

PROJECT PARTNERS



FOLLOW US ON SOCIAL MEDIA



UPLIFT
sustainable PLastics
for Food & drinks packaging industry



UPLIFT has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 953073.

DESCRIPTION

The overall idea of UPLIFT is to biologically depolymerize bio- and fossil-based plastic packaging waste and convert it into more renewable and easily upcyclable polymers, following a biorefinery and a circular economic approach. UPLIFT will address the full plastic packaging value chain, from monomer production to packaging material manufacturing and back to EoL reusing and recycling options

IMPACTS

Contribution to upcycle F&D packaging materials which account for, at least, 60% of the market by 2030

- Novel standards and certification schemes to be applied
- Delivery of novel plastic packaging solutions with less environmental impact
- Contribution to bring the European plastic packaging industry in the forefront of innovations and sustainability worldwide

OBJECTIVES

The main objective of UPLIFT is the development of a circular plastic packaging value chain in the F&D sector by applying novel eco-design strategies and biochemical upcycling technology routes.

To this end, the vision of the project revolves around two main axes:

- 1) to combine bio-depolymerization of plastics and bio-based building blocks to obtain smarter and renewable plastic materials, which will enable the effective upcycling of plastic packaging waste streams;
- 2) to fully integrate the bio-chemical upcycling technologies within already existing and more mature recycling processes and fermentation processes. All these prototype materials and processes will be tested in a relevant operational scale close to expected performance (TRL 6).

METHODOLOGY

