

PROJECT

PJ14-W2 I-CNSS

Integrated Communication, Navigation and Surveillance System

Funding: European (Horizon 2020)

Duration: Dec 2019 - Dec 2022

Status: Ongoing

Total project cost: €38,936,455

EU contribution: €18,529,379



Call for proposal: H2020-SESAR-2019-1

[CORDIS RCN : 226310](#)

Objectives:

The PJ14-W2 I-CNSS aims to specify and develop the future Technologies coming from the Communication, Navigation and Surveillance domains in order to support and manage the Operational Services, like the 4D Trajectory Management, in the future ATM System.

Performance requirements for CNS systems are becoming increasingly complex and demanding and need to be considered as part of an integrated and holistic System of Systems, which includes air and ground CNS solutions considering convergence towards a common infrastructure, and a unified concept of operations, where possible.

In parallel, CNS systems and infrastructure for both airborne and ground must take a more business- and performance oriented approach with efficient use of resources delivering the required capability in a cost-effective and spectrum efficient manner.

All the activities performed in the PJ14-W2 I-CNSS will be developed at European Level in order to avoid a fragmented approach and to ensure the interoperability as depicted in the ICAO Global Air Navigation Plan (GANP).

The CNS technologies support the GANP in terms of:

- Airport Operations
- Globally Interoperable System Data
- Optimum capacity and flexible flights

The PJ14-W2 I-CNSS aims to develop and improve solution, not already available, from the technological point of view to support the future ATM global system, according the timeframe addressed by the ATM Master Plan, mainly in:

- Surface Data Sharing to let a huge data exchange for an effective and efficient airport operations and awareness
- New Data Communications infrastructure to reduce the ATCo Workload avoiding misunderstandings and improve the efficiency
- Collaborative Air Traffic Management to support the ATCos, pilots, airport operators to improve the situation awareness
- Optimisation of Capacity, Flexible Use of Airspace and Turn-around operations to avoid congestion in ATM domain

In the PJ14 all the main stakeholders are involved to ensure that all the operational needs.

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:

Leonardo - Societa Per Azioni

Address:

Piazza Monte Grappa 4
195 Roma
Italy

EU Contribution: €1,712,987

Partner Organisations:

Airbus

Address:

2 ROND POINT EMILE DEWOITINE
31700 BLAGNAC
France

Organisation Website:

<http://www.airbus.com>

EU Contribution: €1,363,657

Austro Control Osterreichische Gesellschaft Fur Zivilluftfahrt Mbh

Address:

WAGRAMER STRASSE 19
1220 WIEN
Austria

Polska Agencja Zeglugi Powietrznej

Address:

Ul. Wieszowa 8
02N/A147 Warszawa
Poland

Saab Ab

Address:

Broederna Ugglas Gata
58188 LINKOEPING
Sweden

Organisation Website:

<http://www.saab.com>

Hungarocontrol Magyar Legiforgalmiszolgalat Zartkoruen Mukodo Reszvenytarsasag

Address:

IGLO UTCA 33 35
BUDAPEST
1185
Hungary

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

Navigacni 787
25261 Jenec
Czech Republic

Stichting Nationaal Lucht En-Ruimtevaartlaboratorium**Address:**

Anthony Fokkerweg 2
1059CM AMSTERDAM
Netherlands

Organisation Website:

<http://www.nlr.nl>

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: €516,003

Enav**Address:**

VIA SALARIA, 16
138 ROME
Italy

Organisation Website:

<http://www.enav.it>

EU Contribution: €44,673

Honeywell Aerospace**Address:**

4 AVENUE SAINT GRANIER
31300 TOULOUSE
France

EU Contribution: €1,510,997

Enaire**Address:**

AVENIDA DE ARAGON S/N BLOQUE 330, PORTAL 2 PARQUE EMPRESARIAL LAS MERCEDES
28022 MADRID
Spain

Organisation Website:

<http://www.aena.es>

EU Contribution: €371,993

Valstybes Imone Oro Navigacija**Address:**

RODUNIOS KEL 2
02188 VILNIAUS
Lithuania

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

Rue De La Fusée 96
1130 Bruxelles
Belgium

Atos Belgium**Address:**

DA VINCILAAN 5
1930 ZAVENTEM
Belgium

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

RUDOLFA FIZIRA 2
10410 VELIKA GORICA
Croatia

Sintef**Address:**

Strindveien 4
7034 TRONDHEIM
Norway

Organisation Website:

<http://www.sintef.no>

EU Contribution: €244,476

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

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

EU Contribution: €253,746

Thales Avs France Sas**Address:**

75-77 Avenue Marcel Dassault
33700 Merignac
France

EU Contribution: €937,332

Frequentis Ag**Address:**

Innovationsstrasse 1
1100 WIEN
Austria

Organisation Website:

<http://www.frequentis.com>

EU Contribution: €789,260

Indra**Address:**

Avenida de Bruselas, 35
Alcobendas Madrid
Spain

Organisation Website:

<http://www.indra.es>

EU Contribution: €1,397,095

Thales Las France Sas**Address:**

AVENUE GAY LUSSAC 2
78990 ELANCOURT
France

Organisation Website:

<http://www.thalesgroup.com>

EU Contribution: €2,328,806

Nats**Address:**

4000 Parkway, whiteley 4000
Fareham, Hampshire
PO157FL
United Kingdom

Organisation Website:

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

EU Contribution: €68,044

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

IVANSKA CESTA 93
823 07 BRATISLAVA
Slovakia

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

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

Naviair**Address:**

NAVIAIR ALLE 1
2770 KASTRUP
Denmark

EU Contribution: €27,218

Luftfartsverket**Address:**

HOSPITALSGATAN 30
602 27 NORRKOPING
Sweden

Organisation Website:

<http://www.lfv.se>

Dfs Deutsche Flugsicherung GmbH**Address:**

AM DFS CAMPUS 10
63225 LANGEN
Germany

Organisation Website:

<http://www.dfs.de>

EU Contribution: €92,013

Airtel Atn Limited**Address:**

2 HARBOUR SQUARE CROFTON ROAD
A96D6R0
DUN LOAGHAIRE DUBLIN
Ireland

Organisation Website:

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

EU Contribution: €298,991

Technologies:

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

Development phase: Research/Invention

STRIA Roadmaps: Network and traffic management systems

Transport mode: Multimodal transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Other specified

Geo-spatial type: Other