





Epoxy bio composites

<p>Description</p> <p>Bio-based recyclable, reshapable and repairable (3R) epoxy resins and fibre-reinforced sustainable thermoset composites for automotive and construction sectors.</p>	<p>Objectives</p> <ul style="list-style-type: none"> To identify positive environmental impacts of flax for composite reinforcements with specific structure and functionality, for a new type of recyclable composite, To measure operational costs of elements developed, to optimize processes and to decide if the proposal is economically feasible, To identify social and economic benefits of applying composite-based elements and to design a strategy to increase consumers & end-users acceptance.
<p>Activities</p> <ul style="list-style-type: none"> Sustainability assessment: <ul style="list-style-type: none"> – Life-Cycle Assessment LCA, – Life-Cycle Costing LCC, – Social Life-Cycle Assessment SLCA. 	<p>Challenges</p> <ul style="list-style-type: none"> 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.

