29-30 Οκτώβριος 2026 | Συνεδριακό Κέντρο Φιλοξενία Λευκωσία, Κύπρος

8ο Συνέδριο
Βιώσιμης Κινητικότητας και Ευφυών Συστημάτων Μεταφορών

EUSOME

Transforming Advanced Air Mobility in the Southeast Mediterranean

An Excellence Hub for Advanced Air Mobility

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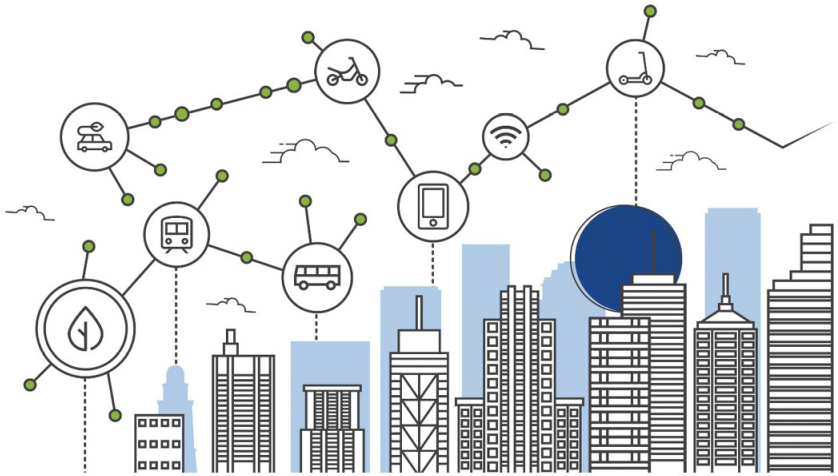
University of Cyprus



Horizon Europe
Grant Agreement No. 101187121

Το Συνέδριο υλοποιείται στο πλαίσιο του Προγράμματος Πολιτικής Συνοχής «ΘΑΛΕΙΑ 2021-2027» με τη συγχρηματοδότηση της ΕΕ.

Με τη συγχρηματοδότηση της Ευρωπαϊκής Ένωσης

ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ

ΤΜΗΜΑ ΔΗΜΟΣΙΩΝ ΕΡΓΩΝ

A new layer of mobility

A new mobility layer

Connecting people and goods

VTOL and digital technologies

Quieter, simpler and cheaper to build than conventional helicopters

Complementing existing networks

Aerial services alongside road transport



Passenger connections



Emergency response





Cargo and medical deliveries

The sky as part of everyday mobility

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But flying is only the beginning

Infrastructure	Where will aircraft operate?
Sensing	What is flying around us?
Coordination	How do we share the sky?
Regulations	Who can fly, where and when?
Public acceptance	Do people want it?

An entire ecosystem is needed for everyday AAM

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This is where EUSOME comes in

16 partners

Academia, industry, government and civil society

An AAM research and innovation ecosystem in Greece and Cyprus

Training and knowledge transfer with partners in Serbia and Poland



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The EUSOME pillars



Regulations

U-space adoption and the AAM implementation pathway

Research infrastructure

Aircraft, sensing and realistic experimentation

Research on autonomous flight

Awareness, safe guidance and airspace coordination

Training programme

Skills and knowledge transfer across the region

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U-space for denser drone operations

