

PROJECT

ATM4E

Air Traffic Management for environment

Funding: European (Horizon 2020)

Duration: May 2016 - Apr 2018

Status: Complete

Total project cost: €599,625

EU contribution: €599,625



Call for proposal: H2020-SESAR-2015-1

[CORDIS RCN : 202669](#)

Objectives:

The overall aim of ATM4E is to explore the scope for the potential reduction of air traffic environmental impacts in European airspace on climate, air quality, and noise through optimization of air traffic operations.

The project will integrate existing methodologies for assessment of the environmental impact of aviation, in order to evaluate the feasibility of environmentally-optimized flight operations to the European ATM network, including climate, air quality, and noise impacts. A preliminary modelling concept for climate-optimization has previously been developed for an FP7 European Project, (REACT4C). The 'case-study' approach of REACT4C will be built upon and extended to a multi-dimensional environmental impact assessment, to cover climate, air quality and noise, to better understand impacts in the European airspace. Different traffic scenarios (present-day and future) will be analysed to understand the extent to which environmentally-optimized flights based on multi-dimensional environmental criteria (assessment) would lead to changes in air traffic flows and create challenges for ATM. The findings of the project will be used to prepare a roadmap that is consistent with SESAR2020 principles and objectives, which would consider the necessary steps and actions that would need to be taken to ultimately introduce environmentally-optimized flight operations in European airspace.

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:

Deutsches Zentrum Fr Luft Und Raumfahrt E.v

Address:

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

EU Contribution: €142,500

Partner Organisations:

Envisa Sas

Address:

Rue Oberkampf 22
75011 Paris
France

Organisation Website:

<http://www.env-isa.com>

EU Contribution: €82,250

The University Of Newcastle Upon Tyne**Address:**

Kensington Terrace 6
NEWCASTLE UPON TYNE
NE1 7RU
United Kingdom

Organisation Website:

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

EU Contribution: €111,000

Technische Universität Hamburg**Address:**

Am Schwarzenberg Campus 1
21073 Hamburg
Germany

Organisation Website:

<http://www.tu-harburg.de>

EU Contribution: €99,500

Manchester Metropolitan University**Address:**

All Saints Building, Oxford Road
MANCHESTER
M15 6BH
United Kingdom

Organisation Website:

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

EU Contribution: €75,500

Technische Universiteit Delft**Address:**

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2600 GA Delft
Netherlands

EU Contribution: €88,875

Technologies:

Aircraft operations and safety
Optimization of air traffic operations for reduced environmental
impacts

Development phase: Research/Invention

STRIA Roadmaps: Network and traffic management systems

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Environmental/Emissions aspects

Geo-spatial type: Other