

PROJECT

PJ14 EECNS

Essential and Efficient Communication Navigation and Surveillance Integrated System

Funding: European (Horizon 2020)

Duration: Nov 2016 - Dec 2019

Status: Complete

Total project cost: €43,418,047

EU contribution: €22,068,002



Call for proposal: H2020-SESAR-2015-2

[CORDIS RCN : 206409](#)

Objectives:

The PJ 14 CNS 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.

Methodology:

All the activities performed in the PJ 14 CNS 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 PJ 14 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 are well considered.

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: €2,186,520

Partner Organisations:

Airbus

Address:

2 ROND POINT EMILE DEWOITINE
31700 BLAGNAC
France

Organisation Website:

<http://www.airbus.com>

EU Contribution: €1,020,626

Austro Control Osterreichische Gesellschaft Fur Zivilluftfahrt Mbh

Address:

WAGRAMER STRASSE 19
1220 WIEN
Austria

EU Contribution: €0

Polska Agencja Zeglugi Powietrznej

Address:

Ul. Wiezowa 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

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: €0

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: €79,218

Stiftelsen Sintef

Address:

Strindveien

7034 Trondheim

Norway

Organisation Website:

<http://www.sintef.no>

EU Contribution: €171,675

Direction De La Navigation Aérienne

Address:

50, rue Henry Farman

75720 PARIS

France

Organisation Website:

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

EU Contribution: €163,797

Honeywell Aerospace

Address:

4 AVENUE SAINT GRANIER

31300 TOULOUSE

France

EU Contribution: €1,284,714

Entidad Pública Empresarial Aeropuertos Españoles Y Navegación Aérea

Address:

Arturo Soria 109
28043 Madrid
Spain

Organisation Website:

<http://www.aena.es>

EU Contribution: €418,034

Valstybes Imone Oro Navigacija

Address:

RODUNIOS KEL 2
02188 VILNIAUS
Lithuania

EU Contribution: €110,703

Eurocontrol - European Organisation For The Safety Of Air Navigation

Address:

Rue De La Fusée 96
1130 Bruxelles
Belgium

EU Contribution: €0

Atos Belgium

Address:

DA VINCILAN 5
1930 ZAVENTEM
Belgium

EU Contribution: €0

Croatia Control, Croatian Air Navigation Services Ltd

Address:

RUDOLFA FIZIRA 2
10410 VELIKA GORICA
Croatia

EU Contribution: €10,088

Sintef

Address:

Strindveien 4
7034 TRONDHEIM
Norway

Organisation Website:

<http://www.sintef.no>

EU Contribution: €105,586

Deutsches Zentrum Fr Luft Und Raumfahrt E.v

Address:

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

EU Contribution: €424,879

Thales Avs France Sas**Address:**

75-77 Avenue Marcel Dassault
33700 Merignac
France

EU Contribution: €1,254,680

Frequentis Ag**Address:**

Innovationsstrasse 1
1100 WIEN
Austria

Organisation Website:

<http://www.frequentis.com>

EU Contribution: €748,604

Indra**Address:**

Avenida de Bruselas, 35
Alcobendas Madrid
Spain

Organisation Website:

<http://www.indra.es>

EU Contribution: €2,374,539

Thales Las France Sas**Address:**

Avenue Charles Lindbergh 3
94150 Rungis
France

EU Contribution: €2,236,366

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: €177,020

Dassault Aviation**Address:**

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

Organisation Website:

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

EU Contribution: €218,946

Letove PrevadzkoVe Sluzby Slovenskej Republiky, Statny Podnik

Address:

IVANSKA CESTA 93
823 07 BRATISLAVA
Slovakia

EU Contribution: €248,231

Udaras Eitliochta Na Heireann The Irish Aviation Authority

Address:

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

EU Contribution: €54,698

Naviair

Address:

NAVIAIR ALLE 1
2770 KASTRUP
Denmark

EU Contribution: €115,170

Luftfartsverket

Address:

HOSPITALSGATAN 30
602 27 NORRKOPING
Sweden

Organisation Website:

<http://www.lfv.se>

EU Contribution: €0

Dfs Deutsche Flugsicherung GmbH

Address:

Am DFS-Campus 10
63225 LANGEN
Germany

Organisation Website:

<http://www.dfs.de>

EU Contribution: €358,306

Airtel Atn Limited

Address:

The Forum, Glashule Road 29

N/A

Glashule

Ireland

Organisation Website:

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

EU Contribution: €383,091

Technologies:

Aircraft operations and safety

Air Traffic Flow and Capacity Management (ATFCM) decision support tool

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