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Partenariados en CL4-Industria.

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- Clúster 4 Industria: Nuevos partenariados
 - Raw Materials for the Green and Digital Transition
 - Innovative Materials For EU
 - Textiles of the Future
- Partenariados ya existentes. Novedades.
 - Process4Planet: Hubs4Circularity.
- Informaciones Convocatoria 2025

Nuevos partenariados en Horizonte Europa (2025-27)

2º Plan Estratégico 2025- 2027



CO-FUNDED EUROPEAN PARTNERSHIPS

Brain Health

Forests and Forestry for a Sustainable Future

Raw Materials for the Green and Digital Transition

Resilient Cultural Heritage

Social Transformations and Resilience

CO-PROGRAMMED EUROPEAN PARTNERSHIPS

Innovative Materials for the EU

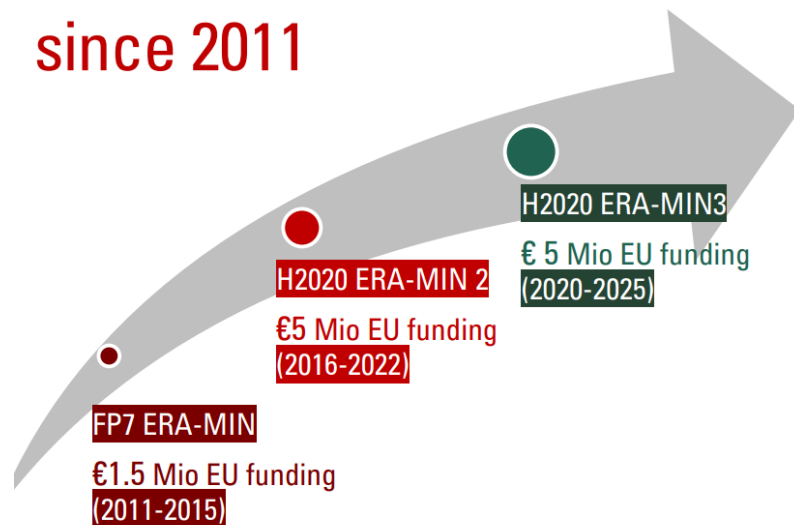
Solar Photovoltaics

Textiles of the Future

Virtual Worlds

Antecedentes: ERA-MIN

since 2011



RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT
AND THE CIRCULAR ECONOMY

ERA-NET Confund on Raw Materials (ERA-MIN) is a global, innovative and flexible pan-European network of research funding organisations, supported by EU Horizon 2020, that counts now with its third edition, **ERA-MIN3** (2020-2025) and builds on the experience of the FP7 ERA-NET **ERA-MIN** (2011-2015) and the still running **ERA-MIN 2** (2016-2022).

“Raw Materials for the Green and Digital Transition”



Candidate European Partnerships, Strategic Plan 2025 -2027

Raw Materials for the Green and Digital Transition (I)

Short description

The partnership focuses mainly on minerals and metals including Critical and Strategic Raw Materials, in the full value chain from exploration, extraction, processing, refining to recycling.

The partnership will allow aligning R&I efforts of Member States and third countries and strengthen their cooperation through creation of a joint R&I agenda and launch of joint calls for proposals, co-funded by the EU.

The partnership will contribute to implementation of the CRM Act objectives of increasing domestic extraction, refining and recycling and diversify external EU sourcing of raw materials.

- Partenariado cofinanciado
- Presupuesto total: 300M€
Cofinanciación 30/70 (CE/EEMM)

Raw Materials for the Green and Digital Transition

Complementarity with Horizon Europe and EIT RawMaterials

New partnership on raw materials

- Small consortia (4 to 11 partners)
- Usually 3 to 5 countries
- €0.5 to €1.5 Mio requested funding
- Focus on needs-driven (basic and applied) research at TRL 1-6
- 24-36 months project duration
- Involvement of EU regions
- Involvement of strategic third countries

