DRONES RESEARCH AND INNOVATION

58
Beneficiaries

16
EU Member States

€38.4 million
Total budget by the end of 2020

With a growing Horizon 2020 (H2020) portfolio of projects, INEA is supporting research and innovation to develop new drone technologies, as well as to recommend global standards for the mass market deployment of drones in Europe.

The H2020 projects supported by INEA are set to make a major contribution to the development of U-space[1], as well as feed the CEF supported SESAR Joint Undertaking demonstrators. Fostering this synergy will contribute to maximising returns from research and deployment as well as help the drone sector to develop technologies with an positive societal impact.

> **2 ONGOING PROJECTS**
> **AW-DRONES** - Airworthiness of mass market drones, providing inputs to U-space (€2.6 million)
>
> **MONIFLY** - Mobile Network Infrastructure for cooperative surveillance of low flying drones (€2 million)

> **4 NEW PROJECTS SOON to be launched**
> Innovative applications of drones for further increasing safety in all transport modes.

> **2 H2020 open calls for proposals on Urban Air Mobility (deadline 21 April 2020)**
>
> **MG-3-6-2020**: Towards sustainable Urban Air Mobility (RIA) - €15 million
>
> **MG-1-12-2020**: Prepare for the deployment of Urban Air Mobility in urban and peri-urban areas (CSA) - €4 million

[1] U-space is a set of new services and specific procedures designed to support safe, efficient and secure access to airspace for large numbers of drones.

INEA

Making implementation happen

The Innovation and Networks Executive Agency (INEA) works in partnership with the European Commission to turn policy into action. Since 2014, the Agency provides technical expertise and high quality programme implementation for infrastructure, research and innovation projects in the fields of transport, energy and telecommunications.

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in INEA

SCAN ME

European Commission

Implementation of the Single European Sky and research and innovation on drones

EU supported actions

Innovation and Networks Executive Agency

CONNECTING EUROPE FACILITY

The Innovation and Networks Executive Agency (INEA) is managing an increasing portfolio of Connecting Europe Facility (CEF) actions related to Air Traffic Management (ATM) / SESAR implemented by a wide range of aviation stakeholders in order to make the Single European Sky happen.

Currently, there are 68 Actions in INEA's ATM portfolio, divided in Common Projects and Other Projects, as well as one Blending Action.

€1.6 BILLION CEF SUPPORT TO ATM

60 OTHER PROJECTS

COMMON PROJECTS **7**

1 BLENDING COMMON PROJECT (combining CEF grant with bank loan)
€11 MILLION CEF SUPPORT
IMPLEMENTED BY ENAIRE AND THE SESAR DEPLOYMENT MANAGER

> The deployment of Voice over IP communication at Barcelona Area Control Centre will provide a higher airspace structure availability and a more dynamic configuration capability, which are facilitators for Free Route operations.

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7 COMMON PROJECTS
€1.3 BILLION CEF SUPPORT
COORDINATED BY THE SESAR DEPLOYMENT MANAGER DEPLOYING ATM FUNCTIONALITIES (AF) OF THE PILOT COMMON PROJECT

28 EU Member States

5 Third Countries

94 Implementing Partners

348 IMPLEMENTATION PROJECTS covering

> AF1 – Arrival / departure management

> AF2 – Integration of Airports into the ATM Network

> AF3 – Air Space Management & Free Route

> AF4 – Collaborative Management of ATM Network

> AF5 – System Wide Information Management

> AF6 – Initial Trajectory Information Sharing

11 MET Service Providers

1 SESAR Deployment Manager

12 Industry Providers

11 Airspace users

19 Airports

6 Military authorities

34 Air Navigation Service Providers

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60 OTHER PROJECTS
€289 MILLION CEF SUPPORT
NEW TECHNOLOGIES, BEST PRACTICES FOR INTEROPERABLE AND HARMONISED ATM, AIR NAVIGATION SERVICES AND AIRCRAFT OPERATIONS

2 Third Countries

24 EU Member States

51 Implementing Partners

FOCUS

> Airport-Collaborative Decision Making (A-CDM) – Initial Airport Operational Plan (iAOP)

> Performance Based Navigation (PBN)

> Remote towers

> Communication, Navigation, Surveillance systems / radars

> Automatic –Dependent Surveillance Broadcast (A-DSB)

> Voice channels spacing / harmonised frequency use (8.33 kHz)

> GBAS, SBAS, EGNOS, GNSS

> Civil-military cooperation

6 Industry Providers

9 Airspace users

2 MET Service Providers

3 Military authorities

19 Air Navigation Service Providers

12 Airports