

Impact of Emerging Technologies on Aviation Training

ICAO EUR/NAT Training Workshop
11 March 2025

Dan Sloat, JD/MBA FRAeS



Operational Background

- Prior US Air Force Captain
- C2 Air Battle Manager
- UAS Traffic Management
 - 13,000 Drones during OEF
- Part 107 Remote Pilot
- Part 61 Private Pilot
- Humanitarian Service Medal



Industry Background

- President of Electro Aero
- Former Chief Executive Officer of Volatus Infrastructure
- Former Chief Aeronautics Officer of PowerUp America
- World Economic Forum Advisor
- Professor of AAM at UArk
- Founder of the Advanced Air Mobility Institute



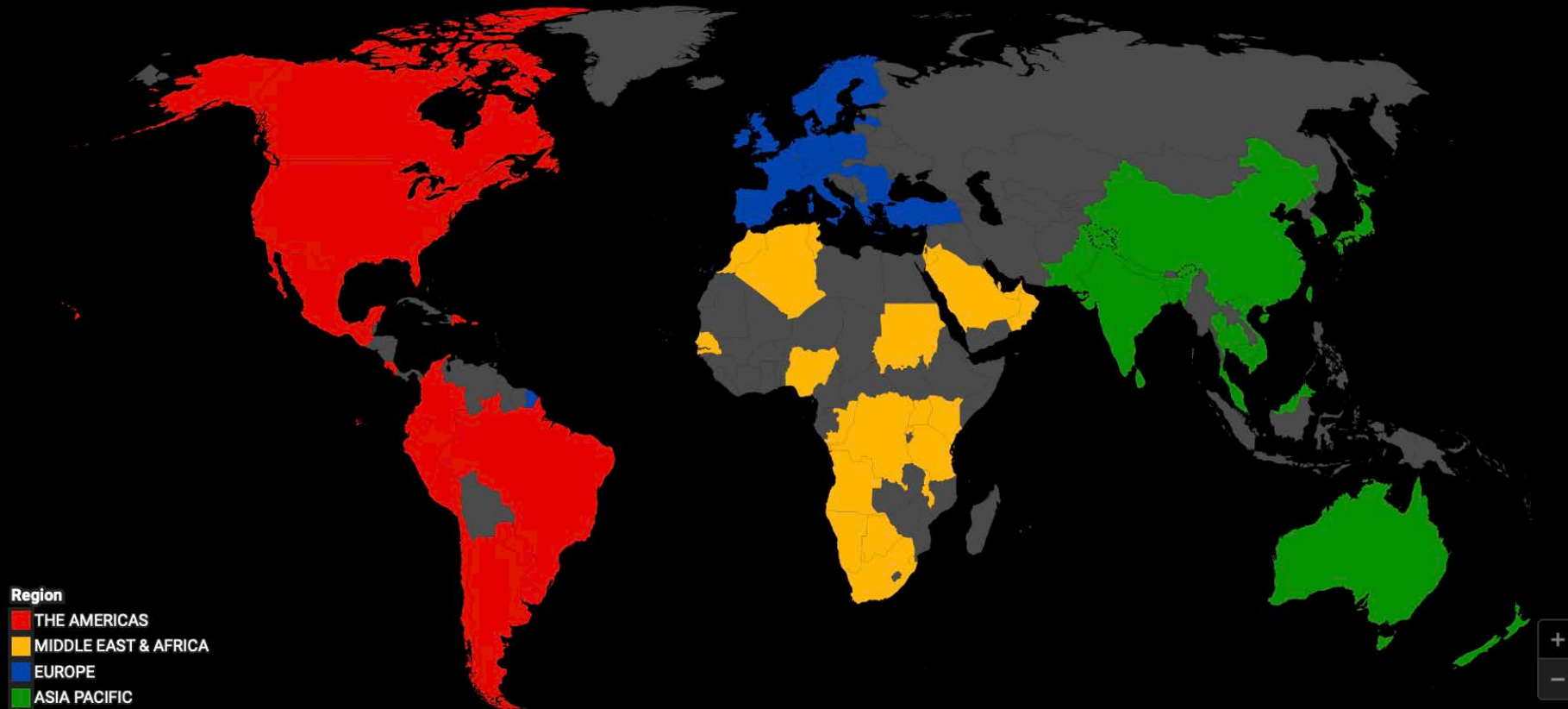
Advanced Air Mobility Institute

- 501(c)3 nonprofit research center dedicated to educating and advocating for the broadest public benefit through the aviation ecosystem globally
- 300+ industry experts around the world sharing best practices in UAS and AAM research
- AAM is an ecosystem of emerging aviation technology designed to more sustainably connect people and goods with zero emission, electric flights



Advanced Air Mobility Institute

BOARD OF LIAISONS GLOBAL COVERAGE MAP



Advanced Air Mobility Institute

GUIDING PRINCIPLES



Safety

Prioritizing safety & emergency response will maximize benefits

[Learn more](#)



Dignity

Educating citizens on both risks & rewards will foster public trust

[Learn more](#)



