



# AAM 2024

ICAO'S FIRST ADVANCED  
AIR MOBILITY SYMPOSIUM



# Programme

In collaboration with



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9 — 12 September 2024  
ICAO Headquarters, Montréal, Canada

In collaboration with  


*Advanced air mobility (AAM) global harmonization and interoperability: Challenges and opportunities*

## Day 1 – Monday, 9 September 2024

High-level Segment

	Assembly Hall
09:00 – 09:15	<b>Welcome Remarks</b> Mr. Salvatore Sciacchitano, President of the ICAO Council
09:15 – 09:30	<b>Opening Keynote</b> H. E. Abdulla bin Touq Al Marri, Minister of Economy, United Arab Emirates
09:30 – 10:10	<b>Why AAM?</b> This kick-off session will focus on the societal benefits of AAM and will delve into what AAM brings to citizens of the world.  <b>Speakers:</b> <b>Chief Ralph Cattleman</b> , Chief of Montana First Nation / Chair of Board of Directors for MFN Management Inc. <b>Mr. Vignesh Santhanam</b> , India Leader, World Economic Forum <b>Ms. Brie O'Sullivan</b> , Medical Drone Researcher & Global Public Health Professional / PhD candidate at Western University/Policy Analyst, Public Health Agency of Canada, Office of International Affairs, Multilateral Relations Division
10:10 – 11:00	<b>Coffee Break</b>
11:00 – 12:10	<b>Let's Make Some Room for AAM Integration</b> The diverse operations covered under AAM, from the simplest and smallest UAS, to the more complex eVTOL urban operations, have one thing in common: they are often perceived as having the potential to disrupt the tried-and-true tenets of conventional aviation. Throughout its history, aviation has adapted and safely integrated new entrants into its system and the same should apply with AAM. The new and promising technologies behind the AAM "evolution" offer new solutions for aviation stakeholders and new services for many outside aviation. This session will explore how regulators and other stakeholders can work together to realize the opportunities for safe and efficient integration of new and conventional aviation.  <b>Moderator:</b> <b>Capt. Claude Hurley</b> , Director, Environment & Flight Operations, International Business Aviation Council (IBAC)  <b>Panellists:</b> <b>Mr. Filip Cornelis</b> , Director for Aviation, European Commission <b>Mr. Mike Mueller</b> , Vice-Chair, International Coordinating Council of Aerospace Industries Associations (ICCAIA)



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	<p><b>H.E. Abdulaziz Bin Abdullah Al Duailej</b>, President of the General Authority of Civil Aviation (GACA), Kingdom of Saudi Arabia</p> <p><b>Mr. James Viola</b>, Chief Executive Officer, Vertical Aviation International (VAI)</p>
12:10 – 12:25	
12:25 – 13:55	<p><b>Lunch Break</b></p>
13:55 – 15:05	<p><b>Welcome to the World of eVTOL Operations</b></p> <p>Ask a random sampling of symposium participants, “Name some eVTOL operations?” and you are likely to get many varied responses. This session will put that question to a select group of industry leaders.</p> <p><b>Moderator:</b> <b>Ms. Anna Von Groote</b>, Director General, EUROCAE</p> <p><b>Panellists:</b> <b>Mr. Johann Bordais</b>, Chief Executive Officer, Eve Air Mobility <b>Ms. Balkiz Sarihan</b>, Chief Executive Officer and Head of UAM, Airbus <b>Mr. Dirk Hoke</b>, Chief Executive Officer, Volocopter <b>Mr. JoeBen Bevirt</b>, Founder and Chief Executive Officer, Joby Aviation <b>Mr. Kyle Clark</b>, Founder and Chief Executive Officer, BETA Technologies</p>
15:05 – 15:35	<p><b>For the Benefit of All – UN Sustainable Development and AAM</b></p> <p>AAM use cases contemplate a future where air transport and associated services are accessible, safe, secure, efficient, and environmentally friendly and benefit peoples of the world. Many AAM services align with the United Nations Sustainable Development Goals (SDGs), which are a set of global goals designed to address various social, economic, and environmental challenges by 2030. This session will explore how AAM directly and indirectly supports the UN goals and how the SDG framework intersects with AAM’s societal benefits around the globe.</p> <p><b>Panellists:</b> <b>Mr. Bethuel T. Mujetenga</b>, Chairperson, Namibia Civil Aviation Authority Board of Directors <b>Mr. Conor French</b>, Chief Regulatory Officer, Zipline <b>Mr. Raf Tuts</b>, Director of the Global Solutions Division, UN-Habitat</p>
15:35 – 16:25	<p><b>Coffee Break</b></p>
16:25 – 17:25	<p><b>The World of AAM Services and Economics</b></p> <p>Many consider that AAM paves the way for an entirely new aviation era reliant upon new and evolving services to enable safe and efficient AAM operations. This discussion will delve into how a flexible framework of services might be applied to the wide range of operations and risk levels within the AAM ecosystem. Additionally, markets and demands for new AAM services, and other enabling services, are rapidly evolving, shaping market dynamics and economic landscapes. This session will explore the economics of AAM in terms of costs, benefits, job creation, growth, funding, fees, market access, etc. What are the interconnections between these factors and how do they influence decision-making,</p>



