

Project idea: Automotive-proven materials enter Air Mobility

Call area: Project cooperation

Contact

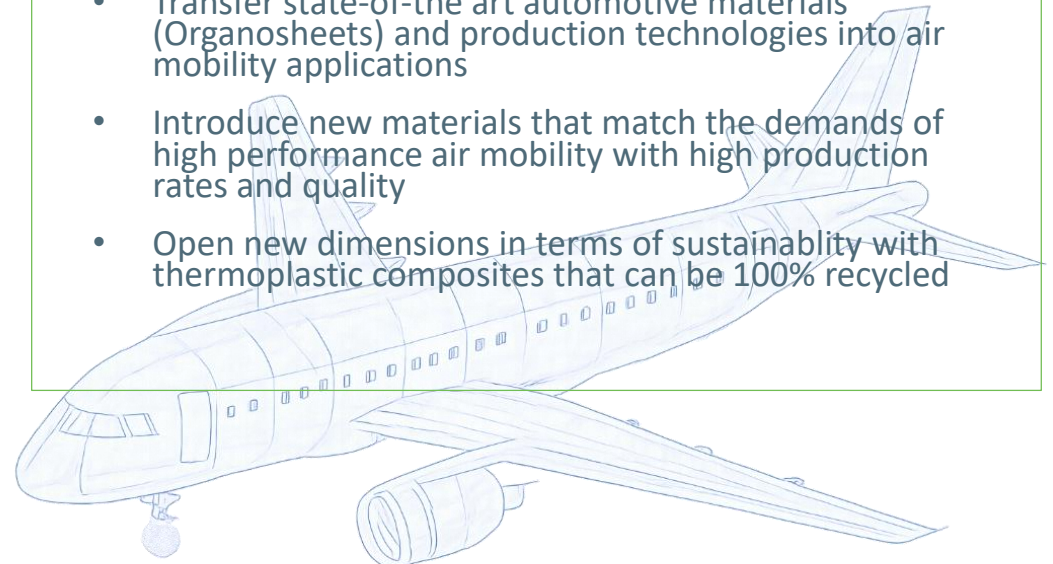
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Project Description

Paving the way of automotive-established thermoplastic composites (Organosheets) into air transportation (aircrafts, eVTOLs, drones)

Project Objectives

- Transfer state-of-the art automotive materials (Organosheets) and production technologies into air mobility applications
- Introduce new materials that match the demands of high performance air mobility with high production rates and quality
- Open new dimensions in terms of sustainability with thermoplastic composites that can be 100% recycled



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Problem, State of the Art, and Envisioned Solution

There are several reasons why thermoplastic composite materials, so called Organosheet (Tepex®) and Tapes (UDEa®) are well established in automotive and ground transportation applications:

- High stiffness and strength; low density
- Outstanding potential for process and functional integration
- Efficient mass production processes with short cycle times and a consistently high level of quality
- They are sustainable materials with closed recycling chains that are already available and effective today.

As the aerospace markets, including conventional aircraft, advanced air mobility (AAM, eVTOLs) and drones, are currently booming, they are facing increasing demands for higher sustainability and production rates while maintaining the highest quality standards for aircraft.

Bond-Laminates has been a key player in automotive composite applications for years with our material, Tepex. We are convinced of our materials' and production processes' potential to contribute to the future of the aerospace industry. Therefore, we are looking for cutting-edge networking partners and projects.



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Our Partners, Our Know-How...



Customers mainly in Automotive

~ 50 % sales in EU

~ 25 % APAC & ~25 % US



Ø 127 employees & 8 trainees



Up to 4.5 Mio m² per year
> 15.000 production batches
> 2.000.000 single measured values
100.000 data sets



600 material variants
8 isobaric press lines
1 tape line
3 large scale water jet cutting machines

We are looking for...

- **Partnerships and applications** in the field of air mobility
- **Experts** for design and manufacturing of aircraft structures that are open to new ideas such as automotive manufacturing technology and Organosheets
- **Entrepreneurs that are willing to pave the way for more efficient and more sustainable aircrafts and drones**

