INDTECH2018 **Innovative industries for smart** growth

29-31 October, 2018 Vienna, Austria

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PILLAR 3

Session 3.4

Resource and Energy Efficiency

Case study on working with many European platforms and how national industry platforms can still be taken into account

Angels Orduna

A.SPIRE

31 October 2018













Innovative Industries for Smart Growth

SPIRE 2030 ROADMAP / Alignments with EU MS

UK

- NISPs (strong collab with roadmap)
- Industrial Decarb & EE roadmaps 2050

Ireland

- Towards Resource Efficiency Ireland
- Sustainable Processing Ireland

France

- A circular « Nouvelle France Industrielle »
- SPIRE themes in national & regional calls

Spain

Agenda strengthening industrial sector

Portugal

- BSCD: WG Circular economy & Industrial Symbiosis
- Portugal 2020: grounded on R&EE

Netherlands

- Transition to a CO2 neutral economy
- Topconsortium TKI strong links with SPIRE pillars: Feed, Process, W2R

Denmark

Kalundborg Symbiosis

"the world's first working Industrial Symbiosis"



Norway

- Long term strategy: "Industry: greener, smarter & + innovative"
- SPIRE ideas in Norwegian policy & white papers

Germany

- Waste Management & Renewable Energy Sources Act
- Green economy & energy intensive industries policy
- Increased national cross-sectorial projects

Austria

- Intensive funding of EE & CCU projects
- SPIRE topics in national calls & funding of interregional competence centres

Slovenia

Smart Specialization Strategy: focus on secondary raw materials & waste

Italy

- Digital & circular economy agenda, including IS
- Smart specialization strategy: captured input from SPIRE roadmap

Switzerland

EE, Resource Efficiency & Circular economy high in the agenda



SPIRE – ENERGY EFFICIENCY

Collaboration with SET PLAN Action 6

- Iron & Steel
- Chemical and Pharma
- Heat/cold recovery
- Components
- System integration and symbiosis

- 3.1.b New technologies waste heat recovery in industrial system
- 5.1.a Industrial symbiosis
- 5.1.b Non conventional energy sources in process
- 5.2 Further integration with IT systems in process management and plant/process design phase

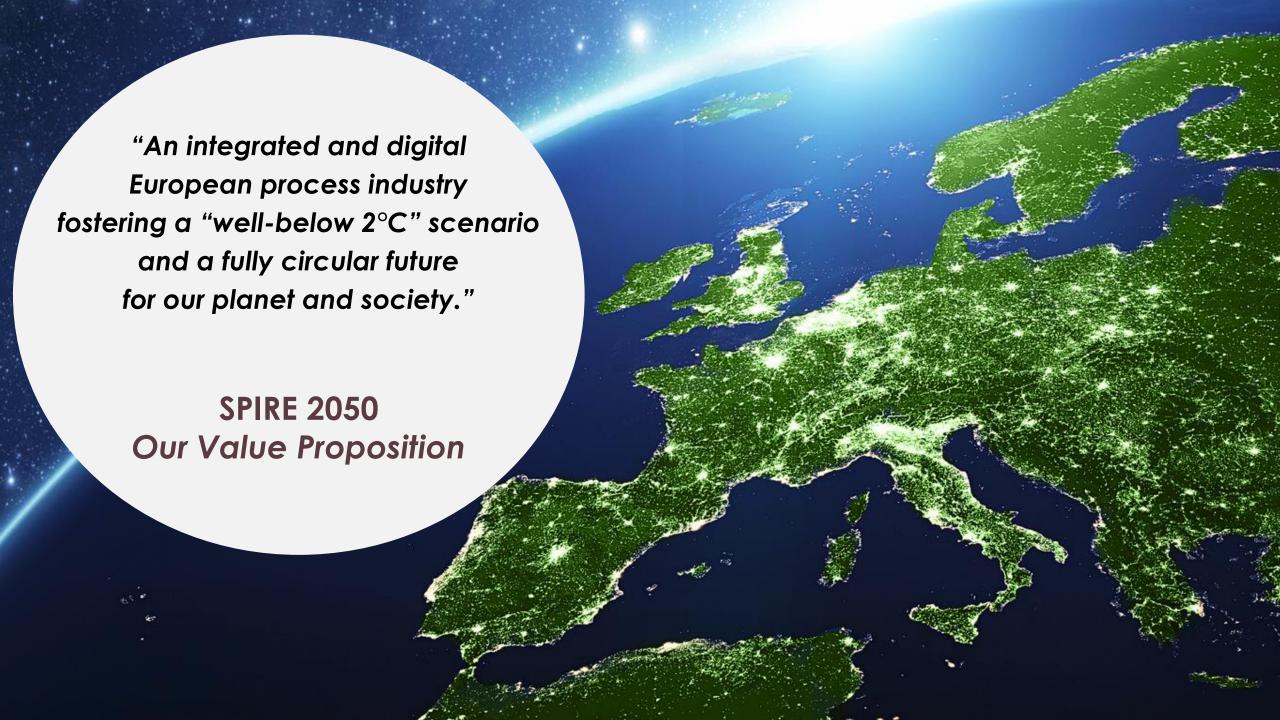
- Responsible: DG **ENER**
- Chair: Finland
- Co-chair: A.SPIRE
- 16 MS endorsed the Implementation Plan
- Currently: towards IWG6











