



# CORALIS

Industrial Symbiosis  
in Energy Intensive Industries

// PRESS RELEASE //

## H2020 funded project CORALIS kicks off:

*Creation Of new value chain Relations through novel Approaches facilitating Long-term Industrial Symbiosis*

**Brussels (November 30, 2020) – ‘CORALIS’, the new EU-funded project under the H2020 framework programme had its kick-off meeting** online, on 8 October 2020. A consortium of 29 partners, as well as the European Commission (EASME) were represented and presented the strategy for the implementation of the project. Everyone agreed to work closely and intensively in order to deliver the highly ambitious goals of the project.

The official starting date of the project is the 1st of October 2020 with a duration of 4 years and a total EU-funded budget of approximately 17.99 Million EUR. CORALIS was granted under the umbrella of the programme H2020- EU.2.1.5.3. - Sustainable, resource-efficient and low-carbon technologies in energy-intensive process industries. The project is coordinated by CIRCE Foundation, Research Centre for Energy Resources and Consumption based in Zaragoza (Spain).

### // Brief project description //

**Industrial Symbiosis (IS)** is becoming increasingly a necessity due to its high potential for energy and resources savings. The majority of investments in methodologies and tools facilitating the update of IS has been focused on the assessment of potential solutions and synergies among individual companies; there are initiatives concerning the concept of IS at European level, but there is still great potential to exploit in order to facilitate a larger market uptake among EU industrial areas. CORALIS will concentrate the available knowledge to demonstrate the real IS actions and set the right conditions for sustainable operation of the implemented actions. An **integrated approach** towards the knowledge base for IS in Europe is needed, especially concerning the implementation and operation phases, via harmonised frameworks and data reporting structures that ensure data accuracy and compatibility in existing and new IS initiatives. CORALIS has been designed as a **demonstration project** for the generation of real



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experiences on the deployment of IS solutions and the overcoming of the barriers faced by these initiatives, addressing three factors:

1. **Technological factors** (TRL)-decarbonization of industrial areas, transition to circular economy
2. **Managerial factors** (MRL)-tools and procedures
3. **Economic factors** (ERL)-business models

Based on the aforementioned factors, CORALIS will develop the **IS readiness level concept**. To monitor the progress of industrial areas in all three categories, CORALIS will rely on the figure of the **IS facilitator**, a neutral actor capable of identifying the full potential of the IS initiative.

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. An **innovative** output that is expected from the project is the development of a **Virtual Assessment Platform** for Industrial Symbiosis operation for the application to a real industrial environment, enabling IS Data management.

## // PROJECT PHASES //

CORALIS' overall approach will be demonstrated in 3 industrial parks; the **CORALIS Lighthouse demonstrators** [Escombreras (Spain): Chemical, Minerals, Water / Höganäs (Sweden): Metals, farming, energy / Brescia (Italy): Steel and Cast Iron, Aluminium]. Moreover, **3 additional industrial parks** [Basauri (Spain): Steel / Linz (Austria): Renewable hydrogen / and Izmit (Turkey): Dirty caustic] will follow the project results in order to replicate them by implementing additional IS initiatives after the project's end. The project will **start** with a deeper understanding on the preconditions that facilitate or hinder the implementation of IS.

- ✓ **Enablers** that will facilitate the implementation of IS approaches will be defined in both the Lighthouse and the Follower demonstrators.
- ✓ **Tools and methods** will be developed to support technical management of processes for IS interactions.
- ✓ **Management and communication mechanisms** will be improved, and new business models and contractual agreements will be promoted looking to guarantee a fair share of the benefits, minimise the risk of shared management and ownership of services and infrastructure.

The design and development of the technology enabling the IS, and the engineering works will be followed by their commissioning and demonstration under real conditions. CORALIS will support the **mobilisation of local and regional stakeholders** with the final aim of elaborating an action plan for each of the followers to guide the technical implementation of the case studied, after the project execution. Finally, a **monitoring strategy** will be put in place to ensure the correct flow of information and the implementation of the enablers. Lessons learnt and an inventory of successful cases will be provided, complemented by an impact calculation with a life cycle approach.



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## // Partners //

The consortium is formed by a collaboration of 29 partners, with CIRCE on the driver's seat. It is a multidisciplinary and well-balanced consortium integrated by 5 RTD , 2 universities, 4 SMEs, 15 large companies and 3 associations with complementary expertise from 7 different European countries, hence guaranteeing a wide dissemination of the project outcomes, the replication of the solutions and their adaption to the different regulatory and social particularities.

*“ The CORALIS project encapsulates Europe's commitment to a more sustainable world. This project offers a unique opportunity to foster industrial symbiosis, providing a reference for future actions. I am certain the collaboration among project partners - offering such a diverse range of skills - will overcome the challenges ahead. ”* Manuel Gomez – Project Coordinator, CIRCE



## // For more information //

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