

U-ELCOME

Ensuring routine commercial drone
operations in Europe by 2026

Q&A



U-ELCOME - From Regulation to Implementation: The Italian U-space Experience

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DSDs Final Event – EUROCONTROL HQ
Brussels 23rd October 2025

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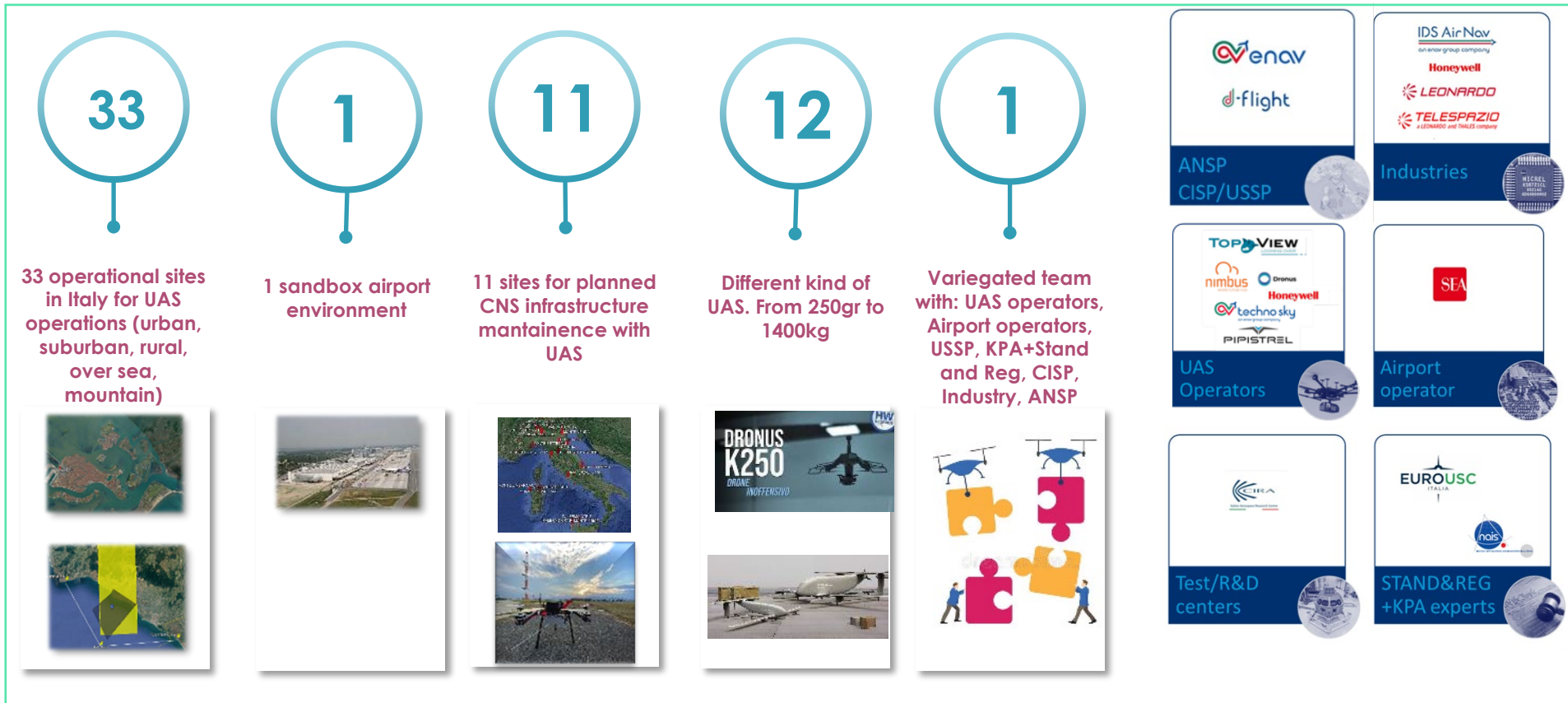
Co-funded by the
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Linked in



