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Cluster 4: Digital, Industry and Space. WP 26-27

Infoday Regional, Barcelona, 15/12/25

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DISCLAIMER



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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.



Equipo Horizonte Europa Clúster 4 Industria Apoyo al participante



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Próximos eventos

3 de diciembre

**INFO DAY NACIONAL
CLUSTER 4 INDUSTRIA**

*Presencial, Madrid, sede
CDTI.*

Inscripción abierta

26 de Enero

**INFO DAY REGIONAL
C.VALENCIANA**

**CLUSTER 4 INDUSTRIA
+ CLUSTER 5 ENERGIA.**

•*Presencial, Valencia*

30 de Enero

**INFO DAY REGIONAL
ANDALUCÍA**

**CLUSTER 4 INDUSTRIA
CLUSTER 5 MOVILIDAD**

Presencial, Málaga

Equipo Horizonte Europa Clúster 4 Industria Apoyo al participante



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INFO DAYS 2026
HORIZON EUROPE
Cluster 4
Digital, Industry & Space
29-30 JANUARY

#HaDEA #HorizonEU

APPLY CALL



Próximos eventos

29-30 de Enero

INFO DAY Comisión Europea Clúster 4

On line

Atentos a registro

NCP4 Industry Services



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



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

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Upcoming events

Date	Event Title	Public	Join
17.11.2025	Raw Materials R&I Networking Evening in NCBR in Brussels 17 November 18.00–21.00	Public	Join >
26.11.2025	The Future of EU Steel Research – How to foster EU steel leadership	Public	Join >
5.02.2026	KETs2026 EU Brokerage Event – Partnering for Innovation in Horizon Europe Cluster 4	Public	Join >

Resultados provisionales Industria 2021-24

2119 propuestas, **1523** con ES (71,9%)
373 coordinadas ES (17,6%)

392 proyectos, **301** con ES (76,8%)
87 coordinadas ES (22,2%)

Tasa de éxito ES: 19,8% vs. 18,5% global

443 M€ para entidades ES
ES 1º país en retorno (17,9%EU27 16,4%total)

Resultados provisionales Industria 2021-24

	Presupuesto (M€)	Participación ES (Nº Proyectos)	Participación ES (%)	Coordinación (Nº proyectos)	Coordinación (%)	Subvención (M€)	% Retorno (UE)	Puesto
1 Made In Europe	565,9	78	85,7	24	26,40%	97,8 M€	18,7%	1º
1 Processes 4 Planet	663,1	44	80	12	21,80%	150,5 M€	19,9%	1º
Clean Steel	101,2	11	50	3	14%	14,6 M€	11,9%	5º
Construcción	76,8	14	93,3	4	26,70%	20,8 M€	24,7%	1º
Total Destination 1	1400	143	79,4	44	24,40%	244,4 M€	19,2%	1º
Materias Primas	458,8	41	68,3	11	18,30%	64,5 M€	15,7%	2º
Materiales Avanzados	699,7	93	78,2	28	23,50%	110,2 M€	16,9%	1º
SMEs /Bauhaus	107,7	18	66,7	5	18,50%	18,6 M€	18,8%	1º
Total Destination 2	1235	151	74,4	43	21,20%	187,6 M€	16,5%	1º

Resultados provisionales Industria 2021-24

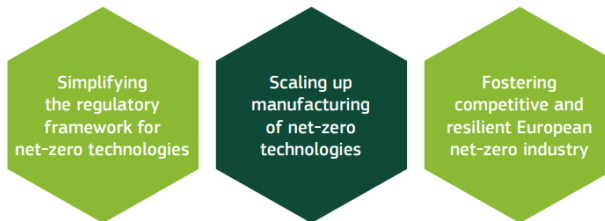


Net Zero Industry Act

Global market for key mass-manufactured net-zero technologies to triple by 2030 with an annual worth of around EUR 600 billion

Once in a generation opportunity to pave the way with speed and ambition to secure the EU's INDUSTRIAL LEAD in the fast-growing net-zero technologies sector

This legislation will help scale up net-zero technology manufacturing in the EU to provide at least 40% of the EU's annual deployment needs for strategic net-zero technologies by 2030.



Key technologies



Solar photovoltaic and solar thermal



Electrolysers and fuel cells



Onshore wind and offshore renewables



Sustainable biogas/biomethane



Batteries and storage



Carbon capture and storage



Heat pumps and geothermal energy



Grid technologies

Planes de Acción Sectoriales



Action Plan on the future of the automotive sector



An Action Plan for Steel and Metals



An Action Plan for Chemicals



Critical & Strategic Raw Materials



Strategic Raw Materials

- Antimony
- Arsenic
- **Bauxite/Aluminium**
- Baryte
- Beryllium
- **Bismuth**
- **Boron**
- **Cobalt**
- Coking Coal
- **Copper**
- Feldspar
- Fluorspar
- **Gallium**
- **Germanium**
- Hafnium
- Helium
- **Heavy Rare Earth Elements**
- **Light Rare Earth Elements**
- **Lithium**
- **Magnesium**
- **Manganese**
- **Graphite (Natural and synthetic)**
- **Nickel – battery grade**
- Niobium
- Phosphate rock
- Phosphorus
- **Platinum Group Metals**

List of Critical Raw Materials for the EU 2023

Aluminium/Bauxite	Germanium	Phosphorus	Arsenic
Antimony	Hafnium	Scandium	Copper
Baryte	Heavy Rare Earths	Silicon metal	Feldspar
Beryllium	Light Rare Earths	Strontium	Helium
Bismuth	Lithium	Tantalum	Manganese
Borate	Magnesium	Titanium	Nickel
Cobalt	Natural Graphite	Tungsten	Indium
Coking Coal	Niobium	Vanadium	Natural Rubber
Fluorspar	Platinum Group Metals	Bauxite	
Gallium	Phosphate Rock	Lithium	

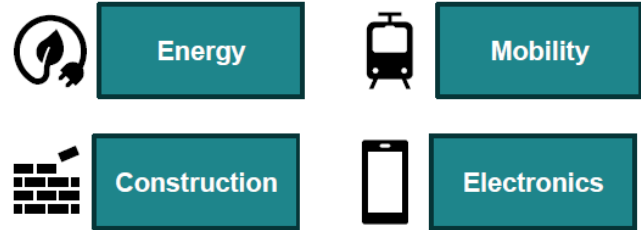


- Scandium
- **Silicon metal**
- Strontium
- Tantalum
- **Titanium metal**
- **Tungsten**
- Vanadium

