Artificial Intelligence in SESAR

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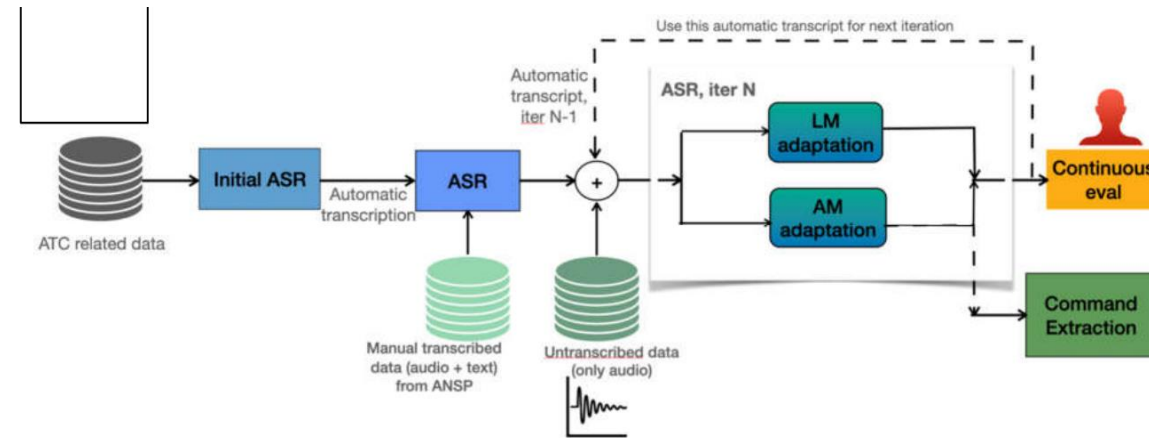
A heavy bag to carry

AI at the heart of the Digital European Sky

- A **comprehensive strategy** and roadmap for R&I

- A **growing portfolio** of AI projects looking at real challenges

- **Fast track innovation** and uptake mechanism

- An **accelerating pace with SESAR3**
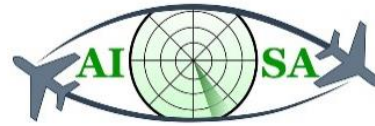
- **Close coordination** with the community

https://www.sesarju.eu/ai

What did you say ?

Highly Automated Air Traffic Controller Workstations with Artificial Intelligence Integration
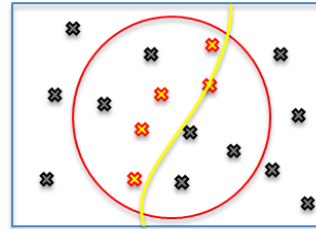
https://www.haawaii.de
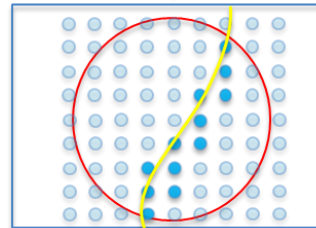
Where are you going ?

1. Waypoint probability (static)
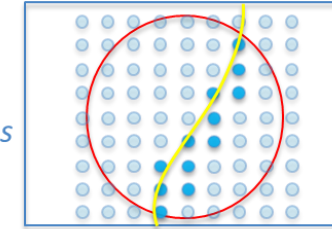
→ [input]
flight plan
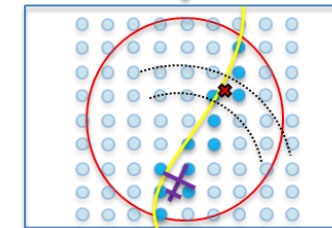
Neural Network

