Smarter Skies, More Resilient Systems: The Future of Commercial Aviation

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Michael Guterres is a recognized expert in advanced aviation, with more than 20 years of experience spanning civil aviation, defense, and emerging aerospace technologies. In this role, he directs a diverse portfolio of programs with U.S. federal, state, and international government partners, as well as private-sector stakeholders, focused on the operational integration and implementation of Advanced Air Mobility (AAM), Unmanned Aircraft Systems(UAS), and counter UAS. His work connects strategy to execution, advanced technology deployment, infrastructure modernization, safety and risk management, aviation policy and operations, automation and data-driven decision support, and the broader societal and economic impacts of new aviation concepts.

Before joining MITRE, Guterres served as Director of Engineering at Textron Systems, where he led engineering, product development, and strategy for a major unmanned systems business. He directed end-to-end aircraft system development including R&D, design, integration, flight test, and transition to production with accountability for technical performance, cost, and schedule. His systems have flown over one million flight hours in operational theaters. Guterres has published widely in aviation and aerospace venues (including AIAA, SAE, and leading industry conferences), holds multiple U.S. patents, and is a frequent public speaker on emerging aviation operations, integration strategy, and aviation technology in the United States and internationally. He earned a Ph.D. in Aerospace Engineering from the University of Maryland, College Park, and an Artificial Intelligence for Business Certificate from the University of California, Berkeley Haas School of Business.