

# WHAT IS SPIRE?

A PROPOSAL FOR A EUROPEAN PUBLIC-PRIVATE PARTNERSHIP (PPP)  
DEDICATED TO INNOVATION IN RESOURCE AND ENERGY EFFICIENCY  
AND ENABLED BY THE PROCESS INDUSTRIES

## ITS OBJECTIVE:

To develop the enabling technologies and solutions along the value chain, required to reach long term sustainability for Europe in terms of global competitiveness, ecology and employment.

## INDUSTRY'S RESPONSE TO REAL, TANGIBLE AND URGENT NEEDS

Compelling arguments and a remarkable consensus exist between policy makers and industry about the need to improve the way we manage resources and energy, especially when rare or finite. Industry has a responsibility and unique ability to respond to these challenges, by providing adapted solutions. More specifically SPIRE is addressing three fundamental European challenges:

- urgency to create growth and increase the competitiveness of Europe in a global market;
- need to rejuvenate the European process industry that is at the basis of the European economy in terms of turnover, employment and generation of technologies for all industrial sectors;
- imperative to reduce resource and energy inefficiency and the environmental impact of industrial activities consequences on reduction of waste and CO<sub>2</sub> emissions.

## STRONG INDUSTRY ENGAGEMENT, LARGE PARTICIPATION, COMMITMENT ACROSS SECTORS AND BOUNDARIES

No fewer than 8 industry sectors have contributed to the development of SPIRE. Sectors such as steel, chemicals, minerals, water, non-ferrous metals, engineering, cement and ceramics representing big and small companies, have joined forces and set up common aspirations for innovations in resource and energy efficiency in their sectors and beyond. Through purposeful cooperation, SPIRE developed a practical roadmap, to help ensure that EU innovation projects address the right needs and achieve optimal impact from 2014 to 2020.

## SPIRE IS ONE OF THE FIRST INNOVATION-DRIVEN PUBLIC-PRIVATE PARTNERSHIPS IN EUROPE

The European objectives of 'Smart, Sustainable and Inclusive growth' and the national growth programmes can only be achieved through innovation and depend more than ever on joined public-private initiatives that help direct innovation to meeting societal needs.

“ A.SPIRE is the European Association which is committed to manage and implement the SPIRE PPP. It represents innovative process industries, 20% of the total European manufacturing sector in employment and turnover and more than 50 industrial and research process stakeholders from over a dozen European countries. ”

## A.SPIRE

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**SPIRE** Sustainable Process Industry through  
Resource and Energy Efficiency

## SUSTAINABLE PROCESS INDUSTRY

EUROPEAN INDUSTRIAL  
COMPETITIVENESS THROUGH  
RESOURCE AND ENERGY EFFICIENCY

**SPIRE**  
Sustainable Process Industry through  
Resource and Energy Efficiency

# 1. SPIRE IS A GROUNDBREAKING PROPOSAL WITH TWO AMBITIONS FOR 2030

1. Reducing fossil energy intensity of up to 30% from current levels;
2. Reducing non-renewable, primary raw material intensity of up to 20% from current levels.

Both ambitions will contribute to efficiency improvement in CO<sub>2</sub>-equivalent footprints of up to 40% by 2030. Potential improvements extend beyond “industry” to all indirectly supplied and dependent economic sectors such as transport, construction, water, electronics etc.

# 2. WITH SPIRE, EUROPE COULD MAKE A GIANT LEAP TO ENHANCE ITS COMPETITIVENESS AND SUSTAINABILITY

- It is innovation- and market- focused;
- It represents a shift in industry mentality, actively addressing drivers of the issues and connecting sectors of the value chain;
- It promotes new business models and encourages social innovation;
- It proposes a united, Europe-focused and cross-sectorial approach, the only way to tackle the current European challenges.

# 3. OUR HIGH AMBITIONS ARE MATCHED BY STRONG INDUSTRIAL COMMITMENT ON AN UNPRECEDENTED SCALE

SPIRE IS AN EFFECTIVE DRIVER TO:

- Involve large corporate, top-academia and high-tech SMEs to activate the value chain and facilitate effective uptake of the PPP results in the market.
- Modernize the European industrial landscape;
- Bring manufacturing back to Europe;
- Make solutions available for SMEs or less performing sectors with the aim to make the EU process industry the n°1 global competitor.

# 4. SPIRE IS FOCUSED ON INNOVATION AND ADVANCES A WIDE RANGE OF MAJOR EU POLICIES

It is a good, relevant vehicle to flesh out various political strategies e.g. Innovation Union, Resource Efficiency, Low carbon economy, new industrial policy, New Skills for New Jobs, Bioeconomy, etc.

SPIRE ambitions will bring huge benefits to the European economy, society and environment. It will help Europe become more sustainable and competitive at global scale.

# 5. ACHIEVING SPIRE'S AMBITIONS WILL HAVE A LONG-TERM, POSITIVE IMPACT ON THE EU ECONOMY:

SPIRE WILL BE INSTRUMENTAL IN ENSURING THE INNOVATION, GROWTH AND COMPETITIVENESS OF MORE THAN 450 THOUSAND ENTERPRISES ACROSS EUROPE, LARGE AND SMALL THAT:

- employ over 6.8 million employees;
- generate more than 1,600 billion € turnover;
- are the basis of the European Economy (20%).

FORESEEN BREAKTHROUGH DEVELOPMENTS WILL HAVE WIDE-RANGING IMPLICATIONS FOR:

- Business → stimulate entrepreneurship in Europe, create new markets;
- Employment → create more jobs in the process industries;
- Academia → encourage world class research and a better transformation of its results into marketed products;
- High-tech SMEs → provide new eco-efficient process technologies.

A SIGNIFICANT GAIN FOR EUROPE AS INDUSTRY WILL PURSUE EXPLOITATION OF GENERATED INTELLECTUAL PROPERTY AND TECHNOLOGY FIRST IN EUROPE.