ASPIRE
PROCESSES4PLANET RESEARCH ASSOCIATION

PROCESS INDUSTRIES: GLOBAL CHAMPIONS ROOTED IN EUROPE

A.SPIRE Innovation4Competitiveness Vision

- Powering global Process Industry leadership in high-value materials and products
- Shaping a net-zero and circular future and Europe's strategic autonomy for all generations

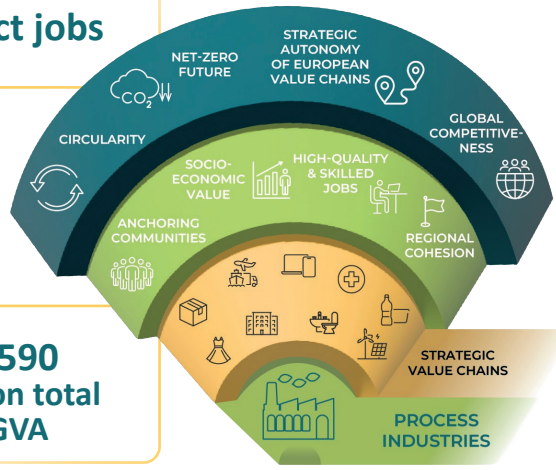
PROCESSES4PLANET

WHY IT MATTERS

The Process Industries are at the heart of Europe's economy.
They transform raw resources into the essential materials and products that make modern life possible, underpinning essential value chains, delivering wealth, and enabling European ambitions.
The Process Industries create:

13,1 million direct jobs

10-15 million indirect jobs



€590 billion total GVA

23% of Europe's GVA

AT A TIPPING POINT

But today, the risk of industrial decline in Europe is no longer hypothetical; it is already unfolding across sectors.
Production, capacity and employment are decreasing.

The long-term European viability of Process Industries is at risk.

CHALLENGES

- **High energy prices and resource scarcity**
- **Barriers for scaling-up and deployment**
- **Fragmented EU framework**

OPPORTUNITIES

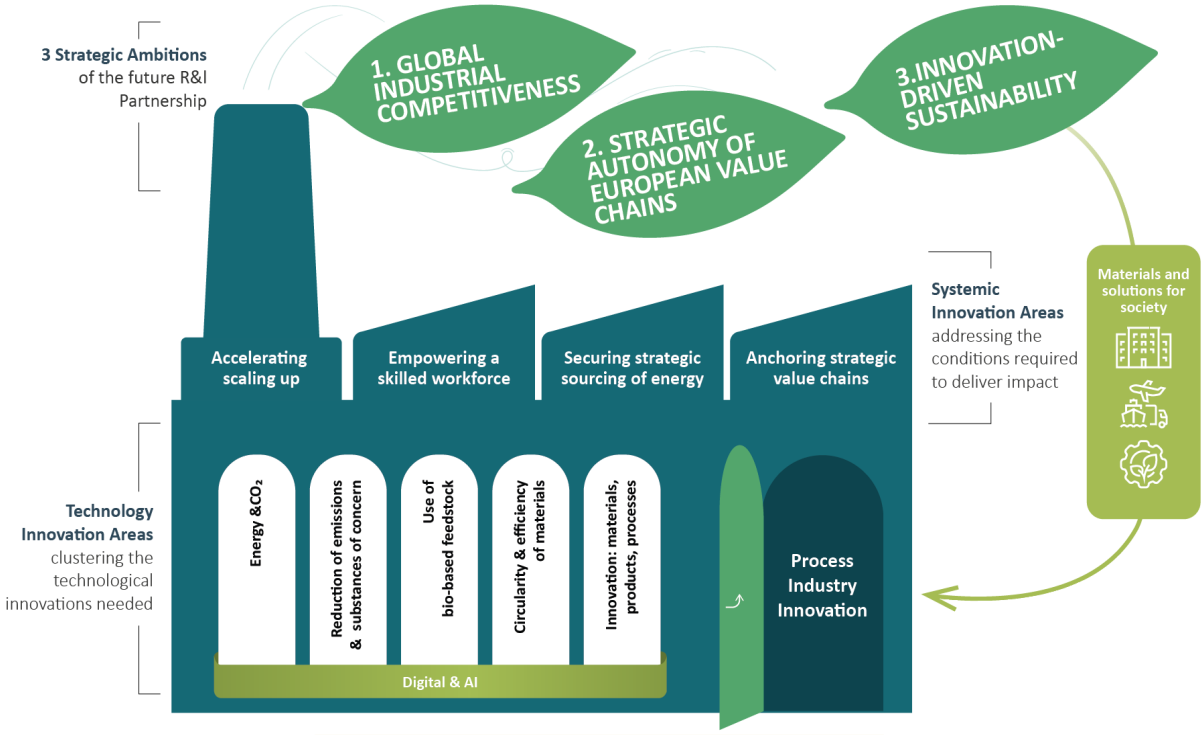
- **Energy mix**
- **Circularity**
- **High-performance materials and products**
- **Digital and AI**
- **Cross-sectoral collaboration**

Process Industries: Global Champions Rooted in Europe

But the Industries' choice is clear: Lead, compete, innovate and act decisively!

