



# Epoxy bio composites

## Description

Bio-based, recyclable, reshapable and repairable (3R) epoxy resins and fibre-reinforced sustainable thermoset composites for automotive and construction sectors.

## Objectives

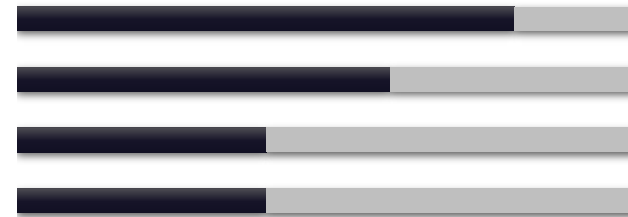
- To undertake environmental evaluation of humins supply, of the modification process of MMF/HMF into epoxides and of new PLA formulations to identify their impact,
- To measure operational costs of elements developed, to optimize processes and to decide if operations are economically feasible.

## Activities

- Sustainability assessment:
  - Life-Cycle Assessment LCA,
  - Life-Cycle Costing LCC.

## Challenges

- Input data complex to collect
- Technical knowledge required
- Legal & legislation barriers
- Technology readiness level



## Expected outcomes

- Usage of raw materials coming from renewable sources,
- Implementation of recycling and reuse of materials,
- Implementation of green chemistry principles.

