

iSHARE-MAT

Enhancing Industrial Symbiosis across industrial harbor regions

The EU Process Industry depends to a large extent on primary raw materials. Their production may have a significant environmental footprint and their imports may become challenging in the future. The EU strives to become a circular economy and Industrial Symbiosis (IS) can be an important tool to fulfil this objective. IS encompasses exchange of materials and energy between companies that have them as process residuals and companies that may use them in their processes as inputs.

Project

Enhance exchange of secondary raw materials between harbor regions in NWE. Secure supply of material inputs, reduce costs for purchasing and disposal of residues, stir innovation in material processing and establish networks among industrial actors. Regional initiatives have embraced Industrial Symbiosis to enhance exchanges of secondary raw materials between industrial players. This strategy can only unlock its potential if it is extended across national borders. Within one region a demand may not be met because of limited offer, but it may be fulfilled by actors from neighboring regions. This faces challenges of technical, legal, logistic and organizational nature which we seek to alleviate. The project will help to secure supply of material inputs, reduce costs for their purchase and limit disposal of residual products.

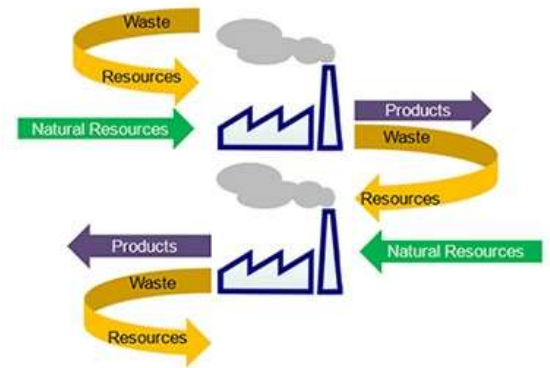
Summary

- Region: Germany, Netherlands, Belgium, France, UK
- 3 years running time
- Re-use of secondary raw materials by 100 kt/y
- 2000 resources to be identified
- 500 matches to be realized
- 40 feasibility studies
- 8 pilot scale demonstrations



Goals

- Identify opportunities for industrial Symbiosis across NWE harbor area's
- Evaluate existing local inventories of resource needs and offer contacts with existing local initiatives & authorities
- Expand them with matchmaking workshops (2 in each region)
- Register resources in transnational database
- Identify promising matches between companies across national borders
- Identify and alleviate barriers to implementation of industrial Symbiosis
- Demonstration of promising cases of industrial symbiosis
- Practical support for implementation & overcoming barriers
- Small scale feasibility studies (10 in each region)
- Pilot/full scale demonstrations (2 in each region)



Communication

- Educate stakeholders about the potential of industrial symbiosis
- How to solve barriers

Actual partners

Coördinator: VITO nv (Belgium, R&D)

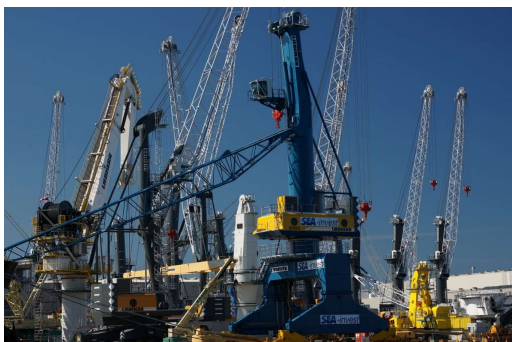
Partners:

- TU-Delft (NL, R&D)
- Wuppertal Institute für Klima, Umwelt, Energie (D, R&D)
- OVAM (B, regional public authority)
- International Synergies (UK)
- Cluster Industrielle Biotechnologie 2021 eV (D)
- (ECOPAL FR, business cooperation agency)

Associated partners:

- Port of Amsterdam (NL)
- Port of Rotterdam (NL)
- Port of Ghent (B)
- (Port of Dunkerque)

Companies that participate in demonstration projects



Interested in joining our project proposal?

Contact joan.symbiose@outlook.com or andy.symbiose@outlook.com