Designated airspace supported by digital services for drone operations

Network identification

Live location of drones and operators

Geo-awareness

Operational conditions and airspace constraints

Flight authorisation

Authorisation of the intended flight

Traffic information

Live location of nearby manned traffic

Four mandatory services under Regulation (EU) 2021/664

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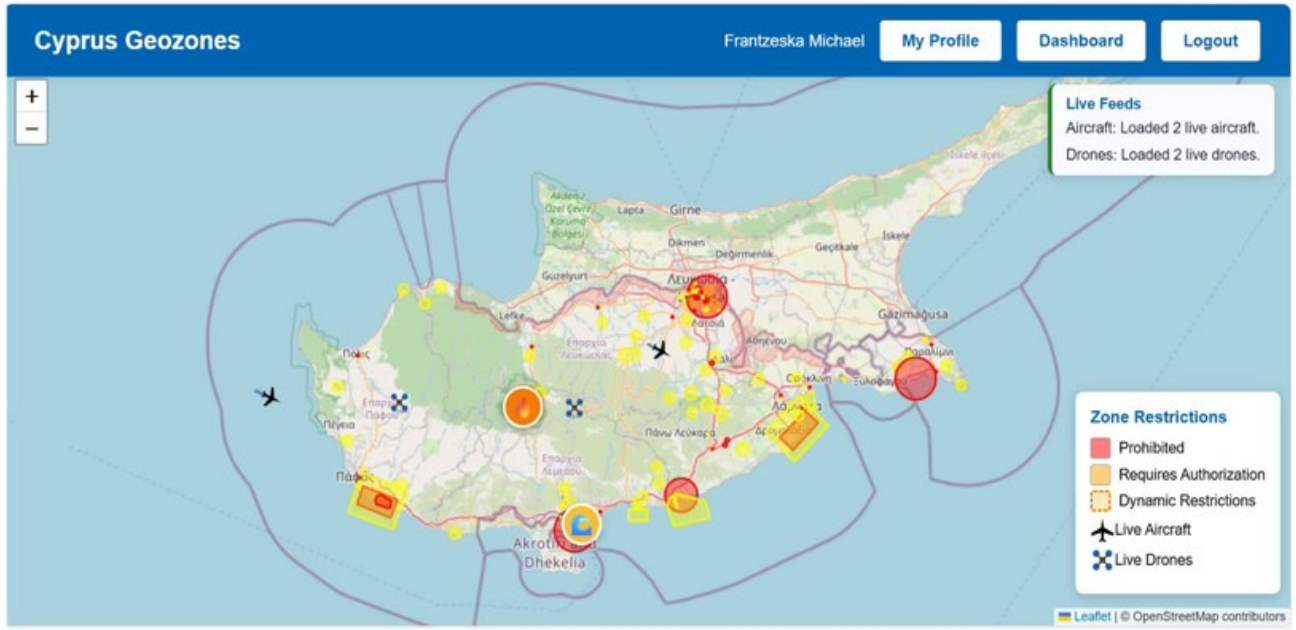
Software and a U-space adoption masterplan

Software implementation



Flight-plan tools and a live airspace view

U-space adoption masterplan

Service delivery model

Airspace risk assessment

Designation process

Stakeholder coordination

Cyprus-oriented draft
with regional transfer to Greece

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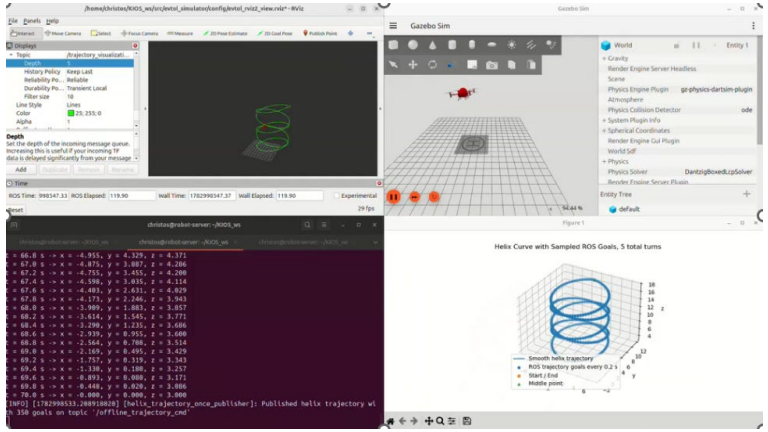
Infrastructure for AAM experimentation

Research aircraft



Physical prototypes and sensing integration

Realistic Simulator



Simulation and testing of flight algorithms

Ground testing facilities



Take-off, landing and ground experimentation

Testing new technologies before operational deployment

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Research for safe autonomous flight