Materiales Avanzados para Liderazgo Industrial



➤ Areas prioritarias (Anexo):



- Digitalización I+D materiales (IA, espacios de datos, etc)
- Despliegue de tecnología

.... **Hacia el *Advanced Materials Act* (2026)**

Estrategia Infraestructuras tecnológicas



Clúster 4 –2021-2025. 6 DESTINATIONS

- 

1 Achieving global leadership in **climate-neutral, circular and digitised industrial and digital value chains** **TWIN TRANSITION**
- 

2 Achieving technological leadership for Europe's open strategic autonomy in **raw materials, chemicals and innovative** **MATERIALS**
- 


3 Developing an agile and secure single market and infrastructure for **data-services and trustworthy artificial intelligence services**
- 

4 Achieving open strategic autonomy in **digital and emerging enabling technologies**
- 

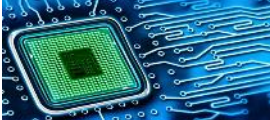
5 Open strategic autonomy in developing, deploying and using global **space-based** infrastructures, services, applications and data
- 


6 **Digital and industrial technologies** driving **human-centric innovation**


Clúster 4 –2026-2027. 5 DESTINATIONS

- 

1 Achieving global leadership in **climate-neutral, circular and digitised industrial and digital value chains** **INDUSTRIA**
- 

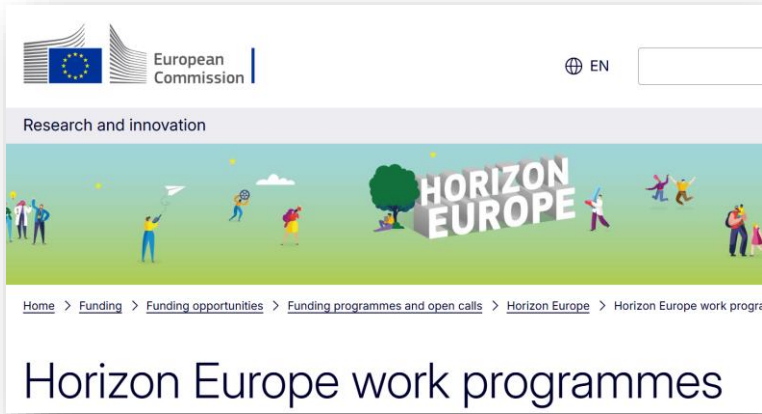
2 Developing an agile and secure single market and infrastructure for **data-services and trustworthy artificial intelligence services**
- 

3 Achieving open strategic autonomy in **digital and emerging enabling technologies**
- 

4 Open strategic autonomy in developing, deploying and using global **space-based** infrastructures, services, applications and data
- 

5 **Digital and industrial technologies** driving **human-centric innovation**

Horizon Europe work Programmes 2026-2027



The main work programme

PILAR I

- Marie Skłodowska-Curie actions and research infrastructures

PILAR II

- all clusters

PILAR III

- European innovation ecosystems
- the part **widening** participation and strengthening the European Research Area

[Horizon Europe work programmes - Research and innovation](#)

Clúster 4 – INDUSTRY 2026-2027. 1 DESTINATION

1



Leadership in **materials and production** for Europe

This Destination brings together the research and innovation for a globally competitive European industry through the twin green and digital transition, and the availability, development, use, reuse and disposal of chemicals, advanced materials and critical raw materials.

<https://ec.europa.eu/transparency/comitology-register/screen/documents/107987/3/consult?lang=en>

Draft

5 convocatorias / 32 topics
Fase única y 2 fases
>750 M€

Partenariados en Cluster 4 – Industria / Destination 1



Metrología



<https://metpart.eu/>

- Partenariados co-programados

- Partenariado institucionalizado

Nuevos partenariados en Horizonte Europa (2025-27)

Raw Materials for the Green and Digital Transition



Innovative **Materials** for the EU



Textiles of the Future



Convocatorias 2026

CALL INDUSTRY

- De 6 de Enero a

Deadline(s): 21 de Abril

Draft

HORIZON-CL4-2026-01 / 15 topics

- Destination: Leadership in Materials and Production Europe

>319 M€ > 76 propuestas potenciales



Convocatorias 2026

CALL INDUSTRY- two-stage

Deadline(s): 17 Mar 26 (1st St) /
13 Oct 26 (2nd St)

- De 16 de Diciembre a:

HORIZON-CL4-2026-02 / two-stage

Draft

Destination: Leadership in Materials and Production Europe

- **1 topic / 38 M€**
- HORIZON-CL4-2026-02-MAT-PROD-21-two-stage

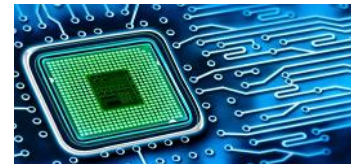
Destination: Achieving open strategic autonomy in digital and emerging enabling technologies

- **2 topics / 60 M€**

HORIZON-CL4-2026-02-DIGITAL-EMERGING-51-two-stage

HORIZON-CL4-2026-02-DIGITAL-EMERGING-53-two-stage

>98 M€ > 17 propuestas potenciales



Convocatorias INDUSTRY FAST TRACK TO RESEARCH AND INNOVATION

CALL INDUSTRY-FTRI

- De 22 de septiembre 2026 a 2 de febrero de 2027

HORIZON-CL4-2027-01-MAT-PROD-61: FTRI industrial technologies

- RIA / 20 M€



HORIZON-CL4-2027-01-MAT-PROD-62: Fast Track to Innovation in the Chemical Industry Action Plan

- RIA / 15 M€



WP 26-27 distribución por partenariados



Made in Europe (MiE)

• 8 topics 263.00 M€



Processes4Planet (P4P)

• 6 topics 246.30 M€



Clean Steel

• 2 topics 84.00 M€



Innovative Advanced
Materials for the EU
(IAM4EU)

