

SPIRE 2050



An integrated and digital European Process Industry, fostering a "well-below 2 degrees" scenario and a fully circular future for our planet and society.



The **Value Proposition for SPIRE 2050** expresses our **ambitious Vision** that the future of Europe lies in a strongly enhanced cooperation across sectors and across borders, enabling a meaningful step change in competitiveness and sustainability performance.

Electrification of industrial processes, energy mix, CCU and resources flexibility are part of our core technology drivers to **lead the sustainable reindustrialisation of European Process Industry**. Changes in SPIRE industries have a multiplier effect in the rest of the value chain and in products reaching the end-users.

Facilities must become strongly interconnected.

Innovative "industrial ecology" business models must be developed to redesign the European industrial network: SPIRE 2050 aims to build physical and digital bridges across sectors and countries.

The benefits from artificial intelligence, blockchain, cyber physical technologies must also be maximised across sectors, making sure that European value chains and related data remain mastered in Europe.

SPIRE Industries must also deliver technical solutions enabling the transition of the global economy towards a "well-below 2 degrees" scenario. Our ambition is to develop game changing technologies towards carbon neutrality and to scale them up to reach a step change in Carbon Productivity.

Process Industries should also become "Hubs for Circularity" of energy and material resources in the EU, deploying industrial / urban symbiosis at scale in collaboration with public authorities and society.

The technological gap to achieve this Vision remains huge. SPIRE 2050 is ready to contribute its share to bridge this gap through ambitious Research and Innovation initiatives under Horizon Europe that contribute to achieve these EU and global goals. Our ambition is to **boost investments in Europe** generating global competitiveness for EU Process Industries, better jobs and welfare for our citizens.

