



PROCESSES4PLANET

Transformando la industria de procesos para un planeta sostenible y una sociedad próspera

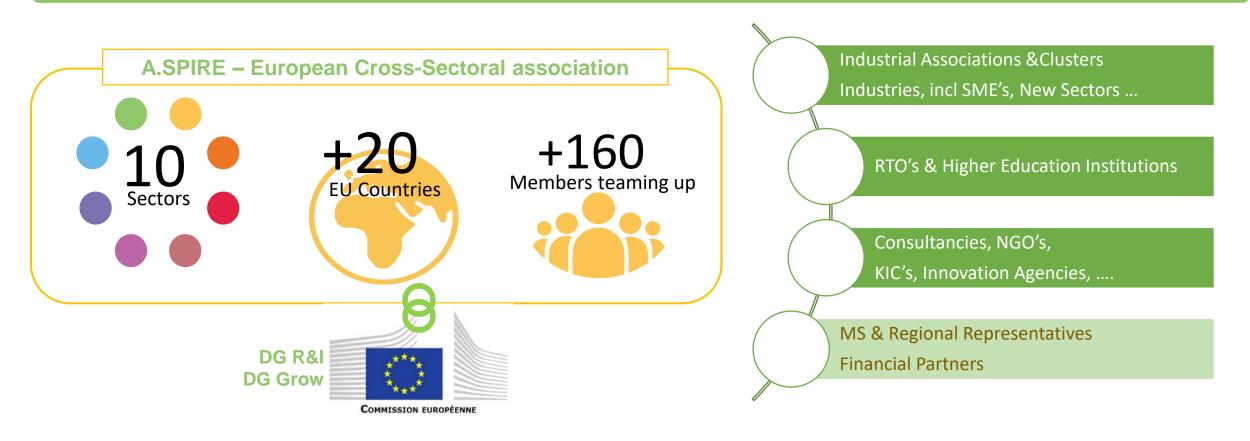
JORNADA ECONOMÍA CIRCULAR

Oportunidades para la I+D+i en el nuevo contexto europeo 13 Mayo 2021

> Àngels Orduña Cao Directora Ejecutiva A.SPIRE



A vibrant community ...



OPEN APPROACH: inclusive of different stakeholders and welcoming Newcomers



Transformation levers and tools to enable P4Planet to achieve its ambitions



PROCESSES

Innovation to reach **First deployment** & deliver **Impact**

The power of Process Industry Innovation in our SRIA

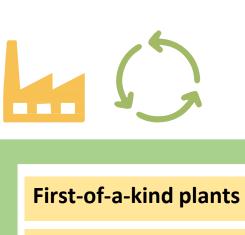


Unique cross-sectoral community

	Progress up until milestone year ¹			
Innovation area	2024	2030	2040	2050
Renewable energy integration	0			
Heat reuse	C			
Electrification of thermal processes	\bigcirc			
Electrically-driven processes	0			
Hydrogen integration	Ċ			
CO ₂ capture for utilisation	Õ			
CO2 utilisation in minerals	0			
CO2 & CO utilisation in chemicals and fuels	0	0		
Energy and resource efficiency	O			
Circularity of materials	Õ			
Industrial-Urban symbiosis	0			
Circular regions	Ò			
Digitalisation				
Non-technological aspects	0	Ó	0	Õ
¹ Progress is depicted here as % of total TRL9 projects progra digitalisation, and non-technological aspects % of total investi			or circular re	gions,