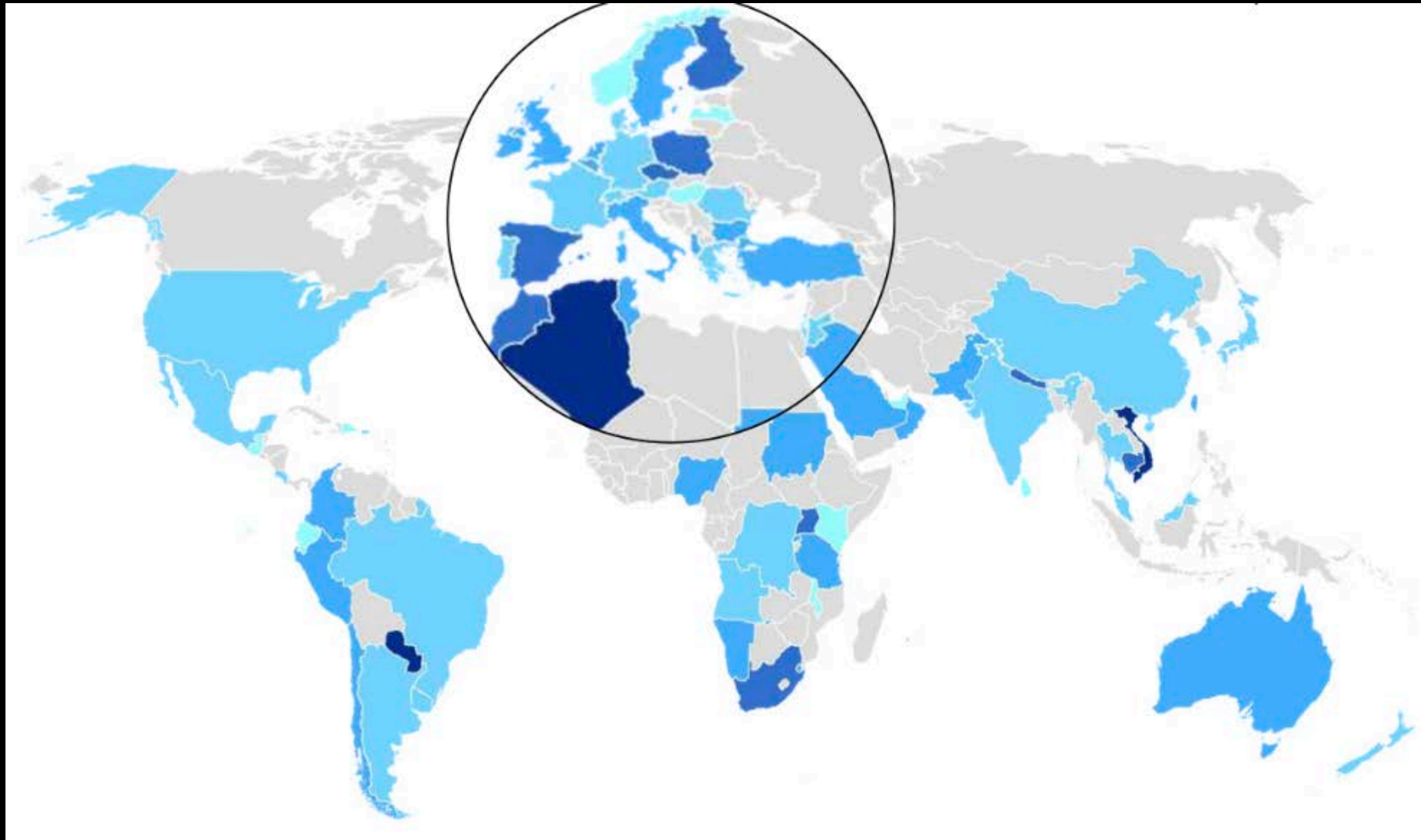
Resilience

Investing in critical systems early & often will reduce vulnerability

[Learn more](#)

