

Hosted By:



Strategic Partner:



# MASS '26

MALAYSIA AVIATION SAFETY SEMINAR

**ADVANCING SAFETY THROUGH TECHNOLOGY**

**10 SEPTEMBER 2026**

Mandarin Oriental, Kuala Lumpur, Malaysia

# The Story of

# MASS '26

MALAYSIA AVIATION SAFETY SEMINAR

As aviation enters an era defined by artificial intelligence, automation and digital transformation, maintaining and enhancing safety requires stronger collaboration across regulators, industry and technology partners.

Malaysia Aviation Safety Seminar 2026 serves as a premier platform for thought leadership, technical exchange and strategic dialogue on the future of aviation safety. Bringing together experts from government, international organisations, manufacturers, airlines, academia and technology providers, the seminar encourages meaningful discussions on emerging challenges and innovative solutions.

Through knowledge sharing and partnership, MASS'26 reinforces Malaysia's commitment to strengthening safety promotion and supporting a resilient aviation ecosystem for the future.

Now in its third edition, the Malaysia Aviation Safety Seminar has evolved into CAAM's flagship safety promotion initiative under the State Safety Programme.

This year's theme,

***“Advancing Safety Through Technology”***

reflects the rapid transformation of aviation through artificial intelligence, predictive analytics, automation, digital systems and next-generation aircraft technologies.

Whether through strategic discussions or technical exchanges, MASS'26 provides participants with valuable insights into the technologies shaping tomorrow's aviation industry.



# Why MASS '26

MALAYSIA AVIATION SAFETY SEMINAR

- **Promote** proactive aviation safety through innovation and technology.
- **Facilitate** dialogue between regulators, manufacturers, operators and international organisations.
- **Share** best practices and emerging trends in safety management.
- **Strengthen** collaboration across the aviation ecosystem.
- Support continuous improvement of Malaysia's aviation safety framework.



## LAUNCH OF MASP 2026 - 2028

The master planning document detailing a Malaysia strategic direction for managing aviation safety.



## AVIATION SAFETY AWARDS

Celebrate excellence and contributions to aviation safety within the Malaysian aviation sector.



## HIGH-LEVEL PANEL

A panel discussion featuring top aviation leaders and decision-makers.

8

## BREAKOUT SESSION

Four parallel tracks featuring SMEs and industry practitioners discussing key aviation safety topics.

