



Al for the EURONCONTROL Network Manager



Network Manager is about improving performances

- Network Coordination,
- Capacity Management,
- Flow Management
- Airport integration
- Crisis Management
- Communication-Navigation-Surveillance (CNS)
- Aviation spectrum

And more (e.g):

- Cybersecurity (EATM Cert)
- Information management





Al for the EURONCONTROL Network Manager



iNM [2025]

Our fully digitalised Network

SUPPORTING EUROPEAN AVIATION



Al is a Key Enabler



AI for the Aviation Network



Flow





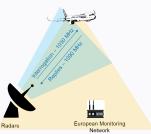
CNS





Working with

NM Operation Centre Airlines **ANSPs** Airports Cyber security experts



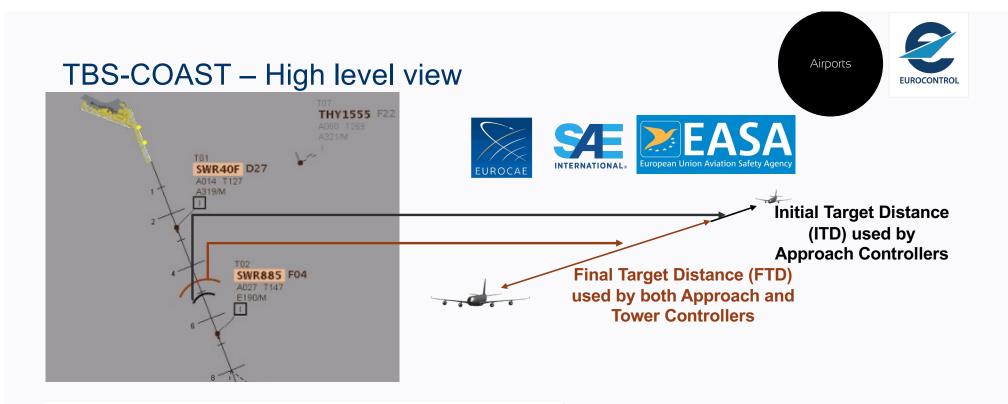






Class "S" Straight Class "H" Hover





COAST is the EUROCONTROL service that, based on SESAR eORD concept, provides airports with the ML-models built for them upon their meteorological and historical flight data

Retraining at each airport remains a **constraint** -Optimisation / standardisation is an enabler



ISOBAR AI



Weather



Demand



LL.

Airspace





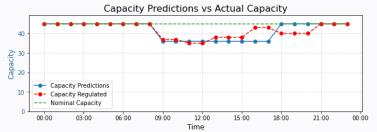


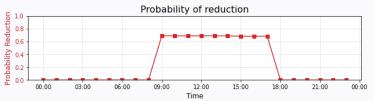
Categorisation

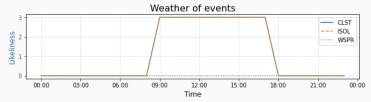
Predictor



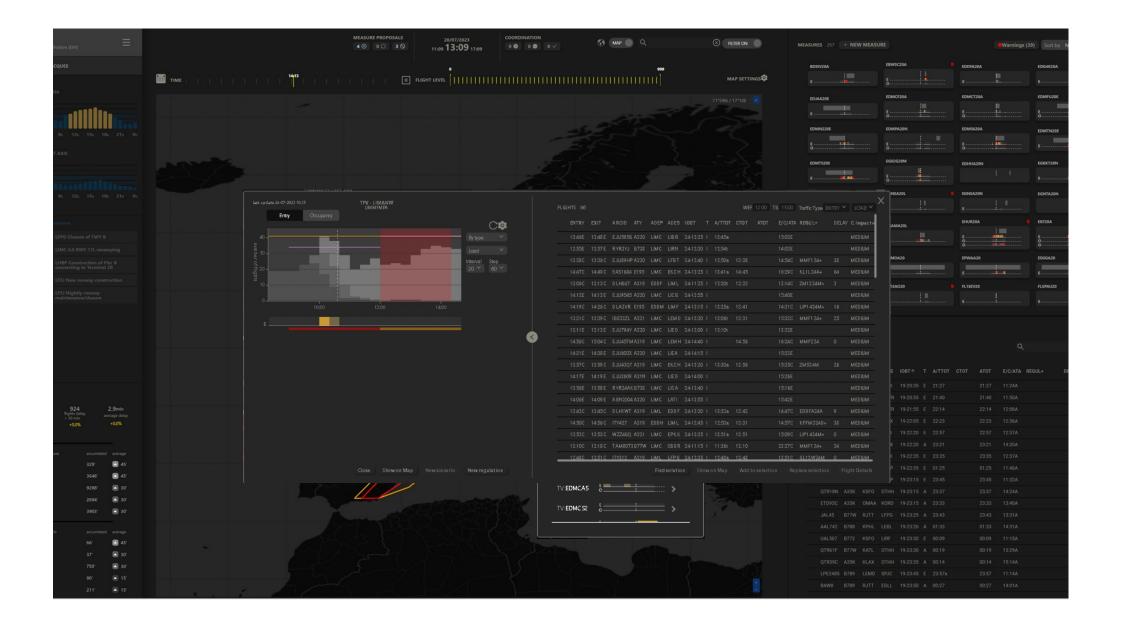








NM Lab – Al for the European Aviation Network





Towards fully digital ATM



Speech Recognition in Controller pilot communications

Will remain (e.g. emergency)

Significant progresses in speech recognition models (e.g. LLMs)

Many use cases (simulation, training, ops, safety investigation...)

Various models, various processes, performances

When certification required - standards required



Need for a standard (involving all aviation stakeholders)

Pilot / Controller taxonomy
Operational performances
Sensitive data management
Speech to context
VCS Frequency
Cyber-Security

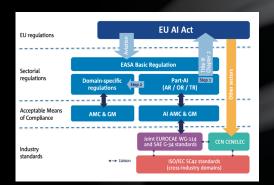


Further deploy AI

in a business driven way to support operational needs

Anticipate **regulation and standardisation** (Al for aviation, upcoming standards) to **deliver safe Al** benefits....







SUPPORTING EUROPEAN AVIATION

