

SPIRE

Sustainable Process Industry through
Resource and Energy Efficiency



SPIRE in Horizon Europe

*Towards the next generation of
EU process industries*

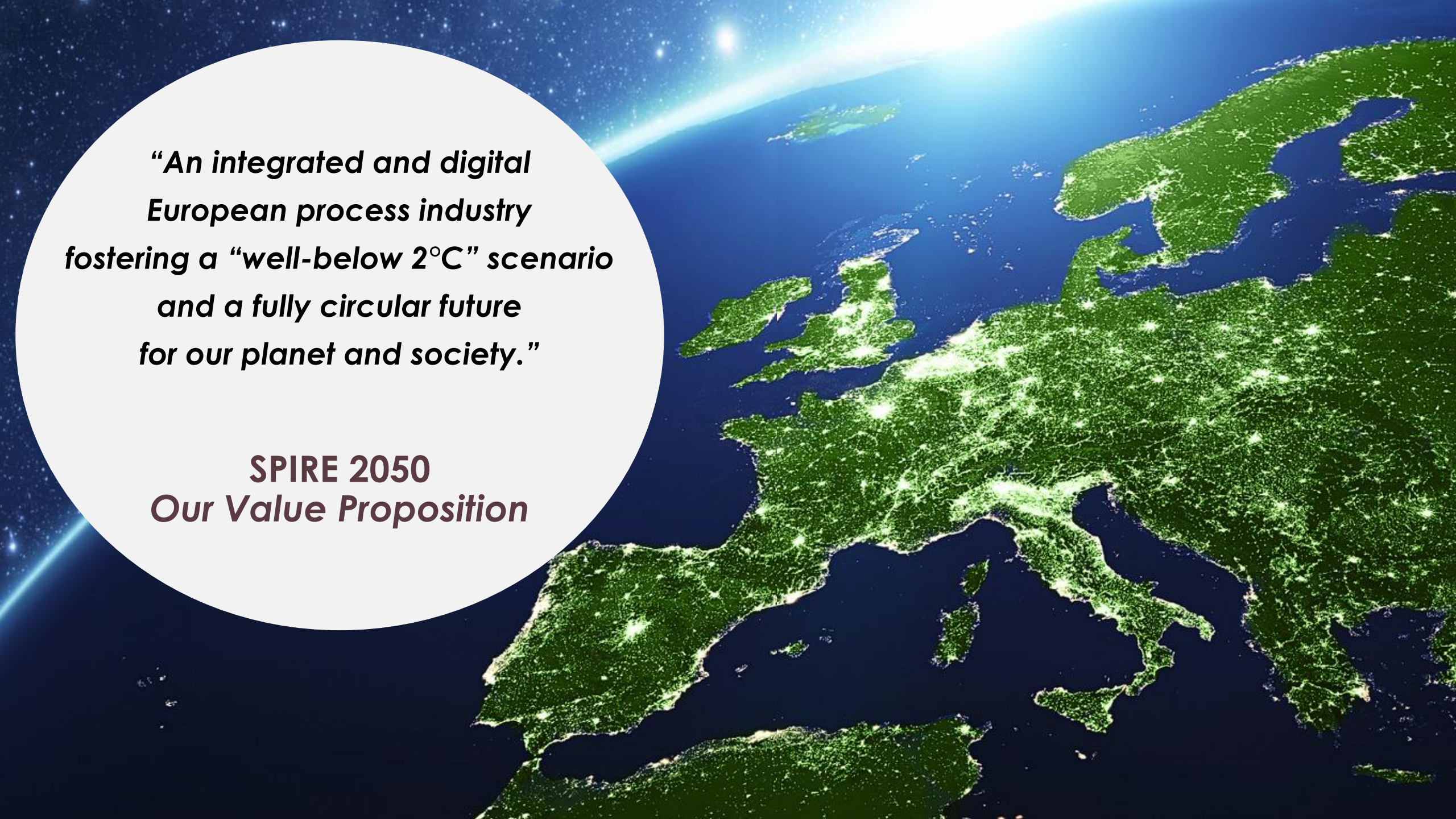
Daniel Gauthier
Chair, A.SPIRE

SPIRE 2050 VISION

Answering:

- Global Challenges
- The demands from society



A satellite-style image of Europe, showing the continent in green and brown, surrounded by blue oceans. The sun is visible in the upper right corner, creating a bright glow over the horizon. A large white circle is overlaid on the left side of the image, containing text.