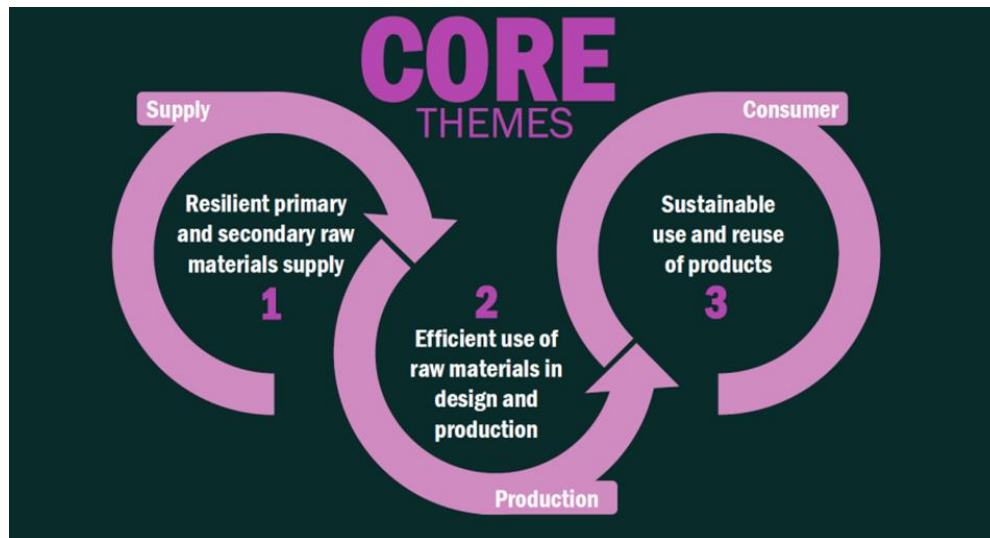
Horizon Europe

- Large consortia (12 partners and above)
- Usually 6 countries or more
- €6M and above of requested funding
- TRL 3-7 (RIAs and IAs)
- 36-60 months project duration

EIT RawMaterials

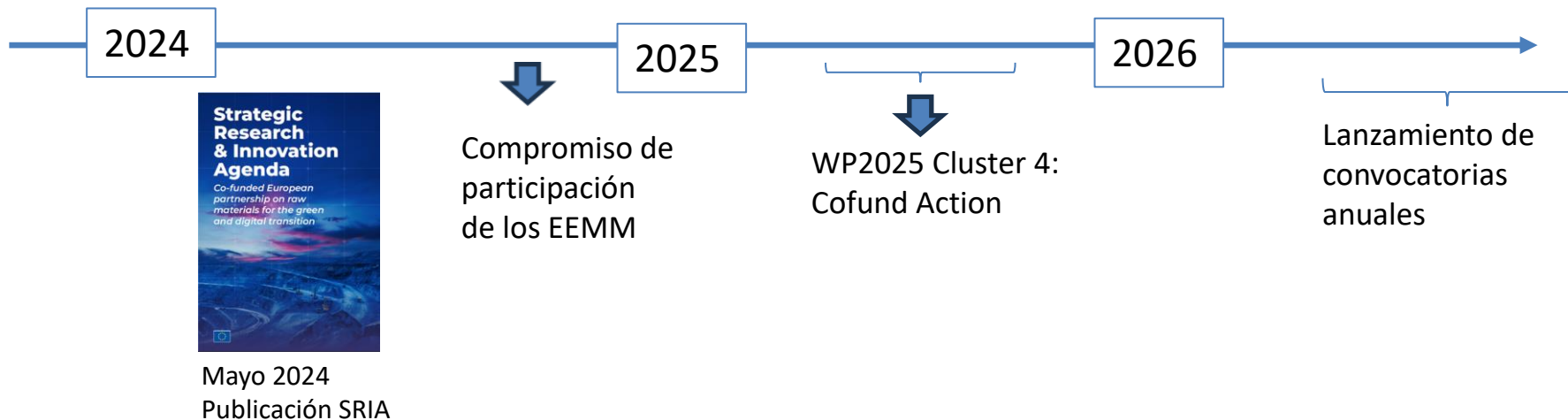
- Varying consortium size, all must pay membership fee to EIT RM
- Minimum start TRL5, minimum target TRL 7
- Minimum co-funding 30%
- Focus on commercialization and financial backflow to EIT RM

