

PROJECT

CALITO

Cabin Lining auTOMation

Funding: European (Horizon 2020)

Duration: Feb 2017 - Jan 2020

Status: Complete

Total project cost: €1,546,875

EU contribution: €850,000



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

[CORDIS RCN : 208057](#)

Objectives:

It is our objective to redesign cabin and cargo lining parts and the connected mounting system to establish the basis for an automated installation e.g. by light weight parts or simplifying geometries.

The interior parts and brackets will be designed to allow plain handling during installation. In respect to this, the alignment of neighboring parts will be based on a "hidden gap"-concept. For most easy leveling of the robot, the mounting system will ensure consistent reference points throughout the bracket variants.

As SFS intec GmbH has already designed the bracket logic concept for the A350 program, the hereby used clic and snap mounting system will be optimized e.g. by integrating the idea of separated load pathes to reduce bracket variants and equalize manufacturing tolerances of the structure. Multi layer panels (separation of functional and design features in different layers) and new materials with optimized CO2-Balance will be considered as well as brackets including different functions (connecting, damper, insulation...) within one or more ATA-Chapter (Mulit -ATA-Part, electric connection, mechanic connection).

To minimize adaptation effort on the aircraft structure, mounting of connector brackets to the structure shall be included in the installation process of Cabin and Cargo lining. The first permanent fixation to the Aircraft structure parts takes place during installation. To disassembly the lining parts a clic and snap connection between the to parts of a bracket shall be dissolved.

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:

Sfs Intec GmbH

Address:

IN DEN SCHWARZWIESEN 2
61440 OBERURSEL
Germany

EU Contribution: €620,000

Partner Organisations:

Solvay Sa

Address:

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1120 BRUXELLES
Belgium

Organisation Website:

<http://solvinpvc.com>

EU Contribution: €230,000

Technologies:

Cabin and cockpit design
Futuristic passenger-centered cabin design

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