

PROJECT

ITEMB

ITEMB: Integrated Full Composite Main Landing Gear Bay Concept

Funding: European (Horizon 2020)

Duration: Sep 2016 - Aug 2018

Status: Complete

Total project cost: €802,125

EU contribution: €580,238



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

[CORDIS RCN : 205612](#)

Objectives:

The standard solution of a landing gear integrated into the wings, that is widely used in the actual single aisle aircraft configuration, even if extensively safe in terms of structural load distribution, leads to many drawbacks both referred to the structural configuration and weight and also related to the structural integration of the different components during the aircraft final assembly and set-up.

New solutions need to be supported by big efforts in terms of design and materials optimization and manufacturing processes.

The scope of ITEMB project is to set up an innovative Lower Center Fuselage (LCF) architecture compliant with Body Landing Gear scenario, including high loaded structure, highly integrated concept and industrial processes validation.

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:

Protom Group Spa

Address:

VIA FORO BUONAPARTE 70
20121 MILANO
Italy

EU Contribution: €260,750

Partner Organisations:

Universita Degli Studi Di Napoli Federico II

Address:

CORSO UMBERTO I, 40
80138 NAPOLI
Italy

Organisation Website:

<http://www.unina.it>

EU Contribution: €62,500

Laer Spa

Address:

VIA VITTORIO EMANUELE III 363
80013 CASALNUOVO DI NAPOLI
Italy

EU Contribution: €256,988

Technologies:

Composite materials
Composite fuselage sections

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