The Italian Cluster: Who we are



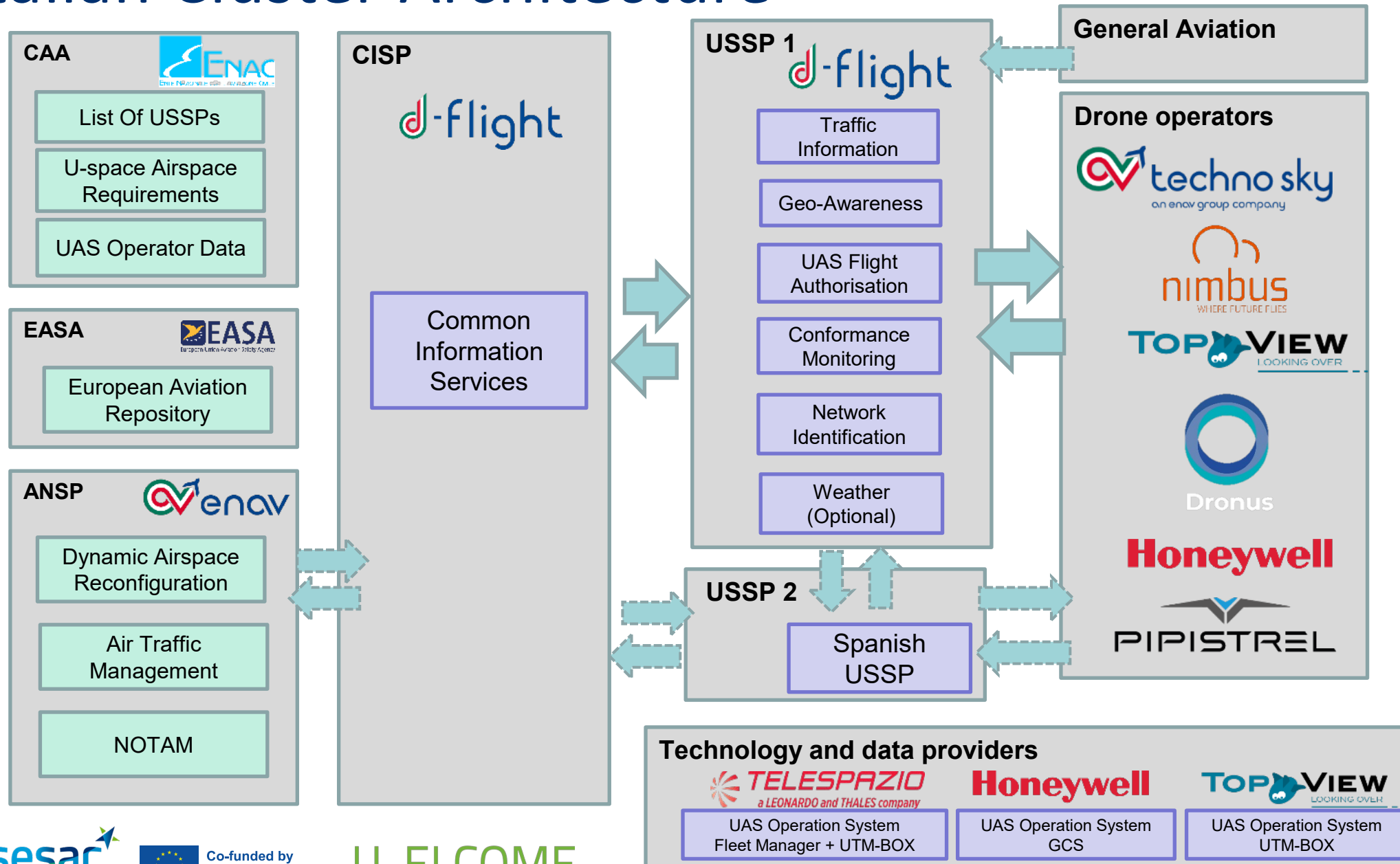
Italian CAA

• ENAC

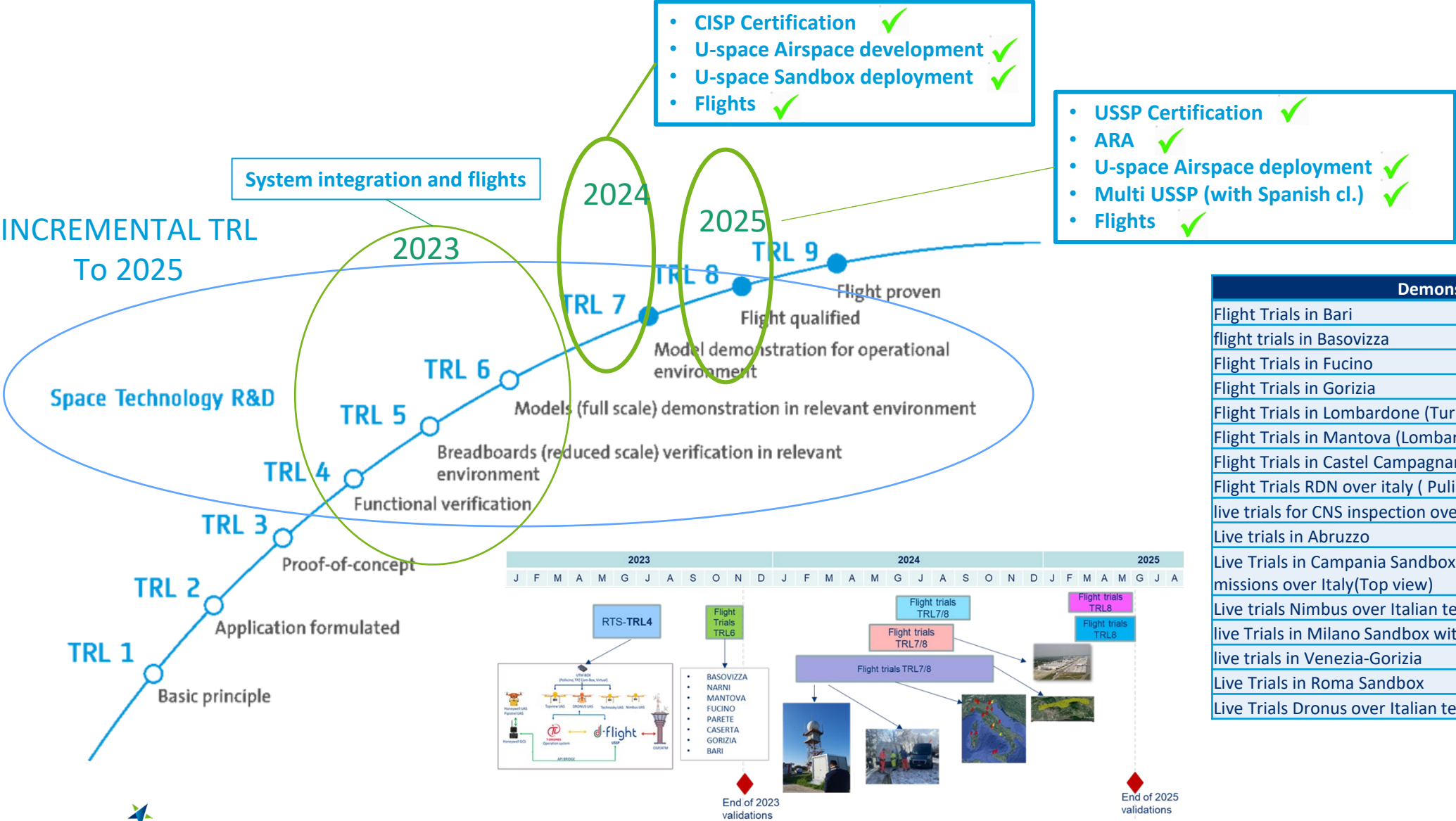
External stakeholders

- Municipalities
- Other UAS operators
- Hospitals
- Logistic operators
- Wine producers
- Farmers

Italian Cluster Architecture



Validation path



Demonstrations
Flight Trials in Bari
flight trials in Basovizza
Flight Trials in Fucino
Flight Trials in Gorizia
Flight Trials in Lombardone (Turin)
Flight Trials in Mantova (Lombardia Region north of Italy)
Flight Trials in Castel Campagnano
Flight Trials RDN over Italy (Pulia , Emilia Romagna , Lazio)
live trials for CNS inspection over Italy
Live trials in Abruzzo
Live Trials in Campania Sandbox with Single USSP + other missions over Italy(Top view)
Live trials Nimbus over Italian territory
live Trials in Milano Sandbox with Single USSP
live trials in Venezia-Gorizia
Live Trials in Roma Sandbox
Live Trials Dronus over Italian territory