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	<p>operating rules, airspace design and usage, development, and societal impacts and equity considerations?</p> <p><b>Moderator:</b>  <b>Ms. Okeoma Moronu</b>, Head of Global Aviation Regulatory Affairs, Zipline</p> <p><b>Panellists:</b>  <b>Mr. Carlo Tursi</b>, Chief Executive Officer, UrbanV  <b>Mr. Richard Cockle</b>, Global Head of IoT, Identity and Big Data, GSMA  <b>Mr. Justin Erbacci</b>, Chief Executive Officer, Airports Council International (ACI)  <b>Mr. Ed Bolen</b>, President and Chief Executive Officer, National Business Aviation Association (NBAA)  <b>Mr. Mark Bosly</b>, UK Chief Air Services Negotiator, Aviation Directorate, Department for Transport</p>
<b>17:25 – 17:40</b>	<b>Agreements Signature</b>
<b>17:40-18:10</b>	<p><b>International Call to Action and Day 1 Closing Remarks</b></p> <p><b>Mr. Juan Carlos Salazar</b>, Secretary General, International Civil Aviation Organization (ICAO)</p>
<b>18:10-18:25</b>	
<b>18:25-21:00</b>	<b>Welcome Reception</b>
<b>End of Day 1</b>	



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## Day 2 – Tuesday, 10 September 2024

AAM Ecosystem

Assembly Hall	
09:00 – 09:15	<p><b>Daily Kick-off</b> Mr. Todd Graetz, Co-Founder, Aerolane and BNSF UAS Program, BNSF Railway</p>
09:15 – 10:10	<p><b>Integration and Optimization of Infrastructure and Transportation Modes</b> In a nutshell, AAM is bringing aviation to our doorsteps. This new paradigm requires thoughtful consideration of this new ecosystem and appropriate strategies and policies for its integration into local and regional communities. Major societal, government, infrastructure, and transportation interests are at play with complex interdependencies between them. How are these interests brought together in a collaborative manner to safely, efficiently and sustainably, to enable AAM services? This morning’s panel of experts will present compelling reasons to do so and creative ideas for making it work.</p> <p><b>Moderator:</b> Ms. Carol Huegel, President and Chief Executive Officer, RTCA, Inc.</p> <p><b>Panellists:</b> Mr. Kevin Cox, Chief Executive Officer, Ferrovial Mr. Martin Larose, Chief Executive Officer, H55 Mr. Klaus Roewe, Chief Executive Officer, Lilium Mr. Selahattin Bilgin, Chief Executive Officer, Istanbul Airport</p>
10:10 – 10:50	<p><b>Coffee Break</b></p>
10:50 – 11:45	<p><b>Now Hiring – Staffing the New AAM Ecosystem</b> Aviation relies on a workforce possessing highly specialized knowledge and skill sets, the basis for which has been developed and carefully refined over decades. This basis for knowledge and skills is a great starting point for the development of the AAM workforce. However, other new elements may need to be carefully considered, such as the anticipated scale of AAM operations, new aircraft designs and power sources, the use of vertiports, autonomy, and other considerations. The panelists will discuss the opportunities and challenges inherent in the development of the AAM workforce, including factors such as needed skillsets, the role of regional and local authorities, development of academic and professional training organizations and programs, employment equities, inter alia.</p> <p><b>Moderator:</b> Ms. Paula Vieira de Almeida, Chief Executive Officer, JAA Training Organisation (JAATO)</p> <p><b>Panellists:</b> Ms. Poppy Khoza, Director of Civil Aviation, South African Civil Aviation Authority (SACAA) Mr. Marc Parent, Chief Executive Officer, CAE Dr. P. Barry Butler, President, Embry-Riddle Aeronautical University Capt. Paolo La Cava, Chief Executive Officer, Etihad Aviation Training</p>

