USPACE4UAM
URBAN AIR MOBILITY IN EUROPE

Project Execution: 2021 – 2022

SUPPORTED BY SESAR JOINT UNDERTAKING

This very large scale demonstration project will bridge the gap between development and deployment for U-space capabilities and services that will enable a safe introduction of urban air mobility in Europe (UAM).

FOCUS AREAS

Concept of operations: UAM concept of operations (CONOPS) tested in real environment, aligned with multiple ANSPs and airports.

Technology: Demonstrate U-space U4 level automation and autonomy technologies enabling a safe integration of UAM traffic.

Regulation and standards: Validate operational, performance, safety and interoperability requirements to accelerate regulation development.

Business enablers: Define business case for stakeholders. Determine return-on-investment (ROI) models for piloted and autonomous operations. Determine level to which operations will be socially accepted.

MEASURES TO SUCCEED

Perform up to **215** real life UAV and UAM demonstration flights in U-space and controlled airspace.

Deploy at least **4** real life autonomous operational drone services in European Smart Cities.

Receive **100%** Advisory Board confirmation for solutions that address the gaps limiting automated and autonomous operations of passenger air-taxi services.

Engage in **INTERNATIONAL** standardisation working groups to develop MOPS/MASPS.

TEAM (BOTH CONSORTIUM AND ADVISORY BOARD)

10+
INTERNATIONAL FORWARD-LOOKING SMARTCITIES & AIRPORTS

4
RESEARCH CENTERS
CATEC / CRIDA / DLR / TECNALIA

4
NATIONAL REGULATORS + EASA*
Austria / Czech Republic / Spain/ Poland*

5
AIR NAVIGATION SERVICE PROVIDERS
Austro Control / ANS CR / ENAIRE / EANS* / PANSA*

2
UAV MANUFACTURERS
UpVision / Dronehub

1
EXPERIENCED UTM PROVIDER
Altitude Angel

5
UAM MANUFACTURERS
Vertical / Tecnalia / Lilium / Pipistrel* / Volocopter*

3
LEADING TECHNOLOGY PROVIDERS
Honeywell Aerospace / Frequentis* / Vodafone*

* Advisory Board Members

Supported by

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