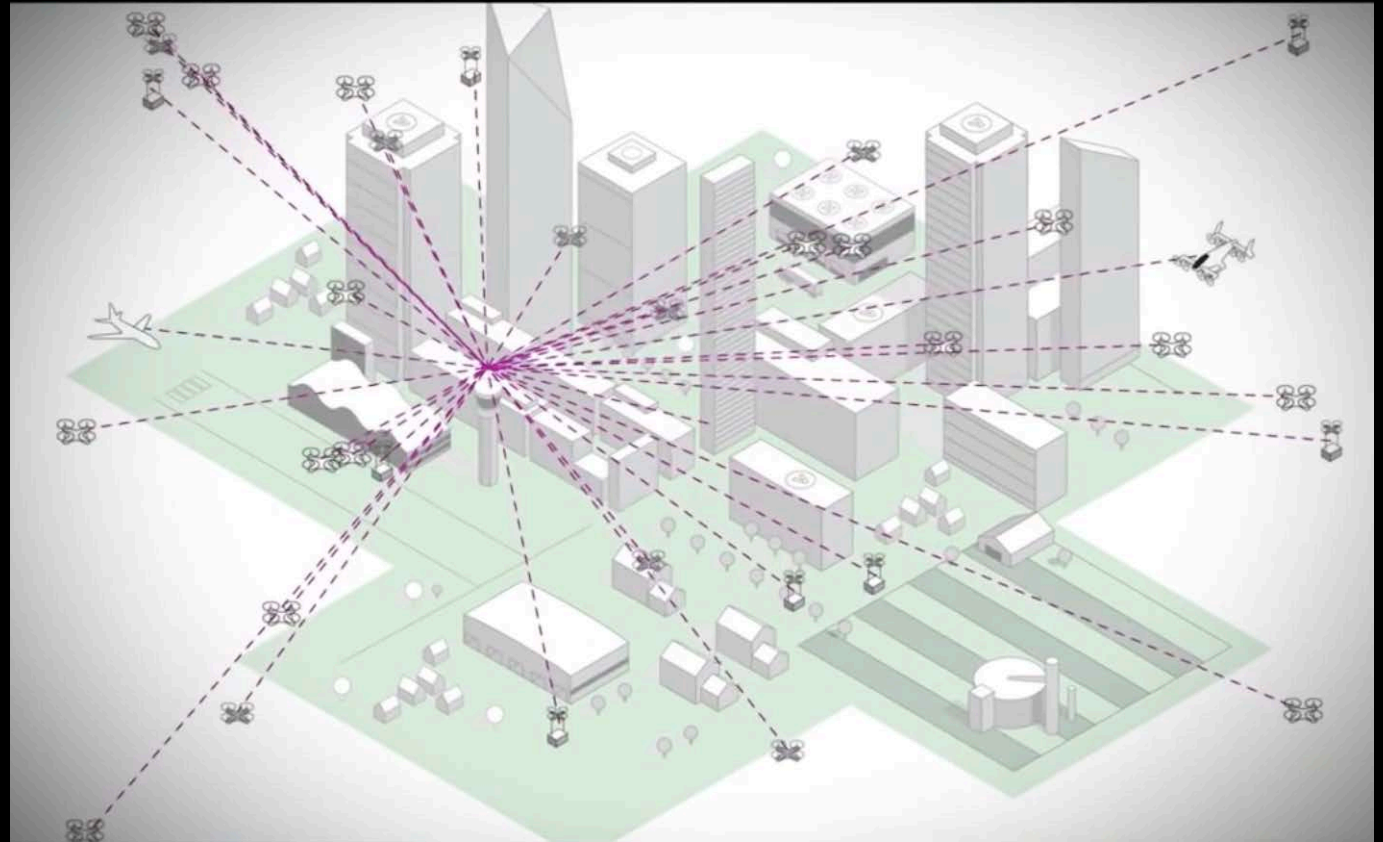


eVTOL Market Entry Timeline: GAAMF W2025



UAS Traffic Management

- Safe Orchestration
- Low Altitude (<10k ft)
- **Common Air Picture**
- V2V Communications
- “Digital Flight Rules”
 - **See & Avoid**
 - **Voice Separation**



Source: <https://www.youtube.com/watch?v=vapo3q87Grc>

Source: <https://ntrs.nasa.gov/api/citations/20220013225/downloads/NASA-TM-20220013225.pdf>



eVTOL Pilot Training & Qualification

- Phase I: Pilot On Board
- Phase II: Off Board
- Treat eVTOL Pilots with Dignity and help upskill to new jobs
- **Avoid the Strike!** (2054)
- Phase III: Fully Autonomous eVTOL Operations



Source: <https://www.flyingmag.com/beta-technologies-an-evtol-developer-thats-all-about-flying/>



