

U-ELCOME

Catalonia Site
U-space

OPEN DEMONSTRATION AND DISSEMINATION DAYS

8th - 10th April 2025
Lleida-Alguaire Airport



This project has received funding from European Climate, Infrastructure and Environment Executive Agency (CINEA) under grant agreement No. 101079171.



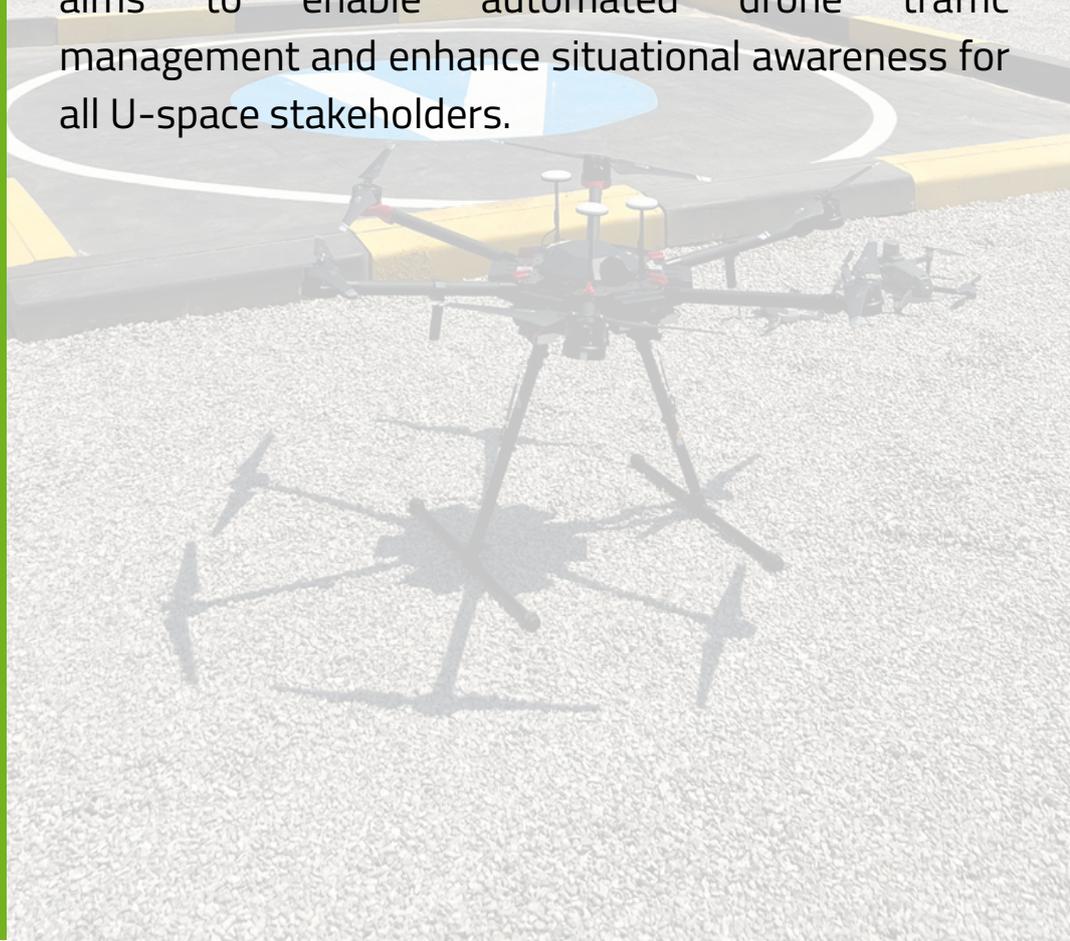
CATALAN SITE

The Catalan Site, working in close cooperation with ENAIRE, Eurocontrol, and other international and national authorities and organizations, has focused its efforts on developing high-intensity drone-based logistical operations and their integration with airports and security (non-EASA) operations. The site's objective is to support the standardization and regulatory requirements of the proposed U-space services, thereby accelerating the deployment of U1 and U2 services and advancing U-space operations.

