

PROJECT

CORUS

Concept of Operations for EuROpean UTM Systems

Funding: European (Horizon 2020)

Duration: Sep 2017 - Nov 2019

Status: Complete

Total project cost: €2,003,651

EU contribution: €800,000



Call for proposal: H2020-SESAR-2016-1

[CORDIS RCN : 211096](#)

Objectives:

The drone business sector is growing rapidly, but in Europe today is held back by the absence of a harmonized approach for the integration of drones into Very Low Level (VLL) airspace. The CORUS (Concept of Operation for EuROpean UTM Systems) project gathers experts from aviation (manned and drone), research and academia to develop a reference Concept of Operations (CONOPS) for UTM (UAS Traffic Management) in VLL airspace in Europe.

Building on the state-of-the-art, CORUS will develop an operational concept enabling safe interaction between all airspace users in VLL considering contingencies and societal issues. Specifically CORUS will:

1. Establish a CONOPS for nominal situations, developing use cases for major scenarios
2. Address drone operations in the vicinity of airfields and controlled airspace and for transfer between controlled and non-controlled airspaces.
3. Describe how losses of safety in non-nominal drone situations can be minimized.
4. Examine non-aviation aspects, identifying key issues for society and offering solutions to ease social acceptance
5. Identify necessary technical developments, quantifying the level of safety and performance required

The broad acceptance of the CORUS CONOPS is paramount. To this end CORUS will establish a “UTM community Network” drawing on a wide range of stakeholders, to guide and review the development through a series of workshops. A subset of the “UTM community Network” will form an Advisory Board to review draft documents and answer questions. Through these bodies coordination with other ongoing research and rulemaking initiatives from the European Commission, EUROCAE, EASA, JARUS and NASA’s UTM research project will be ensured, as well as the regular interaction with the Work Area 2 projects of the same Call.

Comprehensive communication and dissemination activities will be implemented to ensure the widest possible outreach of the project outcomes throughout the project’s life.

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:

Eurocontrol - European Organisation For The Safety Of Air Navigation

Address:

Rue De La Fusée 96
1130 Bruxelles

Belgium

EU Contribution: €0

Partner Organisations:

Unifly

Address:

LUCHTHAVENL 7A UNIT 6 AIRPORT BUSINESS CENTER
2100 ANTWERPEN DEURNE
Belgium

EU Contribution: €170,000

Hemav Technology SI

Address:

CALLE CARLOS TRIAS BERTRAN 4 1A PLANTA
28020 MADRID
Spain

EU Contribution: €50,500

Direction De La Navigation Aérienne

Address:

50, rue Henry Farman
75720 PARIS
France

Organisation Website:

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

EU Contribution: €105,000

Enav

Address:

VIA SALARIA, 16
138 ROME
Italy

Organisation Website:

<http://www.enav.it>

EU Contribution: €105,000

Deutsches Zentrum Fr Luft Und Raumfahrt E.v

Address:

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

EU Contribution: €89,500

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: €105,000

Universitat Politecnica De Catalunya

Address:

Calle Jordi Girona 31
8034 Barcelona
Spain

Organisation Website:

<http://www.upc.edu>

EU Contribution: €70,000

Dfs Deutsche Flugsicherung GmbH

Address:

Am DFS-Campus 10
63225 LANGEN
Germany

Organisation Website:

<http://www.dfs.de>

EU Contribution: €105,000

Technologies:

Unclassified
Non-technology

Development phase: Research/Invention

STRIA Roadmaps:

Cooperative, connected and automated transport, Network and traffic management systems, Smart mobility and services

Transport mode: Air transport

Transport sectors: Freight transport

Transport policies: Other specified

Geo-spatial type: Other