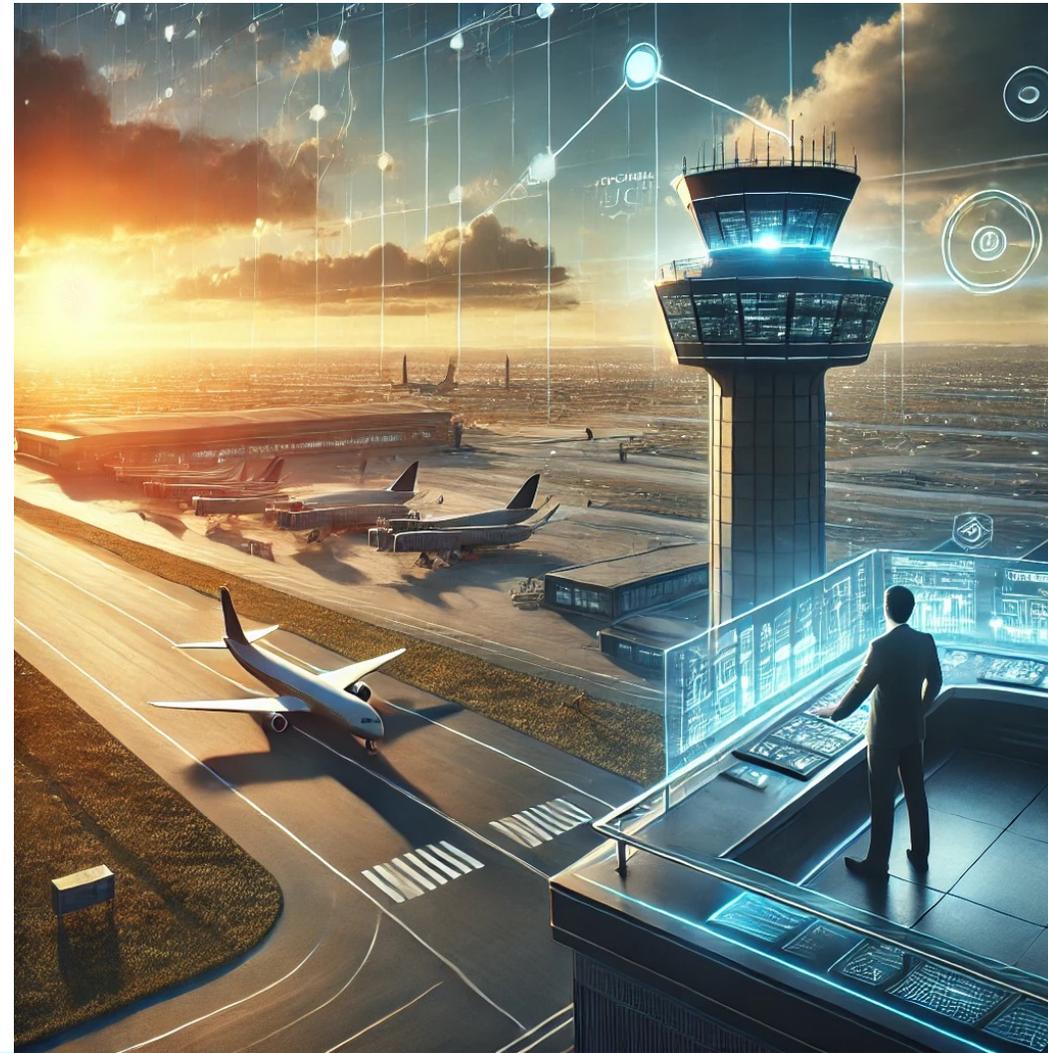




Panel 4 – Socioeconomic Challenges for the Aviation Community

Dr. Stathis Malakis
Air Traffic Controller
IFATCA





- **IFATCA** is the global voice of Air Traffic Controllers.
- **IFATCA's MISSION** : To enhance air traffic safety, to promote the air traffic control profession, and to shape the future of air traffic management.
- **GLOBAL:** IFATCA is an international Federation, with Member Associations in more than 130 countries from all corners of the globe.
- **PROFESSIONAL:** IFATCA unites and defends the professional aspects of the air traffic controller profession.





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What we have done so far.

- Guidance Material.
- Research papers.
- Conference Papers.
- Participation in EU projects.
- Collaboration with stake holders.
- Planning training sessions.





