

## EPOS WP 1 - Scope and (de)limitations

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Preliminary SWOT analysis of the EPOS sites and their cluster potential (II)

D 1.2

Ghent University (UGENT)

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## Summary

The aim of WP1 of the EPOS project is to create an understanding of-and-between the different industry partners in the project with close collaboration between academia and the SMEs. This report is the second instalment in the list of deliverables set to achieve this goal. For this deliverable, UGent collected information from the EPOS industries regarding their processes and by-product streams, along with their level of interest in the further development of business cases regarding different industrial symbiosis (IS) opportunities. Korona provided novel technical solutions for increasing energy and resource efficiency of the EPOS industries by cross-sectoral collaboration; Strane provided the support for creating business cases for the most promising IS cases. Hence, this report has been formulated after a rigorous effort of all concerned partners.

The result of D1.2 is the shortlisted IS opportunities for each industrial partner in the EPOS clusters. The deliverable also includes SWOT (Strengths, Weaknesses, Opportunities and Threats) analyses of the most promising IS opportunities. The LESTS (Legal, Economic, Spatial, Technical and Social) analyses provided in D1.1 resulted in introductory LESTS pentagons for each of the EPOS clusters and it is revised in D1.2 to provide an overview of the progress made in each of the EPOS clusters by redrawing the LESTS pentagons.

The industry clusters in Rudniki, Lavera and Hull are the main subjects of this report. The EPOS cluster in Rudniki has made significant progress in cross-sectoral cooperation since month 12 of the EPOS project. There is now a direct exchange of by-product between Cemex (CX) and ArcelorMittal (AM) in Rudniki. Slag from AM Krakow is sent to CX Rudniki to be used as raw material. The EPOS partners in Lavera cluster held a meeting in Fos-sur-Mer, France, to discuss the different IS possibilities that have emerged as a result of EPOS. The two industries will soon start sharing information between each other as the non-disclosure (NDAs) are signed. The most promising opportunity that is spotted by INEOS, in Lavera, is the use of naphtha-lined gasoil from AM in the refining process of INEOS. At a first glance, the opportunity is estimated to be financially beneficial but further techno-economic analysis will follow the finalisation of the NDAs. The Hull cluster has made further progress in assessing different business scenarios of the IS opportunities that were identified in D1.1. For the Dunkirk cluster, since AM is the only EPOS member, the opportunities relate to energy optimisation on site.