



GLOBAL MINISTERIAL AVIATION SUMMIT

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ADS-B REGIONAL PROJECT IN AFRICA

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Session 4 : Regional projects in Air Navigation



SUMMARY



INTRODUCTION



ASECNA SURVEILLANCE STRATEGY



ASECNA ONGOING PROJECTS



REGIONAL COOPERATION IN DATA ENHANCEMENT



CONCLUSION



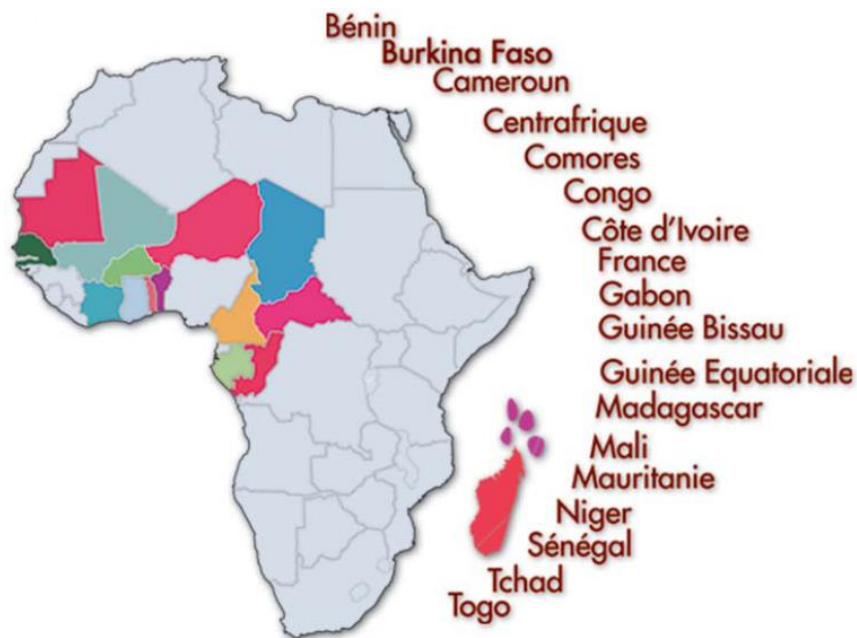
ASECNA at a glance



Agency for Air Navigation
Safety in Africa
and Madagascar



Benin, Burkina Faso, Cameroun, Centrafrique, Congo, Côte d'Ivoire, France, Gabon, Guinée Bissau, Guinée Equatoriale, Madagascar, Mali, Mauritanie, Niger, Sénégal, Tchad, Togo, Union des Comores





INTRODUCTION

Reliable, available and integrated Communication Navigation and Surveillance systems



Efficient provision of air navigation services in AFI region

**ASECNA
Communication
Navigation and
Surveillance plan**



- **GANP**
- **AFI air navigation plan**
- **AFI strategy**



Safe provision of the air navigation service



- ❑ Continuous air traffic growth
- ❑ More flexibility in Air Traffic Control operation improvement of efficiency



**Implementation of robust surveillance systems
for flexible use of airspaces and the
improvement of safety**



Flexible use of airspaces, by airlines, and the improvement of safety



2005-2015

**Radar surveillance coverage
associated with ATM with multi-sensor tracking
capability**

2015-2018

**Complementary ADS-B coverage with
ADS-B stations to be coupled with the existing remote
VHF stations connected through VSAT**