Awareness	Estimating the vehicle state and sensing nearby obstacles
Guidance	Following safe paths despite uncertainty
Coordination	Planning multiple flights within shared airspace

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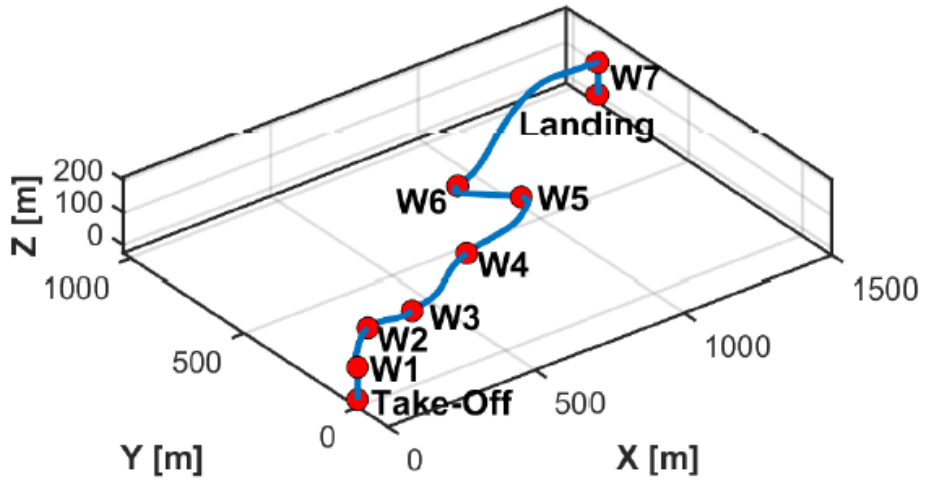
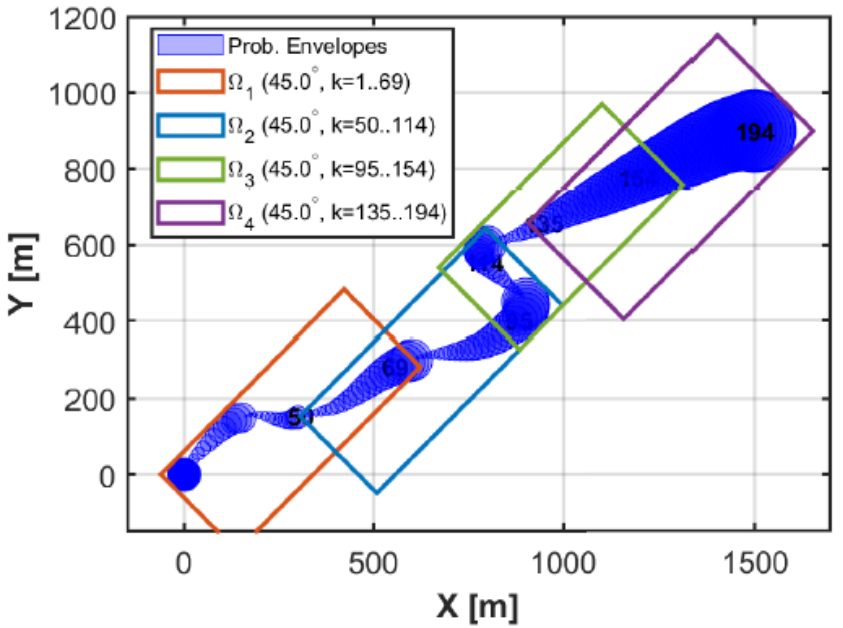
Flight authorisation and airspace capacity

