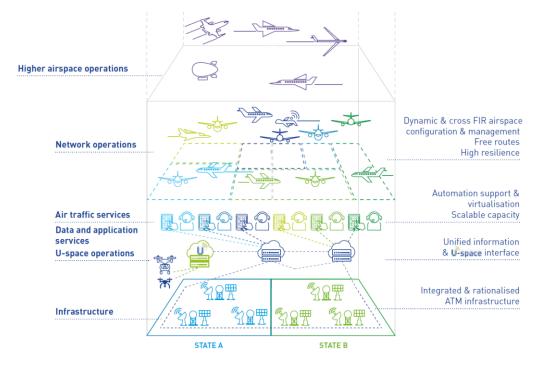


CNS - Implementation Goals

Bryan Jolly Senior ATM/ANS Expert EASA



Operational objectives



A resilient and fully scalable ATM system

• For handling growing air traffic made up of a diverse range of manned and unmanned air vehicles in all classes of airspace, in a safe, secure, sustainable manner.

CNS underpinning technology



CNS Evolution

High performing and interoperable Communication Infrastructure for data and voice

•Terrestrial Data Link L-band digital aeronautical communications system (L-DACS) •Satellite Communications Data link.

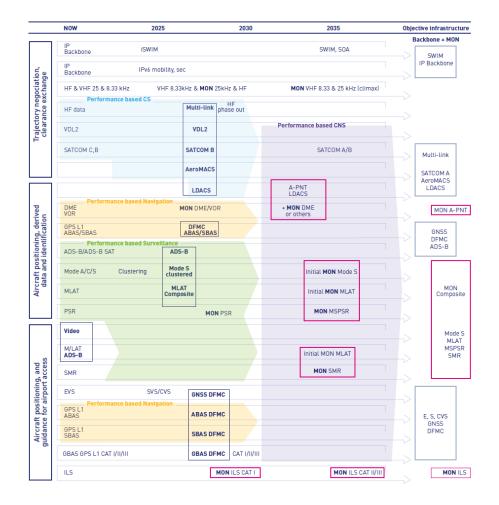
Multi Constellation / Multi Frequency (MC/MF) GNSS

Alternative Position, Navigation and Timing (A-PNT)

- •distance measuring equipment (DME)
- •inertial reference system (IRS) hybridisation,
- Multilateration
- •L-DACS.

Performance based Surveillance systems

- •wide area multilateration (WAM),
- •multi-static primary surveillance radar (MSPSR),
- •integrated CNS (ICNS),
- •space-based ADS-B.

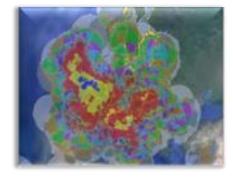




Challenges



Ensuring the **Efficient** use and **long-term** availability of suitable radio spectrum



Safe and efficient transition to a **Rationalised** Infrastructure



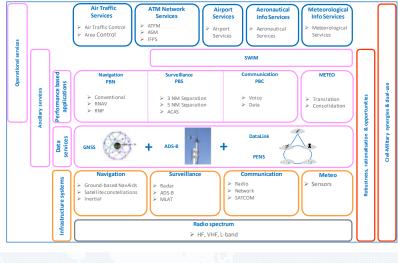
Transition to Performance Based and Integrated CNS

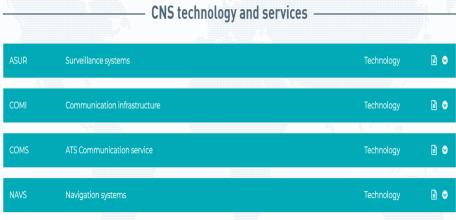


Increased Digitalisation and Connectivity



Meeting the Challenges





Definition

• Effective short, medium and longterm evolution objectives/priorities

Implementation

• Regional





EASA support

Airborne system Specifications

Ground System Specifications

Appropriate definition of roles and responsibilities

Effective Monitoring/Oversight

Safety and operation issue resolution

EASA provides an Effective Framework



THANK YOU