	<b>Mr. Michael Cervenka</b> , Chief Regulatory Officer, Vertical		
<b>11:45 – 12:00</b>			
<b>12:00 – 13:30</b>	<b>Lunch Break</b>		
	<b>Assembly Hall</b>	<b>Conference Room 3 (CR3)</b>	<b>Conference Room 5 (CR5)</b>
<b>13:30 – 14:30</b>	<p><b>Infrastructure – A System of Systems Challenge</b></p> <p>As AAM is implemented, it will rely on both existing and new infrastructure. Planners, decision-makers, and engineers must consider the network of infrastructure within the context of multimodal transportation, sharing of resources including electricity, communications, and data, as well as development of vertiports in aerodromes and other locations. These and other factors require a system-of-systems approach to planning and development to enable smart AAM development and integration. Speakers will discuss this approach and associated processes, including how to get and then keep ALL stakeholders engaged.</p> <p><b>Moderator:</b> <b>Mr. Phil Kenul</b>, Chair ASTM International Committee on UAS, ASTM</p> <p><b>Panellists:</b> <b>Dr. Yoshiaki Ichikawa</b>, Visiting Professor, Tama University – Center for Rule Making Strategy <b>Ms. Joyce Abou Moussa</b>, Deputy Director of International Development - AAM Global Program Lead, Groupe ADP</p>	<p><b>Facilitation</b></p> <p>As AAM develops, cross-border (international) operations will become a reality. It is necessary to begin to consider how formalities associated with international movements of aircraft, people or goods will be accomplished, efficiently and effectively in AAM environments. It is likely that Standards and Recommended Practices relating to such formalities, currently contained within ICAO Annex 9 – Facilitation, will need some update to meet the needs of AAM. Availability of tools and capabilities to efficiently conduct operations in line with legal and regulatory requirements will also be key. This panel will seek to anticipate how facilitation-related regulations and tools might evolve to meet the needs of AAM cross-border operations.</p> <p><b>Moderator:</b> <b>Mr. Jean-Sebastian Pard</b>, Senior Manager, Facilitation, Passenger Services and Operations, Airports Council International (ACI)</p> <p><b>Panellists:</b> <b>Ms. Carmela Tripaldi</b>, Regulation and Research Innovative Mobility Director, Italian Civil Aviation Authority</p>	<p><b>Workshop:</b></p> <p><b>AAM Pillars of Impact – An Interactive Exploration of AAM Beyond Aviation</b></p> <p>In this dynamic session, step into a collaborative exploration zone, where we bridge the United Nations Sustainable Development Goals (UN SDGs) with the multifaceted stakeholders of AAM. Together, we'll uncover the nuanced impacts of AAM services, navigating both opportunities and challenges. Discussions will spotlight aviation technology's potential in fostering responsible development of new aviation services. Participants will leave with an enhanced sustainability mindset tailored for planning and designing processes to enhance AAM responsible outcomes.</p> <p><b>Moderator:</b> <b>Mr. Vassilis Agouridas</b>, Leader, Urban-Air-Mobility Initiative Cities Community (UIC2)</p>



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	<p><b>Mr. Drew Van Duren</b>, Director – Technical Standards, Qualcomm</p> <p><b>Mr. Richard Watson</b>, Chair - SAE AE-7D Aircraft Energy Storage and Charging Committee; Charger Product Manager - Electro.Aero</p> <p><b>Mr. Kevin Thibault</b>, Chief Executive Officer, Greater Orlando Aviation Authority</p>	<p><b>Dr. Lutz Weisser</b>, Managing Director, Munich Airport International (MAI)</p>	
<b>14:30 – 15:10</b>	<b>Coffee Break</b>		
	<b>Assembly Hall</b>	<b>Conference Room 3 (CR3)</b>	<b>Conference Room 5 (CR5)</b>
<b>15:10 – 16:05</b>	<p><b>Holistic &amp; Integrated Risk Management</b></p> <p>AAM operations involve the provision of innovative services across a diverse set of operators. As these new services enter the traditional aviation environment, they need to be safe on their own while also being safely integrated with other operations. This will require an understanding of hazards across the ecosystem as well as across domains. New AAM services may reduce occupational safety risks, environmental impacts, operational costs, and transportation fatality rates. Broader consideration of risk assessments and methodologies may be required beyond the dimension of aviation alone. This session will discuss the evaluation of the whole of risk (net risk).</p> <p><b>Moderator:</b> <b>Mr. Mike Gadd</b>, Head of Office of Airworthiness, Blue Bear Systems Research Ltd.</p>	<p><b>Legal Issues in AAM</b></p> <p>Due to its profound transformative potential, AAM is expected to have broad impacts on legal constructs and frameworks. Examples include the continuous development of high levels of automation towards autonomy and the shifts from human-centric to machine-centric controls. These evolutions are expected to impact key AAM functions, such as traffic management and remote piloting. As these new environments evolve, legal issues, such as liability, will likely face new tests and examination. In addition, key legal principles embodied in the Chicago Convention, may need renewed consideration. This session will explore this evolving AAM legal landscape.</p> <p><b>Moderator:</b> <b>Ms. Siew Huay Tan</b>, Director, Special Projects – International Air Law, Civil Aviation Authority of Singapore (CAAS)</p>	<p><b>Workshop:</b></p> <p><b>Understanding Societal Acceptance of AAM</b></p> <p>Societal acceptance of AAM? It's complicated! This workshop will examine how factors such as safety, noise pollution, equity in access, and public perception influence the integration of AAM into our communities. Through engaging discussions and interactive activities, strategies to address these concerns and foster positive reception of AAM will be explored. By considering diverse perspectives, this workshop will explore the why and how AAM development aligns with societal values, addresses community needs, and contributes to the advancement of sustainable urban mobility solutions.</p> <p><b>Moderator:</b> <b>Mr. Étienne Leclerc-Jolette</b>, Vice President Strategy and Partnerships, Consortium for Research and Innovation in Aerospace in Quebec (CRIAQ)</p> <p><b>Panellists:</b> <b>Dr. Parimal Kopardekar</b>, Mission Integration Manager for the</p>



