

Eden's Ice Stations

Keith Cartmale
Safety Manager Maastricht Upper Area Control
Centre

To 2025....and beyond!

Introduction to our leading characters and the storyline



Our Hero



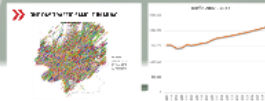
Our Nemesis



Data Scientists



Victims of our own Success?



Traditional Measures of Static Safety



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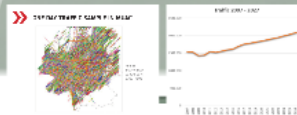
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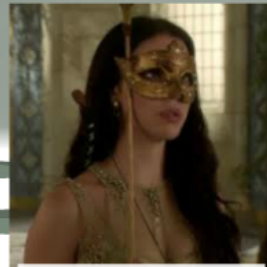


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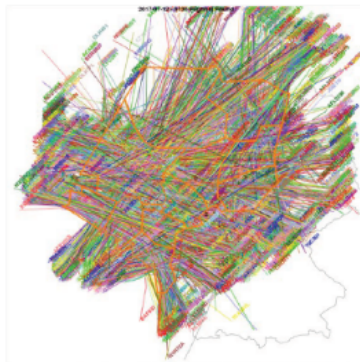
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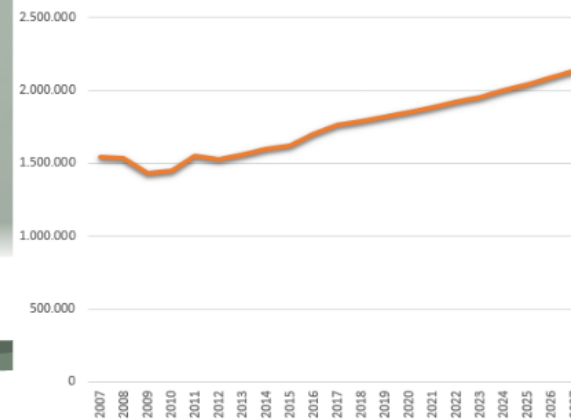


ONE DAY TRAFFIC SAMPLE IN MUAC



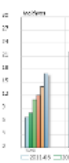
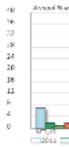
All-time
TRAFFIC PEAK
29 June 2018
5,702 Flights

