# The 25th Anniversary of the Integrated Communications, Navigation and Surveillance Conference

## Integrated CNS:
## Towards innovative and efficient CNS service provision

### 8-10 April 2025
### EUROCONTROL Headquarters, Brussels, Belgium

### Hosted by



The Integrated Communications, Navigation and Surveillance (ICNS) Conference is the premier international aviation conference addressing technology and policy advances in communications, navigation and surveillance (CNS) and air traffic management (ATM). The ICNS Conference provides a forum for thought leaders, policymakers, researchers and other technical experts from government, industry, and academia around the world to connect and explore important policy, science, and technology issues. This includes air navigation service providers (ANSPs), communication service providers, aircraft manufacturers, airspace users, government and regulators, academia, and many aviation industry suppliers.

ICNS 2025 will explore the CNS evolution and address innovative models of service provision focusing on the technical developments, global harmonization, and future opportunities for technologies to expand CNS's role in ensuring the safety, reliability, efficiency, and sustainability of aviation.

The ICNS 2025 edition will take place for the first time in Europe - facilitating the participation and active involvement of new participants as well as bringing the conference closer to other major centers of aviation.

The conference will be an in-person event and will include plenary sessions and technical discussions. Each plenary session will address a CNS topic of global relevance. Distinguished speakers will set the stage for the policy, economic, operational, and technological aspects of the plenary. Each technical discussion will be a paper presentation followed by Q&A.

The ICNS Conference provides an excellent opportunity for networking with colleagues from across the world during the breaks and social events, and for sharing views and ideas with policymakers and researchers.

### Technical Papers and Presentation Topics

Do you want to introduce your work to the ICNS colleagues, hone your scientific and technical ideas, and refine your research questions? Papers and presentations are solicited for the technical sessions, addressing the key topical areas listed below:

- Air Traffic Management (ATM), UAS Traffic Management (UTM) and Space Traffic Management (STM)
- Aviation Sustainability (Environment, Economy and Society)
- Communication, Navigation, and Surveillance Services and Systems
- Connected Aircraft Concept and Hyperconnected Air Traffic Management
- Cybersecurity
- Datalink and Connectivity
- Flight Deck Applications, Automation and Evolution
- Global Aircraft Tracking

- Global Harmonization of Operations, Standards and Practices
- Global Navigation Satellite Systems (GNSS) and Alternative Positioning, Navigation, and Timing (APNT)
- Info-Centric, Performance–based CNS
- Operational Efficiency - Airspace, Airport, Airplane, Routing, etc.
- Satellite-based Systems for CNS
- Service provision, innovation, resilience and efficiency
- Spectrum Management
- Traffic, terrain, and advanced weather surveillance
- Use of Artificial Intelligence and Machine Learning (AI/ML) for safety assurance, verification, and validation

Papers are also welcome for submittal even if they do not strictly cover the above areas, provided they are of interest to the ICNS community and relevant to CNS technologies and operations.

## Abstract Submission

Authors are invited to submit their abstracts for technical papers addressing one or more of the key topical areas listed above or special topics relevant to aeronautical CNS. Abstracts should clearly define the goal of the work, its tasks, methods, or results (anticipated or completed) as well as the potential benefits or applications of the work. Abstracts need to be clear and concise, with at least 250 words and no more than 750 words.

## Submission Deadlines (dates are subject to change):

- Abstract submission: 17 November 2024
- Notification of acceptance: 15 December 2024
- Final papers due: 10 February 2025

For more information, contact the Technical Program Chairs:  Dr. Rainer Koelle and Paul Prisaznuk, at technical.chair@i-cns.org

## Sponsors and Exhibits

ICNS 2025 is a great place to do business, bringing together top professionals, decision-makers, researchers, and innovators in aviation, networked systems, and related industries. Sponsoring the event offers a unique opportunity to showcase your brand to this audience. The 2025 ICNS Conference will be held in-person, ensuring great networking opportunities and plenty of face-to-face interaction.

Exhibits and product demonstrations are invited. Participating as an exhibitor in the conference allows personal interaction with customers and key policy decision-makers from around the world to help move your products and ideas closer to daily operations. The ICNS 2025 team is connecting ICNS stakeholders and helps promote the messaging of our sponsors - before, during, and after the conference.

For more information, contact the Sponsors and Exhibits Chair: David Batchelor, Christine Stewart and Ann Tedford at sponsor.exhibits.chair@i-cns.org.

Dr Nikos Fistas and Brent Phillips
ICNS2025 General Chairs

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| ICNS is a not-for-profit event, jointly organized by the American Institute of Aeronautics and Astronautics (AIAA) Digital Avionics Technical Committee (DATC) and the Institute of Electrical and Electronics Engineers (IEEE) Aerospace and Electronic Systems Society (AESS), with active support from industry and government. | For more information visit https://i-cns.org/ or scan the QR code:  |



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