Agenda Estratégica (SRIA)



[eramin sria final final.pdf](#)

Próximos pasos



Materiales Avanzados: Contexto

- Los materiales avanzados ofrecen una gran cantidad de soluciones:
 - Son **facilitadores e impulsores de innovación** para el **Pacto Verde y la Transición digital**
 - Tienen **aplicación en muchos sectores**, por ejemplo: tecnologías para energía limpia, posibilidad de sustituir las materias primas críticas.
 - **Aumento de la demanda** prevista: energías renovables, baterías, edificios con cero-emisiones, semiconductores,...
 - Mejora de la eficiencia y el rendimiento
 - Materiales **circulares, seguros y sostenibles**
- **acelerar** la investigación y el desarrollo tecnológico de materiales avanzados
 - **aumentar** la capacidad de innovación y fabricación, e
 - **intensificar** la adopción industrial de materiales avanzados

El camino hacia el partenariado



2022

2024



#AdvancedMaterials

ADVANCED MATERIALS FOR INDUSTRIAL LEADERSHIP



ACTIONS FOR A EUROPEAN ADVANCED MATERIALS ECOSYSTEM



MORE INFORMATION:

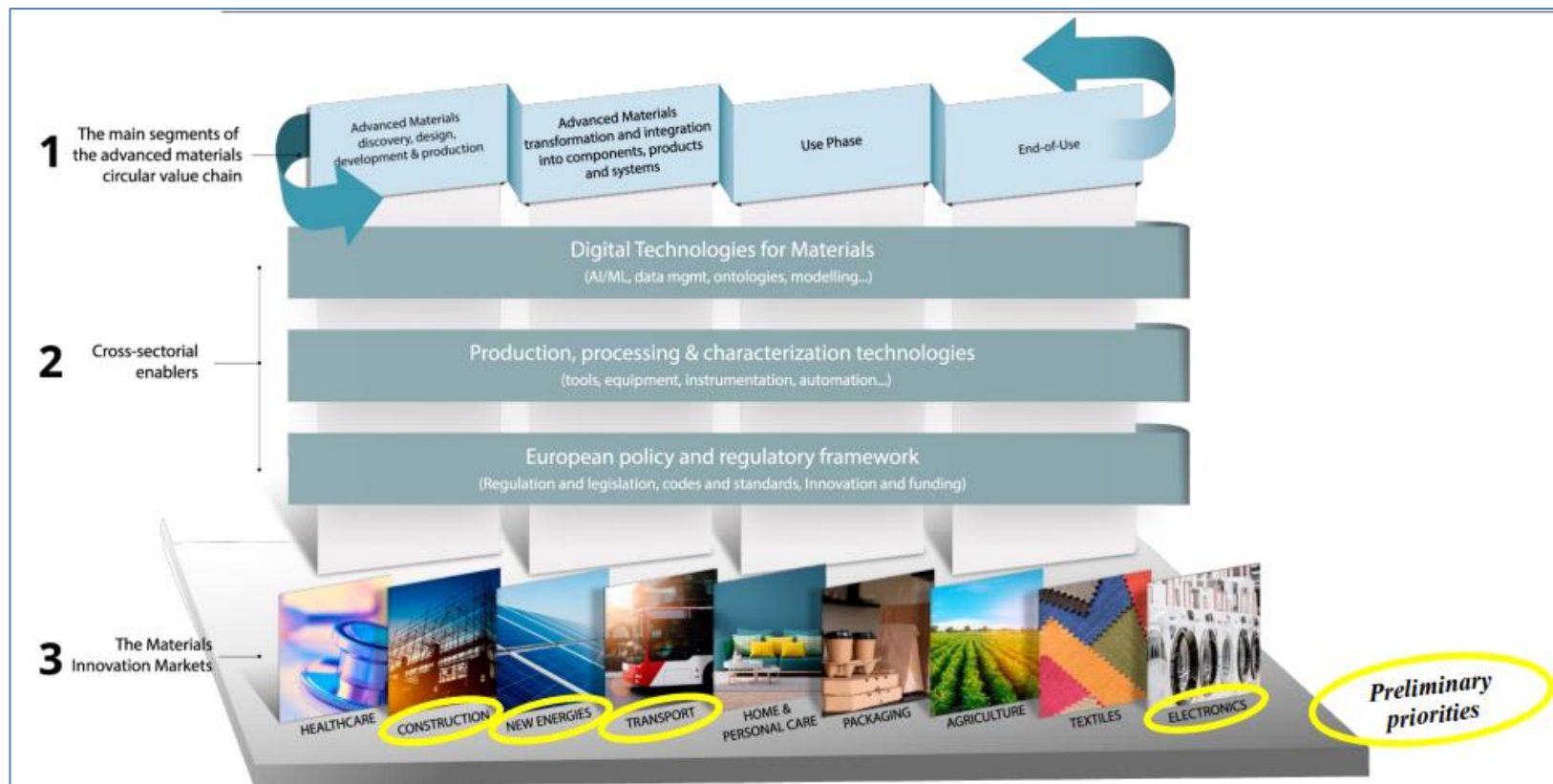
[Advanced Materials for Industrial Leadership](#)

