

PROJECT

SCALAIr

Scaled Test Aircraft Preparation and Qualification

Funding: European (Horizon 2020)

Duration: Oct 2016 - Mar 2021

Status: Complete

Total project cost: €2,000,011

EU contribution: €2,000,011



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

[CORDIS RCN : 205555](#)

Objectives:

To reduce CO₂, Fuel Burn, NO_x and noise in aeronautics, while coping with the mobility demands of its citizens, but also to tackle the competition with USA, the European community needs new radical Large Passenger Aircraft configurations. These configurations incorporate vast innovations in the field of fuselage, wing design, and hybrid-electric propulsion. The Scaled Test Aircraft Preparation & Qualification (SCALAIr) project will deliver a flexible, modular, reconfigurable, cost-effective, and easy to operate scale model aircraft, being the enabler towards dynamically scaled model aircraft research. This platform provides low-cost and low-risk validation of advanced aircraft achieving the ultimate Flightpath 2050 challenges. This proposal is fully realised by a unique proposer (NLR), gathering robust and proven expertise. The project activities start with the overhaul, updates, required modifications and qualification of the scaled aircraft of FP6's NACRE project. Afterwards, new components or an entirely new scaled aircraft will be developed, in close coordination with the partners of CS2's LPA WP 1.3. As such, this 48 months-long, 3.6MEuro valued action does not only align the strategies between dispersed institutions of our continent, but also spreads the knowledge of a potential best practice in aeronautical development, with various potential applications: Scale models are expected to serve as innovation catalysts, taking a globally leading role.

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:

Stichting Centrum Voor De Ontwikkeling Van Transport En Logistiek In Europa

Address:

Van Nelleweg 1
3044 BC Rotterdam
Netherlands

Organisation Website:

<http://www.cetle.org>

EU Contribution: €2,000,011

Technologies:

Aircraft propulsion
Hybrid propulsion system components

Development phase: Validation

Transport electrification, Vehicle design and

STRIA Roadmaps: manufacturing

Transport mode: Air transport

Transport sectors: Passenger transport

Transport policies: Safety/Security

Geo-spatial type: Other