The Vision puts forward three Strategic Ambitions

- Global industrial competitiveness
- Strategic autonomy of European value chains
- Innovation-driven sustainability



SYSTEMIC INNOVATION AREAS

- Accelerating scaling up
- Empowering a skilled workforce
- Securing strategic sourcing of energy
- Anchoring strategic value chains

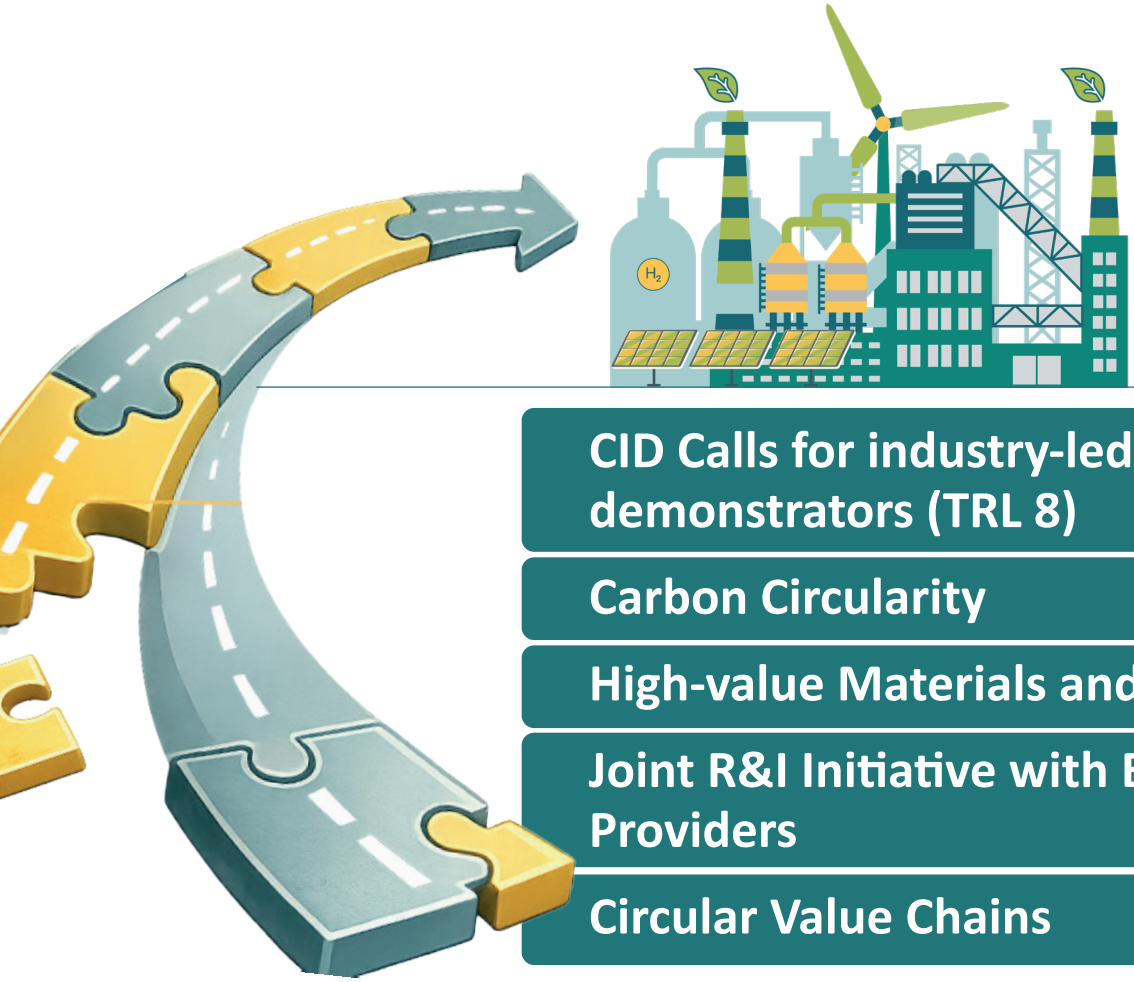
TECHNOLOGY INNOVATION AREAS

- Energy and CO2
- Reduction of emissions and substances of concern
- Use of bio-based feedstock
- Circularity of materials and materials efficiency
- Innovations in materials, products and production processes
- Cross-cutting digital and AI

- Strategic Research, Innovation and Deployment Agenda (SRIDA)

FLAGSHIP INITIATIVES

The Vision includes examples of tangible initiatives illustrating how the Vision can be brought to life, helping to connect the dots. Innovation developments and dialogue for synergies and acceleration will be at the core of these flagship initiatives.



- **CID Calls for industry-led demonstrators (TRL 8)**
- **Carbon Circularity**
- **High-value Materials and Products**
- **Joint R&I Initiative with Energy Providers**
- **Circular Value Chains**

Positioning the Process Industries as:

- Global champions rooted in Europe
- Frontrunners in innovation and performance
- Delivering lasting economic, environmental and societal benefits
- For all generations

Join A.SPIRE and drive innovation across Process Industries for a competitive, autonomous, and sustainable Europe.

Contact

A.SPIRE
Rue Belliard 40, 1040
Brussels, Belgium
comms@aspire2050.eu
www.aspire2050.eu