***“An integrated and digital
European process industry
fostering a “well-below 2°C” scenario
and a fully circular future
for our planet and society.”***

SPIRE 2050
Our Value Proposition

Integrated

Innovative “industrial ecology” models
Building physical and digital bridges
across sectors and countries

Digital

Boosting process efficiency
Generating new business models

Well-below 2 degrees

Process industries as enablers for
a carbon-neutral economy

Circular

Process industries = “Hubs for Circularity”
of energy and resources in Europe
Circularity at scale

The transformation will enhance the competitiveness of entire EU value chains
delivering **growth** and **jobs** in Europe

SPIRE strives for positive change at **local, regional, Member States and European levels.**

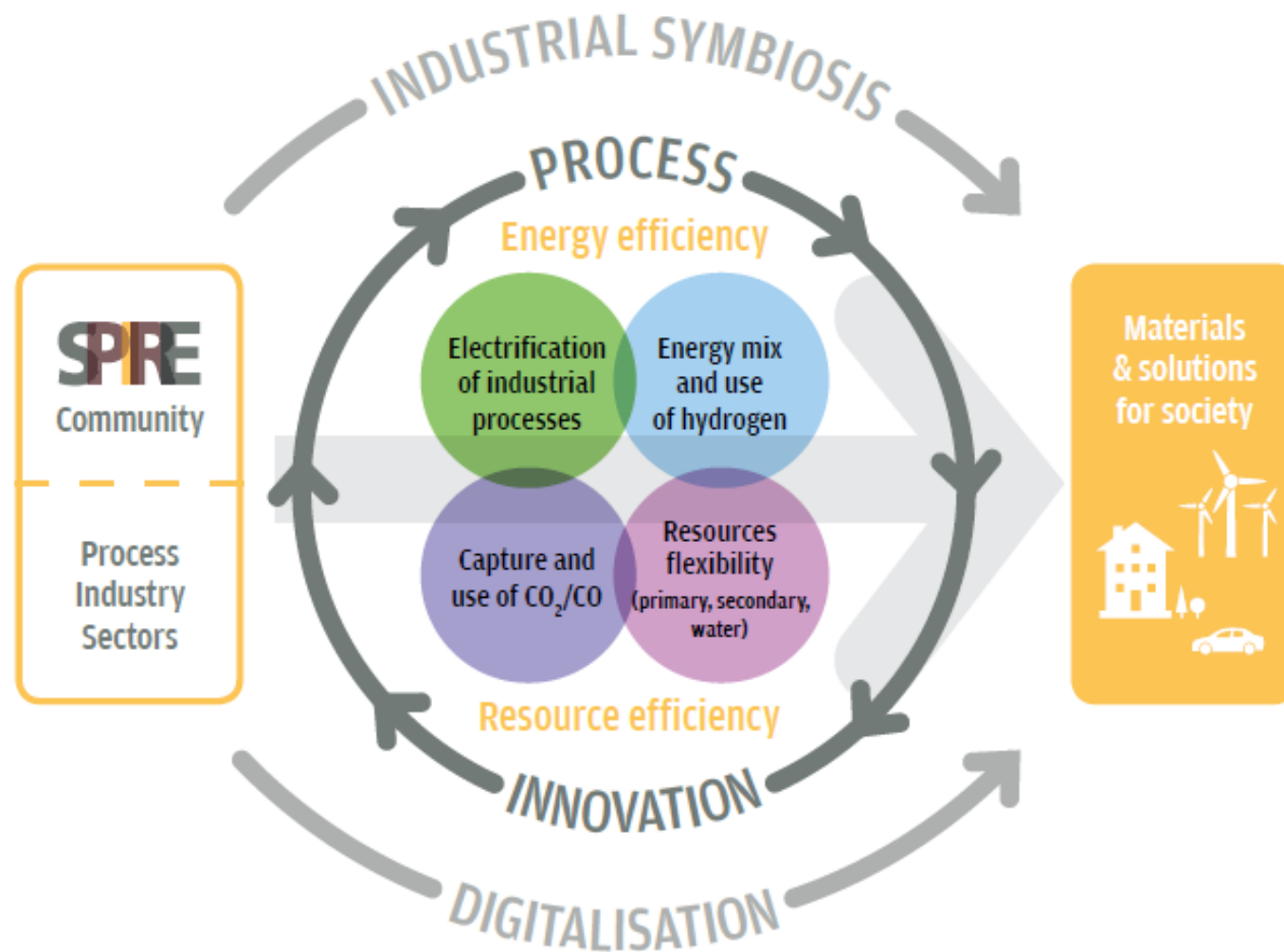


4 technological drivers

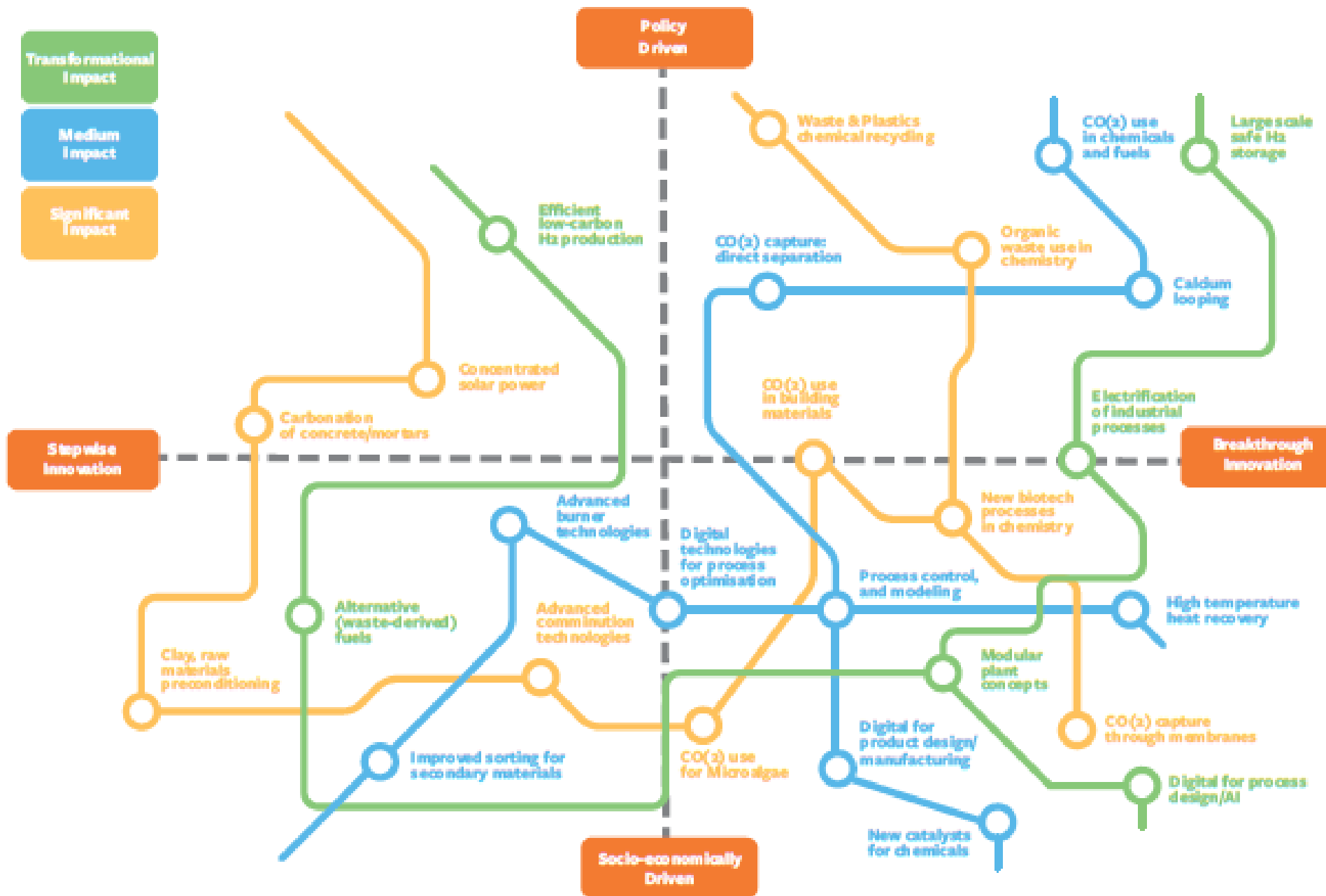
Electrification
 Energy mix and H₂
 Capture and Use of CO₂
 Resources flexibility

