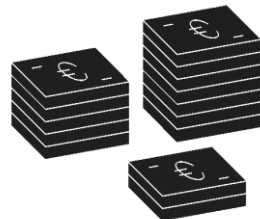


EPOS



- H2020-SPIRE-2015 (RIA)
- Start/end date: 1/10/15 – 30/09/19



- EC funding (A): 3.707.419 € (+ 1.484.888 € Swiss partners)
- Private investment (B): ongoing

Project Case Study

1. The EU/ SPIRE needs

Making business and operations across process sectors more **efficient**, more **cost-effective**, more **competitive** and more **sustainable**

2. The Project Solution

A simple and single management tool for cross-sectorial industrial symbiosis



4. How will this happen?

- Virtual **sector profiles** for rapid screening of industrial symbiosis (IS) opportunities at nearby manufacturing sites (= or ≠ sectors)
- A **user-friendly tool** to help industries and facilitators identify IS **opportunities**
- Typical **business cases** for IS solutions that can be replicated

3. Value to Customers

- New **business** opportunities
- Cost **savings** via optimisation of energy and resources
- Better **footprint** due to sustainability gains (energy saving, emission reduction, waste recovery, etc.)
- **Image** building for the companies involved as well as for the local communities and regions

What are the key expected sustainability impacts of EPOS?



Baseline: 5 clusters of different process industry sectors with limited or no cooperation at the start due to the lack of cross-sector knowledge and understanding

Indicator	Baseline	Expected Impact
Cross-sectorial awareness	Company name and plant location not always known; lack of business interest outside own sector	Sector blueprints enable cross-sector understanding and thus information exchange
Reducing overall costs in energy-intensive industries	Business as usual	case-based cost reductions in economic as well as global sustainability terms
Identification of technology components	Business as usual	25 promising cost and footprint reduction technologies, with 3 enabling technologies put forward
Innovation capacity and industrial symbiosis awareness	Limited knowledge on innovation through industrial symbiosis	EPOS training courses and user club



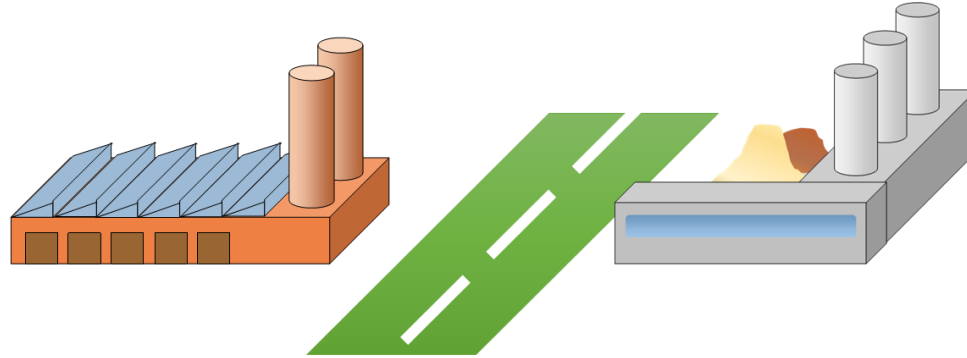
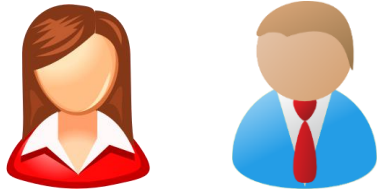
*Core SPIRE indicator



The outputs from EPOS that could have value for other SPIRE projects

- **Sector blueprints:** to characterise and visualise typical processes, units and utilities for each sector
- **EPOS toolbox:** to screen for industrial symbiosis potential across process industry sectors, yielding both engineering (technical) and management (non-technological) solutions
- **Business cases:** to demonstrate industrial symbiosis opportunities that are either specific for two or more process sectors or generic and replicable in many industrial clusters

I bet this industry across the street has some extra steam that we could make use of...



Good morning. We would be interested in to use your waste heat. I'm sure we can mutually benefit from this.

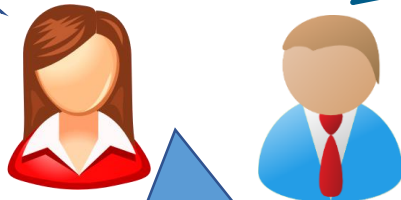


Sorry, no time, no money, no interest... Besides, we don't share internal information



How did it go?

They're not interested. We can forget about it.



Based on our blueprint calculations, we could buy 5 GWh of your steam @ € 20 / MWh



That seems interesting! Can we have a talk about this?



Why not use sector blueprints to estimate the potential?

Contact

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