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Welcome to PLASTICE Newsletter #1

Dear reader,

Welcome to [PLASTICE Project!](#) We are happy to count on your interest to learn more about our vision to implement a circular economy approach for the **whole lifecycle of plastics**, that will be developed along the 4 following years with the aim of driving our results into real operating conditions.

Thanks to the four [innovative technologies](#) designed and developed, the project will assess the valorisation processes that will help to bring about a sustainable closed-loop value chain for plastics and contribute to the reduction of landfilling and incineration of unsortable streams of mixed plastic and textile waste.

Technologies to be tested are: **Cascade enzymatic hydrolysis**, **Combined gasification and chemical post-treatment**, **Hydrothermal liquefaction** and **Microwave assisted pyrolysis**. Each of the technologies will be validated in [4 separated demosite](#) where, furthermore, some complementary AI and

advanced data analysis will be implemented for the optimisation of plastic recycling and sorting processes.

We are a great [European Consortium composed by 23 partners](#), including relevant actors such as waste managers, RTO, technology providers and also partners to validate the results.

This robust expertise and multidisciplinary consortium enables more **transversal objectives** such as the improvement of upstream and downstream processes to maximise the performance of the valorisation routes, and also think on the circularity of the whole plastic life cycle.

Join our social media channels and feel free to comment, and ask any question to learn more about our goal to boost the implementation of PLASTICE solutions in other industrial realities.

Clara Jarauta and Emiliano Mesa

CIRCE Project Coordinators

Meet the PLASTICE consortium



PLASTICE will be executed by a complete and complementary consortium composed by 23 partners from 7 different European countries, particularly 8 large companies, 5 SMEs, 7 research organisations, and 2 non-profit organisations. Specifically:

- **Waste managers:** URBASER, COGERSA, PRT, DKW
- **RTD:** CIRCE, UvA, CTIC, CNR, CENTEXBEL, TCKT
- **Technology providers:** AZCATEC, CSM, CE, AUSTROCEL
- **Validation:** TOTAL, ALBEA, SUN TEKSTIL, KORTEKS
- **Horizontal partners:** ICCS, CTIC, CENTEXBEL, CIRCE, RINA-C, JUST B2B, POLYMERIS, ICONS

PLASTICE demo-sites



[Click to discover the PLASTICE demo-sites](#)

PLASTICE technologies

Explore *PLASTICE technologies* in more detail:



Cascade enzymatic hydrolysis



Combined gasification and chemical post-treatment



Hydrothermal liquefaction



Microwave assisted pyrolysis

[Click to discover the PLASTICE technologies](#)

The selection of PLASTICE technologies for plastic valorisation has been made on the basis of their capabilities to process the most

relevant waste streams for plastic (PE, PP and PS) and textile (PET), their increased energy efficiency and the possibility to integrate renewable energy as energy input.

Latest news and events





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