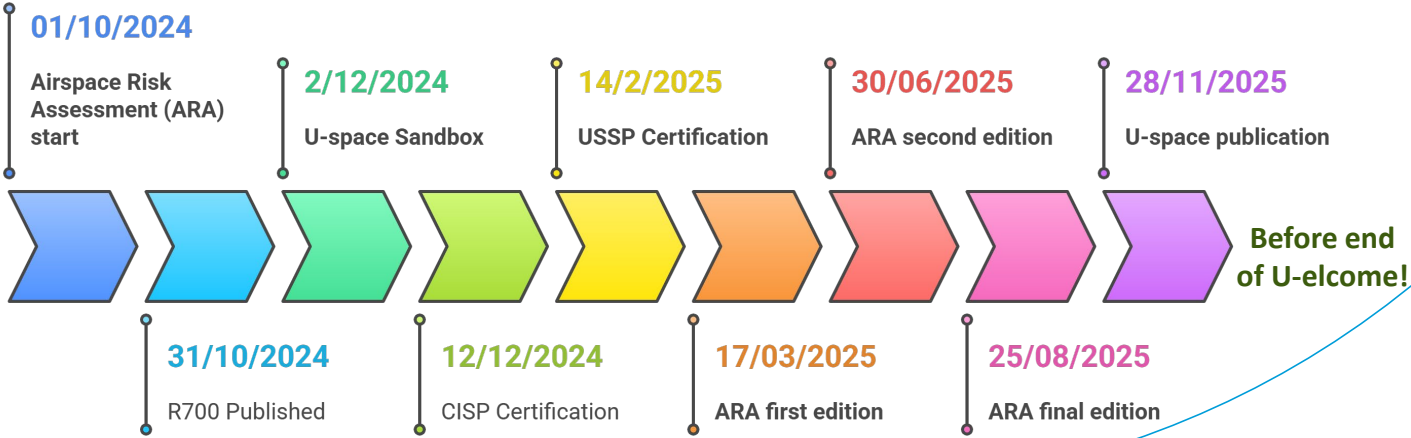
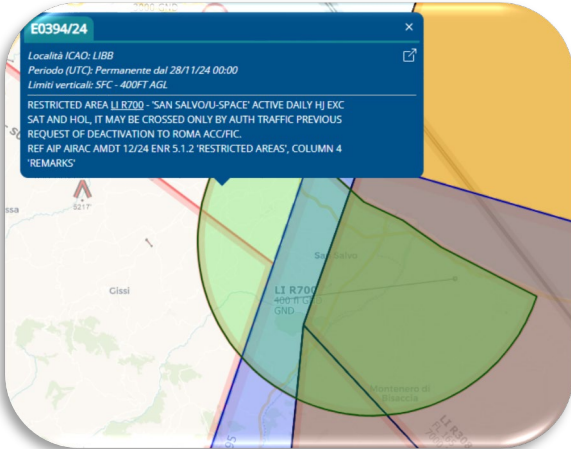
U-space in Italy



D-Flight Certified as CISP by ENAC –Italian CAA (First in Europe) Dec 2024

D-Flight Certified as USSP by ENAC-Italian CAA (First in Europe) Feb 2025

First U-space airspace in Italy/Europe- San Salvo

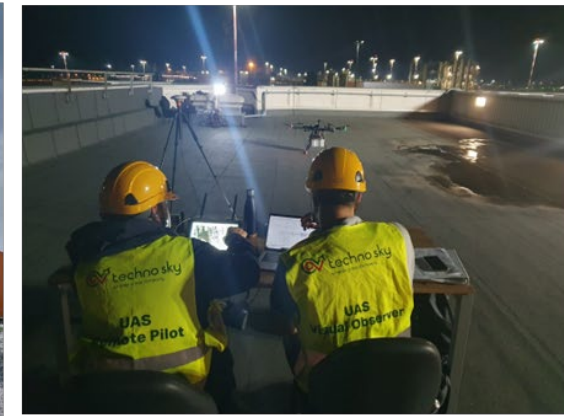
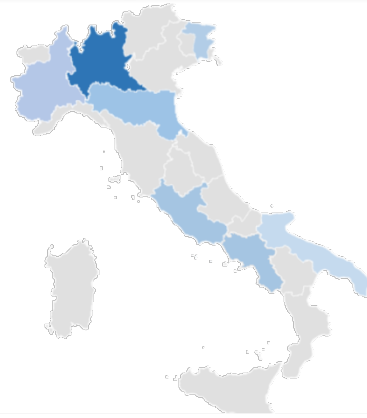


