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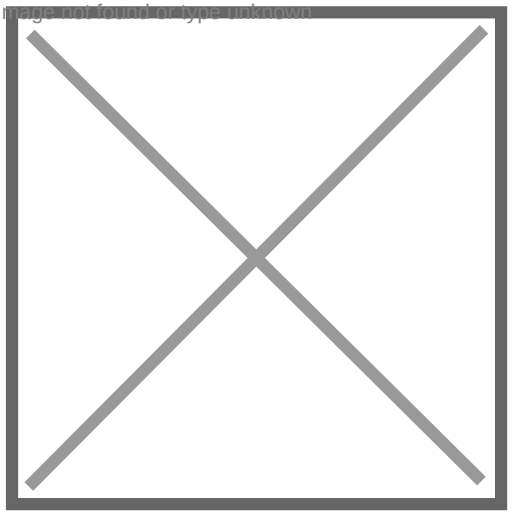

CE-SPIRE-01-2020

CORALIS

Full Title: Creation Of new value chain Relations through novel Approaches facilitating Long-term Industrial Symbiosis

Aim:

The main objective of CORALIS is to create pathways for the decarbonisation of resource and energy intensive sector value chains through the implementation of viable industrial symbiosis approaches combining new business and management strategies with innovative technology-based enablers. This whole approach will be demonstrated in three real industrial areas covering different sectors, geographical dimensions and resources, improving the knowledge basis and laying the foundations for exploiting the potential of Industrial Symbiosis in EU process industry.

Concept:
Industrial symbiosis (IS) has gain great attention in the last years due to its high potential for energy and resources savings. However, there is still a need for enhancing the knowledge base for IS in Europe, especially in what regards to the implementation and operation phases, which must be supported by harmonised frameworks and data reporting structures that ensure data accuracy and comparability in existing and new IS initiatives. Under this framework, CORALIS has been designed as a demonstration project for the generation of real experiences on the deployment of IS solutions and the overcoming of the barriers faced by these initiatives. In order to properly address this complex issue, CORALIS will address three factors (technical, managerial and economical) that will set the basis for the definition of the IS readiness level, a useful indicator establishing the feasibility of the overall IS initiative. In addition to specific developments on each of these factors, CORALIS will provide a harmonised framework for the monitoring of

results and evaluation of their impact from a life cycle perspective. This impact assessment methodology will be implemented into a virtual assessment platform that will support the operation of the involved industrial parks. The overall approach of CORALIS will be demonstrated in a total of 3 industrial parks, each of them supported by an IS facilitator, a neutral actor in charge of guiding the IS initiative and exploiting its full potential. Moreover, 3 additional industrial parks will follow the project results in order to replicate them by implementing additional IS initiatives after the project's end. Further replication is expected by gathering the project results in CORALIS Handbook for supporting the implementation of IS, by providing recommendations on regulation and standardization and by establishing a continuous dialogue with main European stakeholders following an ambitious dissemination and exploitation strategy.

Start date:
01/10/2020

End date:
30/09/2024