

From CNS origins...

Early 80s: ICAD established the Future Air Navigation Systems (FANS) Special Committee. Later known as CNS/ATM system involving complex and interrelated set of technologies, dependent largely on Satellites.

Oceanic
 Lot of progress
 Satcom on aircraft MEL
 FANS deployed in all Oceanic Regions
 C, N and S implemented with the key support of Satellite systems

Continental
 Slower and complex implementation due to many reasons: e.g., fragmentation, sovereignty, etc...
 Jamming and Spoofing issues affecting both N and S

The long-term future
 Towards an integrated space-based system of systems delivering CNS in an optimized way?