

PROJECT

RoCS

Rotorcraft Certification by Simulation

Funding: European (Horizon 2020)

Duration: May 2019 - Apr 2022

Status: Ongoing

Total project cost: €2,999,769

EU contribution: €2,842,172



Call for proposal: H2020-CS2-CFP08-2018-01

[CORDIS RCN : 221314](#)

Objectives:

This proposal answers the call JTI-CS2-2018-CfP08-FRC-01-19 on Certification by Simulation for Rotorcraft Flight Aspects. The aim is to define a virtual engineering flight simulation process for the generation of evidence for certification of rotorcraft.

The objective is to establish, in collaboration with industry and regulators, the characteristics that a virtual flight simulation environment must have to be adequate to demonstrate compliance with airworthiness standards, in a safer, more economical and more effective way than that which could be achieved through current flight test procedures.

The challenge is to develop, in agreement with the regulatory authority, guidelines that define the part of the certification basis that could be substituted or complemented by flight simulation, as well as the metrics and methodology to assess simulation model and flight simulator cueing fidelity.

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-CS2-2018-CfP08-FRC-01-19 Certification by Simulation for Rotorcraft Flight Aspects (CSRFA)

Lead Organisation:

Politecnico Di Milano

Address:

Piazza Leonardo Da Vinci 32
20133 Milano
Italy

Organisation Website:

<http://www.polimi.it>

EU Contribution: €692,688

Partner Organisations:

Liverpool John Moores University

Address:

RODNEY STREET 2 EGERTON COURT
LIVERPOOL
L3 5UX
United Kingdom

Organisation Website:

<http://www.ljmu.ac.uk>

EU Contribution: €139,151

Giei Srl

Address:

VIA SESTO 68
26100 CREMONA
Italy

EU Contribution: €367,725

Deutsches Zentrum Fr Luft Und Raumfahrt E.v

Address:

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

EU Contribution: €516,381

The University Of Liverpool

Address:

Brownlow Hill 765 Foundation Building
Liverpool
L69 7ZX
United Kingdom

Organisation Website:

<http://www.liv.ac.uk>

EU Contribution: €438,103

Stichting Nationaal Lucht En-Ruimtevaartlaboratorium

Address:

Anthony Fokkerweg 2
1059CM AMSTERDAM
Netherlands

Organisation Website:

<http://www.nlr.nl>

EU Contribution: €688,125

Technologies:

Computer-aided design and engineering
Virtual reality simulation for production and assembly planning

Development phase: Research/Invention

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Digitalisation

Geo-spatial type: Other