Traffic 2007 - 2027

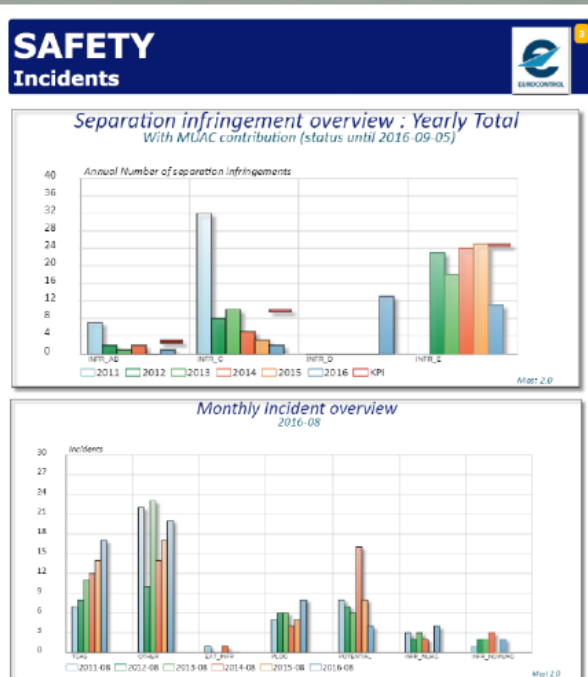


SAFETY Incidents

Separation



Traditional Measures of Static Safety



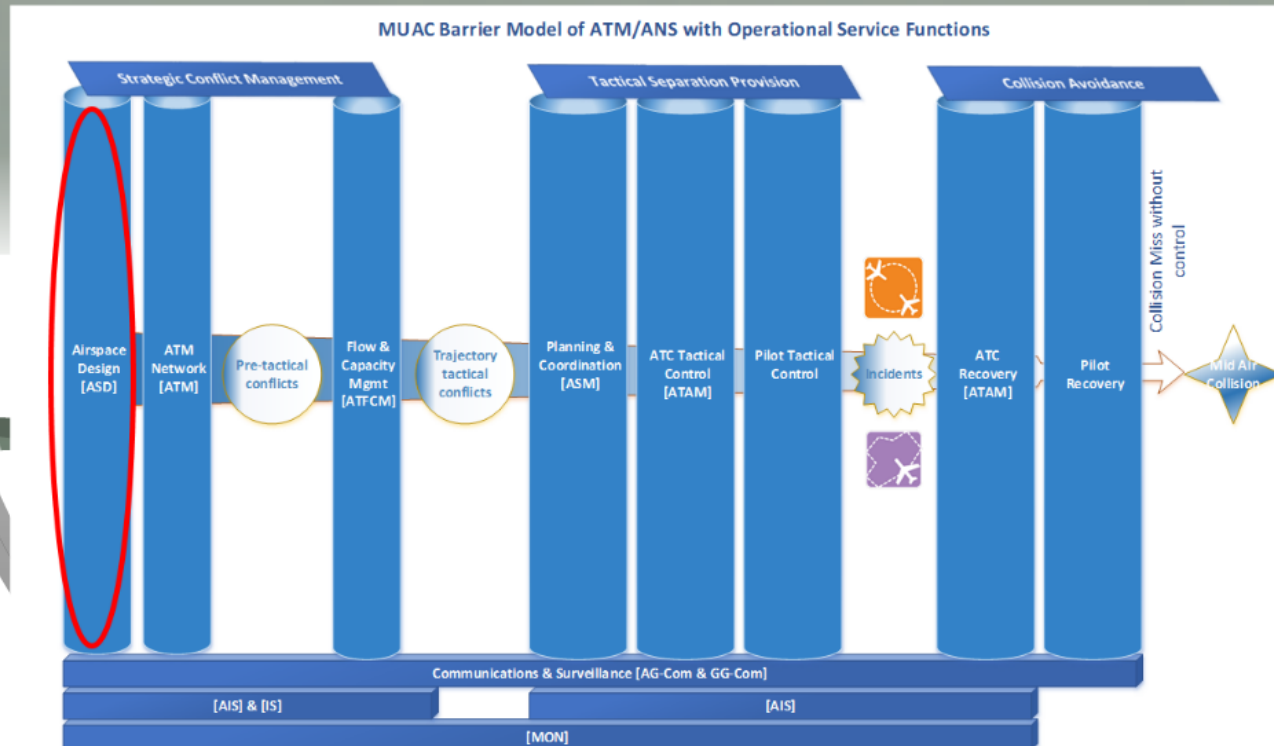
Dyna

To reflect the outside of o



Dynamic Measures of Real Safety

To reflect the real risk and the changes that are happening that are outside of our control



Precision/Predictability

How do we gain extra capacity in an already saturated landscape whilst maintaining the safety standards?

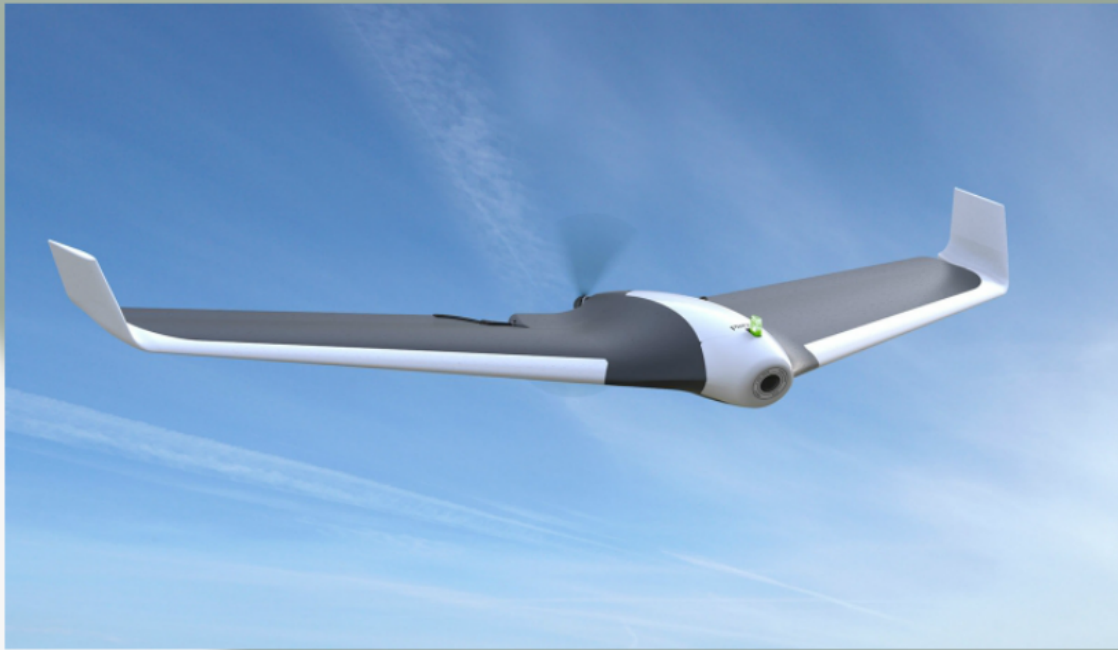
Airspace

- Phased implementation of Free Route Airspace until 2020
- Redesign of GBR/NLD airspace traffic interface
- Hannover sectors re-organisation (2019)
- Streamline Flexible Use of Airspace application, put in place cross-border Airspace Management

Predictability

- Traffic predictability: Traffic Prediction Improvement Project
- ADS-C (2019)
- Weather: deploy an enhanced CB-Nowcasting tool, with up to +3/6hrs capabilities (Q2/2019)
- Machine learning and artificial intelligence (2020+)

New Technology



Summary

New ways to measure active safety risks are needed that take account of the dynamics beyond our control

More predictability & accuracy of existing data and informational is required

The march of the Drones is coming fast