• 7 topics 254.00 M€



Textiles for the Future

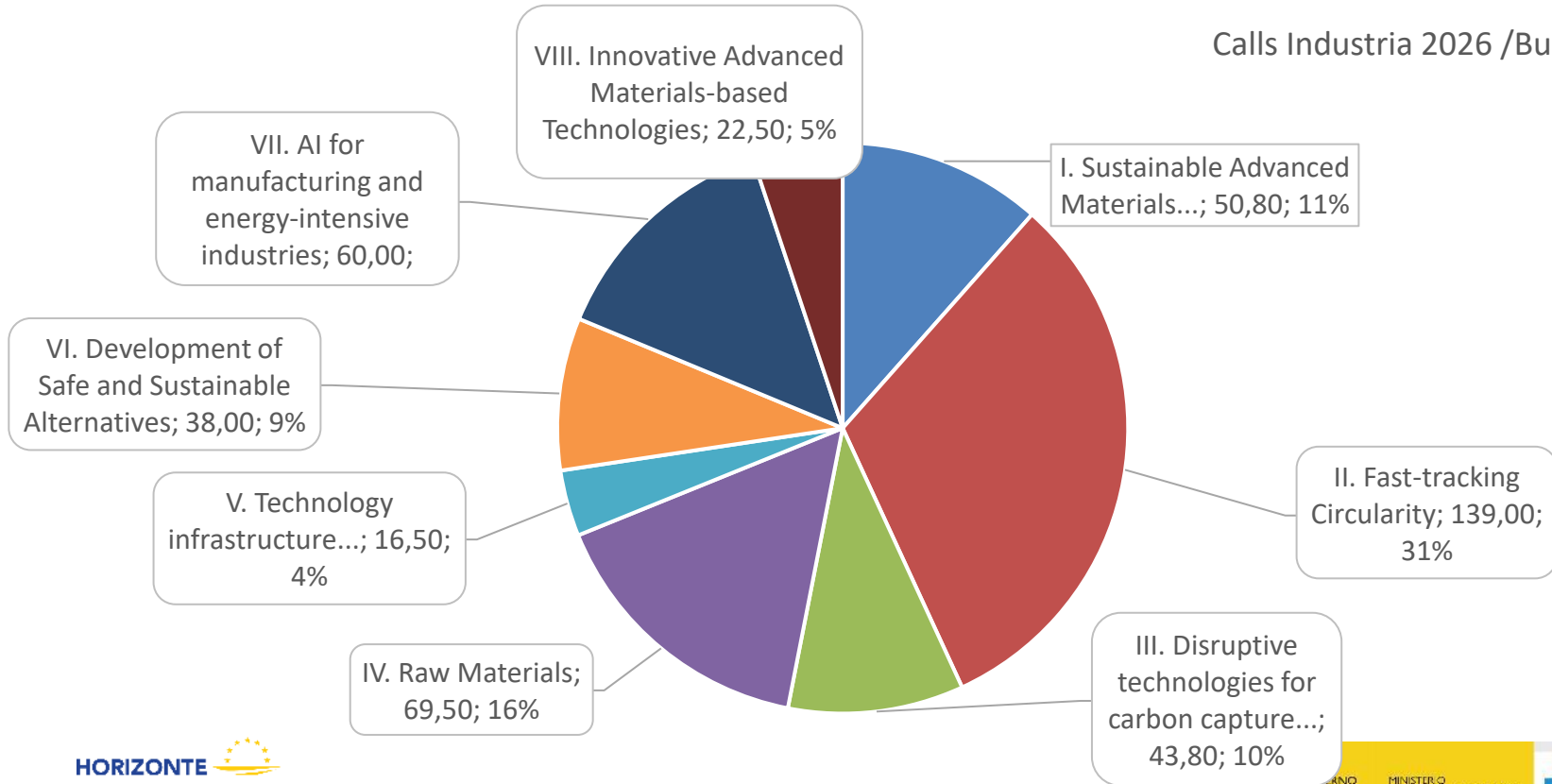
• 2 topics 36.00 M€

HORIZON-CL4-2027-01-
MAT-PROD-61:

- Fast Track to Research and Innovation (FTRI) for breakthroughs in industrial technologies
- Topic Abierto / RIA hasta TRL 4 / 60 M€

WP 26 distribución por temáticas

Calls Industria 2026 /Budget M€



WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1



Leadership in **materials and production** for Europe

HEADLINES

1-Sustainable Advanced Materials, Raw Materials and Chemicals

Topic	Partnership	Tipo de Acción	Presupuesto (EUR millones)	Contribución de la UE Esperada por Proyecto (EUR millones)	Número Indicativo de Proyectos
HORIZON-CL4-2026-01-MAT-PROD-23: Accelerating the discovery and development of chemicals and innovative advanced materials through digitalization and artificial intelligence (IA)	Innovative Advanced Materials for the EU partnership	IA	50.00	Around 13.00	4
HORIZON-CL4-2026-01-MAT-PROD-24: Cooperation on innovative advanced materials with Japan (CSA)		CSA	0.80	Around 0.80	1
			50.80		5

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1-Sustainable Advanced Materials, Raw Materials and Chemicals

HORIZON-CL4-2026-01-MAT-PROD-23: Accelerating the discovery and development of chemicals and innovative advanced materials through digitalisation and artificial intelligence (IA)

Innovative Advanced Materials for the EU partnership

IA

50.00

Around
13.00

4

topic

- TRL 5-7
- China no elegible
- Participación JRC

Scope

- Se enfoca en el uso de herramientas digitales para acelerar la innovación en la química y los materiales avanzados
- **Integración del marco SSbD**
- Incluir demostradores



Otros

- Colaboración con Materials Commons for Europe o Digipass
- Business case and exploitation strategy

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1-Sustainable Advanced Materials, Raw Materials and Chemicals

HORIZON-CL4-2026-01-MAT-PROD-24: Cooperation on innovative advanced materials with Japan (CSA)

CSA

0.80

Around 0.80

4

Scope

- Fortalecer la cooperación internacional en materiales avanzados con Japón
- **Sectores de aplicación: mobility, energy, construction electronics or medical devices.**
- Wide geographical coverage