Predicted motion and uncertainty define the required space-time reservation





17.3% less reserved volume in the reported long-range mission

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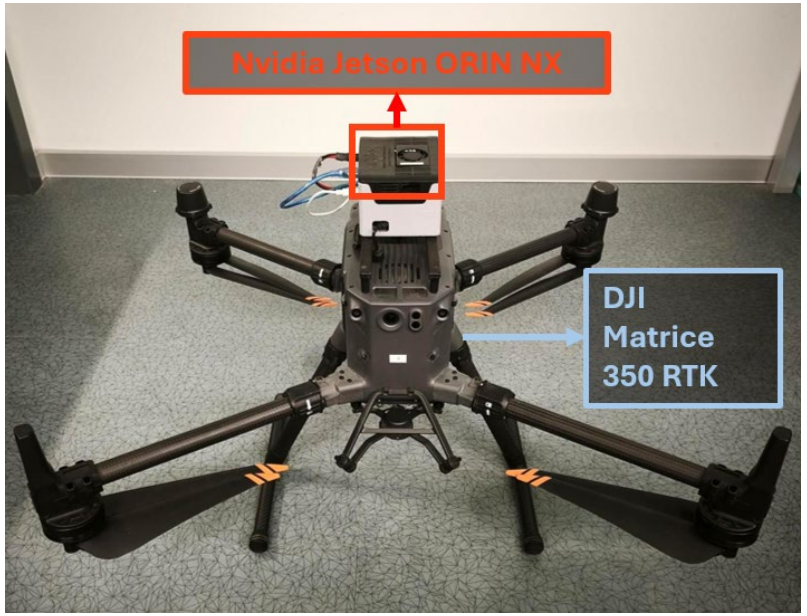
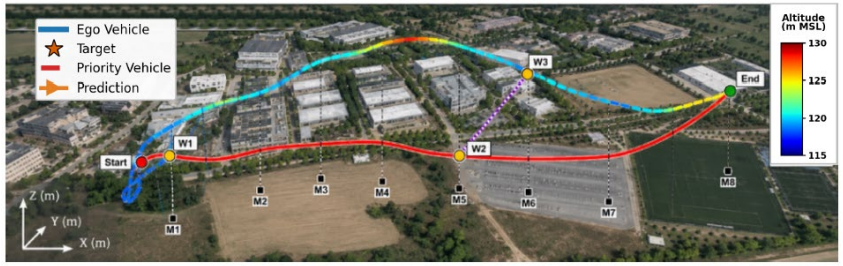
Onboard UAV deconfliction with Remote ID

Remote-ID reception, Transformer prediction and MPC run onboard

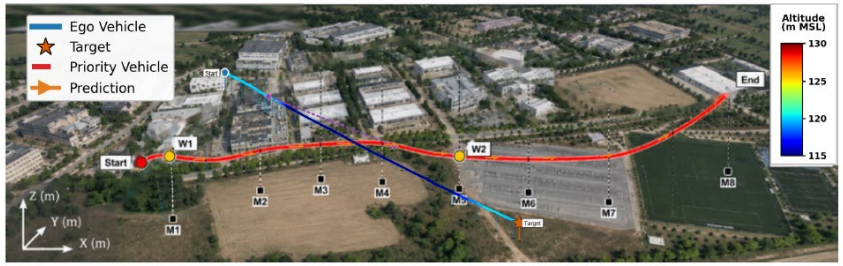
Five outdoor ego-UAV trials with an emulated priority UAV



DJI Matrice 350 RTK
Jetson Orin NX and DJI E-Port



Flight 1 (3D encounter geometries).



Flight 2 (3D encounter geometries).

14 ms overall median end-to-end processing latency

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Building the skills for AAM

Training and mentoring programme

Operations, regulation, business and research

Knowledge transfer in practice

Next: Belgrade, 19 November 2026

Training for the AAM Domain
at Institute Mihajlo Pupin



EUSOME in summary

An Excellence Hub for Advanced Air Mobility

Strengthening the AAM ecosystem in the Southeast Mediterranean

16 partners across the ecosystem

Academia, industry, government and civil society

Four connected areas of work

Regulations, research infrastructure, autonomous flight research and training

EUSOME connects these capabilities for joint experimentation with transport partners

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Thank you

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