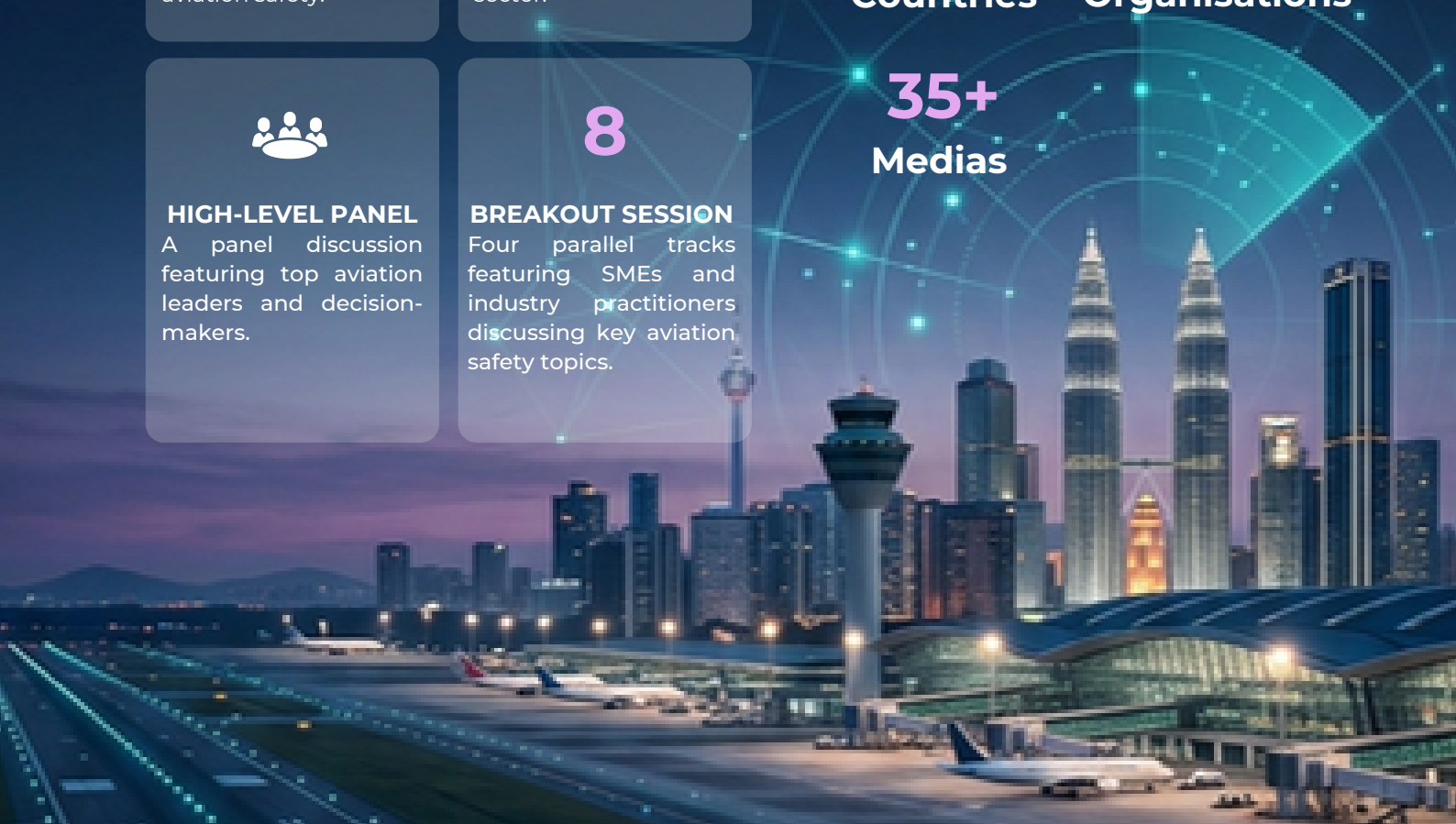
400+  
Global  
Participants

30  
Speakers

39+  
Countries

100+  
Organisations

35+  
Medias



# Explore Four Specialist Tracks



## Track A

### AIRCRAFT TECHNOLOGY

Fly-by-wire evolution, electric/hybrid propulsion, AI-embedded avionics and new battery systems create certification and continuing-airworthiness challenges. This track gives engineers and regulators their own space to engage with OEM expertise at the technical level the HLP cannot reach.



## Track B

### AVIATION SAFETY MANAGEMENT

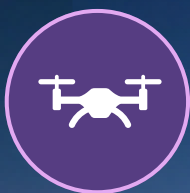
Technology changes not only the hardware but the safety management systems, data pipelines, and human factors that underpin how risk is identified and managed. This track directly continues the SSP Safety Intelligence Briefing by asking: now that we have the data — what do we do with it?



