

PROJECT

PJ18 4DTM

4D Trajectory Management

Funding: European (Horizon 2020)

Duration: Nov 2016 - Nov 2020

Status: Complete

Total project cost: €49,248,700

EU contribution: €22,193,941



Call for proposal: H2020-SESAR-2015-2

[CORDIS RCN : 206405](#)

Background & policy context:

One of the main obstacles of reaching Single European Sky's objectives is management of flight trajectories. Inaccuracies are difficult to spot and information given to stakeholders about the trajectory is limited, arriving late, and full of inconsistencies and wrong assumptions. Military Flights are currently not integrated in the ATM-system, so demanding special treatment.

Additionally, there is a lack of complete, updated, unique and coherent aeronautical and meteorological information at European level, which again limits the accuracy of the predicted trajectory and so difficult detecting incoming issues and designing optimum solutions.

This project addresses solutions for the above limitations. Harmonized and global trajectory information sharing, including improved negotiation mechanisms, will enable significant operational benefits on flight management.

Objectives:

The aim is to enable a unique and integrated view of all flights trajectories (including military ones) among the stakeholders. This is improved thanks to new tools and capabilities ensuring all stakeholders are managing a single, updated and complete view of the forecasted meteorology and airspace configuration.

Both solutions above will increase safety and efficiency - a very important step towards ensuring that anyone can fly safer, cheaper and quicker in Europe in 10 years.

Methodology:

As so many stakeholders are involved, this issue cannot be solved at national level. All stakeholders (mainly air navigation service providers, as well as air and ground industry partners) need to be involved as all will need to perform changes to ensure successful implementation. The SESAR 2020 Programme is the only place where this can happen.

In this project we have ensured participation of the major ATM stakeholders which ensures having the knowledge and expertise to come up with the concepts, prototypes and platforms to provide sustainable results usable throughout Europe.

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:

Indra**Address:**

Avenida de Bruselas, 35
Alcobendas Madrid
Spain

Organisation Website:

<http://www.indra.es>

EU Contribution: €1,501,060

Partner Organisations:**Airbus****Address:**

2 ROND POINT EMILE DEWOITINE
31700 BLAGNAC
France

Organisation Website:

<http://www.airbus.com>

EU Contribution: €2,275,975

Austro Control Osterreichische Gesellschaft Fur Zivilluftfahrt Mbh**Address:**

WAGRAMER STRASSE 19
1220 WIEN
Austria

EU Contribution: €81,210

Polska Agencja Zeglugi Powietrznej**Address:**

Ul. Wiezowa 8
02N/A147 Warszawa
Poland

EU Contribution: €17,591

Hungarocontrol Hungarian Air Navigation Service**Address:**

Iglo U. 33-35
BUDAPEST
1185
Hungary

EU Contribution: €0

Rizeni Letoveho Provozu Ceske Republiky Statni Podnik**Address:**

Navigacni 787
25261 Jenec
Czech Republic

EU Contribution: €324,338

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: €0

Skyguide - Swiss Air Navigation Services Ltd**Address:**

Route de pré-bois 15-17
CH-1215 Geneva
Switzerland

Organisation Website:

<http://www.skyguide.ch>

EU Contribution: €224,368

Direction De La Navigation Aérienne**Address:**

50, rue Henry Farman
75720 PARIS
France

Organisation Website:

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

EU Contribution: €418,450

Enav**Address:**

VIA SALARIA, 16
138 ROME
Italy

Organisation Website:

<http://www.enav.it>

EU Contribution: €446,646

Honeywell Aerospace**Address:**

4 AVENUE SAINT GRANIER
31300 TOULOUSE
France

EU Contribution: €822,675

Entidad Pública Empresarial Aeropuertos Españoles Y Navegación Aérea**Address:**

Arturo Soria 109
28043 Madrid
Spain

Organisation Website:

<http://www.aena.es>

EU Contribution: €69,998

Valstybes Imone Oro Navigacija**Address:**

RODUNIOS KEL 2
02188 VILNIAUS
Lithuania

EU Contribution: €0

Eurocontrol - European Organisation For The Safety Of Air Navigation**Address:**

Rue De La Fusée 96
1130 Bruxelles
Belgium

EU Contribution: €781,102

Atos Belgium**Address:**

DA VINCILAAN 5
1930 ZAVENTEM
Belgium

EU Contribution: €0

Croatia Control, Croatian Air Navigation Services Ltd**Address:**

RUDOLFA FIZIRA 2
10410 VELIKA GORICA
Croatia

EU Contribution: €162,259

Deutsches Zentrum Fr Luft Und Raumfahrt E.v**Address:**

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

EU Contribution: €295,694

Thales Avs France Sas**Address:**

75-77 Avenue Marcel Dassault
33700 Merignac
France

EU Contribution: €805,580

Frequentis Ag**Address:**

Innovationsstrasse 1
1100 WIEN
Austria

Organisation Website:

<http://www.frequentis.com>

EU Contribution: €133,085

Thales Las France Sas**Address:**

Avenue Charles Lindbergh 3
94150 Rungis
France

EU Contribution: €1,776,296

Nats (En Route) Plc**Address:**

5th Floor South, Brettenham House, Lancaster Place
LONDON
WC2E 7EN
United Kingdom

Organisation Website:

<http://www.nats.co.uk>

EU Contribution: €725,143

Dassault Aviation**Address:**

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

Organisation Website:

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

EU Contribution: €187,278

Letove PrevadzkoVe Sluzby Slovenskej Republiky, Statny Podnik**Address:**

IVANSKA CESTA 93
823 07 BRATISLAVA
Slovakia

EU Contribution: €75,764

Udaras Eitliochta Na Heireann The Irish Aviation Authority**Address:**

D'OLIER STREET 11-12 THE TIMES BUILDING
D02 T449
DUBLIN
Ireland

EU Contribution: €0

Leonardo - Societa Per Azioni

Address:

Piazza Monte Grappa 4
195 Roma
Italy

EU Contribution: €1,356,064

Naviair

Address:

NAVIAIR ALLE 1
2770 KASTRUP
Denmark

EU Contribution: €164,224

Luftfartsverket

Address:

HOSPITALSGATAN 30
602 27 NORRKOPING
Sweden

Organisation Website:

<http://www.lfv.se>

EU Contribution: €93,842

Dfs Deutsche Flugsicherung GmbH

Address:

Am DFS-Campus 10
63225 LANGEN
Germany

Organisation Website:

<http://www.dfs.de>

EU Contribution: €785,546

Technologies:

Aircraft operations and safety
Intelligence and surveillance systems

Development phase: Research/Invention

STRIA Roadmaps: Network and traffic management systems

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Safety/Security

Geo-spatial type: Other