Otros

- Visitas a grupos de investigación de organizaciones japonesas



HOME > Horizon Europe and Japan



UNIVERSIDADES

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1



Leadership in **materials and production** for Europe

2-Fast-tracking Circularity

Topic	Partnership	Tipo de Acción	Presupuesto (EUR millones)	Contribución de la UE Esperada por Proyecto (EUR millones)	Número Indicativo de Proyectos a Financiar
HORIZON-CL4-2026-01-MAT-PROD-01: Advanced manufacturing for key products (IA)	Made in Europe partnership	IA	38.00	6.00 to 8.00	6
HORIZON-CL4-2026-01-MAT-PROD-04: Optimise the usage of resources in a circular economy (RIA)	Processes4Planet and Clean Steel partnerships (Innovative Advanced Materials for the EU and Made in Europe partnerships)	RIA	64.00	5.00 to 8.00	9
HORIZON-CL4-2026-01-MAT-PROD-05: Circular innovative advanced materials: facilitating the transition from design to markets (RIA)		RIA	37.00	5.00 to 6.50	7
			139.00		22

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

2-Fast-tracking Circularity

HORIZON-CL4-2026-01-MAT-PROD-01: Advanced manufacturing for key products (IA)

Made in Europe partnership

IA

38.00

6.00 to 8.00

6

Scope

- TRL 5-7
- Desarrollo de **tecnologías y maquinaria**
- **Productos clave:** en riesgo de perderse en Europa o dependencia de materias primas-componentes de fuera de Europa
- Uso mínimo de materiales críticos y mejorar circularidad
- Tecnologías avanzadas de fabricación: aditiva, híbrida, fotónica, unión, tratamiento superficial.

Otros

- Prioridad sectorial: al menos una propuesta del **sector automoción**
- Considerar **SSBD, digital twins**.
- **Excluida la fabricación de baterías**
- INCO especialmente Japón o Taiwán.
- Business case and exploitation strategy



WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

2-Fast-tracking Circularity

HORIZON-CL4-2026-01-MAT-PROD-04: Optimise the usage of resources in a circular economy (RIA)

Processes4Planet
and Clean Steel
partnerships

RIA

64.00

5.00 to 8.00

9

PROCESSES4PLANET Scope

- TRL 4-6 / LUMP SUM
- Eficiencia en materiales, agua y energía para recycling y upcycling.
- Prioridad en corrientes de residuos que contengan **materias primas críticas e insuficientemente disponibles**.
- Desarrollo de Procesos de **Bajo CO2 y Cadena de Valor Completa**

Otros



- Priorizar al **menos 2 propuestas on recovery** of iron-containing residuals / waste / by-products using low CO2 processes.
- Al menos un caso de uso en laboratory level pilot scale.
- One sector or across sectors.
- Business case and exploitation strategy

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

2-Fast-tracking Circularity

HORIZON-CL4-2026-01-MAT-PROD-05: Circular innovative advanced materials: facilitating the transition from design to markets (RIA)

(Innovative
Advanced Materials
for the EU and
Made in Europe
partnerships

RIA

37.00

5.00 to 6.50

7

Scope



- TRL 4-6 / LUMP SUM
- Aplicación del **marco SSBD**
- **Utilización de digital tools**
- **Apoyar strategic value chains en mobility y medical devices.**



Otros

- Priorizar al **menos 1 propuesta por área**
- Business case and exploitation strategy

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1



Leadership in **materials and production** for Europe

3-Disruptive technologies for carbon capture and clean energy use

Topic	partnership	Tipo de Acción	Presupuesto (EUR millones)	Contribución de la UE Esperada por Proyecto (EUR millones)	Número Indicativo de Proyectos a Financiar
HORIZON-CL4-2026-01-MAT-PROD-31: Efficient capture / purification / utilisation of CO2 for the production of competitive products (RIA)	Processes4Planet partnership	RIA	43.80	5.00 to 7.00	7
			43.80		7

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

3-Disruptive technologies for carbon capture and clean energy use

HORIZON-CL4-2026-01-MAT-PROD-31: Efficient capture / purification / utilisation of CO2 for the production of competitive products (RIA) **Processes4Planet** partnership RIA

43.80

5.00 to
7.00

7



PROCESSES4PLANET

Scope

- TRL 4-6 / LUMP SUM
- Integración inteligente de la captura, purificación y conversión de CO2, con un enfoque en la reducción de la demanda de energía y el gasto de capital
- Uso de Energía Renovable y Calor Residual:
- Maximización del Rendimiento y Evaluación de Viabilidad:

- LCA

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Otros

- Real industrial site demonstrating at least in open-loop computations
- Recomendación metodología GHG (ejemplo Innovation Fund)
- **La conversión de CO2 en metanol y combustibles** se considera fuera del alcance
- Business case and exploitation strategy



WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1



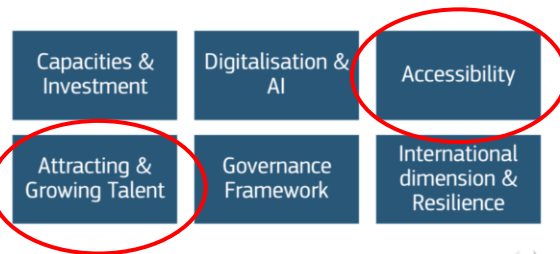
Leadership in **materials and production** for Europe

4-Technology infrastructure, knowledge valorisation and support for scaleups and startups

Topic	Tipo de Acción	Presupuesto (EUR millones)	Contribución de la UE Esperada por Proyecto (EUR millones)	Número Indicativo de Proyectos a Financiar
HORIZON-CL4-2026-01-MAT-PROD-41: Enhancing industry-academia knowledge exchange in Social Sciences and Humanities (SSH) (CSA)	CSA	2.00	Around 1.00	2
HORIZON-CL4-2026-01-MAT-PROD-44: Attracting management talent for capacity building for Technology Infrastructures staff members (CSA)	CSA	2.50	Around 3.00	1
HORIZON-CL4-2026-01-MAT-PROD-45: Pilot access schemes to Technology Infrastructures for European startups, scaleups and innovative SMEs (CSA)	CSA	5.00	1.50 to 2.50	2
HORIZON-CL4-2026-01-MAT-PROD-46: Mapping and service finder for Technology Infrastructures (CSA)	CSA	2.00	Around 2.00	1
HORIZON-CL4-2026-01-MAT-PROD-48: 'Proof of market' to improve valorisation and commercialisation of Horizon generated R&I results (IA)	IA	5.00	Around 0.20	25
			16.50	31