## Track C

### AIR TRAFFIC MANAGEMENT

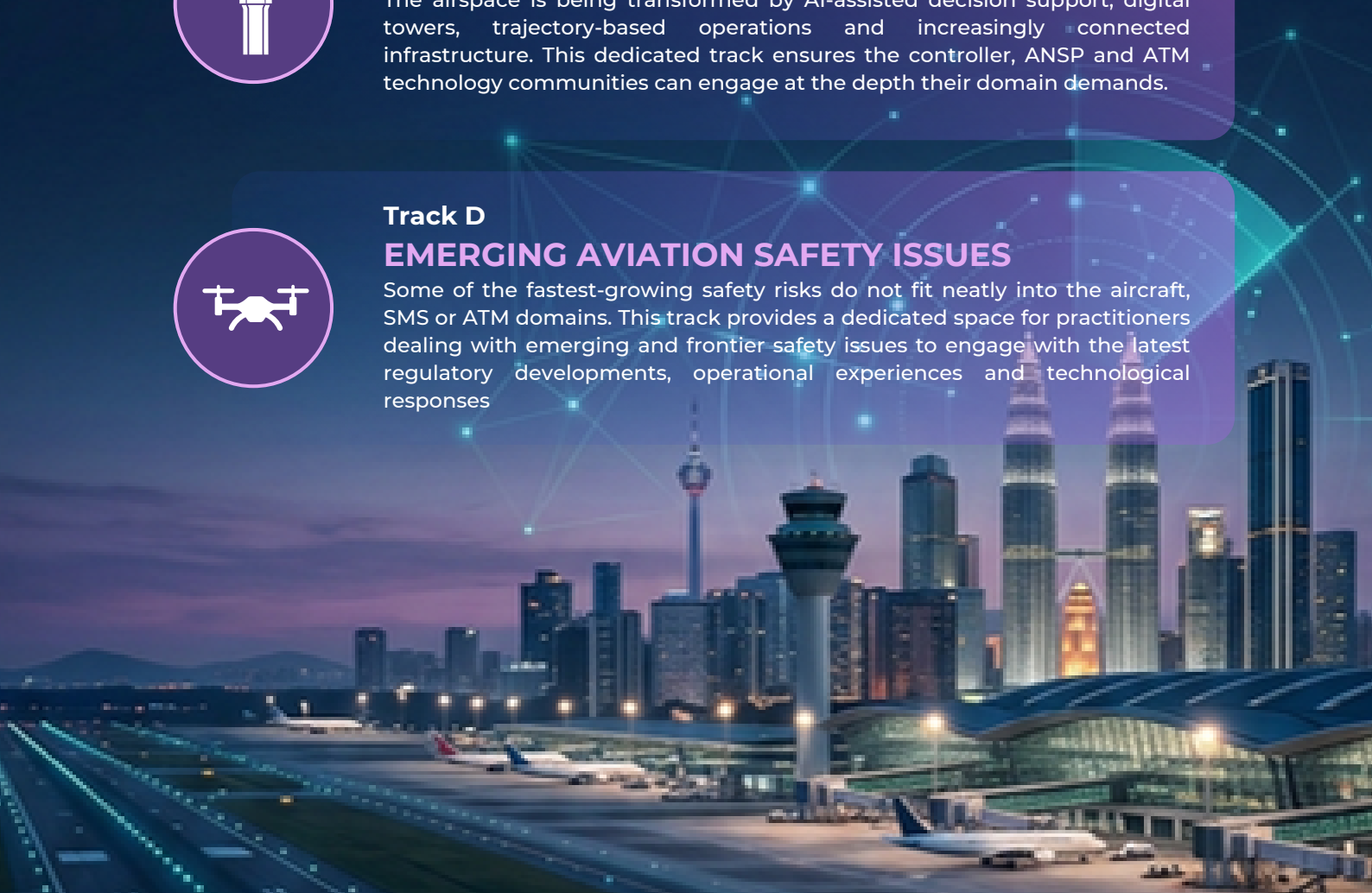
The airspace is being transformed by AI-assisted decision support, digital towers, trajectory-based operations and increasingly connected infrastructure. This dedicated track ensures the controller, ANSP and ATM technology communities can engage at the depth their domain demands.



## Track D

### EMERGING AVIATION SAFETY ISSUES

Some of the fastest-growing safety risks do not fit neatly into the aircraft, SMS or ATM domains. This track provides a dedicated space for practitioners dealing with emerging and frontier safety issues to engage with the latest regulatory developments, operational experiences and technological responses