36 innovation programmes to FILL the GAP

+ Skills, Jobs, Competitive gap analysis, Framework/Standards



Hubs for Circularity



Ambitions to enable Prosperity for all



Climate neutrality Net-zero emissions

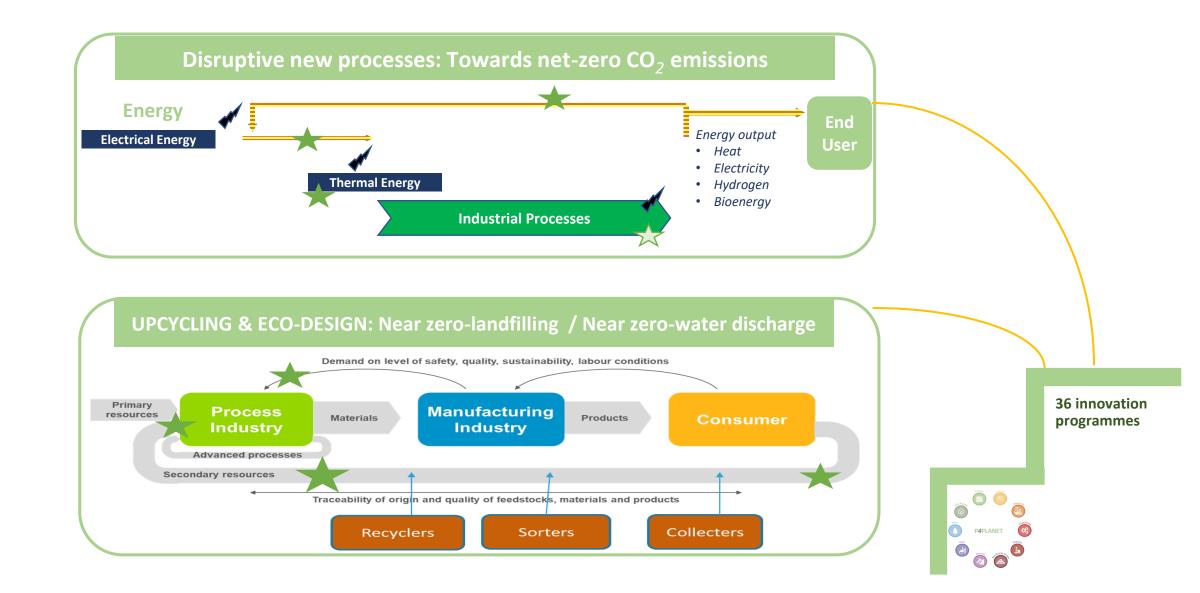


Circularity: Near zero landfilling and near zero water discharge



Globally Competitive EU process industry





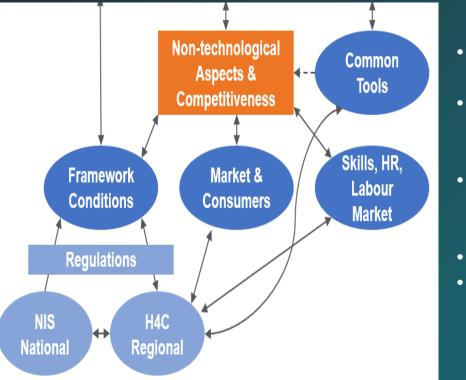




VSDISE

NON-TECH & SOCIAL INNOVATION

Delivering more societal, economic and market impact.



- EU, national & regional framework conditions
- Management of market & consumer demands & changes
- Effective common tools: LCA, business models, digital methodologies...
- Gender balance
- Human Resources, skills and labour market

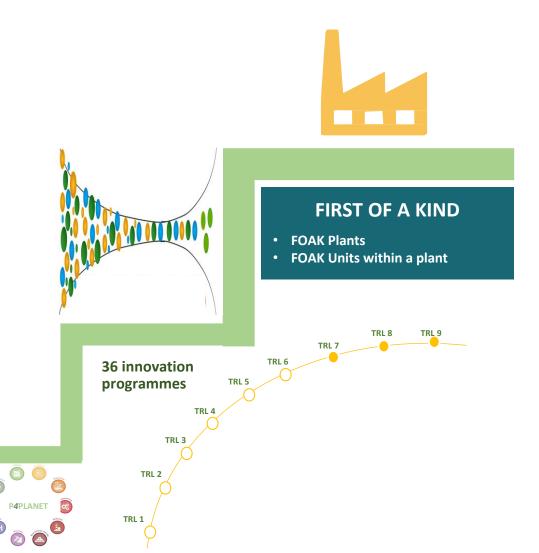


"European Energy Intensive Industry Skills Agenda and Strategy" Erasmus+ Project



A.SPIRE 10 sectors and innovation eco-system working together for the skills of the future on Industrial-Urban Symbiosis and the Process Industry 4.0

