



SUstainable PlastiC biorefinery for reCYclable & biodegradabLE packaging

Turning non-recyclable mixed plastic waste into next-generation biodegradable and recyclable packaging.

UPCYCLE is a Horizon Europe project that turns non-recyclable mixed plastic waste into next-generation highly recyclable and/or biodegradable packaging materials. Building on the H2020 UPLIFT results, which reached TRL5-6 (small pilot scale), UPCYCLE advances these technologies to TRL7, addressing key challenges in scalability, process intensification, and industrialisation. With 19 partners across 10 countries and 7.9€ million in funding, the project focuses on four real-world packaging use-cases (salad and cheese films, beverage bottles, and personal-care rigid packaging). By combining chemo-enzymatic depolymerisation, microbial upcycling, and eco-design principles, UPCYCLE aims to cut greenhouse-gas emissions by 30% and reduce production costs by up to 40% compared to current bioplastics.



19

PARTNERS



10

COUNTRIES



48

MONTHS



4

USE CASES



7.9

MILLIONS



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Funded by the European Union under grant agreement number 101178389. Views and opinions expressed are those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.