

PROJECT

PJ01-W2 EAD

PJ01 Wave 2 Enhanced Arrivals and Departures

Funding: European (Horizon 2020)

Duration: Nov 2019 - Dec 2022

Status: Ongoing

Total project cost: €12,685,578

EU contribution: €7,806,582



Call for proposal: H2020-SESAR-2019-1

[CORDIS RCN : 226168](#)

Objectives:

In order to meet the forecast traffic growth, and in particular to address the performance issues encountered in summer 2018, PJ01-W2 will develop concepts, tools and procedures to increase the capacity of Terminal Manoeuvring Areas (TMAs) in a safe, cost-effective and environmentally sustainable manner. This will be achieved by taking advantage of the latest technological developments from both an airborne and a ground-system perspective and through the secure sharing of data.

The needs of all Airspace Users will be addressed including Rotorcraft.

The aim will be to improve the capacity whilst exploiting the environmental benefits achieved from Continuous Climb Operations (CCO), Continuous Descent Operations (CDO) and improved arrival sequencing. A focus will be to minimise delays and improve resilience and predictability for capacity-constrained high-density/complexity TMAs.

This will be achieved by enhancing arrival and departure management by the dynamic use of precision navigation routes and optimised profiles. Traffic flows will be optimised by improving the integration of the management of departures with arrivals, including extended Arrival Manager (AMAN) and ground holding from in-horizon departures, and by improving the capability to balance traffic demand and available capacity across the network and airports.

The use of procedures and technologies to improve integration of rotorcraft operations within TMAs, and interoperability with General Aviation (GA), drones and Remotely-Piloted Aircraft System (RPAS), will be addressed which will also provide increased resilience in poor weather.

To ensure that the full benefits are achieved and that the expected performance improvements are realised in the context of the overall ATM network, close co-ordination will take place with other projects, particularly those addressing airport management, network management, trajectory and separation management and the overall content integration within the programme.

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-IR-VLD-WAVE2-08-2019 - PJ.01 W2 Enhanced Arrival and Departures

Lead Organisation:

Nats

Address:

4000 Parkway, whiteley 4000
Fareham, Hampshire

PO157FL
United Kingdom

Organisation Website:

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

EU Contribution: €858,269

Partner Organisations:

Airbus

Address:

2 ROND POINT EMILE DEWOITINE
31700 BLAGNAC
France

Organisation Website:

<http://www.airbus.com>

EU Contribution: €282,325

Austro Control Osterreichische Gesellschaft Fur Zivilluftfahrt Mbh

Address:

WAGRAMER STRASSE 19
1220 WIEN
Austria

EU Contribution: €0

Stichting Nationaal Lucht En-Ruimtevaartlaboratorium

Address:

Anthony Fokkerweg 2
1059CM AMSTERDAM
Netherlands

Organisation Website:

<http://www.nlr.nl>

EU Contribution: €49,889

Flughafen Zuerich Ag -Unique

Address:

Flughafen Kloten
8058 ZURICH-AIRPORT
Switzerland

EU Contribution: €0

Swedavia Ab

Address:

SWEDAVIA
190 45 STOCKHOLM ARLANDA
Sweden

Organisation Website:

<http://www.swedavia.se>

EU Contribution: €54,206

Direction Des Services De La Navigation Aérienne**Address:**

Rue Henry Farman 50
75720 Paris
France

Organisation Website:

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

EU Contribution: €214,567

Enav**Address:**

VIA SALARIA, 16
138 ROME
Italy

Organisation Website:

<http://www.enav.it>

EU Contribution: €248,446

Flughafen Munchen Gmbh**Address:**

NORDALLEE 25
85326 MUNCHEN
Germany

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

Rue De La Fusée 96
1130 Bruxelles
Belgium

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

RUDOLFA FIZIRA 2
10410 VELIKA GORICA
Croatia

Aeroports De Paris Sa**Address:**

1 RUE DE FRANCE
93290 TREMBLAY-EN-FRANCE
France

Organisation Website:

<http://www.aeroportsdeparis.fr>

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

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

Avinor As**Address:**

DRONNING EUFEMIAS GATE 6
2061 OSLO
Norway

Thales Avs France Sas**Address:**

75-77 Avenue Marcel Dassault
33700 Merignac
France

EU Contribution: €920,053

Indra**Address:**

Avenida de Bruselas, 35
Alcobendas Madrid
Spain

Organisation Website:

<http://www.indra.es>

EU Contribution: €387,190

Heathrow Airport Limited**Address:**

NELSON ROAD THE COMPASS CENTRE HOUNSLOW
LONDON
TW6 2GW
United Kingdom

Organisation Website:

<http://www.heathrowairport.com>

EU Contribution: €54,206

Thales Las France Sas**Address:**

AVENUE GAY LUSSAC 2
78990 ELANCOURT
France

Organisation Website:

<http://www.thalesgroup.com>

EU Contribution: €981,221

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

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

Ireland

Leonardo - Societa Per Azioni

Address:

Piazza Monte Grappa 4
195 Roma
Italy

EU Contribution: €363,353

Naviair

Address:

NAVIAIR ALLE 1
2770 KASTRUP
Denmark

Luftfartsverket

Address:

HOSPITALSGATAN 30
602 27 NORRKOPING
Sweden

Organisation Website:

<http://www.lfv.se>

EU Contribution: €380,791

Dfs Deutsche Flugsicherung GmbH

Address:

AM DFS CAMPUS 10
63225 LANGEN
Germany

Organisation Website:

<http://www.dfs.de>

EU Contribution: €404,516

Schiphol Nederland B.v.

Address:

Evert Van De Beekstraat 202
1118CP Luchthaven Schiphol
Netherlands

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
Environmental/Emissions aspects, Other

Transport policies: specified

Geo-spatial type: Infrastructure Node