eVTOL Pilot Training & Qualification

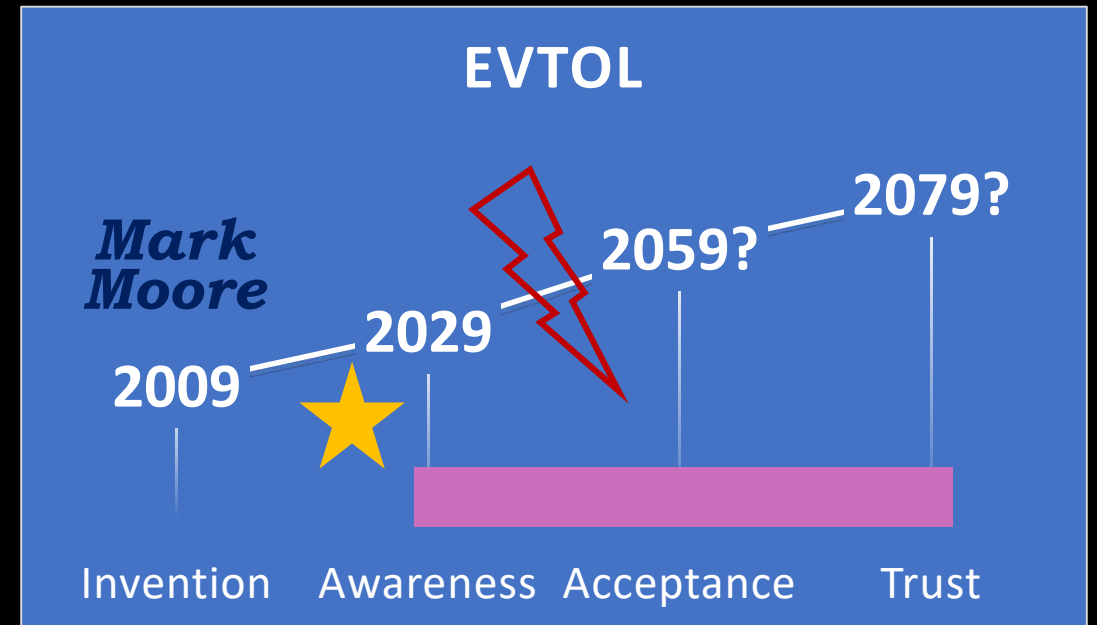
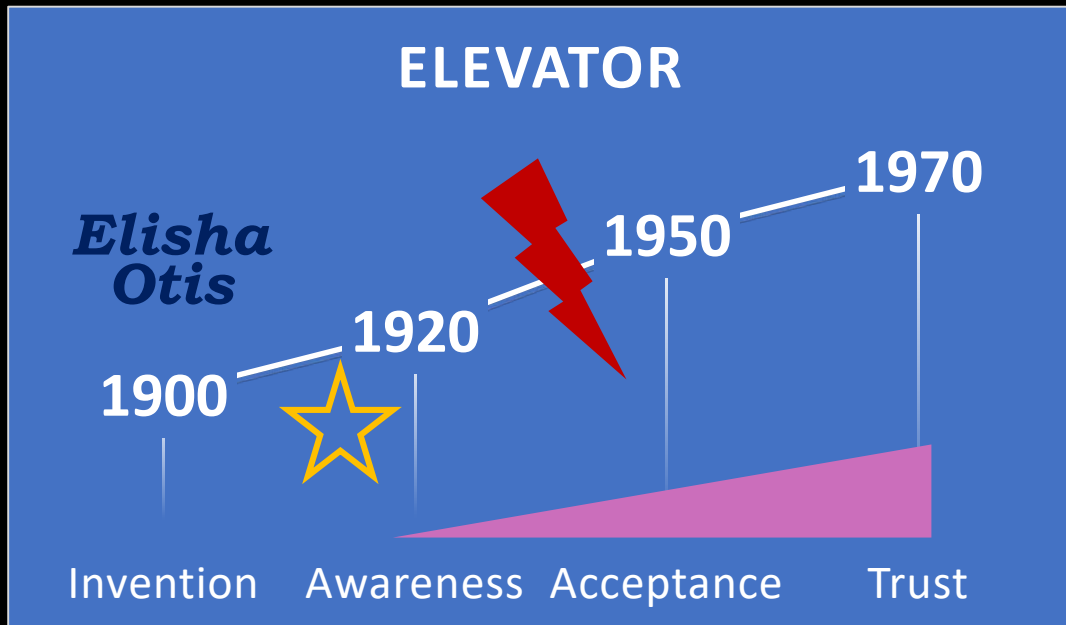
- Phase I: SFAR Powered Lift
- Phase II: Part 107 VLOS /
 - Part 108 BVLOS
- Phase III: TBD
 - Human In the Loop (Active)
 - Human On the Loop (Monitor)



Source: <https://www.faa.gov/newsroom/integration-powered-lift-pilot-certification-and-operations-miscellaneous-amendments>



Technology Adoption Parallels



Fully Automated Electric Vertical Lift:
A Potential Roadmap for eVTOLs



AAM for Human Rights

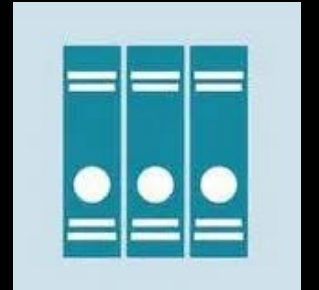
UDHR Article 27:

Everyone has the right to **share in the benefits of our collective scientific achievements.**

*** 80% of the global population has never flown**

Advanced Air Mobility is one of the most exciting collective scientific achievements of our lifetime and the citizens of the world are counting on brilliant innovators like those in this room today.

Let's share the benefits!



“

FOR EMERGING AVIATION
TECHNOLOGY, WE ARE
INCREASING PUBLIC AWARENESS,
ACHIEVING PUBLIC ACCEPTANCE,
AND EARNING PUBLIC TRUST.

— Dan Sloat, Founder

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