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	<p><b>Panellists:</b>  <b>Dr. Ruth Stillwell</b>, Executive Director, Aerospace Policy Solutions, LLC  <b>Dr. Tracy Lamb</b>, Chief Safety Officer, Supernal  <b>Mr. Stéphane De Wolf</b>, Programme Director, IBAC  <b>Dr. Ilias Panagopoulos</b>, WHS Leader - Head of Air Safety, Europe, Amazon Air  <b>Mr. Gian-Andrea Bandieri</b>, Programme Director, International Business Aviation Council (IBAC)</p>	<p><b>Panellists:</b>  <b>Dr. Mario Folchi</b>, Professor, Institute of Air and Space Law, Aerohelp  <b>Ms. Rita Sousa Uva</b>, Senior Legal Advisor, European Union Aviation Safety Agency (EASA)  <b>Sr. Eduardo Cristelo</b>, Associate, Machado, Meyer, Sendacz e Opice Advogados (Brazil)</p>	<p>Advanced Air Mobility (AAM) Mission, National Aeronautics and Space Administration (NASA)</p> <p><b>Dr. Bianca I. Schuchardt</b>, International Forum for Aviation Research (IFAR)AAM Working Group Chair / Aeronautical Research Engineer, Institute of Flight Guidance, German Aerospace Center (DLR)</p>
<p><b>16:15 – 17:15</b></p>	<p><b>Continuous AAM Safety Improvement</b></p> <p>Using safety data and safety information to evaluate what is and what is not working in a system is a valuable and essential management practice. This session explores the role of safety intelligence and safety performance management in continuous improvement of safety across the developing AAM ecosystem. What are the main steps in continuously improving systems and processes in the developing AAM domain? How does collection and sharing of safety intelligence contribute to proactive safety improvement? How can AAM stakeholders use safety performance management to improve safety?</p> <p>States and regions currently have mechanisms for monitoring and improving aviation safety. In this session, panelists will explore practices supporting the development of a culture of continuous safety improvement within the diverse AAM ecosystem. What data collection requirements are considered as</p>	<p><b>Environmental</b></p> <p>Noise and emissions have been addressed through the development of aircraft standards for conventional aircraft, based upon decades of experience. What are the environmental impacts of AAM operations, and how should they be measured, and managed? This panel will discuss AAM environmental issues with a particular focus on sustainability throughout the aircraft lifecycle, and a flexible framework responsive to the continuum of AAM’s operating environments.</p>	<p><b>Workshop:</b></p> <p><b>Insurance and AAM</b></p> <p>More than ever, local governments and operators are grappling with current unmanned aircraft operations and evolving larger and more complex flight operations within and between their cities.</p> <p>Within this developing space, stakeholders are considering the aviation insurance ecosystem, asking, “Who understands my AAM business to cover me effectively?”</p> <p>AAM insurance is a complex, multi-stakeholder problem requiring collective thought leadership from leading global aviation insurance brokers, underwriters, managing general agents.</p> <p>In this workshop, participants will have the opportunity to exchange on insurance considerations related to AAM.</p> <p><b>Moderators:</b>  <b>Mr. JR Hammond</b>, Executive Director, Canadian Advanced Air Mobility (CAAM))</p>





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	<p>effective? How can this data be shared for the purpose of identifying hazard precursors and proactively implementing AAM safety improvements? What are potential models for fostering stakeholder collaboration toward achievement of safety performance goals?</p> <p><b>Moderator:</b>  <b>Mr. Billy Nolen</b>, Chief Regulatory Affairs Officer, Archer Aviation</p> <p><b>Panellists:</b>  <b>Dr. Joao Souza Dias Garcia</b>, Assistant Professor, Embry-Riddle Aeronautical University  <b>Ms. Kim Wasson</b>, Autonomy Assurance and Certification, Joby Aviation  <b>Ms. Cindy Comer</b>, Senior Director of Certification and Safety Management System, Wisk Aero  <b>Dr. Natasha Neogi</b>, Senior Technologist, National Aeronautics and Space Administration (NASA)  <b>Mr. Erick Ferrandez</b>, Representative to ICAO and Canada, European Union Aviation Safety Agency (EASA)</p>		<p><b>Mr. Frédéric Malaud</b>, Chief, Remotely Piloted Aircraft Systems Section, International Civil Aviation Organization (ICAO)</p> <p><b>Panellists:</b>  <b>Ms. Kate Ayre</b>, Founder, CAYRES, Inc.</p>
<p>17:15 – 17:30</p>			
<p>17:30 – 19:30</p>	<p><b>Networking Reception</b></p>		
<p><b>End of Day 2</b></p>			

