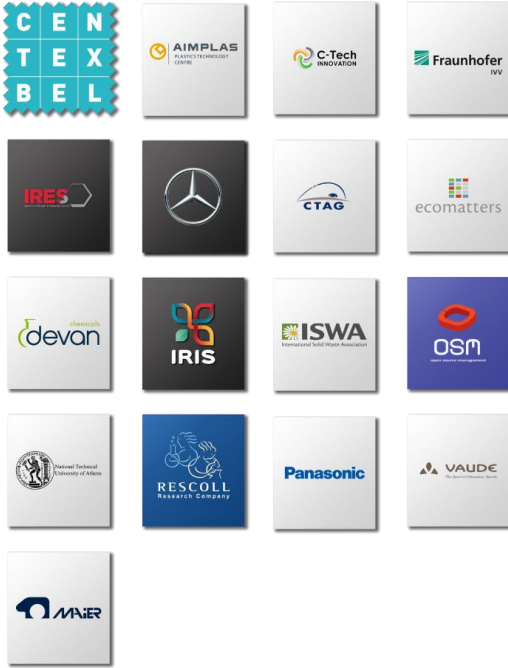


DECOAT PARTNERS



Increasing recycling is crucial, especially for plastics and textiles, if we want to reach the goal to recycle 50% by 2040. Many of these materials are made of more than one chemical component, hindering their recyclability. This is the case for coated or laminated products.

Ideally, all components of an object at end-of-life should be separated and appropriately recycled.

CONTACT US

Coordination:

Centexbel –
www.centexbel.be



More info:

www.decoat.eu

Contact:

info@decoat.eu

Social media:



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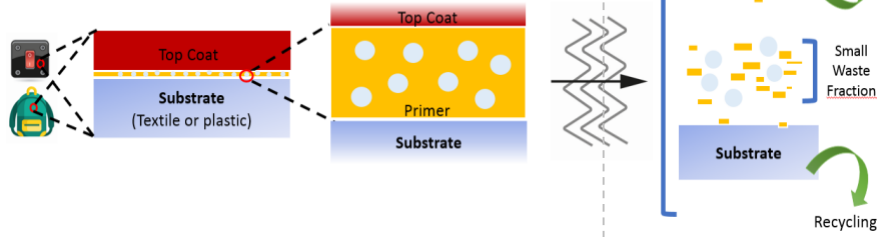


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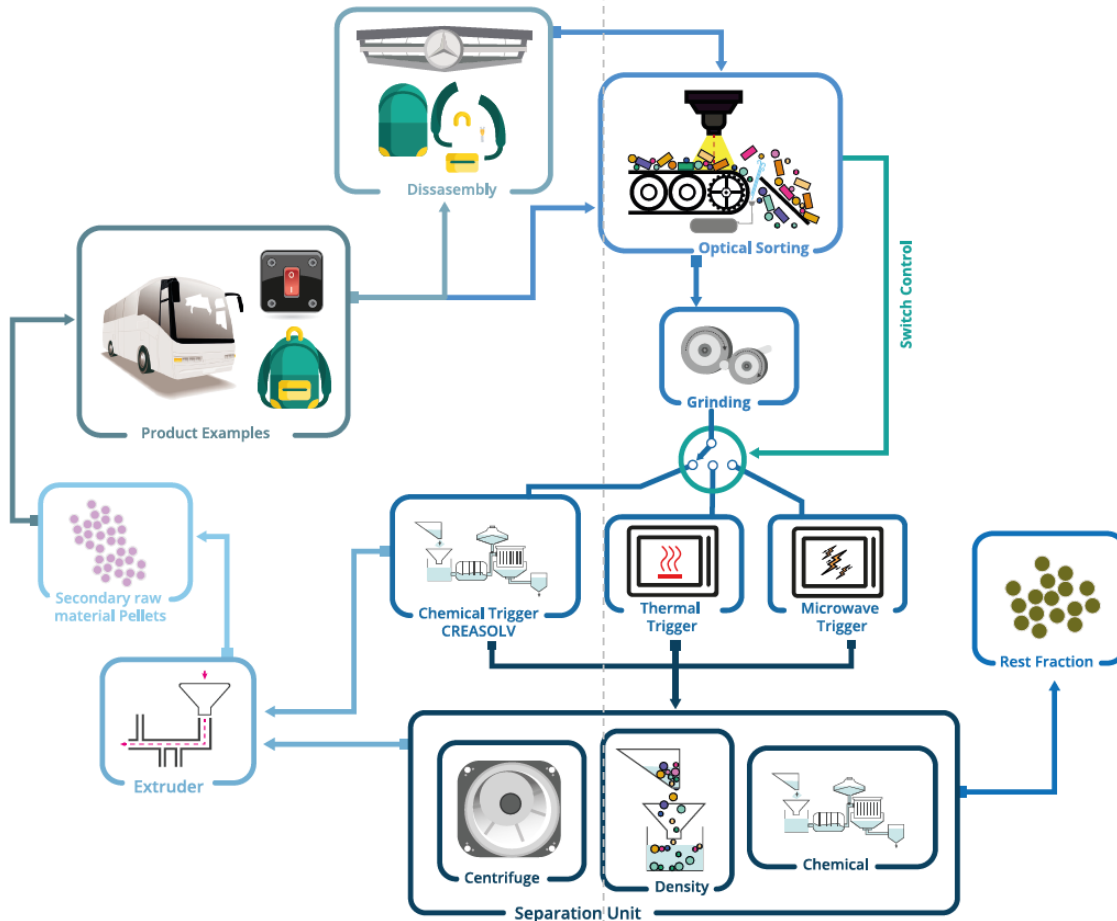
RECYCLING OF COATED AND PAINTED TEXTILE AND PLASTIC MATERIALS

AN EU H2020 PROJECT

THE DECOAT CONCEPT



THE DECOAT VISION



THE PROJECT

Within the DECOAT consortium, the aim is to develop methods to separate coatings from the bulk material, ending up with easy-to-recycle parts and contribute to a circular economy.

DECOAT focusses on eco-design. By incorporating special additives in the adhesive layer, the adhesive layer can debond by triggering these additives.

DECOAT aims to achieve this through:

- 🌱 Development of a toolbox of triggerable materials for debonding on demand. The debonding can be based on various triggers like thermal, moist, microwave, steam;
- 🌱 Development and design of triggerable debonding coating solutions;
- 🌱 Automation of sorting, according to the trigger;
- 🌱 Valorization of the debonding systems in a continuous pilot plant recycling line for coated/laminated parts;
- 🌱 Demonstration via 3 applications: outdoor gear (textiles), household parts (electronics) and bus parts (automotive)