



SUPPORTING
EUROPEAN
AVIATION



Delivering ATM performance with AI

EUROCONTROL's developments

Paul Bosman

EUROCONTROL Network Manager

Head of infrastructure

Fly AI Forum 2025 - 22/04/25



EUROCONTROL at a glance



iNM : fully digitalised Network Management

- Network Coordination
- Capacity Management
- Flow Management
- Airport integration
- Crisis Management
- CNS monitoring
- Aviation spectrum



LATEST FROM NMOC

ACC - MUAC

MUAC controls more than **5,700** aircraft per day

80% of MUAC's traffic is climbing and descending



AI - Key enabler for all !

Innovation Hub

R&I Simulations

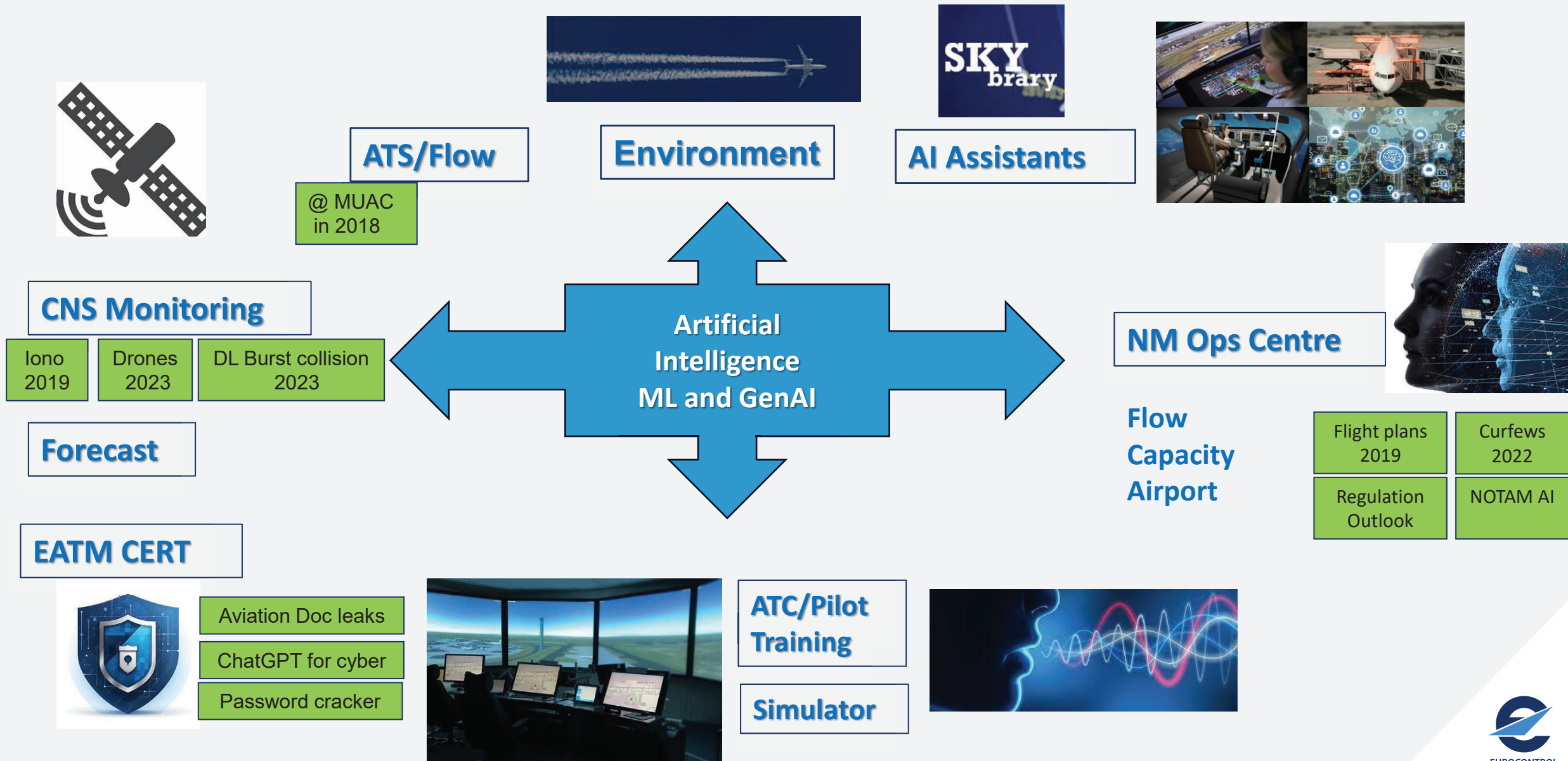


Learning Centre

Training

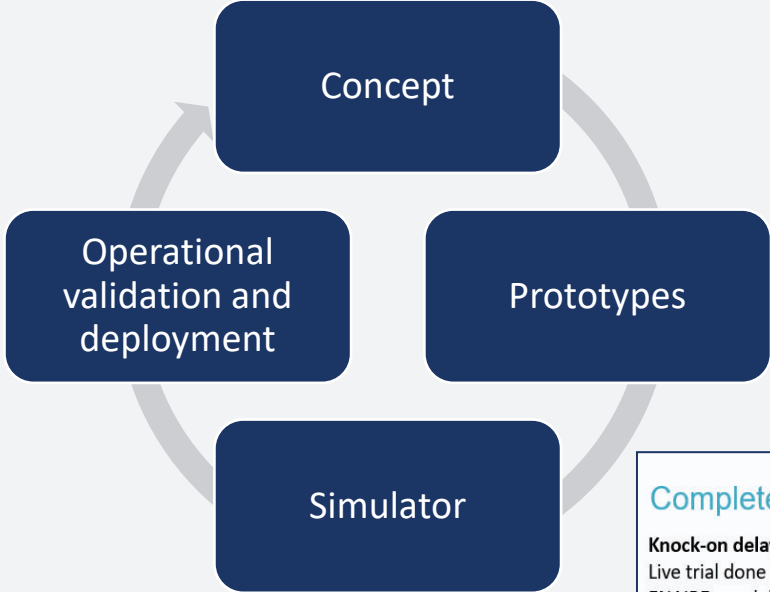
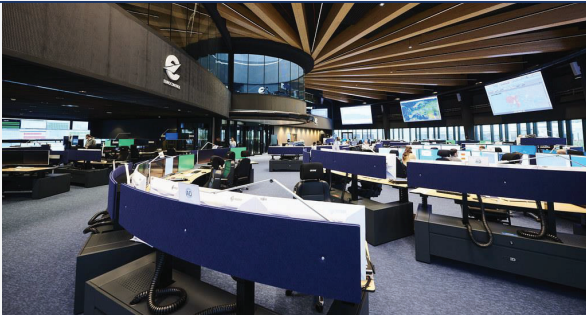


Accelerating AI @ EUROCONTROL : 50+ applications

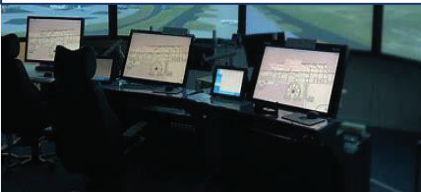


Our R&I pipeline : an adaptative approach to AI integration

NM innovations & early operational adoptions




Real Time simulator
AI Based Pseudo pilots



- DARWIN
 - JARVIS
 - ISLAND
 - Network TBO
 - HAIKU
 - ...
- 

European Air Transport Innovation Network



Completed trials

Knock-on delay visualisation – Live trial done with APTs & ENAIRE, modelling of reactionary delay propagation

On-going live trials

EDDY (Early diversion detection system) – D-1 prediction of WX related diversions

HAWAII – hazardous and adverse weather impact at airports (prediction of WX regulation & APT cap reduction)

PETA (Predicted ETA) – predicted landing time (incl. pre-departure uncertainties)

Trials in pipeline

Taxi-in/Taxi-Out Prediction (TITOP) Incl. Predicted Runway in Use (PRIU)

Deployment

FADE – Prediction of final CTOT (PTOT), in NMP Flight app (35+ airlines)

Curfew infringement prediction – used by AUs and NMOC

PAX Demand prediction service – in NMOC Airport function

- **Agility**
- **User's driven**
- **Deployment by users**

Co-operating for AI in the network

New



SCRIBE
ATC Speech Recognition



Building the Fly AI community together

5 years of awareness actions :

- 2020 Report & action plan
- Webinars
- Annual Fly AI forum

& supporting acceleration in AI deployment

SCRIBE European Community

- Under development
- Supported by





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Thank you!

Paul.bosman@eurocontrol.int

www.eurocontrol.int