Blocs of Actions



Topic	Tipo	Presupuesto (M€)	Contribución UE por Proyecto(M€)	Nºaprox. Proyectos a Financiar
HORIZON-CL4-2026-01-MAT-PROD-44: Attracting management talent for capacity building for Technology Infrastructures staff members (CSA)	CSA	2.50	Around 3.00	1
HORIZON-CL4-2026-01-MAT-PROD-45: Pilot access schemes to Technology Infrastructures for European startups, scaleups and innovative SMEs (CSA)	CSA	5.00	1.50 to 2.50	2
HORIZON-CL4-2026-01-MAT-PROD-46: Mapping and service finder for Technology Infrastructures (CSA)	CSA	2.00	Around 2.00	1

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

4-Technology infrastructure, knowledge valorisation and support for scaleups and startups

HORIZON-CL4-2026-01-MAT-PROD-48: 'Proof of market' to improve valorisation and commercialisation of Horizon generated R&I results (IA)

IA

5.00

Around 0.20

25

Scope

- No hay TRL definido.
- Restricciones de participación entidades China.
- Apoyo a la **explotación comercial** de resultados de **proyectos RIA/IA en marcha o finalizados CI4** o H2020 LEIT.

Otros

- **Pequeños consorcios (spin-offs, startups, SMEs)**
- **Acceso a IP previa / resultados**

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

6-Innovative Advanced Materials-based Technologies

HORIZON-CL4-2026-05-MAT-PROD-25: New or enhanced Innovative Advanced Materials (IAM) enabled sensing functionality (RIA)

RIA

22.50

Around 7.50

3

Scope

- TRL 3-6 / LUMP SUM
- Restricciones de participación entidades **China**.
- Dos áreas: **Multifunctional surfaces, IAM-based sensors**
- Inspiration from bio-mimicry.

Otros

- SSBD framework
- Value chain integration
- Cobertura de portfolio áreas
- Cooperación con CHIPS JU, Photonics.



WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1



Leadership in **materials and production** for Europe

5-Raw Materials

Topic	Tipo de Acción	Presupuesto (EUR millones)	Contribución de la UE Esperada por Proyecto (EUR millones)	Número Indicativo de Proyectos a Financiar
HORIZON-CL4-2026-01-MAT-PROD-11: Innovative technologies and tools for exploration and data modelling of raw materials (RIA)	RIA	18.50	5.00 to 7.00	3
HORIZON-CL4-2026-01-MAT-PROD-12: Technologies for innovative extraction of critical raw materials (RIA)	RIA	19.00	5.00 to 7.00	3
HORIZON-CL4-2026-01-MAT-PROD-13: Monitoring of secondary raw materials (CSA)	CSA	4.00	Around 4.00	1
HORIZON-CL4-2026-01-MAT-PROD-14: Improving availability of secondary raw materials through recycling (IA)	IA	28.00	Around 7.50	4

Subtotal IV: Raw Materials

69.50

11

1



Leadership in **materials and production** for Europe

5-Raw Materials

Scope

- **Exploring**
- **Extraction**
- **Monitoring**
- Raw materials **recycling and re-use** of components and/or products from end-of-life products
- **Innovative Processing**

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To pay attention

- **Restricciones a la participación: riesgo de NO ELEGIBLE**
- Mining industry and users of targeted raw materials
- **International cooperation is encouraged with signed Strategic Partnerships on raw materials, especially with Ukraine**

- **Data** in a harmonised UNFC format.
- business case and a **credible** exploitation strategy
- Lump Sum

WP 2026 Clúster 4 – INDUSTRY



Temáticas de interés para Construcción

HORIZON-CL4-2026-02-MAT-PROD-21-two-stage: Development of safe and sustainable alternatives to substances of concern (IA)

- to replace or reduce the use of critical and strategic raw materials in strategic areas and sectors such as energy, mobility, **construction**,...

HORIZON-CL4-2026-01-MAT-PROD-13: Monitoring of secondary raw materials (CSA)

- following streams of secondary raw materials, with particular attention to critical raw materials: waste batteries, WEEE, mining waste, slags and ashes, and ...**construction and demolition waste**.

HORIZON-CL4-2026-01-MAT-PROD-24: Cooperation on innovative advanced materials with Japan (CSA)

- with applications to either mobility, energy, **construction**, electronics or medical devices.

HORIZON-CL4-2026-DIGITAL-DT-RECONSTRUCTION.AI powered Digital Twin
HORIZONTE for Reconstruction

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- **Public procurement** / Third quarter of 2026 / EUR 6.00 million from the 2026 budget
- **Innovative and state-of-the-art AI models to plan reconstruction beyond buildings** to also include **utility infrastructure** such as water and electricity networks.



Temáticas de interés para Construcción

HORIZON-CL4-2027-01-MAT-PROD-22: Innovative advanced materials and new production processes – reducing dependencies on Critical and Strategic Raw Materials (IA)

- Proposals should support strategic value chains in the fields of energy **and construction**

HORIZON-CL4-2027-01-MAT-PROD-06: Circular innovative advanced materials: facilitating the transition from design to markets (RIA)

- a balanced portfolio covering strategic value chains
- areas: (i) energy and **(ii) construction;**

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1



Leadership in **materials and production** for Europe

CALL INDUSTRY- two-stage

BLIND EVALUATION

Topic	PARTNERSHIP	Tipo de Acción	Presupuesto (EUR millones)	Contribución de la UE Esperada por Proyecto (EUR millones)	Número Indicativo de Proyectos a Financiar
HORIZON-CL4-2026-02-MAT-PROD-21-two-stage: Development of safe and sustainable alternatives to substances of concern (IA)		IA	38	6-7.5	6
HORIZON-CL4-2026-02-DIGITAL-EMERGING-51-two-stage: AI improved advanced manufacturing and production processes in factories (RIA)	Made in Europe and AI, Data and Robotics partnerships	RIA	30	4-6	5
HORIZON-CL4-2026-02-DIGITAL-EMERGING-53-two-stage: Innovative AI methods and technologies for the process industries (RIA)	Processes4Planet and AI, Data and Robotics partnerships	RIA	30	4-6	5

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

HORIZON-CL4-2026-02-two-stage

BLIND EVALUATION

HORIZON-CL4-2026-02-MAT-PROD-21-two-stage:
Development of safe and sustainable alternatives
to substances of concern (IA)

IA

38

6-7.5

6

Scope

- TRL 5-7
- the **substitution of substances of concern**
- **(SoCs)** as defined in *the Ecodesign for Sustainable Product regulation*
- *Aplicación del marco SSBD*
- **Integración Industrial y Ciclo de Innovación Completo**

