

Hubs4Circularity: Impacto en las regiones

Asturias Paradise H4C. Oportunidades de los residuos sólidos urbanos para la industria.

26 Mayo 2021

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Directora Ejecutiva
A.SPIRE

A vibrant community ...

A.SPIRE – European Cross-Sectoral association



DG R&I
DG Grow



COMMISSION EUROPÉENNE

Industrial Associations & Clusters
Industries, incl SME's, New Sectors ...

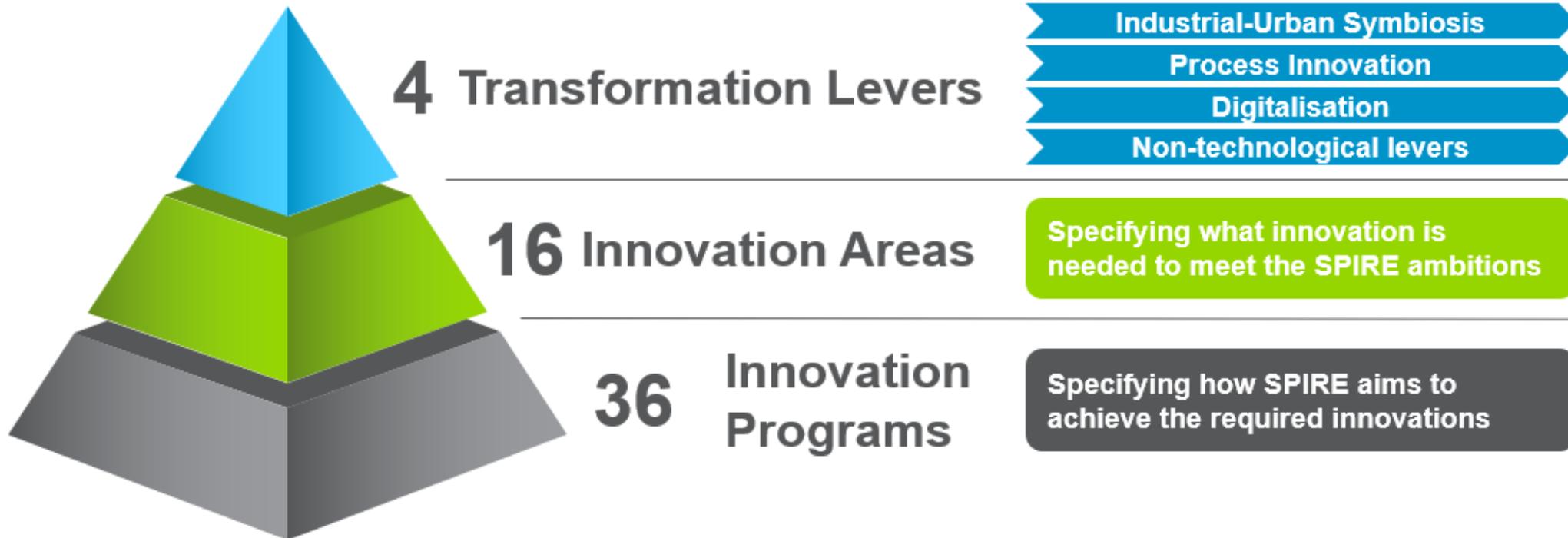
RTO's & Higher Education Institutions

Consultancies, NGO's,
KIC's, Innovation Agencies, ...

MS & Regional Representatives
Financial Partners

OPEN APPROACH: inclusive of different stakeholders and welcoming Newcomers

Transformation levers and tools to enable P4Planet to achieve its ambitions



The power of Process Industry Innovation in our SRIA



Unique cross-sectoral community

Innovation area	Progress up until milestone year ¹			
	2024	2030	2040	2050
Renewable energy integration	●	●	●	●
Heat reuse	○	○	●	●
Electrification of thermal processes	○	○	●	●
Electrically-driven processes	○	○	●	●
Hydrogen integration	○	○	●	●
CO ₂ capture for utilisation	○	○	●	●
CO ₂ utilisation in minerals	○	○	●	●
CO ₂ & CO utilisation in chemicals and fuels	○	○	●	●
Energy and resource efficiency	○	○	●	●
Circularity of materials	○	○	●	●
Industrial-Urban symbiosis	○	○	●	●
Circular regions	○	○	●	●
Digitalisation	○	○	●	●
Non-technological aspects	○	○	●	●