Demonstrations executed



2023-2024-2025 flight campaign			
Number of Flights	VLOS	BVLOLS	Tot min. of flight
230	177	53	2200

- 7 regions involved
- 33 locations involved



Example of operations



ATM CNS infrastructure inspection in Italy



Runway inspection



SAR exercise campaign on Italian territory



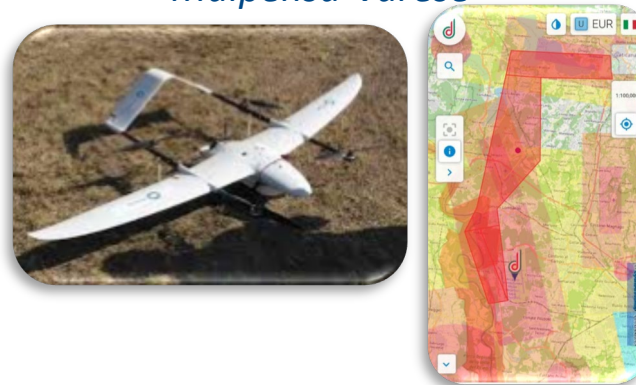
BVLOS cargo operation in Malpensa airport environment



Precision agriculture



Medical parcel delivery in Malpensa-Varese



Solar farm Inspection



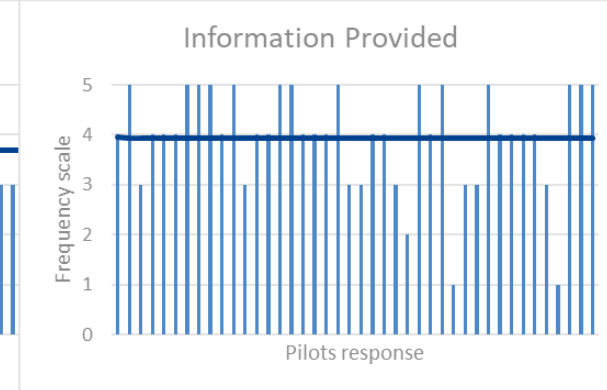
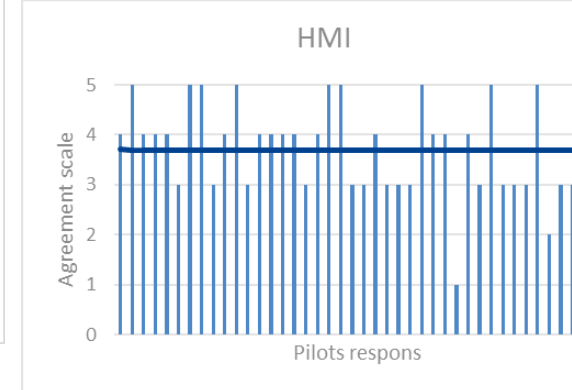
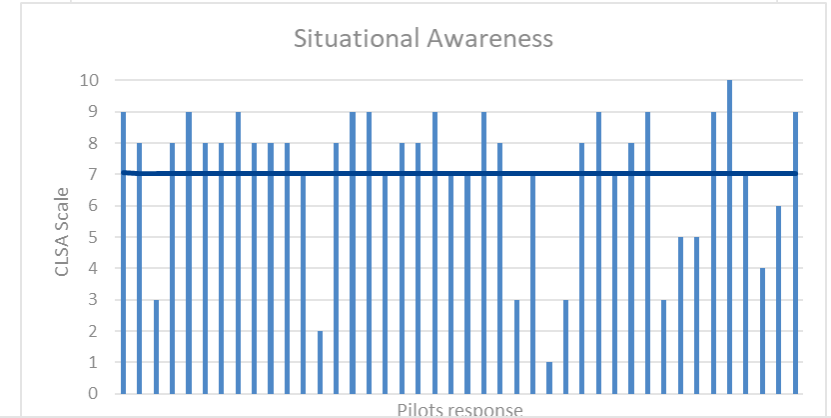
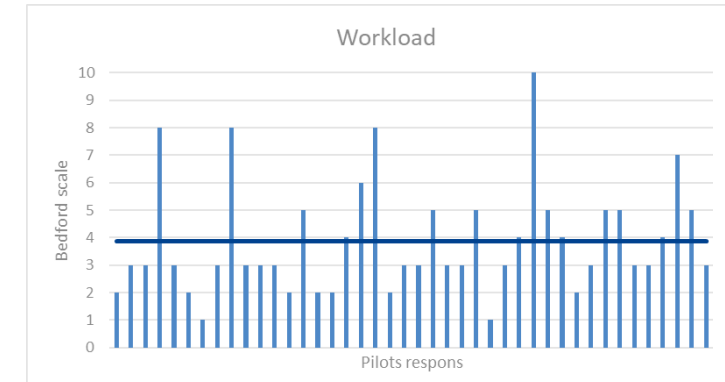
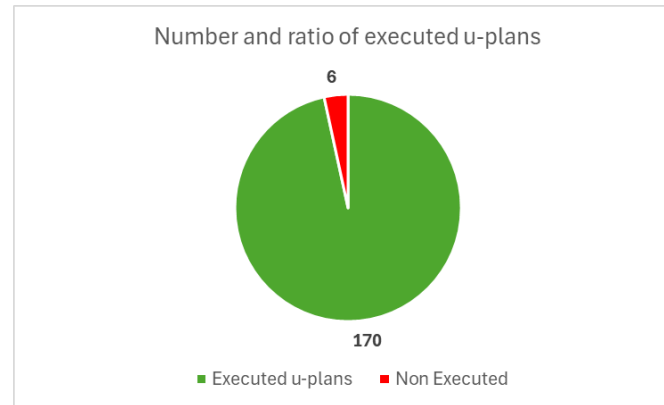
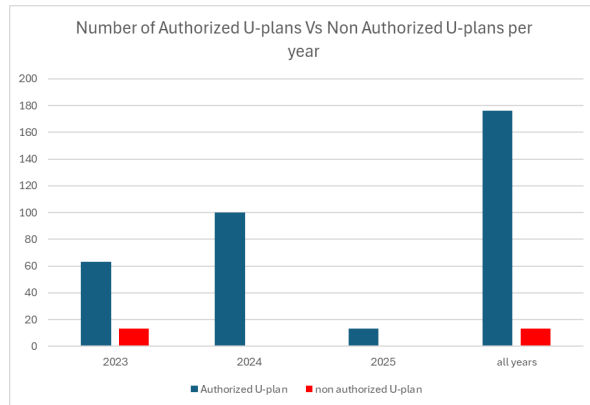
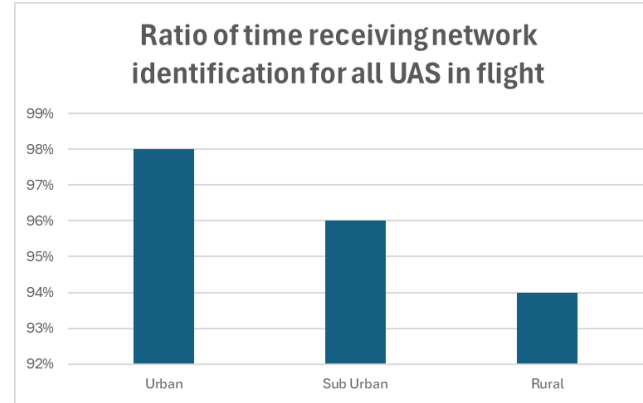
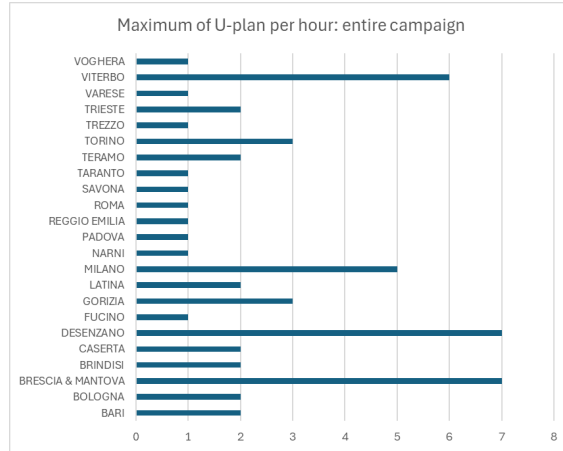
NUUVA





Results: many data!