[EU funded research results in advanced materials](#)

Movilización de financiación: Creación de un **partenariado en Horizon Europe:**

- Objetivo: escalar y acelerar la implementación de materiales avanzados
- Coprogramado (público-privado)
- **500M€ en 2025-27**

Innovative Materials for EU (I'M FOR EU)



El camino hacia el partenariado (II)



Agenda estratégica (SRIA) y asociación IAM-I

En fase de validación:



**SRIA VALIDATION WORKSHOP
ON ADVANCED MATERIALS
(IAM4EU PARTNERSHIP)**

September 19th, 2024 | 9H - 13H

Zoom

SRIA - Outline

I-INTRODUCTION

1. Innovative Advanced Materials
2. Policies and areas of application
3. Priority areas

II-INNOVATIVE ADVANCED MATERIALS AND ASSOCIATED TECHNOLOGIES

1. Functionality, Performance and Disruption
2. Safety, Sustainability and Circularity
3. IAMs and associated technologies (R&I Priorities)

III-CROSS-ENABLING TOOLS AND METHODOLOGIES

1. Materials knowledge valorisation through digitalization (R&I Priorities)
2. Materials modelling, characterisation and testing (R&I Priorities)
3. Embedding Safe & Sustainable by-Design (R&I Priorities)

IV-ECOSYSTEM ENABLERS AND SYNERGIES

1. Stakeholders' collaboration (R&I Priorities)
2. Fostering the production, use & re-use of advanced materials (R&I Priorities)
3. Standards & norms (R&I Priorities)



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IAM-I

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1ª Asamblea General : 31 enero

El sector textil: Contexto

5 million tonnes

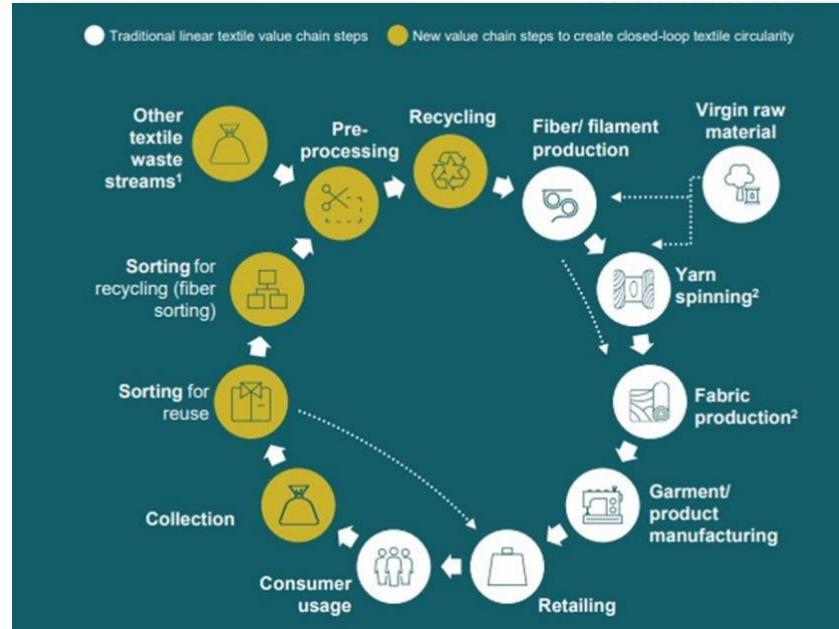
of clothing discarded each year in
the EU - around 12kg per person

