Network Trajectory Based Operations

Fact Sheet

Project Information

NETWORK TBO

Grant agreement ID: 101114748

DOI
10.3030/101114748

Funded under
Climate, Energy and Mobility

Start date
1 September 2023

End date
31 August 2026

Total cost
€ 16 498 232,50

EU contribution
€ 5 628 987,51

Coordinated by
EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION
Belgium

Objective

"The NETWORK Trajectory based operations (NETWORK TBO) project proposes to validate TBO SESAR Solutions covers all aspects of Trajectory management processes involving – but not limited to - Network actors. It covers both planning and execution phases. The proposed SESAR Solutions, with an indication of the Technology Readiness Levels (with the associated EOCVM level) at the end of the project, are:

* Solution #1: TBO Planning and Impact on Execution. Taking as baseline FF-ICE/1 implementation in progress, this solution will develop focusing on the planning phase and the transition to execution including the EPP data improvement. (Target = TRL6 (V3)).
* Solution NETWORK TBO-2: Strategic trajectory revision in execution. This solution will address trajectory management during the (strategic) execution phase, including a contribution to the development of the ICAO’s FF-ICE 2 TBO concept. (Target = TRL6 (V3)).
* Solution NETWORK TBO-3: Improve both ATC and network processes through synchronization of network and local trajectories. This solution will aim in particular at improving information exchanges between the Network Manager and ANSPs in order to enable a reference Network 4D trajectory supporting coordination processes. (Target = TRL6 (V3)).

The NETWORK TBO project consortium - with EUROCONTROL as the project coordinator, and with steering from the project management board and the SJU - brings together 9 air navigation service providers, 2 airspace users, 8 airborne and ground industry partners, 2 research establishments. The main 'design', 'development & validation', and 'data pack and maturity gate' phases are planned throughout the second half of 2023, 2024, 2025 and the first half of 2026.

The NETWORK TBO IR project will be executed in strong coordination with European initiatives and projects related to TBO implementation as well as the ATMRPP ICAO working group ensuring complementary and maximising the R&D outputs towards implementation and standardisation.

**Fields of science**

- social sciences ➔ social geography ➔ transport ➔ transport planning ➔ air traffic management

**Keywords**

NETWORK TBO Trajectory based operations FFICE FF-ICE SBT RBT business trajectory

**Programme(s)**

- HORIZON.2.5 - Climate, Energy and Mobility - MAIN PROGRAMME

**Topic(s)**

- HORIZON-SESAR-2022-DES-IR-01-WA3-2 - Industrial Research & Validation for Air-Ground Integration and Autonomy

**Call for proposal**
HORIZON-SESAR-2022-DES-IR-01

See other projects for this call

Funding Scheme

HORIZON-JU-RIA - HORIZON JU Research and Innovation Actions

Coordinator

EUROCONTROL - EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION

Net EU contribution

€ 0,00

Address

Rue de la fusée 96
1130 Brussels / bruxelles
Belgium

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 8 455 928,75

Participants (17)

NAVIAIR

Denmark

Net EU contribution

€ 10 062,50
Address
Naviair alle 1
2770 Kastrup

Region
Danmark > Hovedstaden > Byen København

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 4 312,50

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LUFTFARTSVERKET

Sweden
Net EU contribution
€ 10 062,50

Address
Hospitalsgatan 30
602 27 Norrkoping

Region
Östra Sverige > Östra Mellansverige > Östergötlands län

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 4 312,50

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THALES LAS FRANCE SAS

France
Net EU contribution
€ 1 150 000,00
Address
Avenue gay lussac 2
78990 Elancourt
Region
Ile-de-France > Ile-de-France > Yvelines
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 493 750,00

AIRBUS
France
Net EU contribution
€ 1 092 194,25
Address
2 rond point emile dewoitine
31700 Blagnac
Region
Occitanie > Midi-Pyrénées > Haute-Garonne
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 468 083,25

INDRA SISTEMAS SA
Spain
Net EU contribution
€ 109 795,00
Address
Avenida de bruselas 35
28108 Alcobendas madrid
Region
Comunidad de Madrid > Comunidad de Madrid > Madrid
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 47 055,00

DARJAVNO PREDPRIJATIE RAKOVODSTVO NA VAZDUSHNOTO DVIJENIE TPP
Bulgaria
Net EU contribution
€ 54 250,00
Address
Brussels boulevard 1
1540 Sofia
Region
Югозападна и Южна централна България > Югозападен > София (столица)
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 23 250,00