# Agenda

- 0800 - 0845 | Registration & Welcome Refreshments
- 0845 - 1000 | Opening Ceremony
- Officiation MASS'26
  - Launch of Malaysia Aviation Safety Plan 2026 - 2028
- 1000 - 1010 | Aviation Safety Awards
- The Aviation Awards recognise individuals and organisations within the Malaysian aviation ecosystem who have demonstrated exceptional safety performance or made a significant contribution to aviation safety culture.
- 1010 - 1025 | Networking Morning Break
- 1025 - 1035 | SSP Safety Intelligence Presentation - Malaysia's Safety Data Ecosystem
- 1035 - 1200 | Plenary Session
- "Advancing Safety Through Technology: Leadership Perspectives on AI, Automation and the Future of Global Aviation Safety"**
- The panel will assess the pace of technology adoption against existing regulatory and oversight frameworks, identify gaps in Malaysia's and the wider ASEAN region's readiness, and explore how National Aviation Safety Plans (NASPs) and State Safety Programmes (SSPs) must evolve to keep pace with innovation while maintaining the highest safety standards.
- 1200 - 1300 | Networking Luncheon
- 1300 - 1445 | Breakout Session : Track A
- "The Next-Generation Aircraft: Manufacturer, Operator, ANSP and Regulator Perspectives on the Future of Flight"**
- A forward-looking session bringing together manufacturers, operators, ANSPs and the regulator to discuss next-generation aircraft — advanced fly-by-wire and more-electric/hybrid-electric architectures, new propulsion (sustainable fuels, hydrogen, electric/hybrid-electric), enhanced avionics and integrated health-monitoring — and the certification, airspace and continuing-airworthiness implications as these aircraft enter service.
- Breakout Session: Track B
- "Just Culture & Human Factors in a Technology-Driven Environment"**
- This session examines how the principles of just culture and human factors must evolve as automation, AI and new technologies become embedded in aviation operations. It addresses tensions between safety reporting cultures and new technological accountability frameworks, the human factors implications of increased automation (e.g., skill fade, automation complacency), and practical approaches to training and organisational culture that support safe technology adoption.

# Agenda

1300 - 1445

Breakout Session: Track C

## **"Digital Transformation in ATM: Automation, Decision Support and Remote/Digital Tower Operations"**

Directly continues the High-Level Panel's automation theme — examining AI-assisted decision support, automated separation tools, trajectory-based operations and the deployment of remote/digital towers, including the human-machine interface, workload and situational-awareness implications as these technologies reach smaller or regional airports.

Breakout Session: Track D

## **"Aviation Mental Health: Technology-Enabled Screening, Early Intervention and a Safety-Positive Wellbeing Culture"**

Mental health is increasingly recognised as a critical aviation safety issue. This session explores how technology-enabled solutions, evolving regulatory frameworks and organisational support programmes can facilitate early intervention, reduce barriers to seeking help and foster a safety-positive culture where wellbeing is treated as a shared safety responsibility.

1445 - 1515

Networking Afternoon Break

1515 - 1700

Breakout Session: Track A

## **"Certifying Tomorrow's Aircraft: Regulatory Pathways for Automation & Electric Propulsion"**

This session explores how aircraft certification frameworks are adapting to the dual challenge of increasing flight-deck automation and the emergence of electric and hybrid-electric propulsion. With the FAA, Boeing and Airbus all participating in MASS'26, this session offers a rare three-perspective exchange — regulator, civil aviation authority and OEM — on how type certification for highly automated and electrically propelled aircraft is evolving globally, and what this means for Malaysia's regulatory capability.

Breakout Session: Track B

## **"Safety Intelligence: From Concept to Capability - Harnessing AI as the Analytical Engine of Modern Safety Management"**

Anchored in ICAO Doc 10159 (Manual on the Safety Intelligence Approach), this session positions safety intelligence as a structured, intelligence-led capability — not a reporting system — that converts raw safety data into actionable, decision-ready insight for regulators and operators. The session traces the full intelligence cycle (collection, processing, analysis, dissemination) and demonstrates how AI functions as the analytical engine at its core.

Breakout Session: Track C

## **"Cybersecurity & GNSS Resilience: Securing ATM Navigation, Surveillance and Critical Infrastructure"**

Extends the High-Level Panel's technology-risk theme into cybersecurity and the rapidly rising incidence of GNSS jamming and spoofing — addressing threats to ATM navigation, surveillance and critical infrastructure, and the resilience and information-sharing measures needed as systems become more connected and exposed.



# Agenda

1515 - 1700

Breakout Session: Track D

## **“Lithium-Ion Battery Safety: Managing the Risk from Passenger-Carries Devices and Power Banks”**

An increasing share of in-flight fire occurrences now involve lithium-ion batteries in passengers' personal electronic devices and power banks rather than aircraft systems — an emerging safety issue driven by the sheer growth in carry-on devices. This session examines ICAO's dangerous goods guidance on the carriage of portable electronic devices and spare lithium batteries, the regulatory rationale behind state-level restrictions, the rising trend in reported battery thermal-runaway incidents, and what regulators, airlines and cabin crew need to do from check-in screening to in-flight containment.

1700

| End of MASS'26



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