1%

of material in clothing is recycled
into new clothing

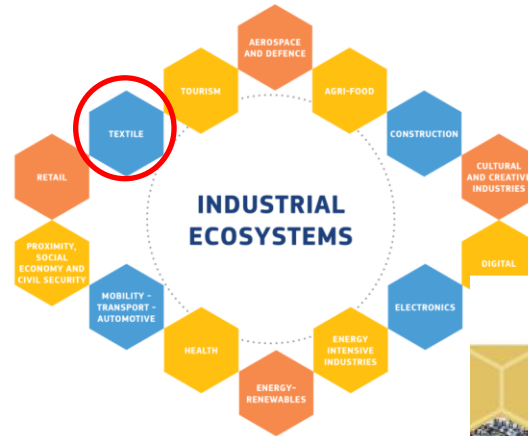
20 to 35 jobs

created for each 1000 tonnes of
textiles collected for re-use



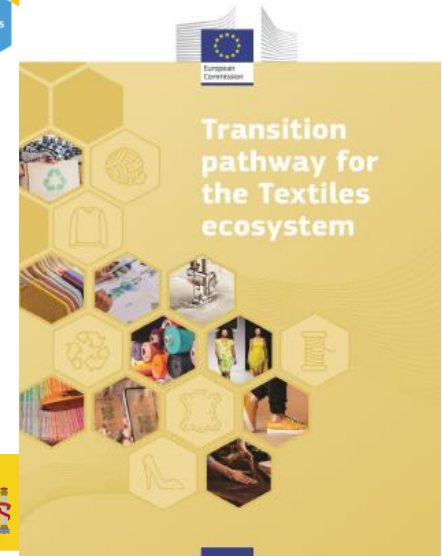
El sector textil: Contexto

EU Strategy for Sustainable and Circular Textiles



EU Policy and regulation

- * Ecodesign / Digital Product Passport
- * Supply Chain Due Diligence and Traceability
- * Waste Management / Extended Producer Responsibility
- * Chemical restrictions
- * Microplastics
- * Sustainable Innovation Marketing aka. Green claims
- * ESG finance via EU taxonomy
- * Revised textile labelling regulation
- * Forced labour
- * ...



Partenariado “*Textiles of the Future*”

Vision for 2030

- * The Vision and central objective of the partnership:

The development and demonstration of new **technologies** and innovative **business models** for competitive **manufacturing** of safe and sustainable textile **products** (and related services) made from low-impact functional **materials** and by clean and digitally connected **processes** in regional, circular and fully traceable **supply chains** for **quality jobs**, **industrial competitiveness & responsible consumption** in Europe.

- Partenariado coprogramado
- Presupuesto: 60M€
(30M € contribución CE)
- CE: DG GROW
Asociación industrial: EURATEX / ETP



<https://textile-platform.eu>

Agenda Estratégica (SRIA)



Priority area I: Sustainable materials & clean processes

1. Sustainable biobased feedstock
2. Sustainable fibres
3. Sustainable textile chemistry
4. Resource efficient processes
5. Efficient end-of-life sorting, separation & recycling



Priority area II: Digital supply chains & circular business models

6. Digitalisation of the textile value chain
7. Sustainability & circular data management
8. Design for sustainability & circularity
9. Circular business models & value-added customer and end-user services



