

Annex A

PROGRAMME FOR ASIA-PACIFIC SUMMIT FOR AVIATION SAFETY

Day 1

Time	Programme
9.00 AM	Welcome Remarks Opening Address Keynote Addresses
10.30 AM	Networking Break
10.45 AM	Shaping Safety Excellence: A Human-Focused Approach Executive Panel
12.00 PM	Networking Lunch
1.15 PM	Session 1 Fostering a Positive Safety Culture Panel A safety culture encompasses the shared values, beliefs, and norms that shape individuals' attitudes and actions towards safety within their organisations. Cultivating and sustaining a positive safety culture necessitates a human-centred approach that needs to consider psychological, social, cultural, and organisational influences on human behaviour. Given the wide ethnic diversity and varying social norms in the Asia-Pacific region, are there strategies or methods that may be more adapted and suited to this region, to assimilate individuals into one's organisational safety culture? Or will what have been done in other parts of the world work as well for Asia Pacific? During this session, leading experts will discuss strategies for fostering a human-centred, positive safety culture, as well as the opportunities and challenges associated with this endeavour taking into consideration the Asia-Pacific context.
2.30 PM	Session 2 Taking a Holistic Approach to Runway Safety Presentation/Panel Runway Safety (which includes runway incursion and excursion) has been identified as a high-risk event occurring at high frequency. With post-pandemic aviation growth in the Asia-Pacific region projected to be higher than the global average, it is to be expected that the volume and cadence of activities within the taxiways and runways will intensify. At the same time, we see many new airports being built in the region whilst other existing ones undergo expansion works. These developments increase the associated risks and probability for runway related incidents. While systems and processes can be put in place to help address this, ultimately humans are involved and responsible for operating the systems and implementing the processes. Thus, human factors/performance significantly influences runway safety, such as human-to-human interfaces between pilots and air traffic controllers, making appropriate decisions, particularly during high workload situations. During this session, panellists from various domains will provide insights on where and how human performance can be enhanced to improve runway safety.
3.45 PM	Networking Break
4.15 PM	Session 3 Artificial Intelligence and the Future of Automation Panel The global transformation driven by Artificial Intelligence (AI) and future automation is significantly impacting the aviation industry, presenting both opportunities and challenges in improving safety and efficiency. However, these technologies also prompt critical considerations about how this

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	technology can be deemed safe for use. Should the design philosophy revolve around using the technology to complement the human, or is it the human complementing the technology? Will leapfrogging to a full AI operating environment (e.g. AI air traffic controller interfacing with AI pilot) be safer than having humans remain in the loop? In this session, panellists from diverse domains will explore and offer their perspectives on where and how AI could be introduced, its impact on the human role in aviation. They will also discuss strategies and best practices to facilitate a seamless transition and ensure safe operations amidst these changes.
5.15 PM	End of Day 1 Summit

Day 2

Time	Programme
9.00 AM	Keynote Address
9.30 AM	<p>Session 4 Selecting for Success Presentation/Panel</p> <p>The aviation industry requires a diverse set of technical and non-technical competencies for roles such as pilots, aircraft maintenance engineers, and air traffic controllers, all of which are critical for maintaining safety, efficiency, and quality in aviation operations and services. The effort and investment poured into training potential candidates is no small amount. How can employers, educators, and policymakers ensure the effective selection of candidates for these critical roles to maximise return? Is there also a need to balance against having too stringent selection criteria resulting in a drastic reduction of new entrants to the industry? During this session, panellists will offer their insights and experiences on identifying the predictors of success for aviation professionals. They will also address potential blind spots, challenges, and opportunities to consider in this process.</p>
10.45 AM	Networking Break
11.15 AM	<p>Session 5 Evolving Training Methodologies for the Future Presentation/Panel</p> <p>Aviation training methodologies have evolved significantly over the past few decades. In the past, curricula for training programmes were set at a high level and the training design and approach was primarily left up to individual instructors. The emergence of performance-based approaches used a reverse engineering approach that set training objectives that more closely matched the needs of the job. In recent years, training methodologies have evolved to include core competencies and evidence-based training. This expert panel will explore the suitability of existing methodologies and where they may need to evolve in the face of rapidly evolving aviation technologies and the training styles of our next generation of aviation professionals.</p>
12.30 PM	Networking Lunch
1.45 PM	<p>Flash Talk Knowledge Management and Learning from all Operations</p> <p>In an increasingly interconnected and complex aviation system, it is imperative to learn not only from things that rarely go wrong but also from things that go right. This approach will become increasingly important as the aviation sector, over the next few years, will face one of the largest generational shifts in its workforce. The Asia Pacific aviation system is already facing human resource shortages and is poised to resume its unparalleled growth that will increase the demand for skilled human resources. This will occur in parallel with many projected retirements in the next few years. Our flash talk speaker will present some initial ideas on how learning from all operations could be applied to capture the wisdom</p>

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	that we have accumulated on those things that go right to maintain and build upon the safety record that we have today.
2.15 PM	Session 6 Addressing Automation Complacency Presentation/Panel There are well-known vulnerabilities associated with flight crew management of automation and associated loss of situation awareness. Industry groups, research institutions, and regulators have developed reports, studies, and recommendations to address these vulnerabilities. This diverse expert panel will discuss various means to address the existing risks of automation complacency.
3.30 PM	Networking Break
4.00 PM	Session 7 Managing Fatigue Presentation/Panel The evolution from prescriptive flight and duty time limits to performance-based fatigue risk management for flight crew members has advanced significantly over the past decade. Fatigue risk management is founded on the use of scientific principles and advanced approaches towards measuring and mitigating the risk of fatigue. The approach is now being used across several aviation disciplines, including air traffic control. The Fatigue Risk Management Systems (FRMS) approach represents an opportunity for service providers to use advances in scientific knowledge to improve safety, use resources more efficiently, and increase operational flexibility. At the same time, advances have been made in developing prescriptive limits based on the application of safety management systems. This panel of leading experts will explore advances made in fatigue risk management, as well as flight and duty time limits, across aviation disciplines.
5.15 PM	End of Day 2 Summit

Day 3

Time	Programme
9.00 AM	Keynote Address
9.30 AM	Session 8 Reinforcing the Importance of Mental Health for Aviation Safety Presentation/Panel While the aviation system has benefited from astounding technological advancements and automation, the human in the loop is still critical to aviation safety. Aviation professionals are expected to perform their respective functions within the system with a high level of reliability. It is well accepted that the mental health and well-being of these individuals would exert an impact on their performance. Yet issues of mental health and well-being of individuals are complex and multi-faceted in nature. This panel of experts will share their views on the challenges faced both by aviation organisations in safeguarding and promoting the mental health and well-being of their workers, and those faced by professionals, with a focus on reporting issues, and the approaches that can be taken to level up efforts with time.
10.45 AM	Networking Break
11.15 AM	Wrap-up: Summary of Discussion Points and Key Take-aways
12.00 PM	Closing Remarks
12.20 PM	End of Day 3 Summit