Sectores: químico, acero, cemento, cerámica, minerales, metales no ferrosos, ingeniería, agua (papel, refino)
- ❖ Presupuesto propuesto HE: **1530 M€**



Partenariados: Clean Steel




Clean Steel Partnership Research and Innovation Strategy



3 Technology Pathways

- Carbon direct avoidance (CDA)
- Smart carbon Usage (SCU)
- Circular Economy (CE)



Focus on impact in steel plants

**Presupuesto
propuesto HE:
350 M**

6 Areas of Intervention

- Following technology pathways



CSP budget allocation

12 Building Blocks

- Bring to TRL8 at large scale



Collaborative research and innovation



<https://www.estep.eu/assets/Uploads/CSP-SRIA-Oct2021-clean.pdf>

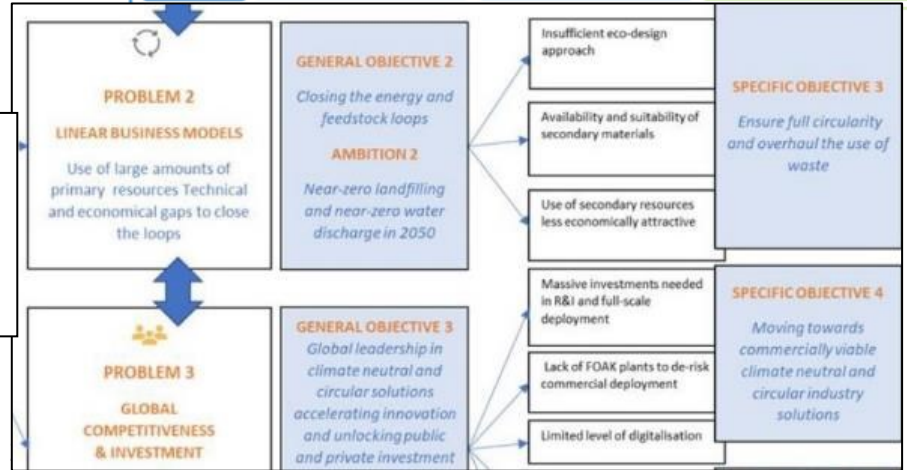
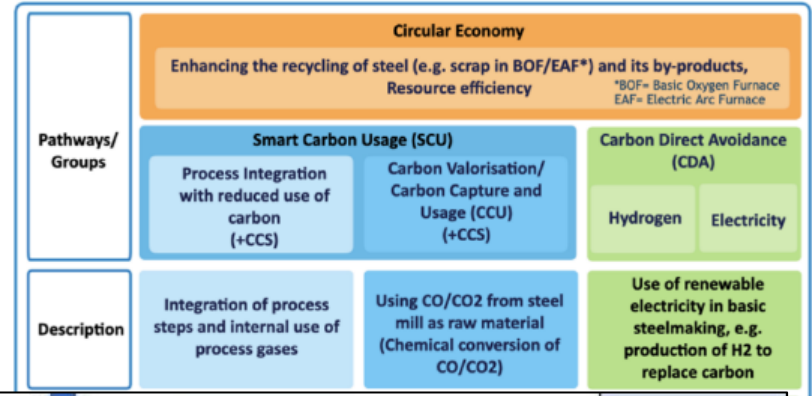
Economía Circular en los Partenariados



Re-manufacturing
 Recycling technologies
 Life-cycle analysis approaches



Clean Steel



Destination 1: Twin green and digital transition 2024



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

Circularity and Zero Pollution in process industries

Clean Steel, to the Fit for 55 targets



TWIN TRANSITION Bloques temáticos (convocatoria en FASE UNICA)

	Topics	Temática		Ppto (M€)	
MiE	HORIZON-CL4-2024-TWIN-TRANSITION-01-03	Manufacturing as a Service MaaS	RIA	35	Lump sum/+3 pages
MiE	HORIZON-CL4-2024-TWIN-TRANSITION-01-05	Circularity for Manufacturing	RIA	36	+3 pages
CSP	HORIZON-CL4-2024-TWIN-TRANSITION-01-44	Digital transformation to optimise steel supply chains	IA	10	Lump sum
CSP	HORIZON-CL4-2024-TWIN-TRANSITION-01-46	CO2-neutral steel production with hydrogen OR innovative steel applications for low CO2 emissions	RIA	20	

TWIN TRANSITION Bloques temáticos (convocatoria en FASE UNICA)

