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

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

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
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

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

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[Project logo]
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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