U-ELCOMÉ

The U-ELCOMÉ project aims to achieve the fully scalable market adoption of U1 and U2 U-space services through a series of tests and demonstrations in various operational environments and European locations. To accomplish this, U-ELCOMÉ develops, tests, and demonstrates U-space system deployments across 15 regional sites in Spain, Italy, and France.

By combining digital and physical infrastructure capabilities, U-ELCOMÉ seeks to reach Technology Readiness Level 8 for U1 and U2 U-space services. The project leverages a scalable U-space architecture that facilitates information exchange and coordination among U-space Service Providers (USSPs) and the Common Information Service Provider (CISP), as well as between USSPs, CISP, and ATM, using interoperable standards. This approach aims to enable automated drone traffic management and enhance situational awareness for all U-space stakeholders.



THE EVENT

The Universitat Politècnica de Catalunya (UPC), in collaboration with Aeroports de Catalunya and the Universitat Autònoma de Barcelona, announces the organization of the Catalan Site's final Open Demonstration and Dissemination Day for the Digital Sky Demonstrator U-ELCOMÉ (U-space European COMMon dEpLoyment) project. The event will be held at Lleida Alguaire Airport from April 8th to 10th.

The highlight of the event will be the Open Dissemination Day on April 9th at Lleida Alguaire Airport, where attendees will receive an introduction to the U-ELCOMÉ project and the Catalan Site's activities and achievements. Several demonstration flights will be conducted, focusing on the development of logistical operations through multiple corridors converging at the airport. Additionally, emergency area activation and airspace reconfiguration will take place as part of an intensive flight operations plan.

The Open Demonstration will extend beyond the Open Day, offering first-hand observation of high-intensity operations. On April 8th, the focus will be on continuous logistical operations through predefined corridors, flight levels, and a diverse set of vehicles. On April 10th, the emphasis will shift to validating conformance services, advanced tactical services for conformance monitoring, and providing information on both manned and unmanned traffic.

The April 9th Open Dissemination Day will follow a predefined schedule, while attendance from April 8th to 10th will be open. Participants can visit the vertiport from which operations will be conducted and the U-space tracking location set up at the airport.

PARTICIPANT DRONE OPERATORS



SCHEDULE 9th APRIL

10:00 Welcome to visitors

10:30 Introduction to the U-ELCOME project

10:50 USSP-CISP System and Operation Description

11:30 Drone operator USSP access mechanisms

11:45 Demonstration through operation

A sequence of flights will be carried out which would be followed real-time by the audience. Further description and discussions would accord as the operations are carried out.

13:00 On site lunch

14:30 Airspace reconfiguration, emergency area definition and drone operator interface

15:00 Demonstration through operation

A sequence of flights will be carried out which would be affected by an airspace reconfiguration. Audience would be able to follow in real time. Further description and discussions would accord as the operations are carried out.

16:15 Preliminary results and conclusions

17:00 Future work and goodbye

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HOW TO ARRIVE

The Lleida-Alguaire Airport is located 15 km from Lleida. It is situated at a key point in the northeast of the Iberian Peninsula, where a network of infrastructures connects the airport with major tourist and industrial hubs. The high-speed train significantly reduces travel time between Lleida and Barcelona, Zaragoza, and Madrid. The combination of air travel and high-speed rail offers passengers a fast, comfortable, and efficient transportation system, allowing them to cover long distances in a very short time.

TAXI

There are two taxi licenses giving service to the airport. The contact information is:

- License 1: 8 seats / +34 699 432 432
- License 3: 7 seats + 1 reduced mobility seat / +34 639 335 130

CAR

The airport has got a free parking lot in front of it. The airport address is Carretera de l'Aeroport, s/n, 25125 Alguaire, Lleida.