LEONARDO - SOCIETA PER AZIONI
Italy
Net EU contribution
€ 844 375,00

Address
Piazza monte grappa 4
00195 Roma

Region
Centro (IT) > Lazio > Roma

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding
€ 361 875,00

ADMINISTRATIA ROMANA A SERVICIILOR DE TRAFIC AERIAN

Romania
Net EU contribution
€ 76 687,63

Address
Bld ion ionescu de la brad 10
013813 Bucuresti

Region
Macroregiunea Trei > Bucureşti-Ilfov > Bucureşti

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding
€ 32 866,12
ECOLE NATIONALE DE L AVIATION CIVILE

France

Net EU contribution

€ 179 375,00

Address

Avenue edouard belin 7
31400 Toulouse

Region

Occitanie > Midi-Pyrénées > Haute-Garonne

Activity type

Higher or Secondary Education Establishments

Links

 Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding

€ 76 875,00

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DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

Germany

Net EU contribution

€ 218 750,00

Address

Linder hohe
51147 Köln

Region

Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Links

 Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding

€ 93 750,00
ROCKWELL COLLINS FRANCE SAS

France

Net EU contribution

€ 94,828,00

Address

Avenue didier daurat 6
31701 Blagnac

Region

Occitanie > Midi-Pyrénées > Haute-Garonne

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 40,640,75

DIRECTION DES SERVICES DE LA NAVIGATION AERIENNE

France

Net EU contribution

€ 263,550,00

Address

50 rue henry farman
75720 Paris

Region

Île-de-France > Île-de-France > Paris

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
CAE FLIGHT SERVICES AUSTRIA GMBH

Austria

Net EU contribution

€ 450 625,00

Address

Wiedner hauptstrasse 120-124/top 5.2-5.3
1050 Wien

Region

Ostösterreich > Wien > Wien

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation

Participation in EU R&I programmes

HORIZON collaboration network

Other funding

€ 193 125,00

AIRBUS OPERATIONS SAS

France

Net EU contribution

€ 545 633,38

Address

Route de bayonne 316
31060 Toulouse

Region

Occitanie > Midi-Pyrénées > Haute-Garonne

Links

Contact the organisation

Participation in EU R&I programmes

HORIZON collaboration network
Polska Agencja Żeglugi Powietrznej

**Poland**

Net EU contribution

€ 43 191,75

**Address**

Ul. wiezowa 8
02 147 Warszawa

**Region**

Makroregion województwo mazowieckie > Warszawski stoleczny > Miasto Warszawa

**Activity type**

Research Organisations

**Links**

Contact the organisation

Participation in EU R&I programmes

HORIZON collaboration network

Other funding

€ 18 510,75

Flightkeys Gmbh

**Austria**

Net EU contribution

€ 203 000,00

**Address**

Mariahilfer strasse 47
1060 Wien

**SME**

Yes

**Region**

Oststerreich > Wien > Wien

**Activity type**
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
- Contact the organisation
- Participation in EU R&I programmes
- HORIZON collaboration network

Other funding
€ 87 000,00

ENAV SPA

Italy
Net EU contribution
€ 282 607,50

Address
Via salaria 716
00138 Roma

Region
Centro (IT) > Lazio > Roma

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
- Contact the organisation
- Participation in EU R&I programmes
- HORIZON collaboration network

Other funding
€ 121 117,50

Partners (4)

SWISS INTERNATIONAL AIR LINES AG

Switzerland
Net EU contribution
€ 0,00

Address
Malzgasse 15
4052 Basel

Region
Schweiz/Suisse/Svizzera > Nordwestschweiz > Basel-Stadt

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

SKYGUIDE, SA SUISSE POUR LES SERVICES DE LA NAVIGATION AERIENNE CIVILS ET MILITAIRES

Address
Route de pre bois 15-17
1215 Geneva

Region
Schweiz/Suisse/Svizzera > Région lémanique > Genève

Links
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Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

SKYSOFT-ATM SA

Address

Address

Region
Schweiz/Suisse/Svizzera

Net EU contribution
€ 0,00

Net EU contribution
€ 0,00
NATS (EN ROUTE) PUBLIC LIMITED COMPANY

Net EU contribution
€ 0,00

Address
4000 parkway whiteley
PO15 7FL Fareham

Region
South East (England) > Hampshire and Isle of Wight > Central Hampshire

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

EC signature date 15 June 2023
Last update: 25 July 2023