WE IMPROVE PACKAGING RECYCLING...

Of the 50 million tonnes of plastics consumed each year in Europe, only 32% of the resulting waste is currently recycled. Given that packaging consumes more than 40% of all plastic produced each year, improving its circularity from origin to subsequent life cycles is more than urgent. PRESERVE is developing solutions to improve the recyclability of food packaging.

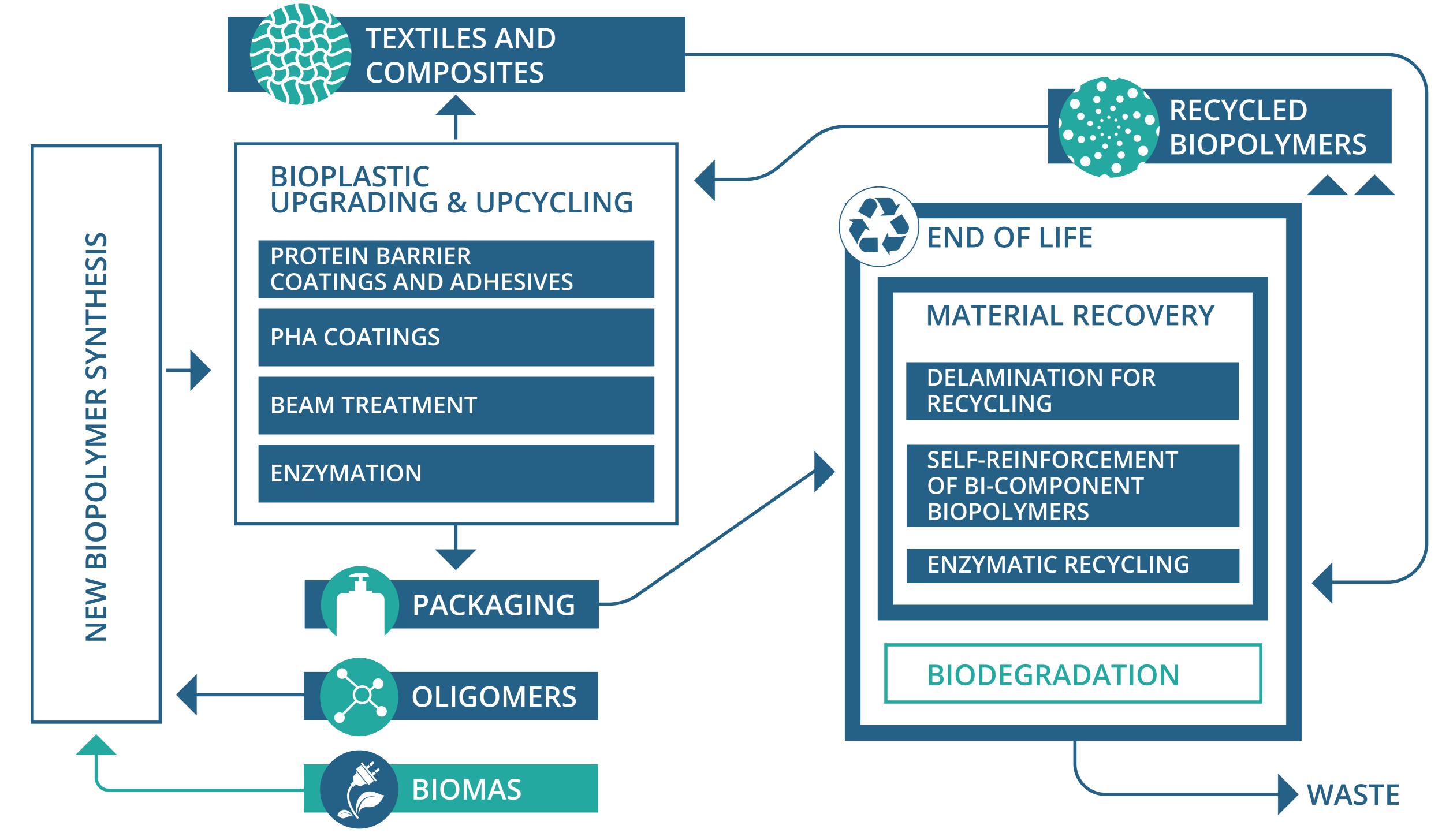
Introducing a life cycle approach with innovative materials can help us reaching unexplored new potential for plastic and cardboard packaging and its end of life.

...BECAUSE EVERYTHING DESERVES A BETTER CHANCE

In **PRESERVE**, we have the potential to change up to the 60% of packaging currently used by the market.

How can we do this?

- 1 By enhancing bio-based packaging in terms of properties that currently limit the application of bioplastics as well as their recycling.
- 2 By recovering biopolymers and reintroducing them as secondary raw materials.
- By upcycling those secondary raw materials into non-food containers.



OUR OBJECTIVES

Our upcycling strategies to boost packaging performance in the fist and subsequent life cycles of the materials comprise several steps:

- Better packaging design allowing delamination with bio-based barrier coatings and adhesives, eBeam treatment to improve mechanical and barrier properties and novel methodologies to reduce the release of microplastics based on the application of functional finishing treatments.
- © Establishment of a delamination pilot plant, with subsequent adjusting and upscaling of the new recycling process, with an initial sorting via advanced photonic and artificial intelligence approaches.
- Development of upcycled demonstrators deriving from recycled food packaging, with at least 85% of recovered materials for non-food-contact applications.

PARTNERS INFORMATION



