

PROJECT

PJ28 IAO

Integrated Airport Operations

Funding: European (Horizon 2020)

Duration: Dec 2016 - Feb 2020

Status: Complete

Total project cost: €5,066,923

EU contribution: €3,546,846



Call for proposal: H2020-SESAR-2015-2

[CORDIS RCN : 206576](#)

Objectives:

This project PJ28 which is part of the SESAR 2020 Multi annual Program (S2020 MAWP) for the period 2016-2019, will demonstrate the benefits that specific promising SESAR solutions will bring in a large and two mid-size airports, where traffic congestion takes place daily during the peak season and where new SESAR solutions are expected to assist controllers in their duty. PJ28 proposal addresses the topic "Integrated Airport Operations" with the topic identifier "SESAR.IR-VLD.Wave1-28-2015" as stated in the 2020 MAWP Cluster D.1 High Performing Airport Operations (pages 500-507).

As part of the Very Large Scale Demonstrations in the Industrial Research & Validation phase, developed under the SJU Private Public Partnership (SESAR2020), the objective of PJ28 is to perform Very Large Scale Demonstrations (VLD) addressing airport related topics with V3 maturity in SESAR1. This PJ28 proposal focusses on four Air Traffic Management (ATM) sub-functionalities requested by the Pilot Common Project (PCP Commission Implementation Regulation IR N° 716/2014), all part of ATM Functionality #2 - Airport Integration and Throughput (AF#2) and it will conduct these in a close to operational environment. Doing so, PJ28 will play an active role in the de-risking of the later deployment phase by demonstrating the operational and technical readiness of the SESAR solutions covered in this project and thus ensure trust in the SESAR results.

Those four functionalities aim at:

- Improving airport safety;
- Improving runway throughput;
- Reducing fuel consumption;
- Reducing overall delays on the airport; and
- Improving airport capacity.

The following sub-functionalities will be implemented in dedicated demonstration platforms:

- Departure Management Synchronised with Pre-departure sequencing.
- Departure Management integrating Surface Management Constraints.
- Automated Assistance to Controller for Surface Movement Planning and Routing.
- Airport Safety Nets.

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: €749,397

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

2 ROND POINT EMILE DEWOITINE
31700 BLAGNAC
France

Organisation Website:

<http://www.airbus.com>

EU Contribution: €62,265

Polska Agencja Zeglugi Powietrznej**Address:**

Ul. Wieszowa 8
02N/A147 Warszawa
Poland

EU Contribution: €0

Saab Ab**Address:**

Broederna Ugglas Gata
58188 LINKOEPING
Sweden

Organisation Website:

<http://www.saab.com>

EU Contribution: €0

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

Navigacni 787
25261 Jenec
Czech Republic

EU Contribution: €11,980

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

Stiftelsen Sintef**Address:**

Strindveien
7034 Trondheim
Norway

Organisation Website:

<http://www.sintef.no>

EU Contribution: €80,000

Direction De La Navigation Aérienne**Address:**

50, rue Henry Farman
75720 PARIS
France

Organisation Website:

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

EU Contribution: €255,933

Honeywell Aerospace**Address:**

4 AVENUE SAINT GRANIER
31300 TOULOUSE
France

EU Contribution: €304,682

Valstybes Imone Oro Navigacija**Address:**

RODUNIOS KEL 2
02188 VILNIAUS
Lithuania

EU Contribution: €0

Sintef**Address:**

Strindveien 4
7034 TRONDHEIM
Norway

Organisation Website:

<http://www.sintef.no>

EU Contribution: €224,682

Thales Avs France Sas**Address:**

75-77 Avenue Marcel Dassault
33700 Merignac
France

EU Contribution: €322,658

Indra**Address:**

Avenida de Bruselas, 35
Alcobendas Madrid
Spain

Organisation Website:

<http://www.indra.es>

EU Contribution: €426,555

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

IVANSKA CESTA 93
823 07 BRATISLAVA
Slovakia

EU Contribution: €0

Airtel Atn Limited**Address:**

The Forum, Glashule Road 29
N/A
Glashule
Ireland

Organisation Website:

<http://www.airtel-atn.com>

EU Contribution: €0

Technologies:

Aircraft operations and safety
Big data analytics for management of ATM
systems

Development phase: Demonstration/prototyping/Pilot Production

STRIA Roadmaps: Network and traffic management systems

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Environmental/Emissions aspects, Safety/Security

Geo-spatial type: Infrastructure Node