- We view AI/ML as an immersive environment in which air traffic controllers operate.
- Operations rooms are expected to evolve into interactive AI/ML landscapes that integrate seamlessly around air traffic controllers.
- Achieving this requires the adoption of Human-AI teaming frameworks, which are still in development and require further testing.

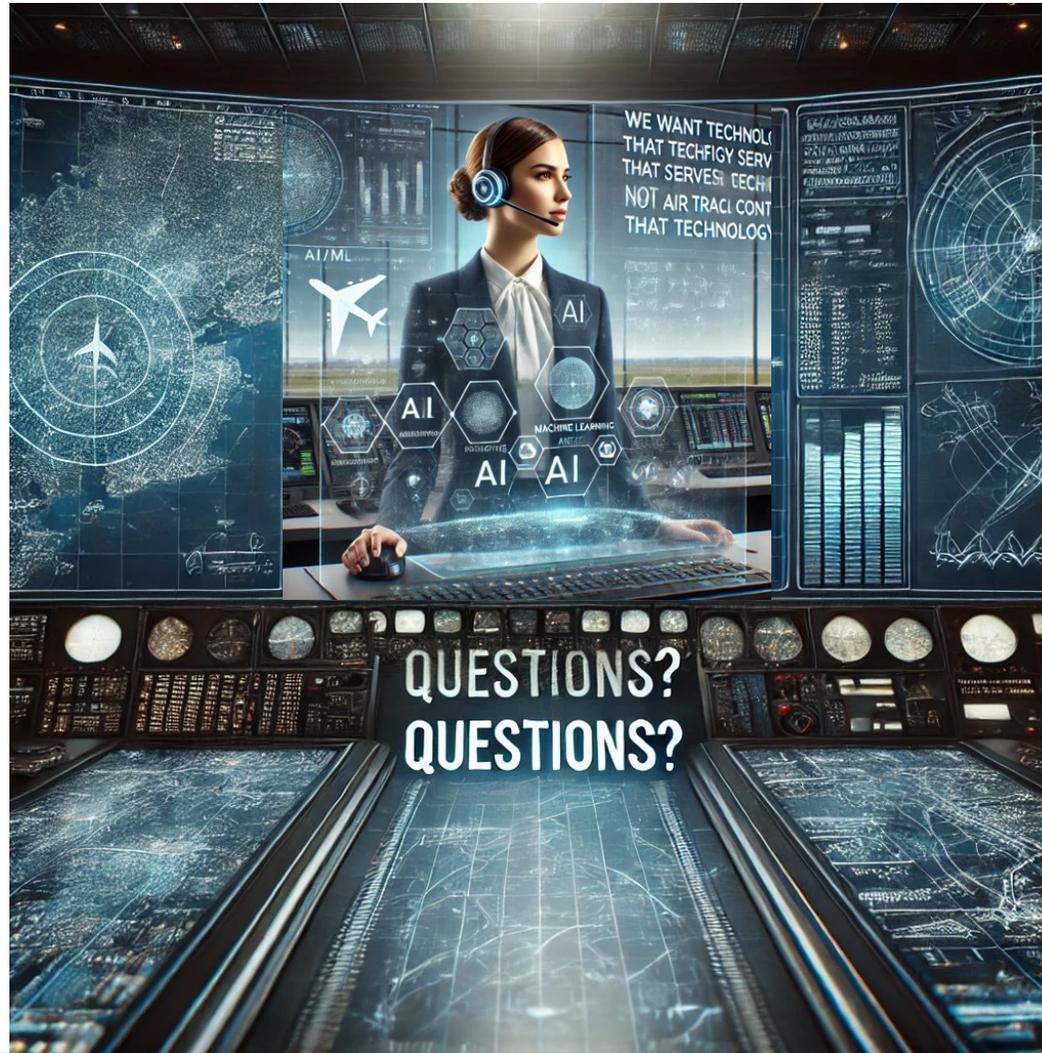




Open Issues...

- **Value Alignment Problem:** Ensuring AI aligns with human values and operational needs.
- **Just Culture Issues:** Addressing fairness and accountability in AI-influenced decisions.
- **Staying in “control”:** Maintaining situational awareness and ability to intervene.
- **De-Skilling Risks:** Mitigating skill erosion due to high AI dependency.
- **Managing Social Impacts:** Addressing relocation, mobility, and community implications.
- **Resistance and Job Security Concerns:** Alleviating ATCO fears regarding AI’s impact on their roles.
- **Demand for New Knowledge and Skills:** Developing expertise suited to AI-enabled operations.





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