## Day 3 – Wednesday, 11 September 2024

### AAM Technology

Assembly Hall	
09:00 – 09:15	<p><b>Daily Kick-off</b></p> <p><b>Mr. Dan Sloat</b>, Founder and President, Advanced Air Mobility Institute</p>
09:15 – 10:10	<p><b>The Human and AAM</b></p> <p>AAM use cases are predicated on the utilization of innovative types of aircraft, operating far differently from conventional aircraft, leading to a fundamental transformation of the entire aviation system, from being human-centric to machine-centric, from centralized to decentralized management of the operational environment, as we move towards increasing levels of digitalization and automation. At every stage of this evolution, the roles and responsibilities of humans, including of those operating in conventional aviation, must be carefully assessed to ensure the continued safety and efficiency of future aviation operations. Panelists will discuss the evolution of the roles and responsibilities of the human.</p> <p><b>Panellists:</b></p> <p><b>Dr. Brian Yutko</b>, Chief Executive Officer, Wisk Aero  <b>Mr. Maxime Gariel</b>, Chief Executive Officer, Xwing  <b>Mr. Conor Yang</b>, Chief Financial Officer, eHang  <b>Ms. Carol Carroll</b>, Deputy Associate Administrator for the Aeronautics Research Mission Directorate (ARMD), National Aeronautics and Space Administration (NASA)  <b>Mr. Félix Meunier</b>, Director General, Civil Aviation, Transport Canada</p>
10:10 – 10:50	<p><b>Coffee Break</b></p>
10:50 – 11:45	<p><b>Technological Change – Transformation or Adaptation?</b></p> <p>History is marked by technological developments that were disruptive to the socio-economic balances of their time. There are times such that the socio-economic frameworks then in place lean towards gently adopting and adapting to the change. There are other times the change can be revolutionary, transforming the applicable environment almost overnight (consider the transistor). As we consider the development and implementation of AAM, mindful of the overarching objectives of safety, efficiency and sustainability, will it or should it be transformational, adaptive, or somewhere in the middle?</p> <p><b>Moderator:</b></p> <p><b>Ms. Jenn Player</b>, Vice President, Aviation and Regulatory Affairs, Skydio</p> <p><b>Panellists:</b></p> <p><b>Mr. Rob Bishton</b>, Chief Executive, United Kingdom Civil Aviation Authority  <b>Dr. Yemaya Bordain</b>, President of the Americas, Daedalean  <b>Mr. Mark Blanks</b>, Head of Global Flight Operations, Wing  <b>Mr. Peter Bunce</b>, President and Chief Executive Officer, General Aviation Manufacturers Association (GAMA)</p>

11:45 – 12:00			
12:00 – 13:30	Lunch Break		
	Assembly Hall	Conference Room 3 (CR3)	
13:30 – 14:30	<p><b>Autonomy and Automation</b></p> <p>Aircraft supporting AAM operations will leverage a novel ecosystem which is fully digital, and their use of automation and autonomy is expected to differ significantly from conventional aircraft. Session panelists will discuss how the integration of greater levels of autonomy and automation will impact operational procedures and development of new regulatory frameworks.</p> <p><b>Moderator:</b> <b>Ms. Anna Mracek Dietrich</b>, Senior Policy Advisor, Association for Uncrewed Vehicle Systems International (AUVSI)</p> <p><b>Panellists:</b> <b>Dr. Oleksandra Molloy</b>, Senior Lecturer in Aviation, University of New South Wales (UNSW), Australia <b>Mr. Yuanyuan (Martin) Ding</b>, Chief Executive Officer, Albatros.ai <b>Mr. Wes Ryan</b>, NG Fellow, Airworthiness of Autonomy and AI, Northrup Grumman Corporation <b>Ms. Jolana Dvorska</b>, Avionics Architect, Honeywell <b>Mr. David Oord</b>, Policy Manager, Wisk Aero</p>	<p><b>AAM and Humanitarian Operations</b></p> <p>In support to humanitarian operations, AAM provides new logistical solutions. Deliveries by UAS and logistic hubs offer potential to be explored. While some of these developments are taking place, wider implementation, and the facilitation of a quick response to emergency needs, remains challenging. The panelists will explore how humanitarian operations integrate into the AAM ecosystem, and how the implementation of a framework of operational provisions will support their development.</p> <p><b>Moderator:</b> <b>Mr. Barry Koperberg</b>, Founder and General Manager, Wings For Aid</p> <p><b>Panellists:</b> <b>Ms. Gabriela Alvarado Rocha</b>, Country Representative, World Food Programme Dominican Republic <b>Mr. Miguel Lens Pardo</b>, Chief Aviation Planning, Projects and Training, Department of Operational Support, United Nations (UNDOS) <b>Mr. Oleg Aleksandrov</b>, Aviation Officer, UAS/Airship Cargo Projects, World Food Programme (WFP) <b>Mr. Harrison Gordon Maurice Wolf</b>, Associate Director of Advanced Aviation, Flight Safety Foundation</p>	
14:30 – 15:10	Coffee Break		
	Assembly Hall	Conference Room 3 (CR3)	Conference Room 5 (CR5)
15:10 – 16:05	<p><b>Airworthiness Considerations for AAM</b></p> <p>AAM is commonly associated with passenger and cargo transportation services, but the</p>	<p><b>AAM Powered by Innovation</b></p> <p>As AAM systems and services take shape across the world, stakeholders take-up important</p>	<p><b>Workshop:</b></p> <p><b>How can Academia and Research Organizations Help the Development</b></p>

reality is that it will support a much wider range of aircraft operations in different operational environments, with varying levels of safety risk. This panel explores the spectrum of aircraft that will operate in the AAM ecosystem and fit-for-purpose provisions for efficiently addressing airworthiness requirements relative to the target level of safety for the intended operational environment.