¹ Progress is depicted here as % of total TRL9 projects programmed in each area, and for circular regions, digitalisation, and non-technological aspects % of total investment needs until 2050

36 innovation programmes to FILL the GAP

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



First-of-a-kind plants

Hubs for Circularity



Ambitions to enable Prosperity for all



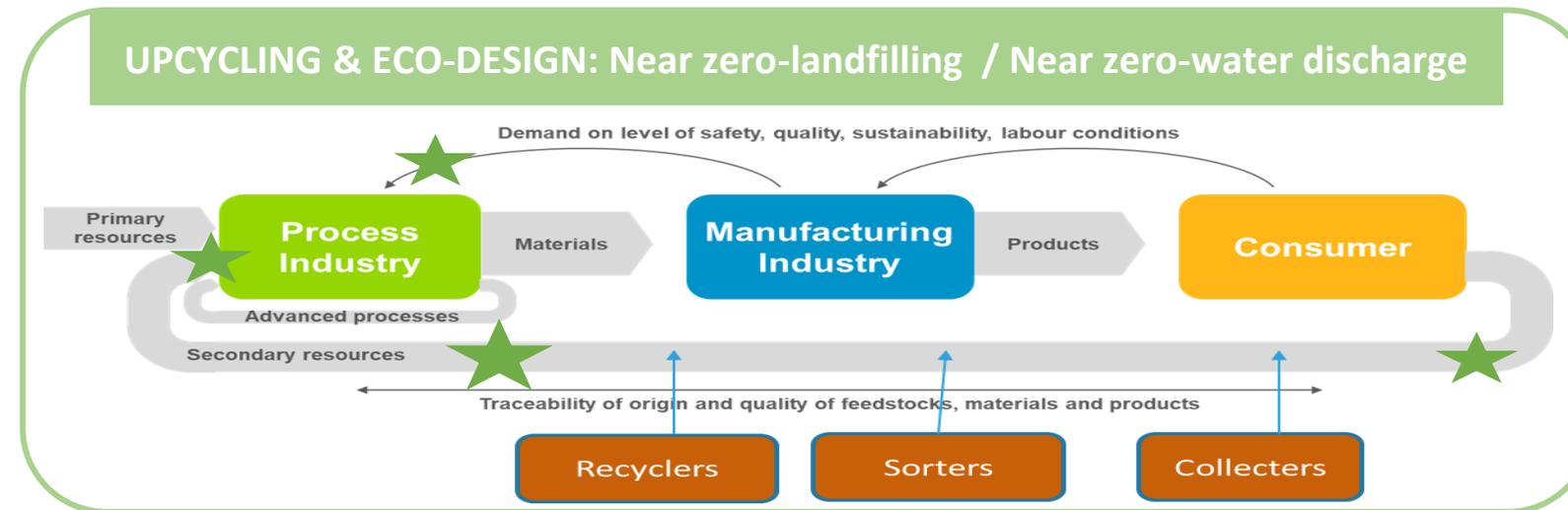
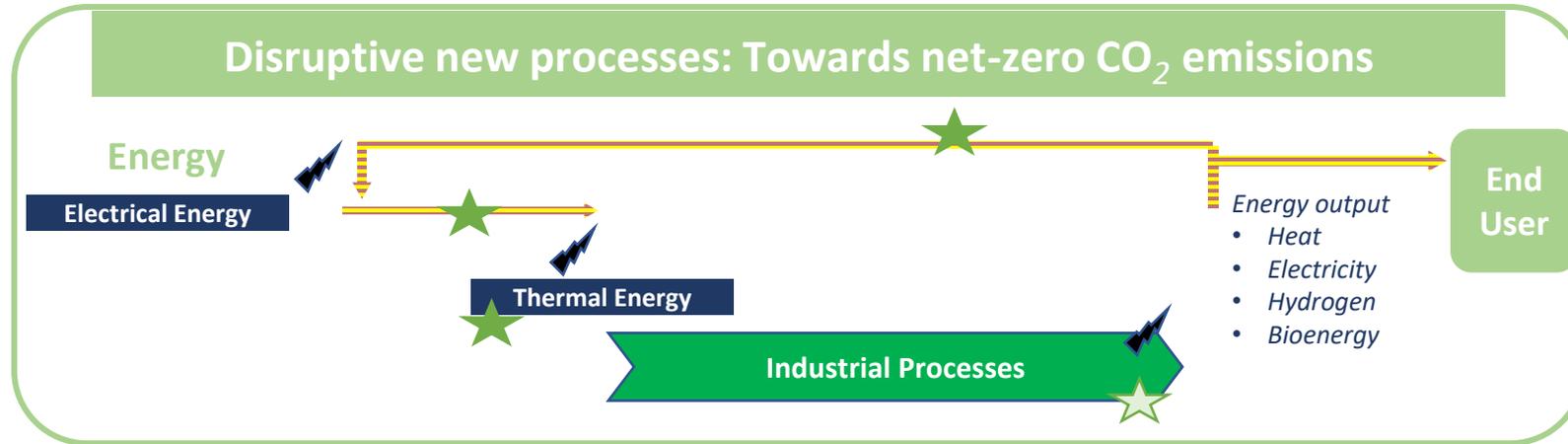
Climate neutrality
Net-zero emissions