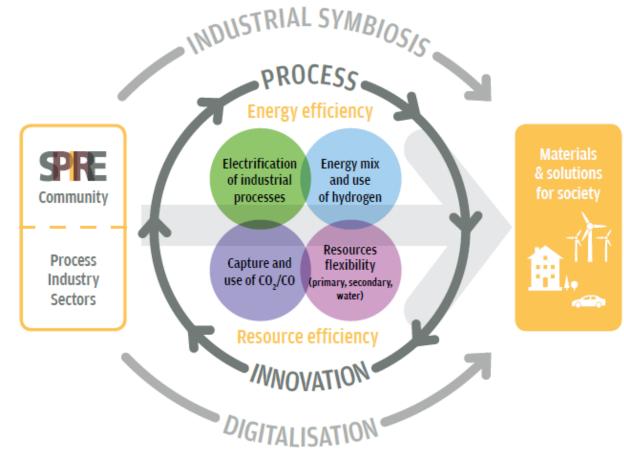


4 technological drivers

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

2 transversal topics

Digitalisation Industrial symbiosis











Sustainable Process Industry through Resource and Energy Efficiency

Our ambitions







Closing the climate technological gap

Development of the required solutions to fully contribute to the EU Climate Policy target of NET-ZERO EMISSIONS

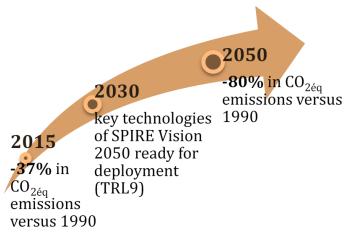
Process industries as Hubs for circularity

Development of required solutions to move towards zero-waste-to-landfill and create

Hubs for circularity across Europe

Global competitiveness

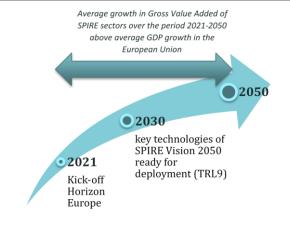
Development of technologies which create new investment opportunities for globally competitive EU Process Industries



Federal Ministry
Republic of Austria
Transport, Innovation
and Technology

2050

ZERO
landfilling of recyclable / recoverable of SPIRE Vision 2050 ready for deployment





(TRL9)



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SPIRE 2050 ROADMAP

Collaboration with MS: towards co-programming

SPIRE 2050 – strongly connected to geography & society:

- Hubs for Circularity
- 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.

KEY ASPECTS UNDER DISCUSSION / DEVELOPMENT

- Identification of MS that support/align with SPIRE 2050 Vision
- Aiming at continuous dialogue and mutual feedback
- SPIRE 2050 roadmap: how to co-program?
- Stakeholders council / Consultations / Groups connected to MS?



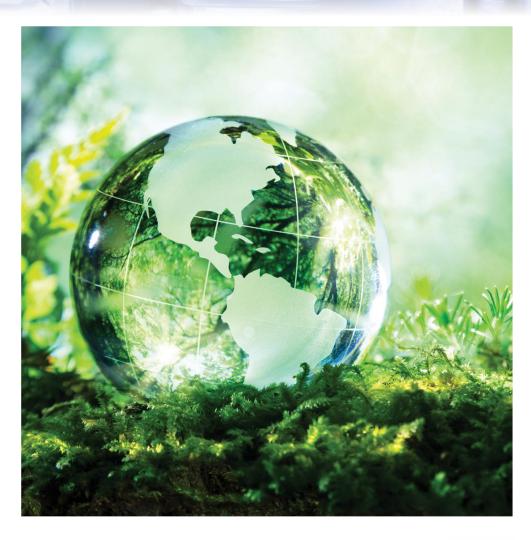












= Federal Ministry

and Technology

Republic of Austria Transport, Innovation

SPIRE 2050

Strengthening the cross-sectorial approach across borders to enhance

« value-to-society »