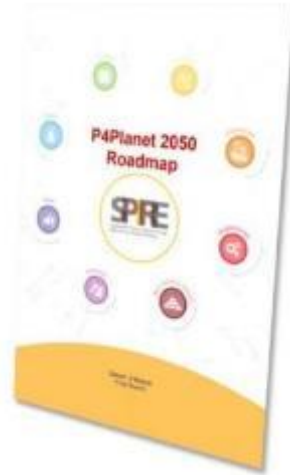
Priority area III: Advanced manufacturing & high-performance textiles

10. Automated, AI supported smart manufacturing
11. On-demand digital and networked manufacturing
12. Safe & sustainable materials for technical applications
13. Advanced (multi)functional materials for technical applications



Topic WP2025

Partenariados en Cluster 4 – Industria



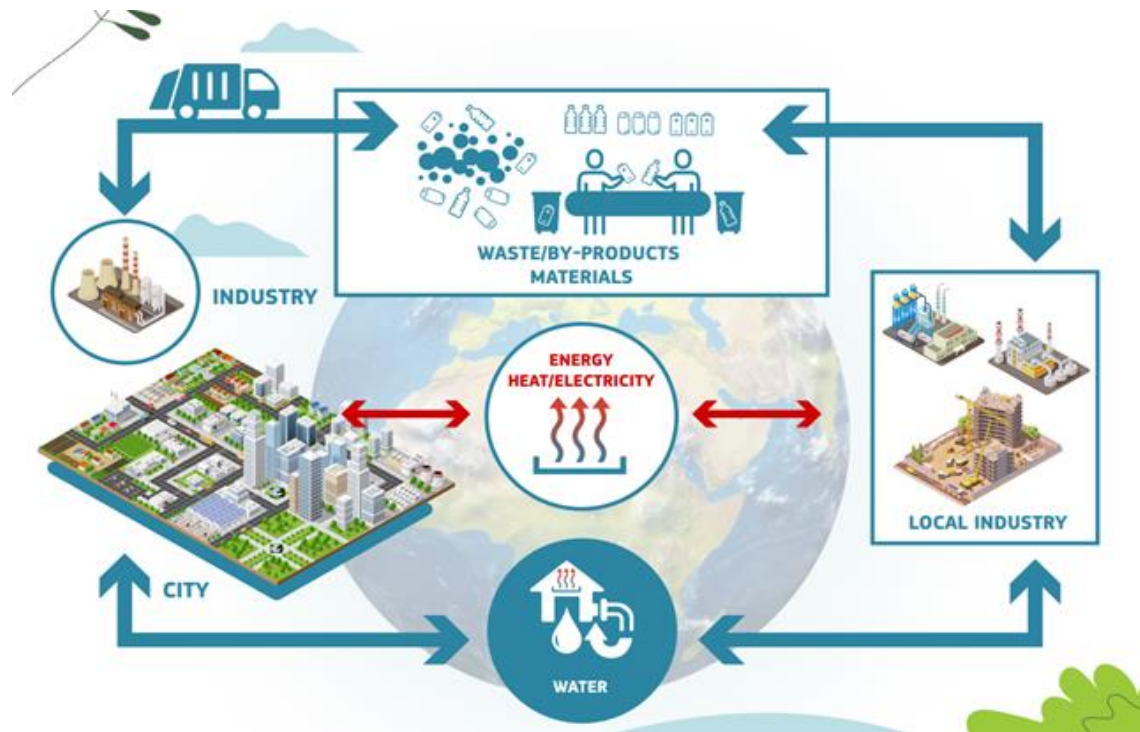
Metrología



- Partenariado institucionalizado
<https://metpart.eu/>

- Partenariados co-programados

Hubs 4 Circularity : Concepto



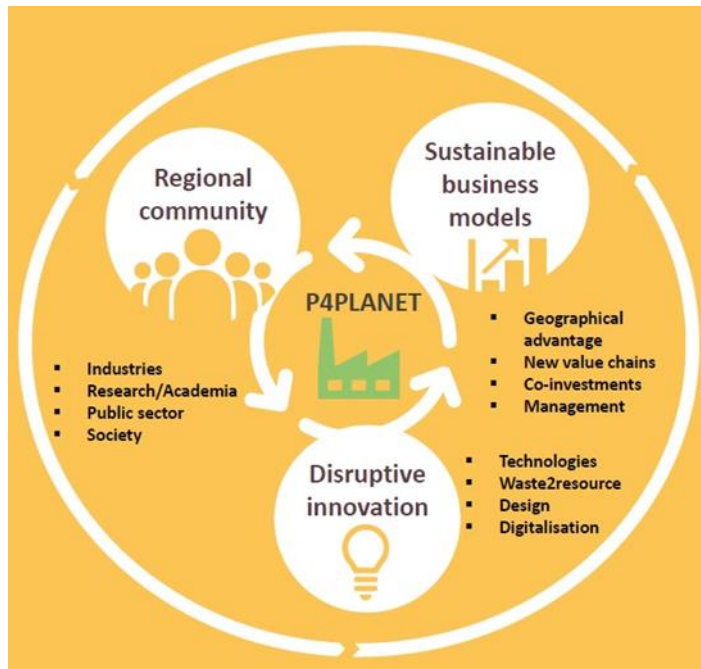
Circularidad y Simbiosis Industrial

Simbiosis Industrial



Horizon2020:
28 proyectos, 168M€

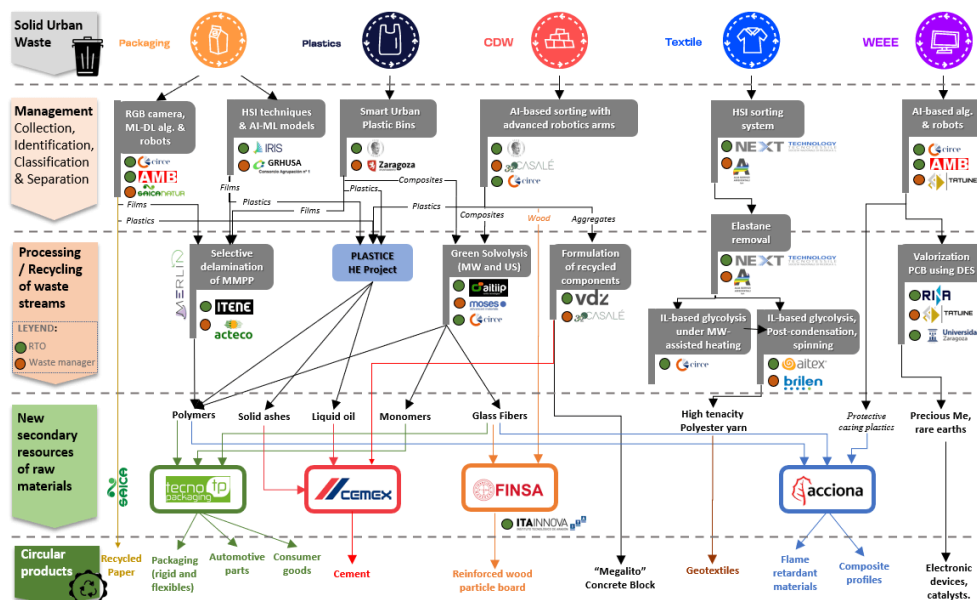
Hubs4Circularity (H4C)



