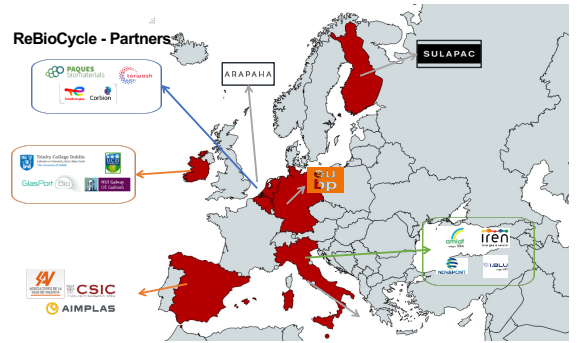




# ReBioCycle



## A new European Blueprint for Circular Bioplastics Upcycling Solutions

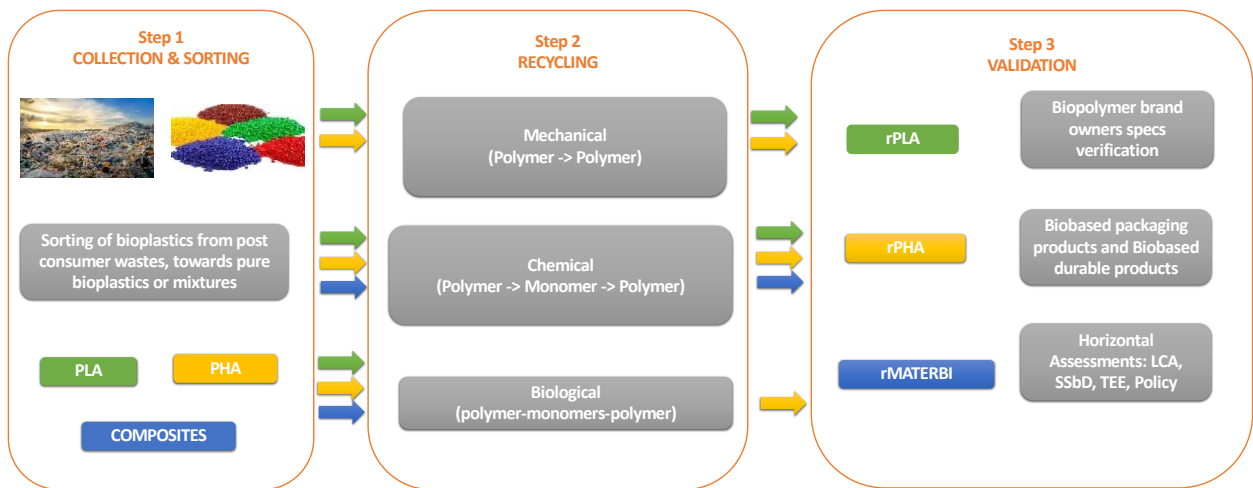
### The Objectives

- Improve circularity of biobased biodegradable plastics value chain.
- Scale up effective sorting and recycling schemes.
- Increase the biobased recycled content in new products.
- Improve environmental performance against fossil/biobased benchmarks.
- Achieve better social acceptance of circular biobased solutions/products.

### The Approach

A portfolio of Bioplastics, bioplastic sorting and recycling technologies

- Recycling technologies:** Mechanical, chemical and biological
- Three types of **bioplastics** (PLA, PHA, composites)
- Three complementary waste-processor-centric **hubs** at demonstration scale
- Obtain the **same or superior grade** recycled polymers and higher-value applications.



## Three complementary waste-processor-centric hubs



- Mechanical Recycling
- Biological recycling
- PLA and PHA



- Chemical Recycling
- Biological recycling (side streams)
- PLA and PHA



- Chemical recycling
- Composites

### Contribution to the European Policy Framework

- ReBioCycle contributes to the objectives of the Circular Economy Action Plan, Plastics Strategy and Waste Framework Directive.
- ReBioCycle will make effective recycling technologies available for biobased plastics and contribute to the Zero Pollution Action Plan and the EU Bioeconomy Strategy.

### Key figures

- Project coordinator: University College Dublin, BiOrbic Bioeconomy Research Ireland Centre
- Project duration: 1 October 2024- 30 September 2028
- Budget - € 10 416 832 CBE-JU funding: € 7 497 0001
- Funding type: Innovation Action - Demonstration

[www.rebiocycle.eu](http://www.rebiocycle.eu)

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