← [output]
waypoint
probabilities

2. Position Prediction (dynamic)

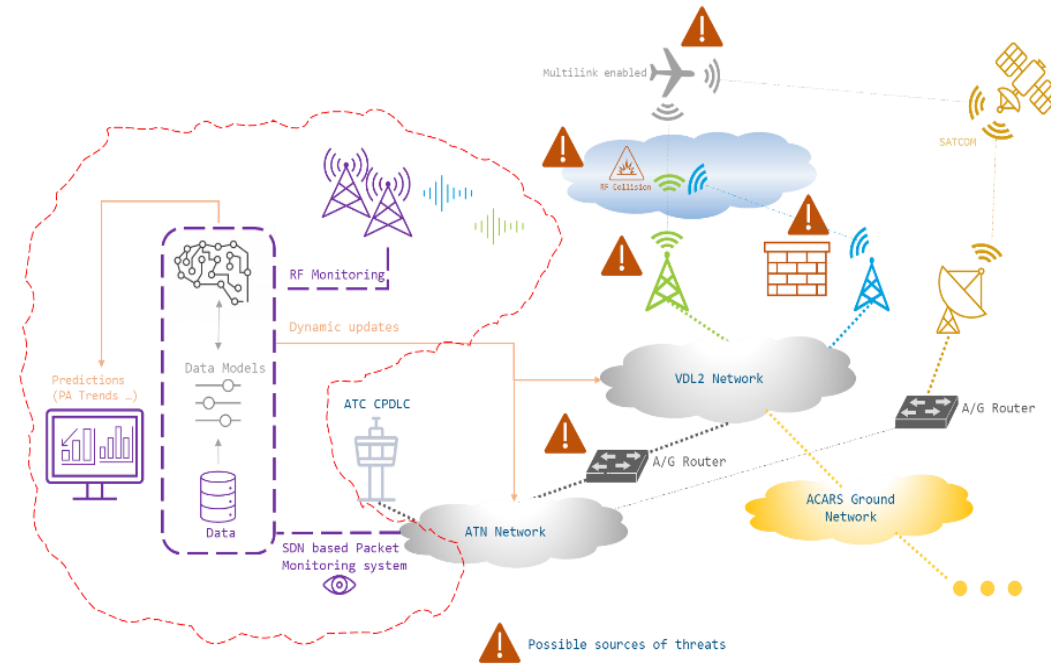waypoint
probabilities

aircraft state
(dynamic) → Position Prediction

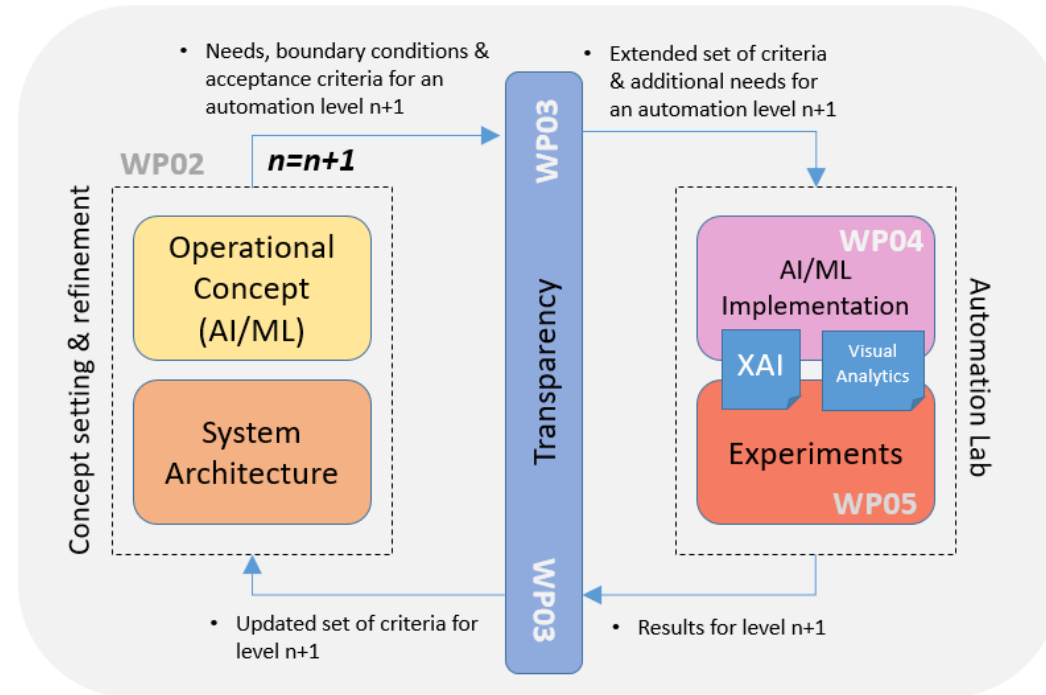AI Situational Awareness Foundation for Advancing Automation

https://www.aisa-project.eu/

Mayday ! We are under attack... SINAPSE

Software defined networking architecture augmented with Artificial Intelligence to improve aeronautical communications performance, security and efficiency

https://sinapse-s2020.eu

Can I trust you ?

Towards an Automated and exPlainable ATM System

https://tapas-atm.eu

THANK YOU FOR
YOUR ATTENTION