Otros

- cooperate with the EU Innovation and Substitution Hub(s)
- Business case and exploitation strategy
- JRC may participate

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

HORIZON-CL4-2026-02-two-stage

BLIND EVALUATION

HORIZON-CL4-2026-02-DIGITAL-EMERGING-51-two-stage: AI improved advanced manufacturing and production processes in factories (RIA)

Made in Europe and AI, Data and Robotics partnerships

RIA

30

4-6

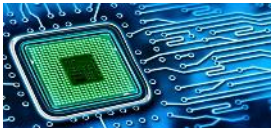
5

Scope

- TRL 4-6 / LUMP SUM
- uso de la Inteligencia Artificial (IA) para la mejora de la eficiencia, la circularidad y la sostenibilidad en procesos avanzados de fabricación.
- Mejora de Procesos y Reducción del Impacto Ambiental
- Prevención de Defectos en Tiempo Real

Otros

- balanced portfolio covering **also textiles**
- business case and exploitation strategy
- link with AI Factories, including the Data Labs, EDIH



Achieving open strategic autonomy in **digital and emerging enabling technologies**

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

HORIZON-CL4-2026-02-two-stage

BLIND EVALUATION

HORIZON-CL4-2026-02-DIGITAL-EMERGING-53-
two-stage: Innovative AI methods and
technologies for the process industries (RIA)

Processes4Planet and AI,
Data and Robotics
partnerships

RIA

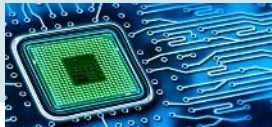
30

4-6

5

Scope

- TRL 4-6 / LUMP SUM
- dedicated innovative AI-based solutions for the process industry
- Competitive and sustainable production, reducing the negative environmental impact
- Reduction of risks for the health of the workforce and for the environment

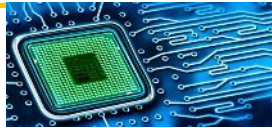


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Achieving open strategic autonomy in **digital and emerging enabling technologies**

Otros

- **During operations**, AI technologies can be employed to optimize processes, enhance reproducibility, adapt to changing conditions, and provide new forms of **support for the workforce and enable autonomous operation**
- AI applications as e.g. **predictive maintenance and quality control** toward more intelligent, adaptive, and creative solutions.
- business case and exploitation strategy
- link with AI Factories, including the Data Labs, EDIH



Achieving open strategic autonomy in digital and emerging enabling technologies

Opening: 15 Jan 2026

Deadline(s): 15 Apr 2026



Apply AI Strategy

Development and uptake of VERTICAL applications

- 10 verticals
- + Public sector
- + AI in Science



ROBOTICS

HORIZON-CL4-2026-05-DIGITAL-EMERGING-03

Apply AI: Next-Generation Agile and Intelligent **Robotics Platforms for Industrial and Service Applications** (Partnership in AI, Data and Robotics) (RIA)

HORIZON-CL4-2026-04-DIGITAL-EMERGING-08

Apply AI: Robotics for **Manufacturing**: Advancing Core Skills through Technical Challenges (RIA) (Partnership in AI, Data and Robotics)



WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

1



Leadership in **materials and production** for Europe

**Textiles
of the
Future**
PARTNERSHIP UNDER HORIZON EUROPE

Textiles for the Future Partnership (topic call 2027)

Topic	Tipo de Acción	Presupuesto (EUR millones)	Contribución Esperada por Proyecto (EUR millones)	Número Indicativo de Proyectos a Financiar
HORIZON-CL4-2027-01-MAT-PROD-08: Textile circularity through advanced processing and manufacturing technologies and system approaches (IA) FSTP / BUSINESS CASE /LUMP SUM	IA	16	Around 4-6	4

WP 2026 Clúster 4 – INDUSTRY. DESTINATION 1

**Textiles
of the
Future**
PARTNERSHIP UNDER HORIZON EUROPE

Textiles for the Future Partnership (topic call 2027)

HORIZON-CL4-2027-01-MAT-PROD-08: Textile circularity through advanced processing and manufacturing technologies and system approaches (IA)

IA

16

Around 4-6

4

Scope

- TRL 5-7 / **LUMP SUM**
- Tecnologías y procesos para facilitar el uso eficiente de fibras recicladas, regeneradas y de base biológica
- Materiales Sostenibles renovables, económicamente viables y funcionalmente equivalentes
- Modelos de Negocio y Enfoques Sistémicos para la escalabilidad

Otros

- **FSTP -> 150 K€**
- **business case and exploitation strategy**

Conclusiones

Nuevo WP modifica formalmente destinos frente a WP anteriores, se mantienen temáticas

Se mantiene la relevancia de los partenariados

Convocatorias 1 y 2 etapas; blind evaluation ; lump sum; nuevas plantillas; ...

Work Programme aspectos transversales

Prestar
atención

- Convocatorias de 2 fases.
- Blind Evaluation
- Nuevos templates
- 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)**
- Extendida la Incorporación mecanismos de justificación **lump sum.**
- Business Case and Exploitation strategy
- INCO

Atentos a las modificaciones en los templates



16.12.2024

- Removed references to Do No Significant Harm principle and AI robustness and simplification of requirements on data management plan

APPLICATION FORM V.16/12/2024

- Se suprimen:
- referencias **DNSH**
- referencias **AI y DMP**

Atentos a las modificaciones en los templates



**¡No usar
templates
de calls
anteriores!**

Pdte de aprobación WP 2026-2027

*Modificación tamaño de la
parte B en número de
páginas*

- **Nuevo Page limit: 40 pages (45 lump sum)**

*Modificaciones en apartado
2.1: Project's parthways
towards impac*

- **No longer need to explain the general scientific, economic and societal expected impacts.**
- **No longer ... Scale and Sgnificance of the outcomes.**

*Modificaciones en apartado
3 Implementation:*

- **Table 3.1 h. Puchase cost: only details on large equipments costs are required**
- **Removal of costs table**
- **3.li: Other cost categories**
- **3.lj In kind contributions provided by third parties**

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 40 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- 45 pages limit**
 - ❑ CSAs + Lump Sum = **33 pages limit**



New

“Blind Evaluation”, únicamente en 1ª etapa de evaluación



NEW admissibility criterion: Applicants submitting a proposal under the blind evaluation pilot must not disclose their **organisation names, acronyms, logos nor names of personnel** in Part B of their first-stage application.