	Topics	Temática		Ppto (M€)	
P4P	HORIZON-CL4-2024-TWIN-TRANSITION-01-32	Optimisation of thermal energy	IA	30	+3 pages
P4P	HORIZON-CL4-2024-TWIN-TRANSITION-01-34	Renewable hydrogen as feedstock	RIA	20	+3 pages
P4P	HORIZON-CL4-2024-TWIN-TRANSITION-01-35	CO2 emissions to feedstock	IA	30	+3 pages /60% funding rate
P4P	HORIZON-CL4-2024-TWIN-TRANSITION-01-38	Hubs for circularity	IA	40	+3 pages
P4P	HORIZON-CL4-2024-TWIN-TRANSITION-01-41	Breakthroughs to industry resource efficiency	RIA	30	lump sum /+3 pages

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	25	Blind ev. Lump sum/ +3 pages
A New way to Build	HORIZON-CL4-2024-TWIN-TRANSITION-01-12	Enhanced repair of civil engineering infrastructure	RIA	12	Blind ev. Lump sum

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

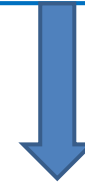
Call 2024

Convocatorias 2023

- ❑ Fase única:
 - ✓ Apertura: 19 de septiembre de 2023
 - ✓ Cierre: 7 de febrero de 2024
 - ✓ 7 topics
 - ✓ M€ 160,20
- ❑ 2 fases:
 - ❖ Apertura: 19 de septiembre de 2023
 - ❖ Cierre:
 - ✓ 7 de febrero de 2024 (1)
 - ✓ 24 de septiembre 2024 (2)
 - ❖ 2 topics
 - ❖ M€ 62

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 2024

Raw Materials



Advanced Materials



Value Chains - Business



- 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.

Destination 2: Increased Autonomy in Key Strategic Value Chains for Resilient Industry 2024



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



Improving the resilience of EU businesses, especially SMEs and Startups

RESILIENT INDUSTRY Bloques temáticos (convocatoria en FASE UNICA)

	Topics	Temática		Ppto (M€)	
Raw Materials	HORIZON-CL4-2024-RESILIENCE-01-01	Exploration in deep land deposits	RIA	20	Elegibility conditions. (todo el bloque)
Raw Materials	HORIZON-CL4-2024-RESILIENCE-01-04	Technologies for processing and refining of CRM	IA	22	+3 pages
Raw Materials	HORIZON-CL4-2024-RESILIENCE-01-08	Rare Earth and magnets innovation hubs	IA	32	+3 pages
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	15	INCO / Lump sum / + 3 pages

RESILIENT INDUSTRY Bloques temáticos (convocatoria en FASE UNICA)

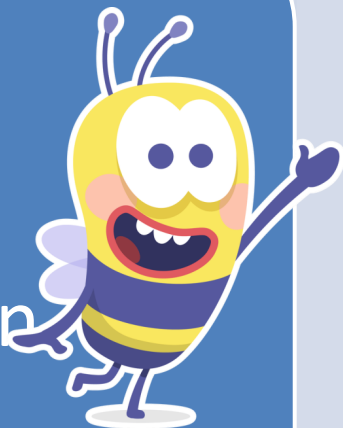
	Topics	Temática		Ppto (M€)	
Safe and Sustainable by Design (SSbD) Resilience EU bus., SMEs, Start-ups	HORIZON-CL4-2024-RESILIENCE-01-24	Development of SSbD alternatives	IA	59	+3 pages SSH
	HORIZON-CL4-2024-RESILIENCE-01-41	'Innovate to transform' support for SME's	CSA	10	Lump sum FSTP

RESILIENT INDUSTRY Bloques temáticos (convocatoria en 2 FASES)

	Topics	Temática	Ppto (M€)		
Advanced materials	HORIZON-CL4-2024-RESILIENCE-01-35	Biodegradable polymers for sustainable packaging materials	IA	31	Blind Ev./ +3 pages
Advanced materials	HORIZON-CL4-2024-RESILIENCE-01-36	Advanced biomaterials for the Health Care	IA	31	Blind Ev./ Lump sum/ +3 pages

Work Program 2023-2024

Prestar
atención



- Convocatorias en **Fase Única y 2 fases**
- Se mantiene piloto **60%** financiación (for profit entities) en IA de partenariados co-programados
- 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)**
- INCO Raw materials Canadá y Ucrania**

