D-standart

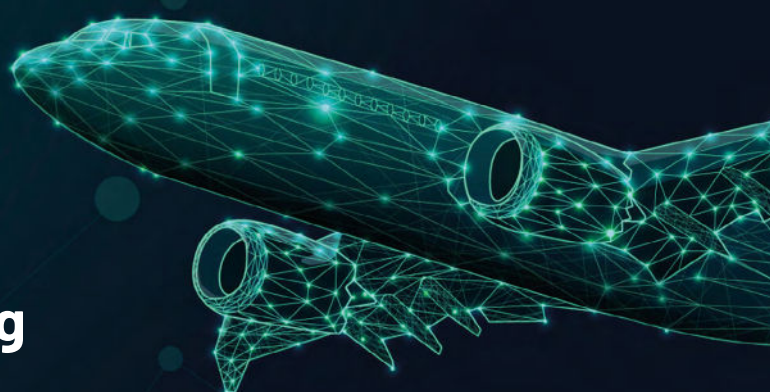**for Durability Modelling of Composites**

Durability Modelling of Composite Structures with arbitrary lay-up using standardised testing and artificial intelligence

OUR PROJECT

Develop **rapid methods to characterise fatigue damage in composites** and **sustainability of composite supply chains ;** and thereby model the durability and sustainability of large-scale composite structures with arbitrary layups **under realistic conditions** (loads, environment, manufacturing imperfections).

› **Through minimal and accelerated testing** of generic specimens.

› Transferring the results of small-scale experiments to large-scale structures using **artificial intelligence and machine learning.**
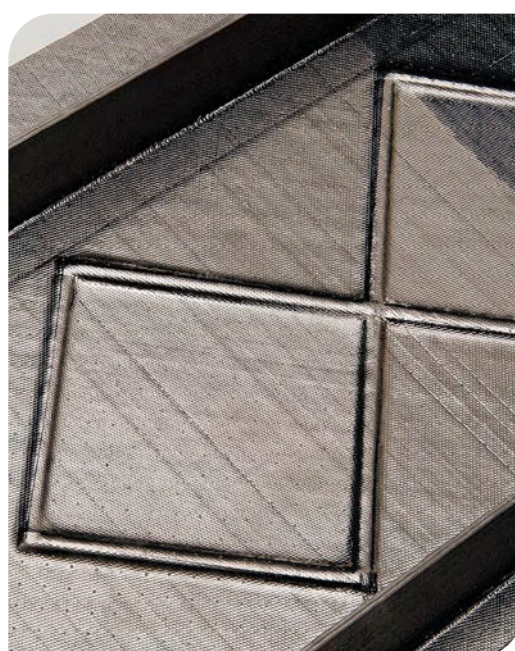
OUR AMBITION

› Enable **reduced time-to-market, material waste, and increased lifespan** of composite products in the **aerospace and wind energy** industries.

› Align with the objectives of **EMMC** and **EMCC** councils.

Project acronym

D-STANDART

Starting date
01/01/2023

Duration
36 months

9 partners
from 4 European countries

Project Coordination
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Type of action
Research and Innovation Action (RIA)

GA Number
101091409

CONSORTIUM

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LUP · SUZLON POWERING A GREENER TOMORROW · University of BRISTOL · NATIONAL COMPOSITES CENTRE · iCOMAT