

PROJECT

INNOHYBOX

Innovative solutions for metallic ribs or fittings introduced in a composite box to optimally deal with thermo-mechanical effects

Funding: European (Horizon 2020)

Duration: Mar 2018 - Aug 2020

Status: Ongoing

Total project cost: €749,683

EU contribution: €749,683



Call for proposal: H2020-CS2-CFP06-2017-01

[CORDIS RCN : 213812](#)

Objectives:

The objective of this project is to develop a thorough understanding of the thermo-mechanical behaviour of a hybrid box with composite panels but including metallic ribs or fittings. A building-up approach, from different materials CTE characterization up to the validation of a whole box assembly section, is required to develop and validate the capacity to properly modelize the thermo-mechanical effect in hybrid assemblies. Based on this developed methodology, innovative solutions will be studied for the metallic components of a composite wing-box.

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-CS2-2017-CFP06-AIR-01-27 Innovative solutions for metallic ribs or fittings introduced in a composite box to optimally deal with thermo-mechanical effects

Lead Organisation:

Fundacio Eurecat

Address:

Carrer Roc Boronat 117, 5 Planta
8018 Barcelona
Spain

EU Contribution: €199,750

Partner Organisations:

Universitat De Girona

Address:

PLACA SANT DOMENEC 3
17004 GIRONA
Spain

Organisation Website:

<http://www.udg.es>

EU Contribution: €298,563

Sofitec Aero SI

Address:

AUTOV A-4 KM 521 PARQUE LOGISTICO E INDUSTRIAL MAN LB NAVE 1
41410 CARMONA
Spain

EU Contribution: €251,370

Technologies:

Aircraft design and manufacturing
Box wing 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