Source: USSP, CISP platforms, UTM box + GCS, questioners and interviews



Medical parcel delivery in airport environment



Precision agriculture



Multi USSP ITA+ESP (in Italy)



U-space Tech environment



Platforms:

- d-USS; Daliah
- d-CIS.

Techs:

- UTM Box from TopView;
- GCS from Honeywell;
- T-dromes from Telespazio.

U-space services:

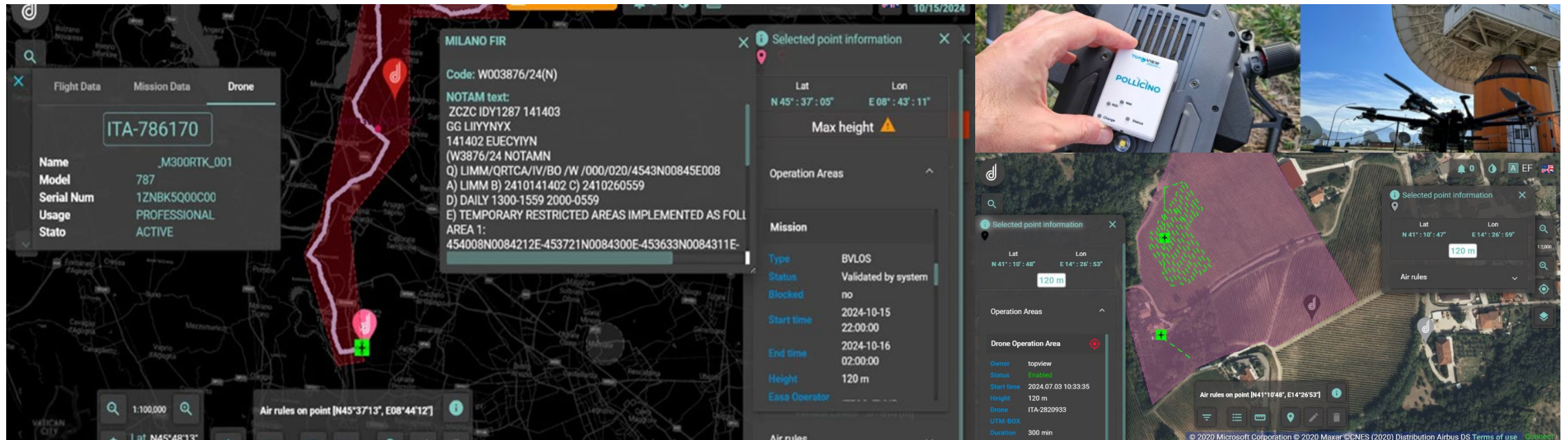
- Geo-awareness;
- Flight Authorization;
- Network Identification;
- Traffic Information;
- Conformance Monitoring.

Additional service:

- IAM Coordination Center.

