PROJECT

PODIUM

Proving Operations of Drones with Initial UTM Management

Funding: European (Horizon 2020)

Duration: Jan 2018 - Dec 2019

Status: Complete

Total project cost: €3,199,900

EU contribution: €1,395,649

Call for proposal: H2020-SESAR-2016-2

CORDIS RCN : 213198

Objectives:

The PODIUM project comprises four complementary, large scale demonstrations, taking place in Denmark, France and the Netherlands where more than 185 drone flights will be conducted. Its partners' quick wins integrated UTM solution will be demonstrated in a broad range of realistic operational conditions of drone operations (VLOS and BVLOS) in VLL airspace (controlled & uncontrolled airspace; urban, rural and in the vicinity of airports) interacting with manned traffic. Each of its four sites has its own specificities (e.g. routine day to day operations, emphasis on UTM/ATM communication, normal/abnormal conditions).

The demonstrations will notably enable its safe and secure use by various categories of users (e.g. authorities, drone operations, drone pilots) and for many types of drone operations (e.g. electricity line inspection, emergency services). Together the four site demonstrations ensure a comprehensive and extensive demonstration of the full potential and technology readiness level of the PODIUM UTM functionalities (from Before-flight to Post-flight with a special focus on in-flight dynamic geo-fencing). PODIUM is a U-Space compliant demonstration.

Under EUROCONTROL leadership, PODIUM consortium comprises 10 members, 17 linked third parties and 4 sub-contractors, including many in-kind contributions. By bringing together drone actors (UTM provider, drone operators, drone trackers manufacturers), ATM actors (ANSPs, ATM system integrator & others) and infrastructure providers (drone demonstrations centers, telecommunication network) supported by their local authorities in its Advisory Board, PODIUM project will naturally improve the links between the drone and the ATM communities. This will therefore contribute to a safer integration of drone operation in the European airspace and maximise the outreach of the project at regulatory and standardisation levels.

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: €265,881

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: €270,831

Direction De La Navigation Aérienne

Address:
50, rue Henry Farman
75720 PARIS
France

Organisation Website:
http://www.aviation-civile.gouv.fr

EU Contribution: €135,625

Orange Belgium

Address:
AVENUE DU BOURGET 3
1140 BRUXELLES
Belgium

EU Contribution: €63,175

Drones Paris Region

Address:
EX RESEDA BASE AERIENNE 217
91220 BRETIGNY SUR ORGE
France

EU Contribution: €201,412

Airbus Defence And Space Sas

Address:
51-61 Route De Verneuil
78130 Les Mureaux
France

EU Contribution: €177,536

Delair-Tech

Address:
676 RUE MAX PLANCK
31670 LABEGE
France

EU Contribution: €29,566

Naviair

Address:
NAVIAIR ALLE 1
2770 KASTRUP
Denmark

EU Contribution: €69,624

Integra A/s

Address:
Troroedvej 63B
2950 VEDBAEK
Denmark

EU Contribution: €182,000

Technologies:

Aircraft operations and safety
Drone traffic management system

Development phase: Demonstration/prototyping/Pilot Production

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

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Safety/Security

Geo-spatial type: Other