

SESAR JU at ICAO AAM Symposium

SESAR JU is thrilled to showcase our latest advanced air mobility projects at the ICAO AAM event in Montréal from September 9-12.

As a leading hub of ATM research and innovation, SESAR JU is at the forefront of transforming the skies with groundbreaking air mobility solutions, some of which are already available for deployment.

Don't miss the chance to explore these cutting-edge innovations in person. **Visit us at stand #30 and see how we're shaping the future of aviation!**

EALU-AER

Enhanced Automation for U-Space/ATM integration

EALU-AER aims at demonstrating U-space architecture operations and the integration with ATM, leveraging world-class drone traffic management technology solutions. The project will establish Ireland's first Digital Sky Demonstrator, located at Future Mobility Campus vertiport site, in Shannon, Ireland.



Monday 9 September



www.sesarju.eu/projects/EALU-AER

OperA

Operate Anywhere

OperA aims to enable safe and efficient operations in all types of airspace (controlled, uncontrolled and U-space) and conditions by validating 3 different complex innovative air mobility - piloted air taxi and unmanned cargo - operations in real-life ATM conditions including contingency and non-nominal situations.



Monday 9 September



www.sesarju.eu/projects/OperA

AI4HyDrop

An AI-based Holistic Dynamic Framework for a safe Drone's Operations in restricted and urban areas

The project is developing a framework for incorporating various AI-based tools and associated information flows to enable future drone operations at scale. The proposed framework represents a digital step change in ATM, using AI as a means to move to more automated U-space services.



Monday 9 September



www.sesarju.eu/projects/AI4HyDrop

U-ELCOME

U-space European COMMon dEpLoyment

U-ELCOME project is helping get Europe-wide U-space implementation off the ground by fostering a fully scalable market uptake of U1 and U2 U-space services through a set of tests and demonstrations in various operational environments across 15 locations in Spain, Italy, and France.



Tuesday 10 September



www.sesarju.eu/projects/U-ELCOME

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SPATIO

U-Space Separation Management

As larger numbers of unmanned aerial systems (UAS) take to the skies, separation management becomes more important to avoid mid-air collisions. SPATIO aims to address separation between unmanned air vehicles, in particular, strategic and tactical conflict resolution services and the relationship between separation and capacity in U-space airspace.



Tuesday 10 September



www.sesarju.eu/projects/SPATIO

BURDI

BeNe U-space Reference Design Implementation

BURDI project aims to implement a fully reliable, sustainable and safe solution for UAS integration in a U-space airspaces implementation. Indeed, by implementing reliable and efficient U-space services, we should enhance a safe and sustainable integration of multiple and complex unmanned aircraft systems missions in the same area.



Wednesday 11 September



www.sesarju.eu/projects/BURDI

CORUS five

Concept of Operations

CORUS five focuses on the challenges of safely integrating uncrewed aircraft systems into the same airspace as traditional aviation, addressing airspace that is not presently covered, e.g. above very low level and in the vicinity of controlled airports, with a particular focus on contingency management, risk quantification and flight rules.



Wednesday 11 September



www.sesarju.eu/projects/CORUS Five

ENSURE

ATM-U-space Interface and
Airspace Reconfiguration Service

ENSURE aims to refine and complete the definition of a common interface and services for U-space and air traffic management. The project will develop a standardised data model, architecture and an operational methodology.



Wednesday 11 September



www.sesarju.eu/projects/ENSURE

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U-AGREE

U-space Air and Ground Risk modElS Enhancement

The project aims to develop an integrated risk model for assessing the impact of UAS operations on safety, security, privacy and environment. This risk model is intended to support risk assessments required by the U-space European regulation, as well as an amendment to the specific operations risk assessment (SORA) methodology so that risk can be quantitatively estimated. In doing so, the aim is facilitate swifter operational approval processes.



Wednesday 11 September



www.sesarju.eu/projects/U-AGREE

SAFIR-Ready

FAST TRACK PROJECT

SAFIR-Ready is transforming emergency medical and critical infrastructure responses through the utilisation of advanced aerial mobility and U-space technologies. Acknowledging the vital importance of time in urgent situations, the project harnesses unmanned aerial vehicles' capabilities to swiftly transport medical supplies and samples.



Thursday 12 September



www.sesarju.eu/projects/SAFIR-ready

EUREKA

European Key solutions for vertiports and UAM

The project will develop 4 solutions to pave the way for vertiports and Innovative Air Mobility in tomorrow's cities: the complete arrival, departure and turnaround process for vertiports, collaborative traffic management, how to deal with emergencies and disruptions also the network flow, capacity and operational management. The project will provide recommendations for regulation/standardisation and any information that will accelerate and harmonise the development of UAM, VTOL operations and vertiports across Europe.



Thursday 12 September



www.sesarju.eu/projects/EUREKA