Circularity:
Near zero landfilling
and near zero water discharge



Competitive EU
process industries



36 innovation programmes

A collection of 36 small circular icons, each representing a different innovation programme. The icons are arranged in a grid-like pattern and feature various symbols related to sustainability, technology, and industry.



UPCYCLING AND ECO-DESIGN: “THE” NEW EU MODEL OF REAL CIRCULARITY

Setting the circular value chain into motion

HUB MODUS OPERANDI FOR BUSINESS:

Every decision of each company to consider the possibilities of impact in the other companies in the hub (A small loss can later revert in a bigger benefit, collectively and individually)

Large industry in a tracking role with innovative SMEs growing as providers of solutions.



ENGAGEMENT OF ALL RELEVANT STAKEHOLDERS

Public sector, industry, academia, civil society, community, investors... Facilitator to build trust & synergies needed

OVERCOMING REGULATORY BARRIERS

Through continuous dialogue by the EU, MS, regions and the industry

CO-INVESTMENT STRATEGIES for joint **BUSINESS2TERRITORY PLANS** need to be defined by all stakeholders.

HUBS FOR CIRCULARITY

THE CONCEPT

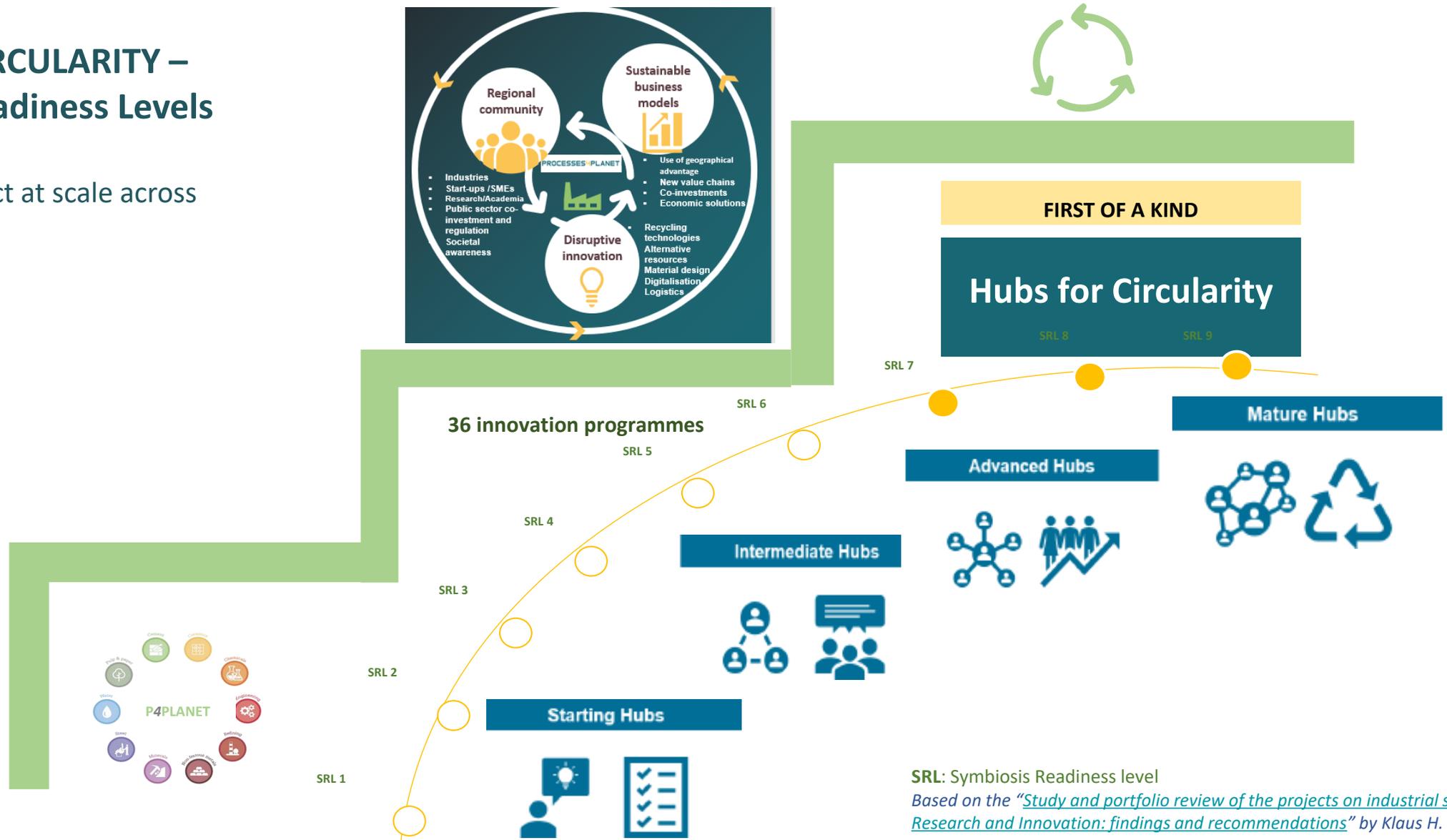
Self-sustaining economic industrial ecosystems for full-scale Industrial-Urban Symbiosis and Circular Economy, closing energy, resource and data loops and bringing together all relevant stakeholders, technologies, infrastructures, tools and instruments necessary for their incubation, implementation,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

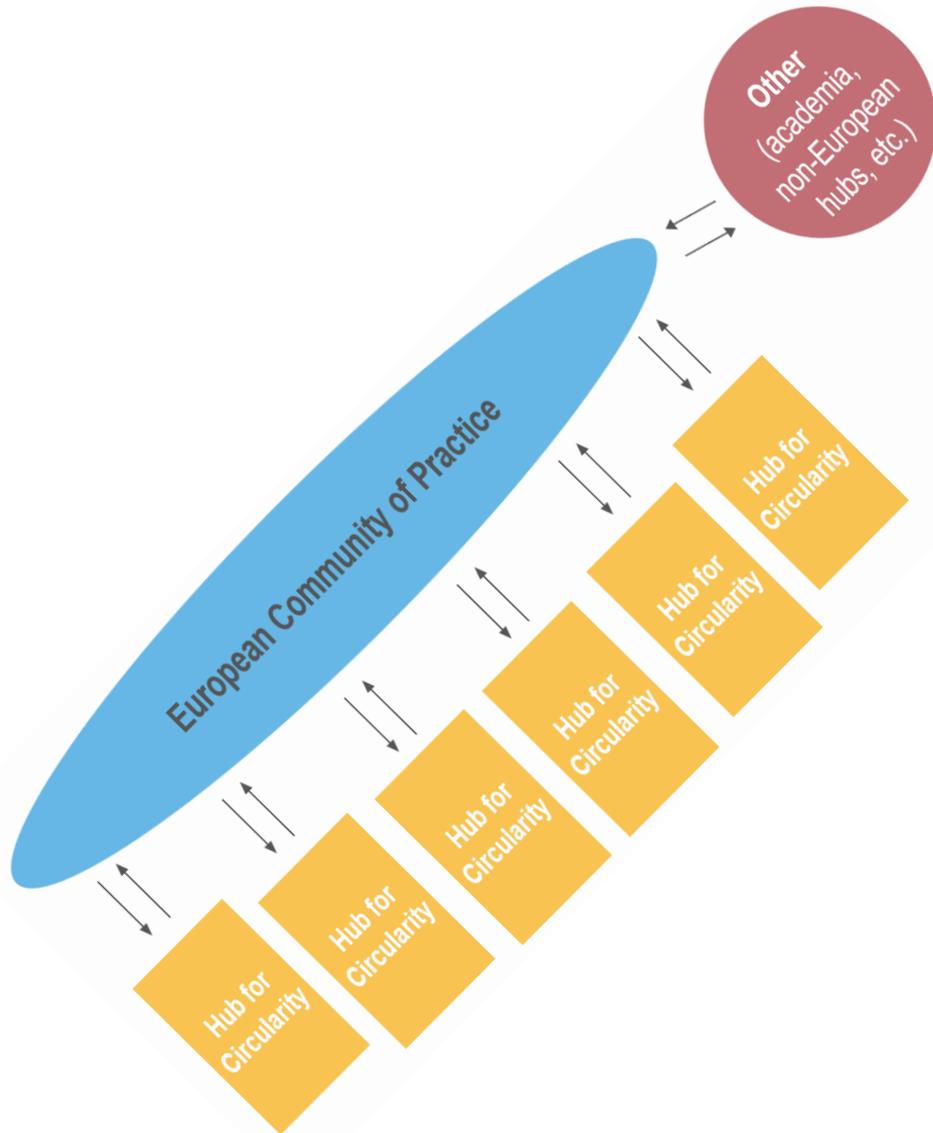
- Territorial systemic solutions with integration of interregional recycling value chains
- **Processes4Planet inside!**
- Facilitation necessary to overcome non-technological barriers to symbiosis



