PROJECT

COFRARE 2.0

Out of autoclave processes development for composite frames manufacturing with high production rate and low cost.

Funding: European (Horizon 2020)

Duration: Jul 2016 - Jun 2018

Status: Complete

Total project cost: €482,439

EU contribution: €399,770

Call for proposal: H2020-CS2-CFP02-2015-01

CORDIS RCN : 205654

Objectives:

The main objective of the COFRARE 2.0 project, answering to the call for proposal launched in WP B-4.3, will be to carry out process development for composite frames manufacturing with high production rate and low cost to provide a step forward in the development of aerostructures composite component for aircrafts such as Regional ones.

The project will contribute to the development and validation of an advanced process for manufacturing composite fuselage frames, which will result in a significant reduction in overall production costs, component weight and manufacturing flow.

In order to understand the feasibility of the technology to match the application, LRI and RTM processes will be validated and cost assessed through the application of the building block approach, meaning starting from Level 1 coupons to advance then to Level 2 elements to finally validate at test Level 3 of subcomponents to pass at the end to the realization of two demonstrators.

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:

Design Manufactoring Spa

Address:
VIA PARTENOPE 5
80121 NAPOLI
Italy

EU Contribution: €78,750

Partner Organisations:

Lgai Technological Center Sa

Address:

Campus Universidat Autonoma De Barcelona Facultad De Medicina
8193 Cerdanyola Barcelona
Spain

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

EU Contribution: €114,145

Fundacio Eurecat

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

EU Contribution: €206,875

Technologies:

Aircraft design and manufacturing
Electro-Mechanical Actuators (EMAs)

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