

ENZYNNOV'2 – Enzymatic Biocatalysis For Industry

26-27 Oct, 2023 Romainville-Paris



Applying ligninases to resolve end-of-life issues of thermoset composite plastics

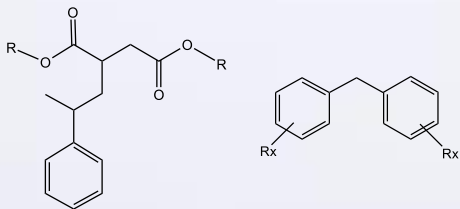
Beatrice Mongili, Mariella Sacco, Claudia Sabia, Erwin F.M. Swennen and Marco Pistocchi

20-40% of composite materials in aircrafts

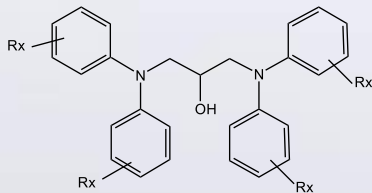
Crosslinked polymer chains

Currently not recycled

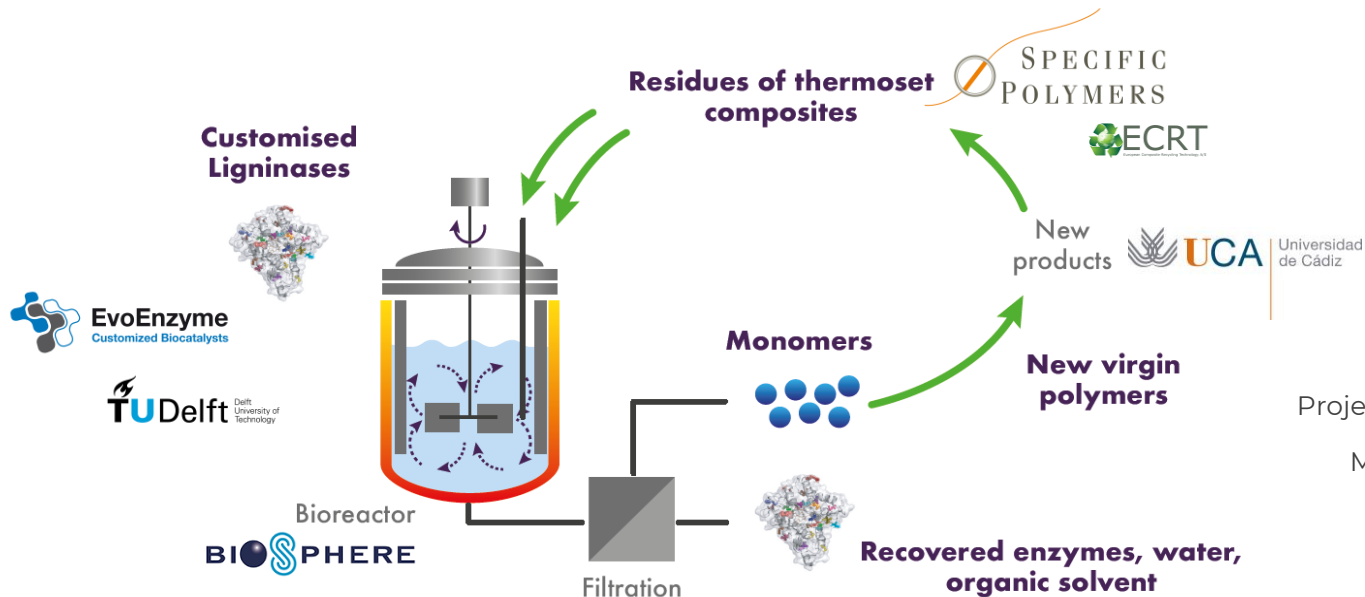
Thermoset composites resin



Epoxy, vinyl and polyester resins model compounds



THE CONCEPT

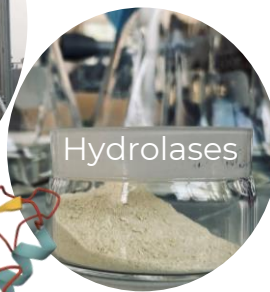
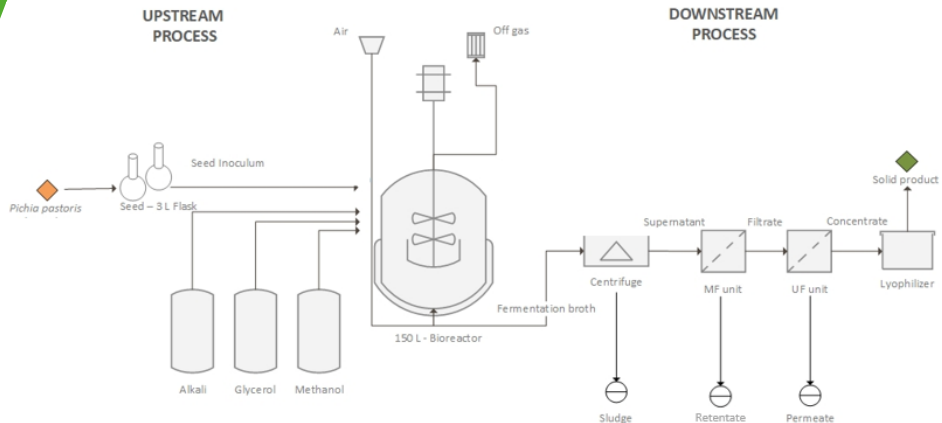


Project Duration: 48 months

May 2020 – Apr 2024

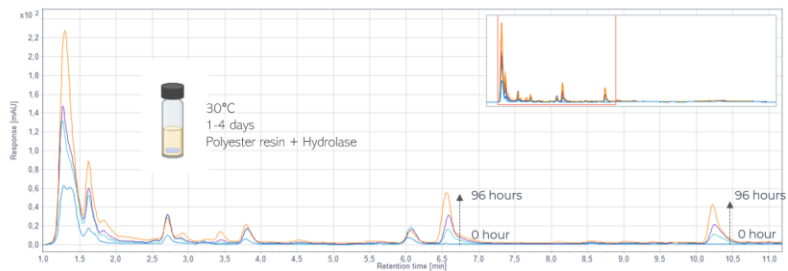


UPSCALING THE FERMENTATION OF CUSTOMIZED ENZYMES

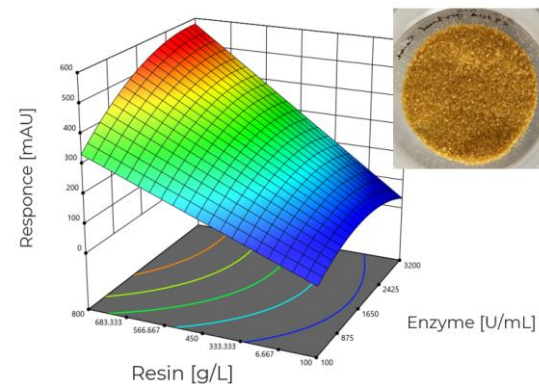


ENZYMATIC DEGRADATION PROCESS DEVELOPMENT

Enzymatic Degradation Trial



Design of Experiment



Thank you!

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