USPACE4UAM
URBAN AIR MOBILITY IN EUROPE
Project Execution: 2021 – 2022

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* / PANS*
- 5 UAM MANUFACTURERS
  - Vertical / Tecnalia / Lilium / Pipistrel* / Volocopter*
- 2 UAV MANUFACTURERS
  - UpVision / Dronehub
- 1 EXPERIENCED UTM PROVIDER
  - Altitude Angel
- 3 LEADING TECHNOLOGY PROVIDERS
  - Honeywell Aerospace / Frequentis* / Vodafone*

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* Advisory Board Members