SOLO AFECTA A LAS
**CONVOCATORIAS
TWO-STAGE** EN SU
PRIMERA FASE



No identification data can be mentioned by applicants in the proposal's **Part B**, otherwise **inadmissible proposal**



WP 26-27
5 topics

Check por la CE antes de la evaluación

Si un partner es identificable, propuesta inadmisibile

Lump Sum

- Su objetivo principal es **reducir la tasa de error de los PM** (Informes ECA 2019 y 2020)
- **Potencial de simplificación** en relación con la financiación basada en el reembolso de los costes reales, más compleja y propensa a errores
- Pago en base a la **ejecución de la tareas comprometidas en la propuesta**
- **Adaptado a entidades que no disponen de estructuras para la gestión** (PYMEs, entidades con pocos proyectos, etc.)

**Incremento MUY relevante de convocatorias LS
WP 26-27
Total: 24 topics**



[insert programme name (acronym)]

Model Grant Agreement

Lump Sum Grants

(PROGR Lump Sum MGA— Multi & Mono)

Version 1.0
01 November 2024

Business case and Exploitation strategy for Industrialisation

For industrialisation

- Factor decisivo en la **Evaluación** en el **criterio de impacto**
- **extensión excepcional de 3 páginas**
- **19 topics**

Business Case (short to medium term)

- Targeted market
- Estimated Market size EU and globally
- User & Customer needs
- Matching needs in a cost-effective manner
- Expected market position and Competitive advantage

Credible initial Exploitation Strategy

- Obstacles and actions to reach higher TRLs
- **If TRLs 6-7 strategy for full-scale manufacturing in the EU**
- **Skills**, matching value chains, enhancing product **robustness**; securing industrial integrators; and **user acceptance**

Social Sciences and Humanities (SSH)

- ❑ Objetivo:
 - ❑ Comunicación de la ciencia a la sociedad.
 - ❑ Involucrar a diferentes stakeholders

- ❑ **Evaluación (Excellence):** *the quality of open science practices including ... **engagement of citizens, civil society and end users** where appropriate.*

Topic ID	Tipo de Acción	Presupuesto (EUR millones)	Convocatoria y Descripción del Topic (Scope)
			Co-creación / hackathons, enfoques basados en equipos, programas de mentorship e intercambio / Pymes/ Desigualdad social, económica y cultural en las prácticas de la industria y los procesos de innovación / impacto social y ambiental / implicaciones para el lugar de trabajo
HORIZON-CL4-2026-01-MAT-PROD-41	CSA	2.00	Call: INDUSTRY (2026) - Enhancing industry-academia knowledge exchange in Social Sciences and Humanities (SSH).
HORIZON-CL4-2026-01-MAT-PROD-31	RIA	43.80	Call: INDUSTRY (2026) - Efficient capture / purification / utilisation of CO2 for the production of competitive products.

Social Sciences and Humanities (SSH)

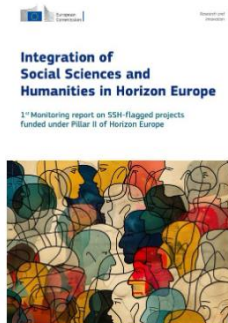
Documents

REPORT | 15 July 2025

Integration of Social Sciences and Humanities in Horizon Europe

1st Monitoring report on SSH-flagged projects funded under Pillar II of Horizon Europe

This report presents the significant progress made in the integration of social sciences and humanities (SSH) in research and innovation (R&I) projects funded under Horizon Europe, the European Union's (EU) current Framework Programme for R&I (2021-2027).



https://research-and-innovation.ec.europa.eu/document/download/8bee65e2-452e-4a06-8a53-6fd090765693_en

Cluster 4 project example: the importance of a joint glossary

SHARESPACE: Embodied Social Experiences in Hybrid Shared Spaces

<https://sharespace.eu/>

Cordis website:

<https://cordis.europa.eu/project/id/101092889>



The vision of SHARESPACE is the creation of future Social Hybrid Spaces (SHS) shared by humans and avatars engaged in embodied collaborative tasks, where social sensorimotor primitives are transparently captured through mobile connected innovative sensors, and then reconstructed using novel extended reality (XR) technology. Through a cognitive architecture, virtual avatars will facilitate joint-action, distance-based learning, and social cohesion in the hybrid societies of the future, by reconstructing core social sensorimotor primitives into virtual ones.

Tools and Tips in support of SSH Integration in EU

Author(s): Kimberly Couvson-Liebe

Collection: Training content

Subjects: SSH - Social Sciences and Humanities

Themes: Social Sciences and Humanities, Cross cutting elements within Horizon Europe

Date: 26/05/2021

Language: EN

Type: PDF

[Download](#)



NCP Portal
Management

https://horizoneuropencportal.eu/sites/default/files/2022-04/4_Tips%20and%20Tools%20in%20support%20of%20SSH%20Integration_FINA_L.pdf



Cooperación Internacional

Raw Materials

Open Strategic Autonomy

Reducir dependencia de terceros en sectores estratégicos

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.*



Proposals including legal entities which are not established in the countries that fall under the criteria above will be ineligible.

➤ "International cooperation is encouraged with countries with which the EU has signed Strategic Partnerships on raw materials, especially with **Ukraine**"

Cooperación Internacional

Topic ID	Tipo de Acción	Convocatoria y Descripción del Topic (Scope)
HORIZON-CL4-2026-01-MAT-PROD-24	CSA	Call: INDUSTRY (2026) - Cooperation on innovative advanced materials with Japan . Las propuestas deben proporcionar subvenciones de viaje (travel grants) para investigadores europeos en Estados Miembros y Países Asociados para visitar instituciones japonesas relacionadas, con el fin de fortalecer la colaboración.
HORIZON-CL4-2026-01-MAT-PROD-01	IA	Call: INDUSTRY (2026) - Advanced manufacturing for key products. "International cooperation is encouraged, especially with Japan or Taiwan" .



Clean Industrial Deal

February 2025

Policy Context – Clean Industrial Deal (CID)



CID Communication 26 February 2025 **offer clear business incentives** to support the decarbonisation and competitiveness of European industry, at the same time.

