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Lightweight and sustainable composite parts for the transportation sector



Aerospace



Automotive



Leisure boat



ABOUT SUSPENS

SUSPENS addresses the challenge of reducing the environmental footprint of sandwich and hollow composite structures for the automotive, leisure boat and aerospace industries. The project consortium will take the mechanical performance of bio-based ingredients such as epoxy and polyester resins combined with natural and recycled fibres to an industry standard. SUSPENS will also focus on reducing the energy needed for the recycling of complex sandwich and hollow structures.

AMBITIONS

- ▶ High performance thermoset resins
- ▶ Sustainable reinforcing fibres
- ▶ Energy-efficient manufacturing and recycling processes

RESEARCH CHALLENGES

- ▶ Increase the bio content of high-performance thermoset resins
- ▶ Improve mechanical properties of bio-sourced and recycle reinforcement fibres
- ▶ Demonstrate lightweight, high performance and fully renewable composites and structures through 3 demo-cases
- ▶ Optimise the manufacturing and recycling processes to reduce CO₂ emissions

CONCEPT

