

Di-Plast

Digitalized circular economy in the plastics value chain

What challenge or problem are you addressing? What is the need for the project?

- Plastics are key in realizing a European Circular Economy. Only 20% of plastic waste is actually recycled (exception PET). The lack of information prevents a full integration of recycled plastics in the value chain.
- At the same time use of recycled plastics in industrial processes could lead to cost savings of 20%.
- Technical and procedural approaches based on digitalization may offer solutions. Implying also new ways of value chain design and industrial symbiosis through quality oriented demand pull models.

Objective of the project:

Exploring value chain-oriented solutions for plastics recovery based on digital business models. Models may be generated as new forms of trade (e-commerce), process design (Industry 4.0, IoT) and data management.

Why do you need transnational cooperation?

The NWE-Interreg region specifically of Benelux and Western Germany represents a condensed cluster of chemical industries. These range from petro-chemicals as the basis of many plastics, over advanced material science that explores plastics and their use and reuse at the cutting edge, to dedicated research institutions for the circular economy. This concentration is a natural source for advanced solutions when utilised beyond national borders.



Types of partners:

Industry partners with interest in Industry 4.0 and Digitalisation based business models in the plastics value chain.

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