2 transversal topics

Digitalisation
 Industrial symbiosis



TECHNOLOGY MAPPING

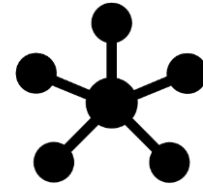


Our ambitions



Closing the climate technological gap

Development of the required solutions to fully contribute to the EU Climate Policy targets



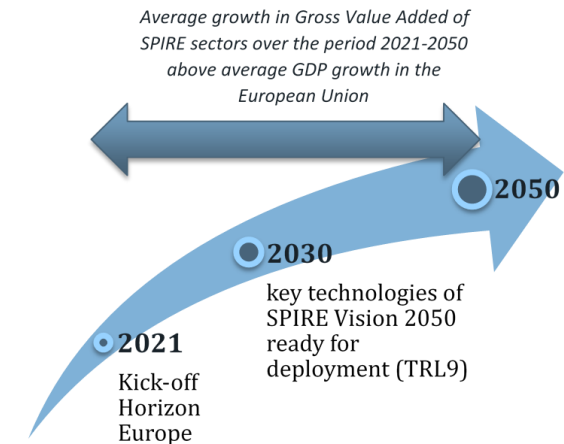
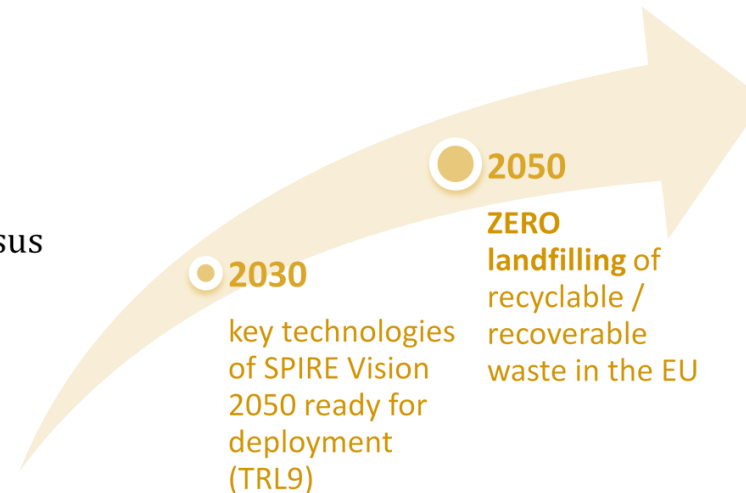
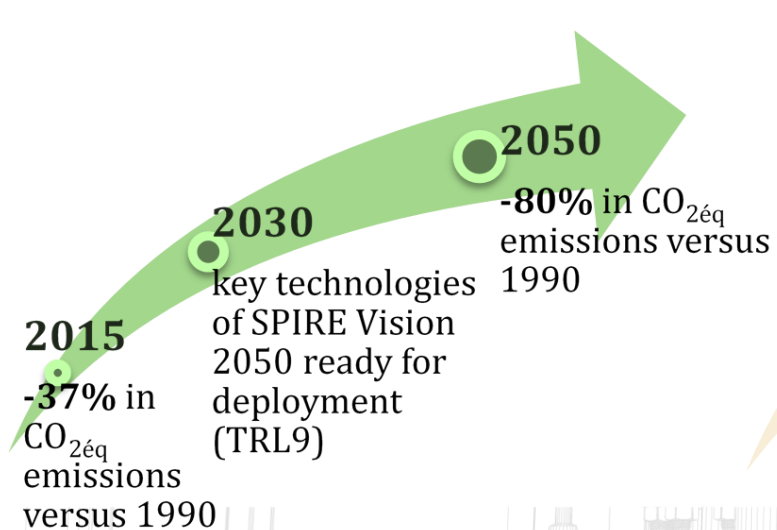
Process industries as Hubs for circularity

Development of required solutions to move towards zero-waste-to-landfill and create Hubs for circularity across Europe



Global competitiveness

Development of technologies which create new investment opportunities for globally competitive EU Process Industries





**An ambitious Vision for
a strong and
sustainable European
Process Industry
enhancing its « value-
to-society »**