**Moderator:**

**Ms. Nina Brooks**, Vice President and Permanent Representative to ICAO, International Coordinating Council of Aerospace Industries Associations (ICCAIA)

**Panellists:**

**Mr. Oliver Reinhardt**, Chief Risk and Certification Officer, Volocopter

**Mr. Roberto Honorato**, Head, Airworthiness Department, National Civil Aviation Agency (ANAC), Brazil

**Mr. Giuseppe Scannapieco**, Acting Drones Section Manager, European Union Aviation Safety Agency (EASA)

**Mr. Kah Han Tan**, Senior Director of UAS Group, Civil Aviation Authority of Singapore (CAAS)

**Mr. Yousuf Hashim Al Azizi**, Senior Director of Airworthiness, General Civil Aviation Authority (GCAA), United Arab Emirates

**Mr. Tomohiro Fukuzawa**, Chief Operating Officer, Skydrive

challenges in designing and prototyping innovative vehicles, and deploying widescale, safe and sustainable operations. It requires key innovative enablers to build, operate and maintain the different parts of the AAM system, such as automation and communication, that span over the entire ecosystem, from manufacturers, operators, data providers, regulators and airspace managers. The application of advanced technologies for AAM, such as Artificial Intelligence, Machine Learning, electric or alternative propulsion systems, and any other technical disruptions also imply important changes and adaptations for organizations.

This panel will explore the various questions, lessons learned and opportunities brought by AAM in relation to technologies, processes, procedures, and organizations.

**Moderator:**

**Ms. Marang Mbaakanyi**, Managing Director, Drones for Africa

**Panellists:**

**Mr. Amit Ganjoo**, Founder and Chief Executive Officer, ANRA Technologies

**Mr. Jean-Bernard Boura**, Managing Director, Pen Aviation

**of AAM?**

This workshop serves as a platform for discussing how academia can contribute to the development, innovation, and sustainable growth of AAM. Participants will actively engage in an insightful exploration of collaborative opportunities between academic research and the AAM ecosystem.

**Panellists:**

**Dr. Marwa Dehbal**, Adjunct Professor- Coordinator of the ICAO Simulation International Partnerships with Asia and Oceania, Université du Québec à Montréal (UQAM)

**Dr. Carole El Ayoubi**, Director of Undergraduate Programs, Mechanical and Aerospace Engineering / Director of Education, Concordia Institute of Aerospace Design and Innovation, Concordia University

**Dr. Iryna Borshchova**, Research Officer, Detect and Avoid, National Research Council of Canada (NRCC)

**Dr. Zena Assaad**, Senior Lecturer, School of Engineering, The Australian National University

**Dr. Dirk Kügler**, Director of the DLR Institute of Flight Guidance, German Aerospace Center (DLR)



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<p><b>16:15 – 17:15</b></p>	<p><b>AAM Security</b></p> <p>While AAM is expected to bring about new opportunities, implementing AAM on a large scale is not without challenges. AAM capabilities may be exploited for nefarious purposes, giving way to new aviation security threats. Thus, there are many facets to consider when developing AAM security and addressing the inherent threats, both on the ground and in the air, related to AAM operations at large. Our panelists will explore the potential threats associated with the broad array of AAM applications in the airspaces and environments within which they are meant to operate. Panelists will discuss new security vulnerabilities inherent in the use of AAM; urgent security considerations for protecting AAM aircraft in flight; and what AAM ground infrastructure, ports and security processes may be like, including at fixed-base operators.</p> <p><b>Moderator:</b> <b>Mr. Justin Jedlinski</b>, Manager, RPAS Security Policy, Transport Canada</p> <p><b>Panellists:</b> <b>Mr. Jens Hennig</b>, Vice President – Operations, General Aviation Manufacturers Association (GAMA) <b>Dr. Sarah J. Fox</b>, S/Chief Inspector, Thames Valley Police <b>Mr. Rob Rottman</b>, Executive Director, Aviation Policy, Plans, and Engagement Office, Transportation Security Administration (TSA)</p>	<p><b>Academic Competition</b></p> <p>Join us for an enlightening session as winners from the Global AAM Academic Paper Competition take center stage, presenting their research for the world to see.</p> <p>This competition has successfully engaged students from diverse realms and disciplines, fostering exploration and innovation in the burgeoning field of AAM. Prepare for a comprehensive examination of the outstanding papers, encompassing various aspects such as technology, safety, regulation, urban planning, legal considerations, and sustainability.</p> <p>Take part in the dialogue shaping the future of our skies and witness firsthand the ingenuity and vision of the next generation of AAM pioneers as they showcase their research.</p> <p><b>Moderators:</b> <b>Dr. Iryna Borshchova</b>, Research Officer, Detect and Avoid, National Research Council of Canada (NRCC) <b>Ms. Dunia Abboud</b>, Advanced Air Mobility Community and Project Management Specialist, International Civil Aviation Organization (ICAO)</p>	<p><b>Workshop:</b></p> <p><b>Establishing our AAM Global Narrative</b></p> <p>An effective and complete communications strategy is vital for the successful implementation of AAM. This workshop explores how the AAM community can prepare to communicate on AAM throughout all the phases of development, integration, implementation, operation, and during contingencies. All stakeholders have a stake in AAM communications planning.</p> <p><b>Moderator:</b> <b>Mr. David Dunning</b>, Director, Global Innovation &amp; Policy, General Aviation Manufacturers Association (GAMA)</p> <p><b>Panellists:</b> <b>Ms. Catherine Roy</b>, Foresight and Design Leader, Design Center Quebec, Thales <b>Ms. Elan Head</b>, Senior Editor, The Air Current</p>
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# AAM 2024

