PROJECT

SMART-LAYUP

Development of innovative automated fibre placement machine for composite fuselage manufacturing with high performance hybrid materials

Funding: European (Horizon 2020)

Duration: Feb 2017 - Jul 2019

Status: Complete

Total project cost: €3,685,539

EU contribution: €2,698,700

Call for proposal: H2020-CS2-CFP03-2016-01

CORDIS RCN : 208048

Objectives:

SMART-LAYUP activities described in the present proposal will contribute to the development and validation of an advanced process of hybrid materials automated lay-up for manufacturing of regional aircraft composite fuselage which allows a significant reduction of the overall production costs and manufacturing flow. After a developmental phase to be performed at MTORRES site, the innovative process and related machine will be validated and costs assessed through the execution of dedicated lay-up tests and fabrication of fuselage demonstrators at Topic Manager plant.

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)

Lead Organisation:

Fundacio Eurecat

Address:
Carrer Roc Boronat 117, 5 Planta
8018 Barcelona
Spain

EU Contribution: €396,075

Partner Organisations:

M Torres Diseños Industriales Sa

Address:
CTRA. PAMPLONA-HUESCA, KM.9
31119 TORRES DE ELORZ
Spain

Organisation Website:
http://www.mtorres.es

EU Contribution: €2,302,625

Technologies:

Composite materials
Composite materials for structural purposes in the aircraft

Development phase: Research/Invention

Aircraft operations and safety
Automated systems

Development phase: Research/Invention

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Geo-spatial type: Other