It will help **creating lead markets to boost supply and demand in clean tech, accelerate the roll-out of clean energy & manufacturing, and reinforce a circular economy.**

Key figures

**Over
€100 billion**

will be mobilised by the Clean Industrial Deal to support EU-made clean manufacturing

€100 billion

projected value of the European remanufacturing market by 2030

**500,000
new jobs**

will be created

The Clean Industrial Deal is our business plan to **accelerate decarbonisation** and **competitiveness** for European industry - by boosting innovation and reinforcing our resilience.



Become **climate neutral** by
2050

The Clean Industrial Deal focuses on:



Energy-intensive industries

to safeguard competitiveness from high energy costs and unfair global competition



Clean-tech sector

to allow it to expand in the EU as it is a key enabler of competitiveness and decarbonisation

6 core business drivers:

- Affordable Energy
- Lead markets
- Circularity and Access to Materials
- Global Markets and International Partnerships
- Skills Enhancement
- Financing the transition

Clean Industrial Deal Horizontal Call – Overview

Call 2026
Opening: 18 Dec 2025
Deadline(s): 15 Sep 2026

Work programme for 2026-2027 – Part 14 Horizontal Activities

- <https://ec.europa.eu/transparency/comitology-register/screen/documents/110396/2/consult?lang=en>

Both topics are **Innovation Actions** targeting **fit-for-deployment solutions**

Support the **EU innovations Value chain**

Business plan and market-readiness strategy (part B extended to 60 pages)

A complementary call of EUR 50 million in support of the Clean Industrial Deal is included in the **Research Fund for Coal and Steel**.

Clean Industrial Deal Horizontal Call – Overview

Call 2026
Opening: 18 Dec 2025
Deadline(s): 15 Sep 2026

Work programme for 2026-2027 – Part 14 Horizontal Activities

- <https://ec.europa.eu/transparency/comitology-register/screen/documents/110396/2/consult?lang=en>

Horizontal call (between **Clusters 4 and 5**), with 2 topics (every year 2026 & 2027):

1. *Clean Technologies for Climate Action*

- → EUR 290 million across 2026 and 2027

2. *Decarbonisation of Energy-Intensive Industries*

- → EUR 250 million across 2026 and 2027

Both topics are **Innovation Actions** targeting **fit-for-deployment solutions**

A complementary call of EUR 50 million in support of the Clean Industrial Deal is included in the **Research Fund for Coal and Steel**.

Clean Industrial Deal Horizontal Call

DECARBONISATION OF ENERGY-INTENSIVE INDUSTRIES (Cluster 4)

HORIZON-CID-2026-01-01: R&I in Support of the CID:
Decarbonisation of energy intensive industries

Processes4Planet
and Clean Steel
partnerships

IA


125

15 - 25

8

Scope



- TRL 6 to 7-8  PROCESSES4PLANET
- **3 áreas:**
- **Managing of carbon cycle** (CCU and/or CCUS)
- **Clean energy usage** in production (electrification of the processes, decarbonated production, integration of alternative clean energy carriers....)
- **Circularity and resource efficiency** (material, energy, water) of production processes: (improvement by 30% until 2035)

Otros

- **Soluciones tecnológicas comercialmente viables**
- **Balanced portfolio 3 areas**
- Copernicus and/or Galileo / EGNOS
- Business case and exploitation strategy
- Topics similares en 2026 y 2027

Clean Industrial Deal Horizontal Call – Overview

Clean Technologies for Climate Action (Cluster 5)

HORIZON-CID-2027-01-02: R&I in Support of the CID:
Clean Technologies for Climate Action

IA 150 15 - 25 8

Scope

- TRL 6 to 8
- 3 áreas:
- Sistemas de Energía Integrados de Cero Emisiones Netas:
- Tecnologías de Energía Mejoradas de Cero Emisiones:
- Tecnologías de Almacenamiento, Combustibles Renovables y CCU

Otros

- Alineación con NZIA
- Sinergias otros proyectos CID, Clean H2 JU
- **Balanced portfolio 3 areas**
- Copernicus and/or Galileo / EGNOS
- Business case and market-readiness strategy
- Topics similares en 2026 y 2027
- **Contactar con Cluster 5**

Equipo Clúster 4 Industria Apoyo al participante



nieves.gonzalez@cdti.es

Available in Spanish: www.horizonteuropa.es

HORIZONTE EUROPA
15/12/25 09:30 h.
Infoday regional Cataluña Horizonte Europa convocatorias 2026-2027: Clúster 4 Industria, Clúster 5 Energía, Clean Industrial Deal y Misión de Ciudades
Jornada informativa organizada por Accio para presentar las convocatorias 2026-2027 de Horizonte Europa en los ámbitos de Clúster 4 Industria, Clúster 5 Energía, Clean Industrial Deal y Misión de Ciudades

IPCEI Salud Med4Cure
15/12/25 11:00 h.
Jornada informativa IPCEI Salud MED4CURE
Presentación de la Iniciativa IPCEI Med4Cure, participación de empresas españolas e impacto del proyecto en el impulso del sector biosanitario español



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Horizonte Europa Industria

Search results for "Horizonte Europa Industria":

- Industry 5.0 Award (30 de Enero de 2022)
- Recordatorio convocatoria abierta en Clúster 4 Industria (07 de Octubre de 2021)
- Consulta sobre tecnologías industriales bajas en carbono (07 de Septiembre de 2021)
- Participación encuesta EUSurvey "Manufacturing Our Future" (04 de Septiembre de 2022)
- Publicadas las sesiones del Info day de la Comisión Europea para el Clúster 4 "Industria" de los días 29 y 30 de junio 2021
- Jornada Horizonte Europa Clúster 5 "Energía" y Clúster 4 "Industria" con la Plataforma Tecnológica de CO2 (30 de Julio de 2021)

- www.HorizonteEuropa.es
- www.eventos.cdti.es

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Equipo Clúster 4 Industria Apoyo al participante



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Servicios de apoyo al participante

- *Difusión, promoción de las convocatorias*
- *Reuniones presenciales y virtuales*
- *En fases tempranas:*
 - *Revisión de ideas de proyectos*
 - *Interpretación y adaptación al topics*
 - *Apoyo en la búsqueda de consorcios*
- *En fases más maduras:*
 - *Revisión de propuestas en fase de escritura*



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



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