

PROJECT

RATIOS

Regional Aircraft breakThrough InteriOr Solution

Funding: European (Horizon 2020)

Duration: Mar 2019 - Feb 2021

Status: Complete

Total project cost: €551,498

EU contribution: €551,498



Call for proposal: H2020-CS2-CFP07-2017-02

[CORDIS RCN : 221477](#)

Objectives:

Notwithstanding the increased mobility of European citizens across Europe, with regional flights becoming a frequent means of transportation for reasons of work, family or leisure, flight experience still suffers from several shortcomings, especially in terms of time efficiency (with boarding bottlenecks and dis-embarkment problems) and lack of comfort on board (reduced space and connectivity for passengers, reduced space between seats and poor cleanliness of lavatories and other aircraft public areas). All these elements have significant relapses both in terms of passengers' well-being and of economic costs for airline companies.

The RATIOS project will address all the above-mentioned problems envisioning a 2035 user scenario, by improving passenger comfort, cost-efficiency, environmental protection and on-board safety, through the design of innovative interiors. The consortium will explore, conceive, develop and test at TRL 3/4 breakthrough concept solutions and technologies for cabin interiors through the Human-Centred Design Approach (HCDA), with the aim of optimizing boarding and dis-embarkment times, leveraging on new coming technologies and materials and ensuring weight-saving, better eco-compliance and lower operational costs for air companies. Moreover, RATIOS will improve cabin environment by realizing personalized services for passengers with different needs, starting from the improvement of flight productive time for passengers willing to use travelling time for work purposes, as well as guaranteeing well-being with more comfortable cabin environment, seats, spacy overhead compartments, improved hygiene and high-level of in-flight services.

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-CfP07-AIR-02-59 Breakthrough design concept solutions and technologies for Regional Aircraft Cabin Interiors innovative configuration

Lead Organisation:

Delta Interior Societa' A Responsabilita' Limitata

Address:

VIA DON GIUSEPPE BRAMBILLA, 19
23844 SIRONE
Italy

EU Contribution: €190,688

Partner Organisations:

Studio Volpi S.r.l.

Address:

VIA ROMA 14
21013 GALLARATE
Italy

EU Contribution: €360,810

Technologies:

Cabin and cockpit design
Futuristic passenger-centred cabin design

Development phase: Validation

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Air transport

Transport sectors: Passenger transport

Transport policies: Societal/Economic issues

Geo-spatial type: Other