

*“Pushing the
SESAR
TBO envelope in
Flight
execution..”*

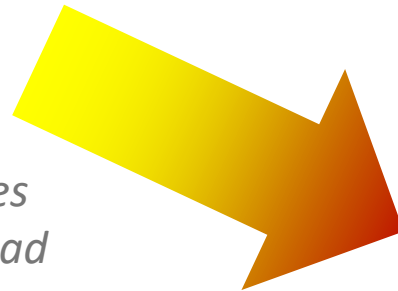
4D
Skyways



Use case example – Enhanced vertical CPDLC clearances

The Problem

High Uncertainty
-> Inefficient flight profiles
-> High controller workload



The Solution

- ✓ Optimised Flight Profiles
- ✓ Reduced Fuel-burn / Emissions
- ✓ Reduced Controller Workload

ADS-C downlink
-> Reduced Uncertainty



Conflict Resolution Algorithm
-> Non-penalising constraints

CPDLC

-> Auto-load for quick entry into avionics
-> Separation Assured



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- 31 partners
- 21 validation exercises
- 2019 reference and 2035 traffic solution scenarios
- Increasing ATS-B2 equipage scenarios
- Innovative use cases

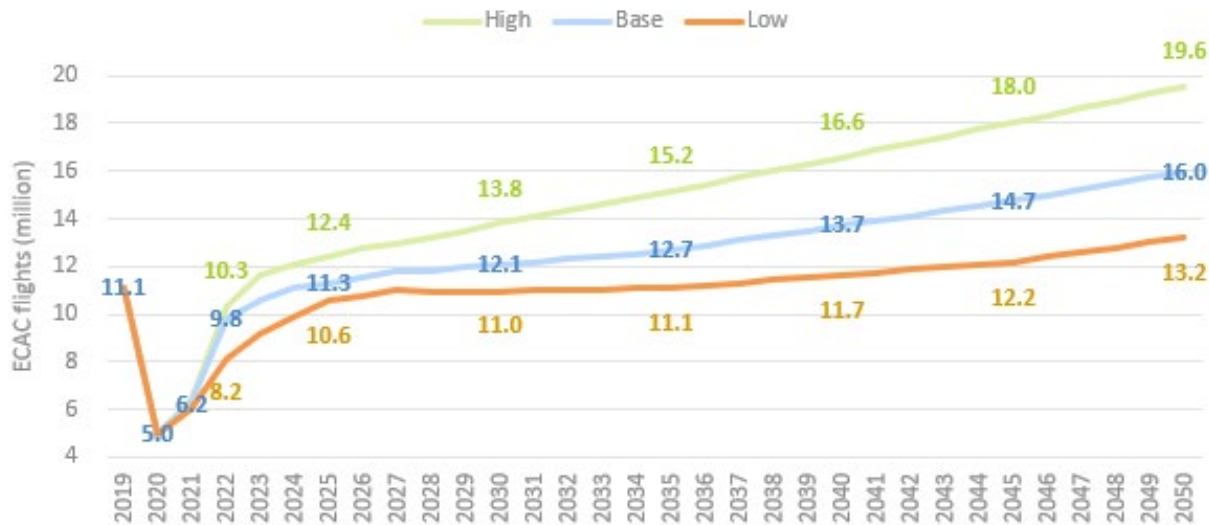


Figure 3: Traffic forecast (EUROCONTROL STATFOR long-term outlook)

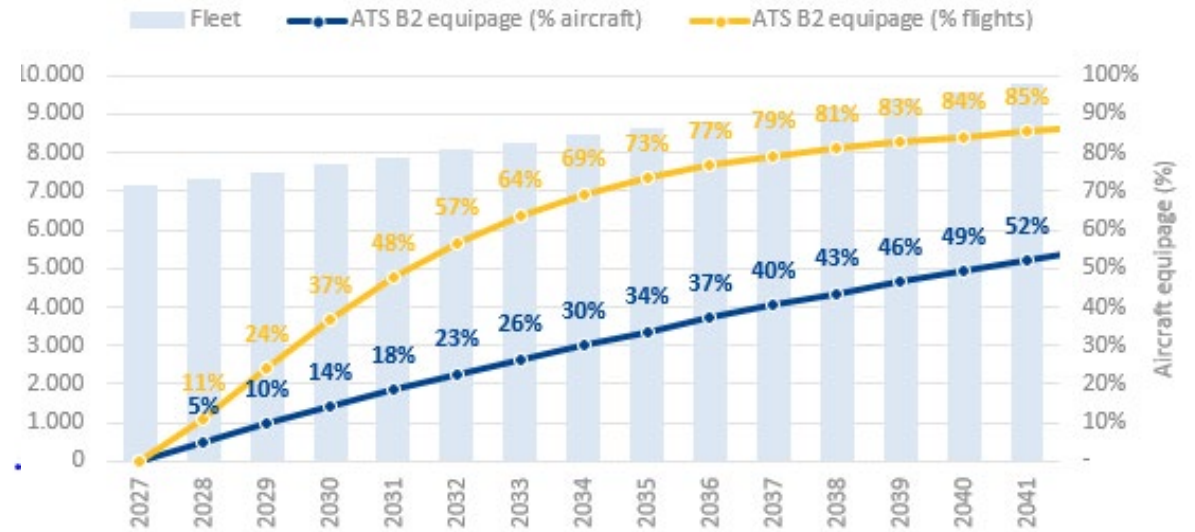


Figure 4: ATS B2 aircraft equipage forecast (Ad-hoc analysis for solution 56)



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THANK YOU!