MARBLES: a showcase of the Process Industry transformation



- First-of-a-kind Large scale plants in operation
- Combine one or several P4Planet Innovations towards the 2030/2050 ambitions to reach Climate neutrality and circularity
- Acting as Hubs of bulk amounts of resources from industry and the municipalities.
- Several marbles will likely connect to reach together the targets of the partnership's KPIs
- 50+ Marbles identified of which ca. We aim to launch 15 in the period 2021 – 2030, responding to the green-deal plan, and enabled by the P4planet innovation portfolio

PRIVATE INVESTMENTS

- Industry leader commitment
- Technical and economic feasibility proved at TRL 9
- Public support needed to de-risk and accelerate

HUBS FOR CIRCULARITY Objective: impact across Europe

THE CONCEPT

Self-sustaining economic industrial ecosystems for full-scale Industrial-Urban Symbiosis and Circular Economy, closing energy, resource and data loops and bringing together all relevant stakeholders, technologies, infrastructures, tools and instruments necessary for their incubation, implementation, evolution and management.

- → Territorial systemic solutions with integration of interregional recycling value chains
- \rightarrow Processes4Planet inside!
- → Facilitation necessary to overcome nontechnological barriers to symbiosis

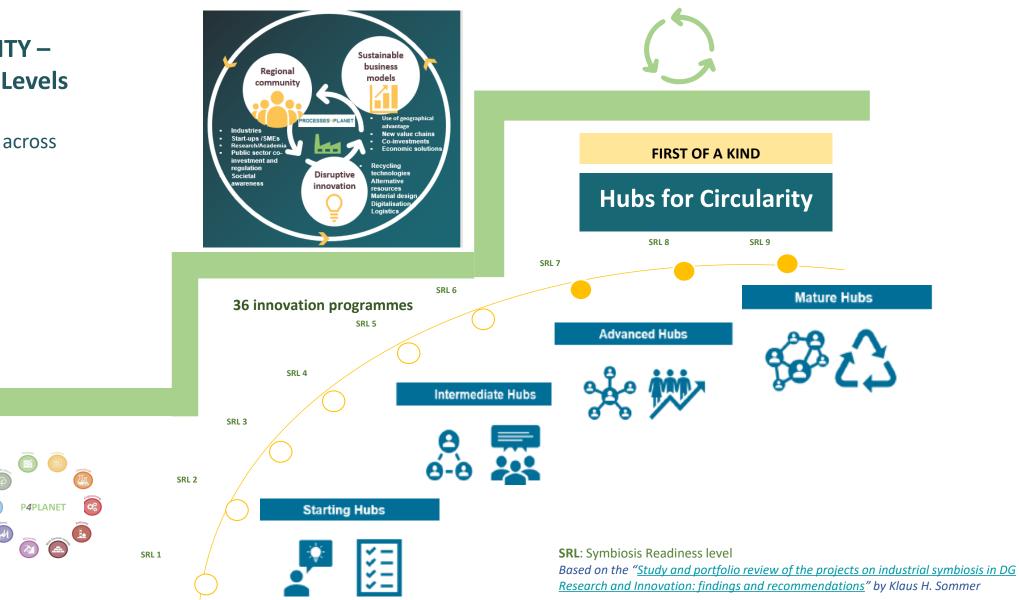


ASPIRE

HUBS FOR CIRCULARITY – Symbiosis Readiness Levels

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Generating impact at scale across EU regions







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