PROJECT

MATRIX

improved Method to Analyze composite materials suiTable for SLP structures with the aim of Reducing the Impact on the required eXperimental testing campaign

Funding: European (Horizon 2020)

Duration: Apr 2019 - Mar 2021

Status: Complete

Total project cost: €1,213,250

EU contribution: €973,813

Call for proposal: H2020-CS2-CFP08-2018-01

CORDIS RCN : 221313

Objectives:

MATRIX Project intend to support the economic matter of the airworthiness certification for composite SLP structures in FAR 25, developing an OPTIMIZED approach to analyse, test and validate a large number of innovative materials suitable for HECOLAG purpose.

MATRIX output will be a SMART TOOL to streamline the standard Building Block Approach of composite material with a limited number of physical tests at flat coupons level (L1), simple shape elements (L2) and detailed complex shape (L3).

Parent Programmes:

H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Other programmes: JTI-CS2-2018-CfP08-SYS-02-52 Innovative Composite Material Qualification Methodologies

Lead Organisation:

Noesis Solutions Nv

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Organisation Website:
http://www.lmsintl.com

EU Contribution: €276,063

Partner Organisations:

University Of Derby

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Organisation Website:
http://www.derby.ac.uk

EU Contribution: €415,125

Design Manufactoring Spa

Address:
VIA PARTENOPE 5
80121 NAPOLI
Italy

EU Contribution: €282,625

Technologies:

Composite materials
Composite materials for structural purposes in the aircraft

Development phase: Research/Invention

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Other specified

Geo-spatial type: Other