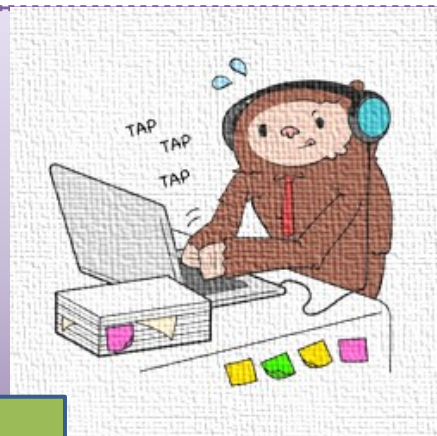
Condiciones de admisibilidad

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

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

Blind evaluation pilot

<i>Admissibility conditions</i>	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).
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- **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. It contains confidential information. Please do not share it. #tags: they are needed for processing.] #@APP-FORM-HERIAIA1ST@# #@REL-EVA-RE@#

Legal and financial set-up of the Grant Agreements

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

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.

- % topics con LS:
Clúster 4 Industry. (≈25%)
Tipo de acciones: RIA - IA – CSA


Lump sum funding in Horizon Europe


The screenshot shows a webpage with a navigation menu on the left and content on the right. The menu items are: Overview, Guidance, Events, Opportunities, and Background. The 'Guidance' section is selected and highlighted. The content area on the right includes sections for: Guidance, Lump sums – what do I need to know?, Quick guide, Detailed guidance for applicants and beneficiaries, Lump sum reporting step by step, Frequently asked questions (FAQs), Expert briefing, and Reference documents. A red box highlights the 'Lump sum budget table' link under the Reference documents section.



Guiding notes to use the TRL self-assessment tool

<https://horizoneuropencportal.eu/store/trl-assessment>



What is your solution?	TRL 3	TRL 4	TRL 5	TRL 6	TRL 7	TRL 8	TRL 9
 A Product that is manufactured	Analytical studies on separate elements of the technology. Laboratory based trials that show the feasibility of the predictions.	Basic technological components integrated together to show that they work together. At this point, durability is not yet important.	Basic technological components integrated within realistic context under a fully controlled environment in or outside the lab.	A functional version of the product working on a realistic environment able to draw conclusions on the technical and operational capabilities of the product.	A manufacturable version of the product working on an environment which addresses all the operational requirements for the product.	Product in its final form working in full mode under expected conditions and periods.	Product in its final form under full commercial deployment.
Examples to be inspired	link	link	link	link	link	link	
An industrial process	Laboratory experiments are designed to verify that the conceptual process works as expected.	Process components are validated individually and could be integrated in an ad hoc manner at lab scale.	Integrated validation of the process to produce small outputs or short batches of the end product.	Development of a pilot-scale testing plant or unit (1/100th of commercial scale) including engineering-scale equivalents of all the operations that will be required at scale.	Successful demonstration of the continuous operation of the pilot plant/unit during a relevant timeframe.	Demonstration plant is constructed (1/10th of commercial scale) and operated in continuous mode, including working outside normal parameters.	Commercial plant/unit set up and running for full range of operating conditions.
Examples to be inspired	link	link	link	link	link	link	

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)
- *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

Eventos de ámbito europeo

- **11-12 Octubre:** Horizon Europe info days Cluster 4. Digital, Industria y Espacio
- **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



European
Commission

Raw Materials Week
13 • 17 November 2023
Brussels

Home Events Community How it works

COMING SOON

Horizon Europe info days - Cluster 4

This event aims to inform potential applicants about the funding opportunities of the 2024 calls of Horizon Europe Cluster 4 Work Programme 2023-2024

📅 11 October 2023 - 12 October 2023

🕒 09:30 (GMT+02:00)

38

The screenshot shows a website interface with a blue header containing navigation links: Home, Events, Community, and How it works. Below the header is a green banner with the text 'COMING SOON'. The main content area features a large heading 'Horizon Europe info days - Cluster 4' and a paragraph describing the event's purpose: 'This event aims to inform potential applicants about the funding opportunities of the 2024 calls of Horizon Europe Cluster 4 Work Programme 2023-2024'. Below this text, the event dates '11 October 2023 - 12 October 2023' and the start time '09:30 (GMT+02:00)' are displayed. At the bottom left, the number '38' is visible. The background of the main content area is a light green color with a faint illustration of people interacting with a large screen.

Equipo Clúster 4 Industria Apoyo al participante



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carlos.toledo@cdti.es

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*
- *Consultas, dudas*

Services



www.ncp4industry.eu



ncp4industry@apre.it



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



HORIZONTE EUROPA

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



@HorizonteEuropa - @CDTI_innovacion