

PROJECT

ECHO

European Concept of operations for Higher airspace Operations

Funding: European (Horizon 2020)

Duration: Nov 2020 - Oct 2022

Status: Ongoing

Total project cost: €3,119,119

EU contribution: €1,968,865



Call for proposal: H2020-SESAR-2019-2

[CORDIS RCN : 231802](#)

Objectives:

The 'Higher Airspace' region is located between the airspace normally used by aircraft and the beginning of space. 'Higher airspace' is no longer an exclusive transition zone, but an area where operations will be significantly expanded as a result of the emergence of a completely new aviation domain, business and technical opportunities and more, representing business values in the order billions per year. The anticipated operations in the 'Higher Airspace' represent an emerging market like for the early days of aviation where providing rules, including structural procedures regarding traffic and operations management, is now considered as the key enabler of this international healthy business of \$900b/y which worldwide connect people and civilisations.

The ECHO (European Concept of Higher airspace Operations) Project will deliver a comprehensive demand analysis and a comprehensive, innovative and feasible Concept of Operations enabling near term and future 'Higher Airspace' operations in a safe and orderly manner.

The 'Higher Airspace' including the operators forms a new, almost legacy free environment enabling an expeditions uptake of innovations or, extrapolated SESAR solutions. In this way the Higher Airspace could become an incubator environment for future ATM.

The ECHO project deliverables will also be instrumental in developing a Global performance-based framework and will be the basis for the European Regulatory Framework. For this the project includes all the key European actors and includes extensive coordination and consultation activities, such as three large Thematic Workshops, to ensure wide European Stakeholder buy-in and alignment with evolving European policies.

The project will pave the way for the economic development of various commercial concepts that will only be possible by using the 'Higher Airspace' environment.

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: SESAR-ER4-19-2019 Innovation in Air Traffic Services

Lead Organisation:

Eurocontrol - European Organisation For The Safety Of Air Navigation

Address:

Rue De La Fusée 96
1130 Bruxelles

Partner Organisations:

Direction Des Services De La Navigation Aérienne

Address:

Rue Henry Farman 50
75720 Paris
France

Organisation Website:

<http://www.aviation-civile.gouv.fr>

Enav Spa

Address:

via Salaria, 716
ROMA
Italy

Organisation Website:

<http://www.enav.it>

EU Contribution: €150,000

Office National D'etudes Et De Recherches Aerospatiales

Address:

CHEMIN DE LA HUNIERE
91120 PALAISEAU
France

Organisation Website:

<http://www.onera.fr>

EU Contribution: €54,514

Deutsches Zentrum Fr Luft Und Raumfahrt E.v

Address:

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

EU Contribution: €433,125

Airbus Espana, S.I. Sociedad Unipersonal

Address:

P John Lenon, s/n
28906 GETAFE
Spain

Organisation Website:

<http://www.airbus.com>

EU Contribution: €206,165

Dassault Aviation**Address:**

9, Rond-Point des Champs-Élysées - Marcel Dassault
75008 PARIS
France

Organisation Website:

<http://www.dassault-aviation.com>

EU Contribution: €560,000

C.i.r.a. Centro Italiano Ricerche Aerospaziali Scpa**Address:**

VIA MAIORISE
81043 CAPUA
Italy

Organisation Website:

<http://www.cira.it>

EU Contribution: €169,600

Thales Alenia Space France**Address:**

26, AVENUE JF CHAMPOLLION
31037 TOULOUSE
France

Organisation Website:

<http://www.thalesaleniaspace.com>

EU Contribution: €111,861

Ente Nazionale Per L'aviazione Civile - Enac Italian Civil Aviation Authority**Address:**

VIALE CASTRO PRETORIO 118
00185 ROMA
Italy

EU Contribution: €237,350

Ecole Nationale De L Aviation Civile**Address:**

Avenue Edouard Belin 7
31055 31055
France

Organisation Website:

<http://www.enac.fr>

EU Contribution: €46,250

Technologies:

Information systems
Air traffic management systems

Development phase: Validation

Network and traffic management systems, Other

STRIA Roadmaps: specified

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies:

Societal/Economic issues, Safety/Security, Deployment planning/Financing/Market roll-out

Geo-spatial type: Other