Validation and Demo: Key Elements 1/4

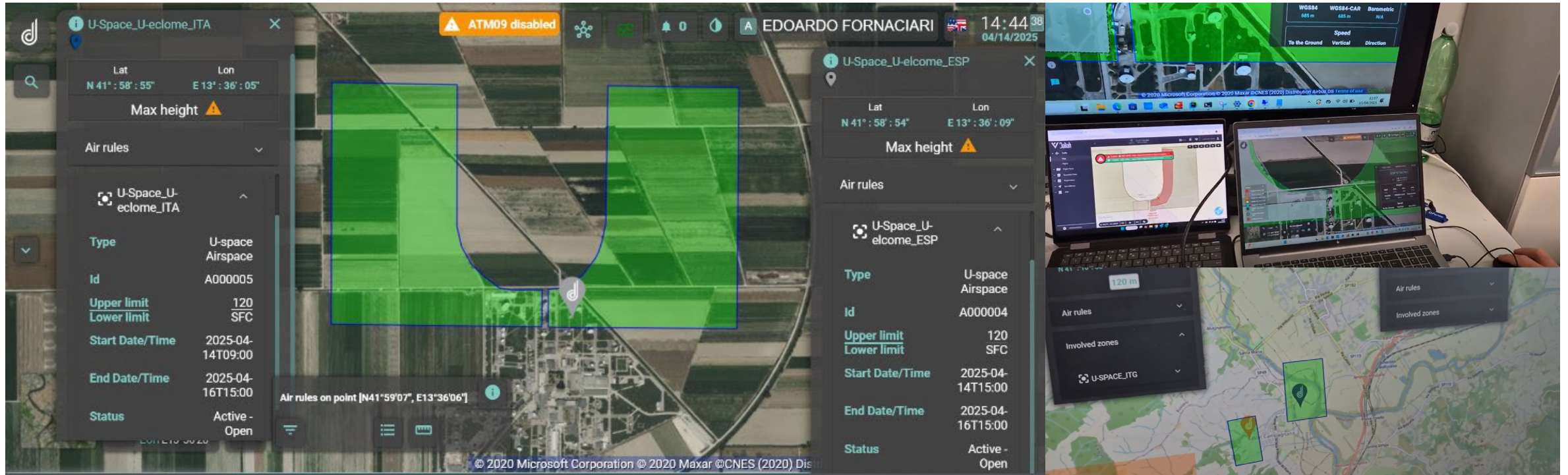
U-ELCOMME - U-space services



- The **Geoawareness** provides static and dynamic geographical information to all authorized UAS operators.
- The **Flight Authorization** Manages the submission, evaluation, and approval of flight requests, issuing digital authorizations for missions to be conducted in U-space airspace.
- The **Network ID** service allows the user to **share their position** with d-flight with different Technologies (e.g. UTM Box, ICD)
- The **Traffic Information** service provides relevant traffic data (both manned and unmanned) to UAS operators
- **Conformance Monitoring** provides real-time alerting of non-conformance with the granted flight authorization.

Validation and Demo: Key Elements 2/4

U-ELCOMÉ – Single CISP with multiple USSPs



- Two different U-space airspace managed by different USSPs from different nationalities: d-USS (ITA), Daliah (ESP)
- Exchange of NIS among USSPs

Validation and Demo: Key Elements 3/4

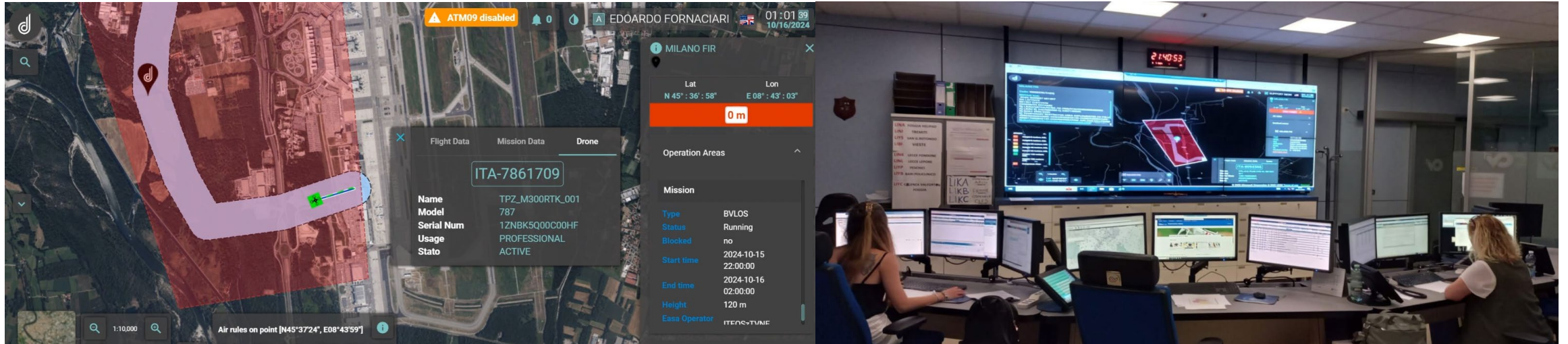
U-ELCOMe - Integration of U-space services via GCS/Fleet Management



Direct integration of d-USS with Honeywell Ground Control Station. Geoawareness, Network Identification and Flight Authorization services were integrated during the NUUVA Flight Test. Integration with the T-dromes platform for receiving UAS tracks in d-USS.

Validation and Demo: Key Elements 4/4

U-ELCOMME - Coordination with Air Traffic Services Unit



The **IAM Coordination Center** is responsible for coordinating dialogue between UAS operations and Air Traffic services.

When needed the Interface between ATS units and UAS operators is activated

U-ELCOME

Q&A



Thank you!



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