

Project idea: BiofibersgoAutomotive

Call area: Mobility

Contact

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Project Description

Natural fibres composites offer superior properties, like lightweight, sustainability which make it perfect for use in mobility applications. Nevertheless, unsolved needs still exists, e.g., humidity influences their mechanical properties, low ability to withstand high temperatures and limited industrial processes limit their use. Also, many composites are hard to recycle since thermosetting resins and many materials are combined. BiofibreGoAutomotive will try to overcome these issues and develop natural fibre composites with thermoplastic matrices for composite sandwich panels.

Project Objectives

- Thermoformable, oriented natural fiber composite panels for automotive requirements

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Problem, State of the Art, and Envisioned Solution

The following problems need to be addressed:

- (1) reduce the water absorption of natural fibres;
- (2) produce thermoplastic prepregs with biobased matrix and natural fibres;
- (3) develop recyclable sandwich panels with excellent damping properties;
- (4) Use hybrid technologies for 3D parts

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Our Partners, Our Know-How...

- Kompetenzzentrum Holz, A, has a long track record in renewable composites in various mobility applications including aircraft requirements or other structural applications
- LIST, L, has significant competence in surface treatment and 3D printing

We are looking for...

- Partner along the value chain towards automotive industry, not limited to personal vehicles
- Objectives can be adjusted to specific needs,