

Closing remarks and next steps for AI related research in ATM

RPAS and AI in Aviation

Six SESAR ER projects together to present their results

Stefano Bonelli (Deep Blue)

DAY 2 | AI - 04.11.2022



“Similar” projects

■ PAST/CLOSING PROJECTS

- **HARVIS:** Human Aircraft Roadmap for Virtual Intelligent System (CS2, closed)
- **AISA:** AI Situational Awareness Foundation for Advancing Automation
- **TAPAS:** Towards and Automated and exPlainable ATM System



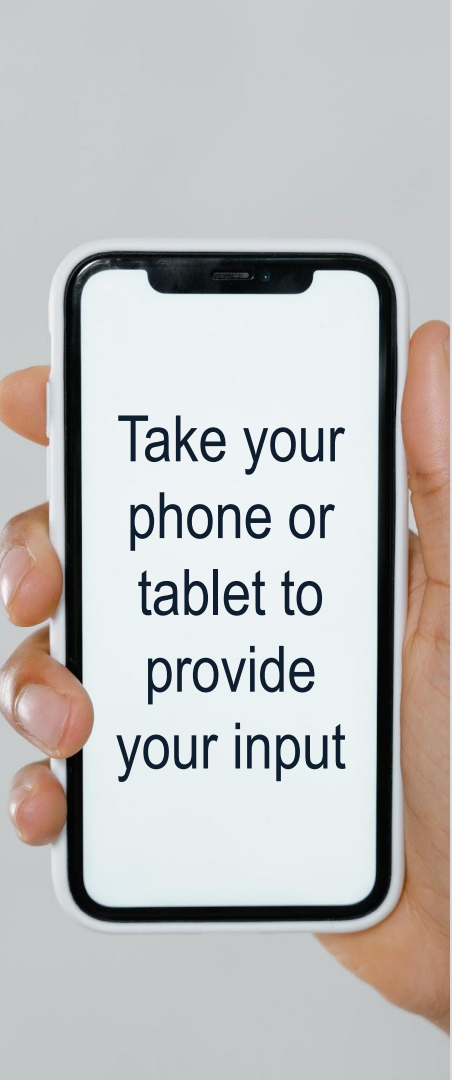


Next steps

■ **ONGOING PROJECTS**

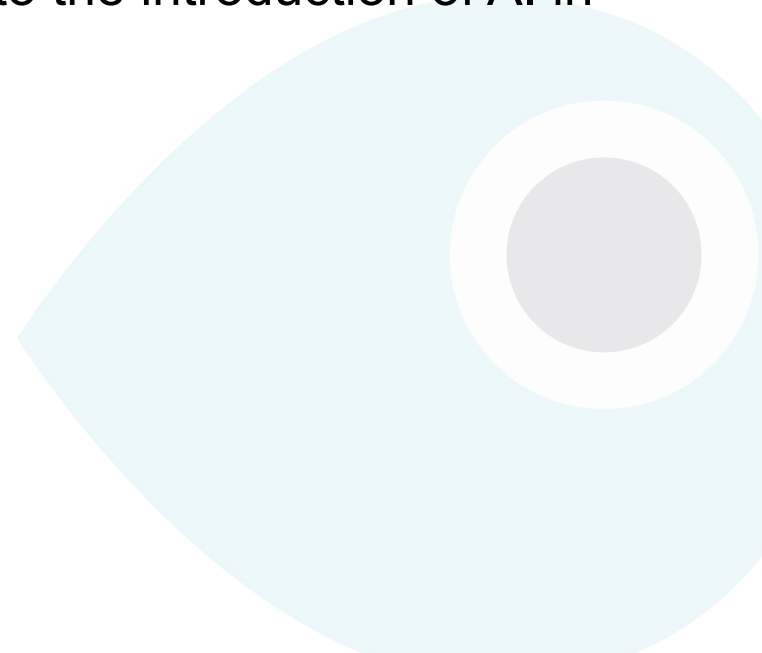
- **HAIKU:** Human AI Teaming Knowledge And Understanding For Aviation Safety
 1. Flightdeck startle response
 2. Flightdeck route planning
 3. Digital Tower
 4. Urban Air Mobility of drones and sky taxi operations
 5. Airport Safety Watch
 6. Monitoring and prevention of COVID-19 spreading in airports

Questions for the audience

A hand is holding a white smartphone. The screen of the phone is white and displays the text "Take your phone or tablet to provide your input" in a black, sans-serif font. The phone is held vertically, and the hand is visible on the left side of the frame.