HUBS FOR CIRCULARITY – Symbiosis Readiness Levels

Generating impact at scale across EU regions





ECoP INNOVATION ACTIVITIES

1. Build the European Community of Practice that connects H4C on the level of knowledge management and services
2. Synthesise findings into generic learning/frameworks and keep knowledge about state-of-the-art solutions updated
3. Enable evaluation of I-US projects
4. Facilitate education

On a regional level,

- Knowledge on local availability of material and heat flows and resulting opportunities and requirements
- Value chains need to be developed based on the flows, optimizing logistics.
- Create regional value loops in an inter-plant scenario.

On the European level,

- Development of the technologies, knowledge, tools and best-practice exchange to accelerate roll-out of I-US.
- Bringing together the regional H4C in one network of networks
- Collaboration with other initiatives (EIT KICs, The H2 Valleys, the Digital Innovation Hubs or other pan-European initiatives).

Teaming up to address the challenges of Climate Change, Circular Economy and Competitiveness together

LARGER INDUSTRIES:

- Continuous dialogue on R&I across SPIRE sectors and beyond
- Channel to raise your voice on R&I for HEU & other programmes
- Access to a pool of knowledge & talent (in Universities, research centres....)
- Direct access to SME providers
- Collaboration with the innovation ecosystem and value chain
- Access to developments by other projects, SMEs, universities...
- Protection of intellectual property
- Dialogue with the EC, MS, regions, MePs & other stakeholders



SMEs:

- Direct Access to growth opportunities
- Direct Access to new markets
- Direct Access to large industry customers

RTOs, NGOs Innovation agencies et al.:

- Direct Access to applied innovation
- Link to deliver impact to society and regions
- Collaboration for disruptive innovations

2021 EVENTS

- **8 – 19 February:** P4Planet first Brokerage / Ideation event and virtual networking
- **April (tbc by the ED):** Informal Partnership Board meeting with the EC to prepare for the launch of Processes4Planet (Virtual)
- **21 April:** H4Cs Workshop with Member States
- **Mid-June:** P4Planet brokerage actions – follow up
- End-June (tbc by the EC): EC Info Days on Horizon Europe 1st Work programme
- **23-24 June:** R&I Days
- **23 June:** P4Planet Partnership MoU signature & launch event (Virtual; side event of R&I Days)
- **October:** A.SPIRE community event & stakeholders' event (hybrid/virtual)

Board meetings: January, March, April, June, November 2021

From July to December 2021:

- kick-off of A.SPIRE new Advisory and WGs (only for A.SPIRE members)
- kick-off of P4Planet'S Partnership Board + Feedback Panel + Impact Panel

The logo for ASPIRE, featuring the word "ASPIRE" in a bold, blue, sans-serif font. The letters "S", "P", and "I" have horizontal yellow and orange bars passing through them.

PROCESSES4PLANET



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