

PROJECT

FASTRIP2050

FAST Rotorcraft societal Integration and Performance assessments 2050

Funding: European (Horizon 2020)

Duration: Jul 2021 - Dec 2023

Status: Ongoing

Total project cost: €534,506

EU contribution: €534,506



Call for proposal: H2020-CS2-CFP11-2020-01

[CORDIS RCN : 232294](#)

Objectives:

Within CS2, the Technology Evaluator (TE) is positioned as a dedicated evaluation platform, with a critical role of assessing the environmental impact of the technologies developed. Apart from assessing the level of success achieved by the novel technologies and their contribution to well-defined environmental goals, the TE is also tasked with establishing any societal benefits that may be accrued.

The aim of project FASTRIP2050 (FAST Rotorcraft societal Integration and Performance assessments 2050) is to undertake techno-economic and environmental risk assessments of future advanced tilt-rotor and compound rotorcraft configurations. The focus of the work is to undertake, at the airport and Air Traffic System (ATS) levels, assessments of potential environmental (emissions and noise) and mobility (connectivity and productivity) improvements that may be accrued through replacement of reference technology over the designated time scales. Additionally, the scope of the work includes the investigation of fast rotorcraft concepts utilising hybrid-electric propulsion and for larger passenger capacities.

The consortium proposes to continue their collaborative activity from DEPART2050, TE's ongoing project on Fast Rotorcraft assessments. Led by Cranfield University, the consortium includes NLR, ANOTEC, and the University of Padua and has been specially chosen based on their individual strengths in the field of rotorcraft research and their past collaborative experience in EU projects.

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-CS2-2020-CfP11-TE2-01-13 Airport and ATS Level Assessment for Rotorcraft

Lead Organisation:

Cranfield University

Address:

College Road
CRANFIELD - BEDFORDSHIRE
MK43 0AL
United Kingdom

Organisation Website:

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

EU Contribution: €219,569

Partner Organisations:

Stichting Nationaal Lucht En-Ruimtevaartlaboratorium

Address:

Anthony Fokkerweg 2
1059CM AMSTERDAM
Netherlands

Organisation Website:

<http://www.nlr.nl>

EU Contribution: €133,300

Universita Degli Studi Di Padova

Address:

Via 8 Febbraio 1848 2
35122 Padova
Italy

Organisation Website:

<http://www.unipd.it>

EU Contribution: €105,388

Anotec Engineering, S.I.

Address:

CALLE RECTOR JOSE VIDA SORIA 2 PORTAL 7 PLANTA 2 PUERTA C
18613 MOTRIL
Spain

EU Contribution: €76,250

Technologies:

Sensor technologies
Flight test instrumentation for rotorcraft

Development phase: Research/Invention

Aircraft propulsion
Hybrid propulsion system components

Development phase: Research/Invention

Vehicle design and manufacturing, Other

STRIA Roadmaps: specified

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport
Societal/Economic issues, Environmental/Emissions

Transport policies: aspects

Geo-spatial type: Other