Take your
phone or
tablet to
provide
your input

- You saw some examples of application of AI to ATM. Let's share now some thoughts and considerations respect to the introduction of AI in the aviation domain.





One thing you are bringing home after this session (e.g. something you learnt, something that shocked you, some ideas that you came up with thanks to what you heard) 14



Anonymous

Maybe that was meant with the sandbox, but the community should organize a common data platform -, preprocessing, data quality insurance is expensive and should not be done by every project again and alone



Anonymous

ATCo likes advisory not too much invasive



Anonymous

Human interaction will and should not die with increasing AI



Anonymous

Where is a common ATM/AI sandbox for reference implementations & benchmarking?



Anonymous

Do not entrust your playlists to AI



Anonymous

Interesting upcoming researches required to find solutions with AI and the human next to each other, working together



Anonymous

Adaptive methodologies may need to be combined (displays and other support tools)... they could use the same physiological measures...



Anonymous

Deepblue is good in organising dissemination events



Anonymous

The big gap between AI expectations and current actual status



Anonymous

AI could open a new digitalized future for ATM



Anonymous

That we should carefully consider the introduction of AI solutions in the Aviation world

Anonymous
AI (technology in general) to adapt to humans rather than humans adapting to technology

Anonymous
Learnings what AAM/UAM can learn for ATM with VTOL aircraft. Use of AI kind of inevitable to operate at scale

Anonymous
AI will face challenges in transferring the basis of decision support to the atco

Anonymous
Check for possible non-AI solutions for your use case 😊

Anonymous
Future vs Reality

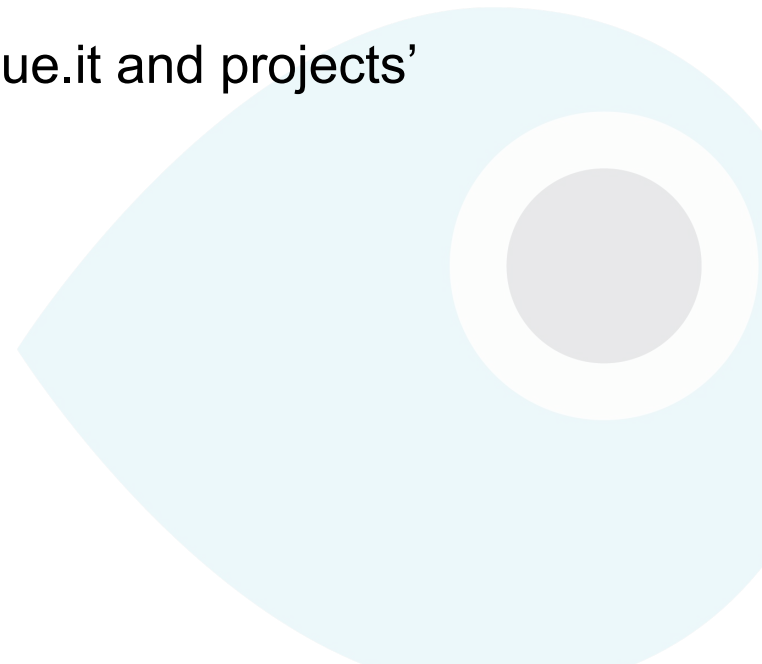
Anonymous
ENAC has cool toys

Anonymous
Ai could be enabler for ATM



Next steps

- **LET'S KEEP IN TOUCH!**
 - Questions and contacts exchange during the break and the demo session
 - Presentations available on dblue.it and projects' websites



**THANK YOU FOR
YOUR
PARTICIPATION**