ICAO'S FIRST ADVANCED AIR MOBILITY SYMPOSIUM

9 — 12 September 2024  
 ICAO Headquarters, Montréal, Canada

In collaboration with  


	<p><b>Mr. Jordi Vicens Obrador,</b>          Deputy Director, Logistics          Analysis and Operational          Simulation, Aéroport de          Montréal</p>		
<p><b>17:10 – 17:25</b></p>			
<p><b>17:30 – 19:30 Networking Reception</b></p>			
<p><b>End of Day 3</b></p>			



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## Day 4 – Thursday, 12 September 2024

AAM Advanced Operations and Support Services


<b>Assembly Hall</b>		
<b>09:00 – 09:15</b>	<b>Daily Kick-off</b> <b>Mr. Bryce Jones</b> , Chief Executive Officer, Flashforest	
<b>09:15 – 10:10</b>	<b>Global Needs – Leveraging AAM for Positive Human Outcomes</b> The AAM 2024 Symposium began by highlighting three inspiring AAM missions with deeply human impacts. Throughout the Symposium, additional sessions highlighted the significant potential of AAM to revolutionize the aviation industry and contribute to global sustainability and prosperity. The panelists in this session will explore how the global needs embodied in the UN SDGs provide a framework for leveraging AAM, in a sustainable manner, while improving urban and rural transportation and ultimately, human wellbeing.  <b>Moderator:</b> <b>Mr. Stephen Creamer</b> , President and Chief Executive Officer, Single Sky Solutions Group, LLC  <b>Panellists:</b> <b>Dr. Hassan Shahidi</b> , President and Chief Executive Officer, Flight Safety Foundation (FSF) <b>Mr. Pravimal Abhishek Polumatla</b> , Managing Director, Goa Industrial Development Corporation <b>Mr. Emile N. Aroo</b> , Director General, Kenya Civil Aviation Authority <b>Ms. Linda Falwasser</b> , Chief Executive Officer, Tāwhaki Joint Venture, National Aerospace Centre, New Zealand	
<b>10:10 – 10:50</b>	<b>Coffee Break</b>	
<b>Assembly Hall</b>		<b>Conference Room 3 (CR3)</b>
<b>10:50 – 11:45</b>	<b>Airspace Design, Operating Rules, and Service Providers</b>  A discussion of the complex interrelationships and interdependencies amongst these aviation building blocks and how each might evolve to optimize safety and efficiency for all current and future airspace users. The potential trade-offs between these building blocks have real impacts on stakeholders which should be fairly assessed and balanced. As technology enables new capabilities, fresh analysis and consideration of these aviation building blocks is necessary.	<b>It's 11:00 O'clock, Do You Know Where Your Aircraft Are?</b>  It is anticipated that the numbers of aircraft conducting operations in the AAM ecosystem will rapidly grow and become ubiquitous in many locations. These operations will be conducted using high levels of automation, and navigational accuracy will be essential for safe operations. Efforts to improve navigational accuracy and establish needed reference systems continue. These include consideration of True versus Magnetic North and common altitude reference systems (CARS). This panel will discuss navigational topics which are essential to the safe and efficient implementation of AAM.

