

# EPOS INSIGHTS #3

## KEY PERFORMANCE INDICATORS FOR INDUSTRIES

Led by:



EPOS insights are publications summarising the most relevant outcomes of the EU funded EPOS project. The overall aim of the EPOS project is to enable cross-sectorial industrial symbiosis and provide a wide range of technological and organisational options for making business and operations more efficient, more cost-effective, more competitive & more sustainable across process sectors.

### INTRODUCTION

This insight summarises the long list of metrics and system settings selected via a joint effort of process industries and academia in view of enabling the development of an integrated industrial symbiosis methodology.

In the context of this study, each EPOS industry presented a list of key performance indicators (KPIs) which are used in the industry or specifically in the EPOS sites followed by a comprehensive list of indicators from literature and practice.

### WHY INDUSTRIAL-BASED KPIs

The aim of this work was to provide the current state of industry, and to obtain an industrial baseline. **It is important that such a baseline will be constructed upon indicators which are specific to each industrial sector but also those which are cross-sectorial.**

The goal of these KPIs will be to evaluate and compare different industrial symbiosis solutions along an identical set of meaningful metrics, and with respect to a common baseline.

### EPOS KPIs

Indicators currently used in industry have been listed, along with a potential list of indicators found in the literature. Indicators from the fields of accounting, life-cycle assessment, sustainability reporting, material flow analysis,

economics and LESTS methodologies are sourced to create an extensive long-list of possible indicators to be considered throughout the course of the project.

#### LESTS Categories:

-  Legal
-  Economic
-  Spatial
-  Technical
-  Social



## Perspective:



## FOLLOW-UP

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The long-list of metrics and system settings developed in this work represents the first step of a three-step iterative process.

Following the assessment in this first step, the defined list of metrics and KPIs will be discussed, reviewed and revised to contribute to the assessment methods for industrial symbiosis considered for the remainder of the project. Further refinement of the list will be carried out in a number of iterative steps with collaboration between the industries, universities and SMEs to arrive at a final list of KPIs.

The selection will proceed from the information provided in this work and will result in a reduced list of sectorial and cross-sectorial KPIs to be considered in the scenario calculations of the EPOS toolbox. In addition, there is direct impact for the inclusion of non-technical checks, and the development of an EPOS footprinter to be included within the final EPOS toolbox.



## COLOPHON

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### Interested in this work ?

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