2020

Upgrade towards space-based ADS-B

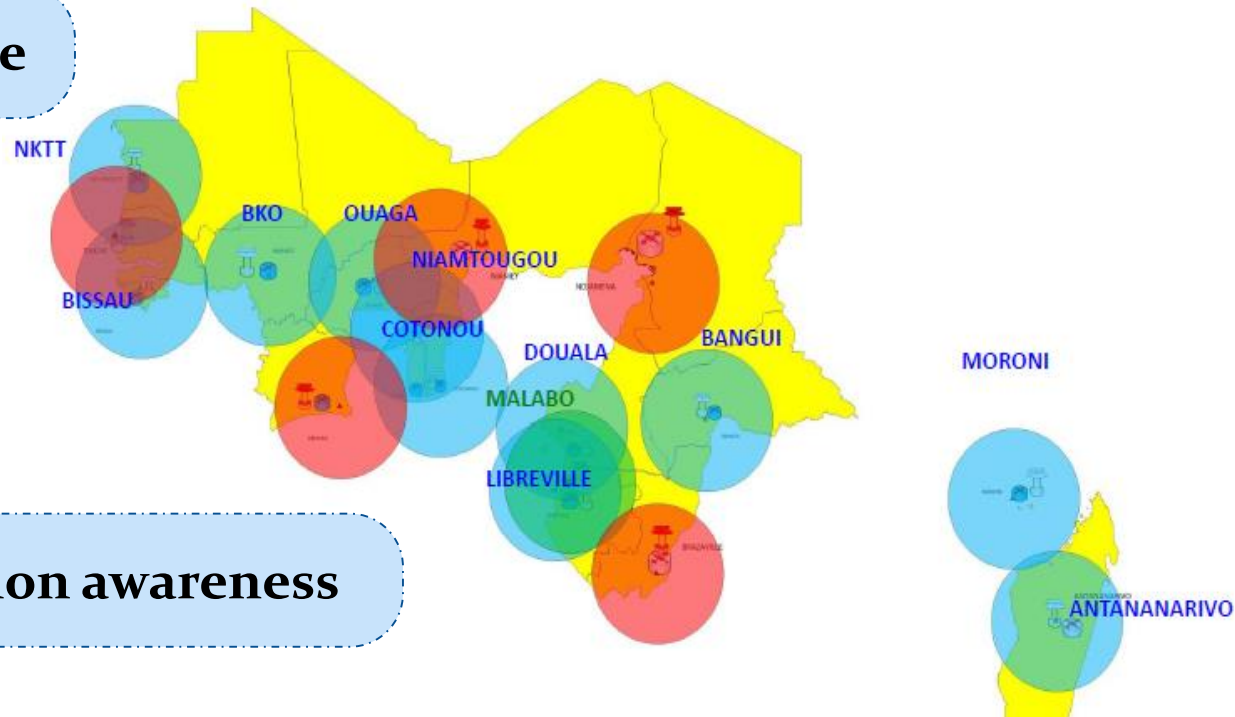
Operational needs

☐ Improvement coverage

☐ Predictability

☐ Airbone traffic situation awareness

☐ Implementation of separation minima

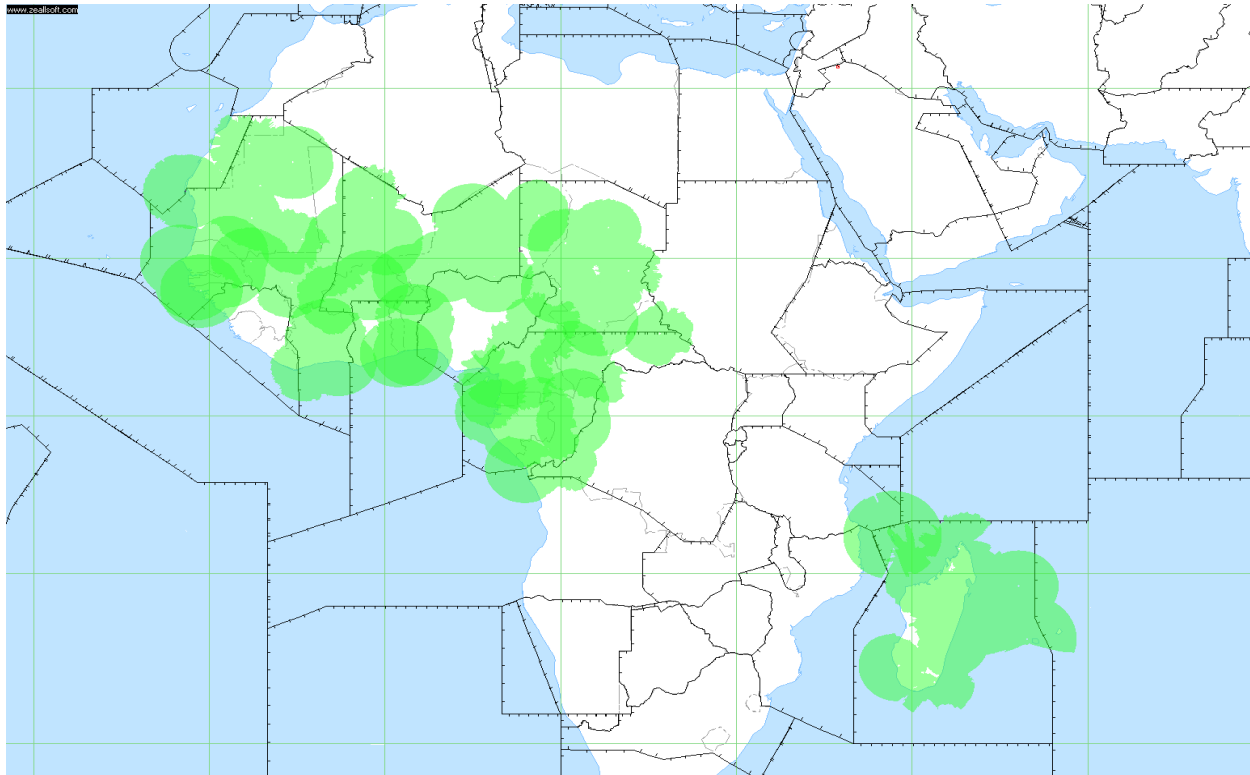


Operational needs



Data exchanges through the ASECNA satellite network (AFISNET)

ASECNA successfully experiment the implementation of ADS-B systems in Antananarivo, Dakar, Nouakchott and Ndjamenas centers



Contract to supply over 70 ADS-B ground stations to deploy before the end of 2018.



Space-based ADS-B



Cooperation arrangements with industry



Carry out the required feasibility studies



ASECNA

Indian Ocean region

- SCAA (Seychelles)
- DGAC France (Reunion)

Gulf of Guinea

- GCAA (Ghana)
- NAMA (Nigeria)
- Roberts FIR (Guinea)

Other regions

- Casablanca (Morocco)
- Algiers (Algeria)
- Sudan FIR (Sudan)



CONCLUSIONS

Air traffic growth



**Quality of service
for safe management**



**Harmonization – Coordination –
Interoperability of ATM systems
and programmes in AFI region**



- **Strengthening cooperation**
- **Improvement of the safety**

Thank you for your kind attention