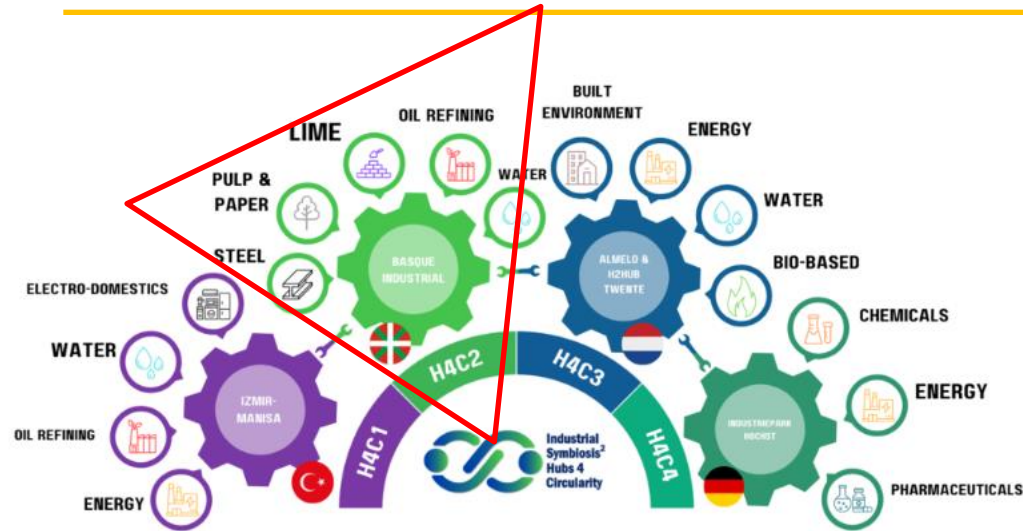
- Territorial systemic solutions (regional approach)
- **Processes4Planet inside!**
- Facilitation necessary to overcome non-technological barriers to symbiosis

Hubs 4 Circularity : Ejemplos en regiones

REDOL: Aragon's REgional Hub for circularity: Demonstration Of Local industrial-urban symbiosis initiatives



Hubs 4 Circularity : Ejemplos en regiones españolas



EUROPA
@HorizonteEuropa



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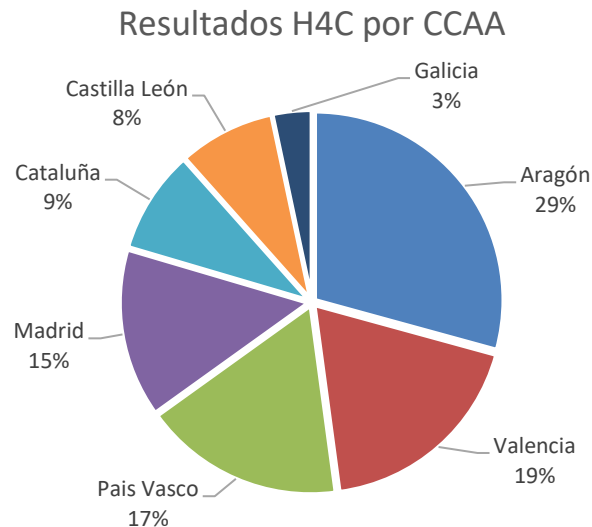
INDUSTRIAL

Hubs 4 Circularity : Conclusiones hasta la fecha

- H2020: 28 Proyectos 168M € (CORALIS, EPOS, SYMBIOPTIMA, SHAREBOX..)
- Horizon Europe 2021-24: 5 topics 150M€.

8 proyectos financiados con participación ES
3 coordinados ES

25,8 M€ para entidades ES
ES 1º país en retorno (17,1%)



Conclusiones

- Circularidad en las Industrias de Procesos y Simbiosis Industrial
- Las regiones españolas han participado con mucho éxito
- Oportunidad para implementar, a nivel local/regional, formas de colaboración innovadores y modelos de negocio integrados.
- Existen muchas barreras no tecnológicas; los agentes regionales pueden tener un importante papel dinamizador en este tipo de proyectos.

- Más información

Community of Practice : www.h4c-community.eu

- Otras iniciativas: Circular Cities & Regions Initiative (CCRI), Interreg (CHEERS4EU)



Información General: WP 2025

- Publicación prevista abril
- Convocatoria Industria más de 600M€
- Cierre convocatorias septiembre!!

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Preparación convocatoria 2025:

6 febrero: primer webinar



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Cluster 4: Digital, Industry and Space.
Los martes de Industria

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

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+info sobre programas y ayudas CDTI
para
proyectos de I+D empresarial e innovación



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