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	<p><b>Moderator:</b> <b>Ms. Ruby Sayyed</b>, Global Head of Air Traffic, International Air Transport Association (IATA)</p> <p><b>Panellists:</b> <b>Mr. Ralph Tamburro</b>, Program Manager, Port Authority of New York and New Jersey (PANYNJ) <b>Mr. Robin Garrity</b>, ATM Expert, SESAR Joint Undertaking <b>Mr. Erick Corona</b>, Director, ConOps &amp; Airspace Ecosystem Development, Wisk Aero <b>Mr. Dallas Brooks</b>, Aviation Outreach and Standards Lead, Wing <b>Mr. Andrew Lacher</b>, Chief Technologist for Future Airspace Operations, National Aeronautics and Space Administration, Langley Research Center (NASA LaRC) <b>Ms. Michelle Bishop</b>, Director Programs, Civil Air Navigation Services Organisation (CANSO)</p>	<p><b>Moderator:</b> <b>Mr. Don Ward</b>, Chief Operating Officer, The Longbow Group</p> <p><b>Panellists:</b> <b>Mr. Alberto Mennella</b>, Innovation Manager, TopView <b>Mr. Junwei Yang</b>, Head of Operations, Drone Delivery Division, Meituan <b>Ms. Michelle Duquette</b>, Outcome Leader, UAS, AAM, and Commercial Space Integration, MITRE <b>Mr. Santiago Soley</b>, Chief Executive Officer, Pildo LABS <b>Ms. Anna Von Groote</b>, Director General, EUROCAE</p>
11:45 – 12:00		
12:00 – 13:30	Lunch Break	
	Assembly Hall	Conference Room 3 (CR3)
13:30 – 14:30	<p><b>Traffic Management, ATM, UTM, eTM, xTM</b></p> <p>In the future, airspace will likely be used by various types of aircraft, including in currently underutilized airspaces, at low and high altitudes. The diversity of contemplated use cases, including Advanced Air Mobility operations, remotely piloted aircraft systems (RPAS), and higher altitude operations (HAO), will require safe and efficient traffic management services. Today's traffic management systems and procedures will continue to evolve as these new operations are integrated with those of conventional aviation stakeholders. How will automation and technology shape the future of traffic management? Are flexible approaches suitable for safely managing the variety of risk levels which these future operations will entail? Should all traffic management services, whether existing or under development, be integrated as one, or work in a federated manner? How can traffic management systems and services be future proofed and ready to support the continued</p>	<p><b>Workshop: Human Factors</b></p> <p>From its hardware to its operation, human factors will be a key element in the design evolution of the AAM ecosystem. This session will explore Human Factors and Human-Machine Interaction (HMI) in AAM, from the perspective of the impacts on the operator/pilot, the passenger, the controller and the ecosystem. This session offers an opportunity to discuss important human factors in AAM in a collaborative discussion between the panelists and audience. The session will speak to challenges, foster creative thinking, and generate actionable insights for the development of safe and user-centric AAM systems.</p> <p><b>Panellists:</b> <b>Mr. Vadim Kramar</b>, Senior Scientist, Innovative Air Mobility Team, VVT Technical Research Center</p>





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	<p>evolution of operations? This panel of experts will discuss these and other important traffic management questions.</p> <p><b>Moderator:</b> <b>Mr. Davis Hackenberg</b>, Vice President-Government Partnerships, Reliable Robotics</p> <p><b>Panellists:</b> <b>Mr. Shawn Kozica</b>, Deputy Director, Portfolio Management and Technology Development, Office of NextGen, Federal Aviation Administration (FAA) <b>Dr. Eduardo Garcia</b>, Senior Manager Future Skies, Civil Air Navigation Services Organization (CANSO) <b>Mr. Joachim Lücking</b>, Head of Unit Aviation Safety, European Commission <b>Mr. Brenden Hedblom</b>, Head of Traffic Management Solutions, Eve Air Mobility <b>Mr. Fabrice Kunzi</b>, Chief Product Officer, SkyGrid <b>Mr. Rob Eagles</b>, System Development and Deployment Strategy, Airbus UTM</p>	<p><b>Mr. Sion Jennings</b>, Senior Research Officer Human Factors Engineering, National Research Council of Canada (NRC) <b>Mr. Jeffrey Vincent</b>, Executive Director, UAS Integration Office, Federal Aviation Administration (FAA) <b>Dr. Bianca Schuchardt</b>, Aeronautical Research Engineer, Institute of Flight Guidance, German Aerospace Center (DLR) <b>Mr. Robert Voros</b>, Senior Director of Product Safety Assurance, Merlin <b>Mr. Tim Laudien</b>, Research Scientist, German Aerospace Center (DLR)</p>
<p><b>14:30 – 15:00</b></p>	<p><b>Coffee Break</b></p>	
<p><b>15:00 – 16:00</b></p>	<p><b>Information and Data Management</b></p> <p>Safely and efficiently accommodating the anticipated number of AAM flights will rely upon considerable amounts of data and information to support new operational and traffic management functions and systems. This session will explore new concepts for information and data management to ensure the right data gets to the right applications in an efficient, competitive, cost-effective, sustainable, reliable, and redundant manner.</p> <p><b>Moderator:</b> <b>Mr. Don Berchoff</b>, Chief Executive Officer, TruWeather Solutions</p> <p><b>Panellists:</b> <b>Dr. Leo Jeoh</b>, Founder and Chief Executive Officer, STATE Aviation <b>Mr. Ken Stewart</b>, President and Chief Executive Officer, Northeast UAS Airspace Integration Research Alliance, Inc. (NUAIR) <b>Mr. Antoine Martin</b>, Policy Officer Advanced ATM, Civil Aviation Safety Directorate, General Directorate Civil Aviation (DGAC) <b>Dr. Jia Xu</b>, Chief Executive Officer, SkyGrid <b>Ms. Supreet Kaur</b>, Lead Systems Engineer for the Data &amp; Reasoning Fabric, Aeronautics Directorate, National Aeronautics and Space Administration (NASA)</p>	



<b>16:00 – 16:30</b>	<b>Wrap-up AAM 2024</b>  Mr. Pascal Luciani, Deputy Director, Air Navigation and Aviation Safety, International Civil Aviation Organization (ICAO)
<b>16:30 – 16:45</b>	<b>Closing Remarks</b> Mrs. Michele Merkle, Director, Air Navigation Bureau, International Civil Aviation Organization (ICAO)
<b>End of Day 4</b>	