

International Civil Aviation Organization

# Global ATM Operational Concept WP 02

#### **François SALAMBANGA**

Workshop on ADS-B (Dakar, 21-23 July 2014)

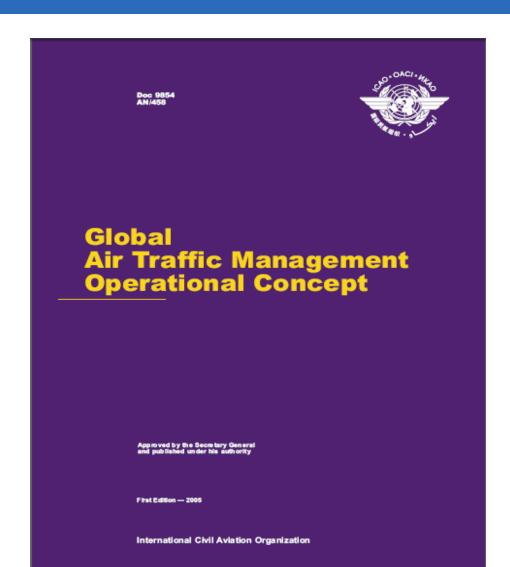


# "Do we know where to go?"











# "Vision without Action is a daydream, Action without Vision is a nightmare."











To present the ICAO vision and the steps/actions towards the implementation of the "future" Air Navigation System focusing on the global drivers expressed in the GANP.



## **Presentation Outline**

- History and Background
- Vision
- Expectations
- How to get there



# **History and Background**

- FANS
- Tenth Air Navigation Conference
- Global Air Navigation Plan for CNS/ATM Systems (Doc 9750)
- Planning and Implementation Regional Groups embarked on an extensive effort
- SARPs, PANS, Guidance material
- Eleventh Air Navigation Conference.



To achieve an interoperable global air traffic management system for all users during all phases of flight, that

- meets agreed levels of safety;
- provides for optimum economic operations;
- is environmentally sustainable; and
- meets national security requirements.

# **Guiding principles**



- Safety
- Humans
- Technology
- Information
- Collaboration
- Continuity



- Airspace organization and management(AOM)
- Aerodrome operations(AO)
- Demand and capacity balancing(DCB)
- Traffic synchronization(TS)
- Airspace user operations(AUO)
- Conflict management(CM)
- ATM service delivery management(ATM/SDM)

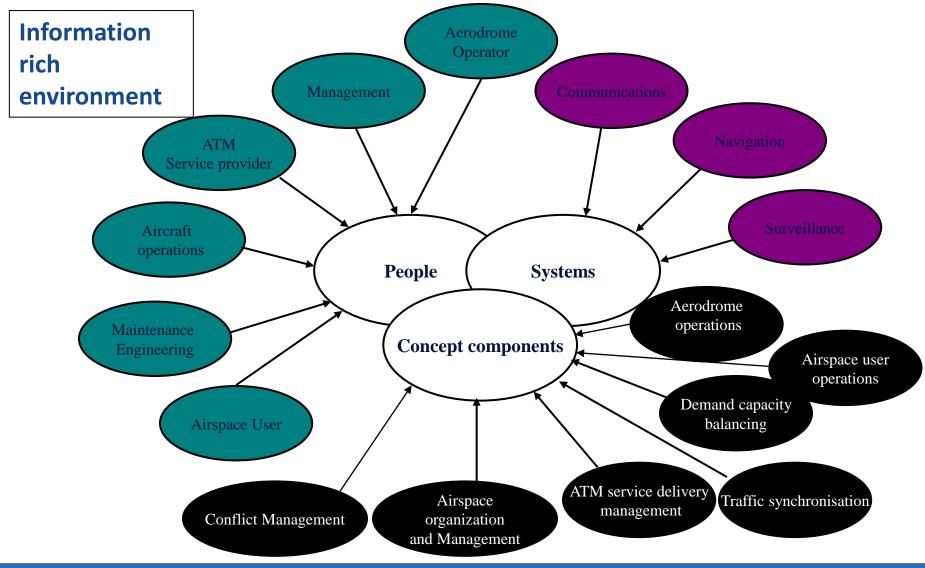




- Technology is not an end in itself
- Based on clearly-established operational requirements
- Integrated system



# Integration



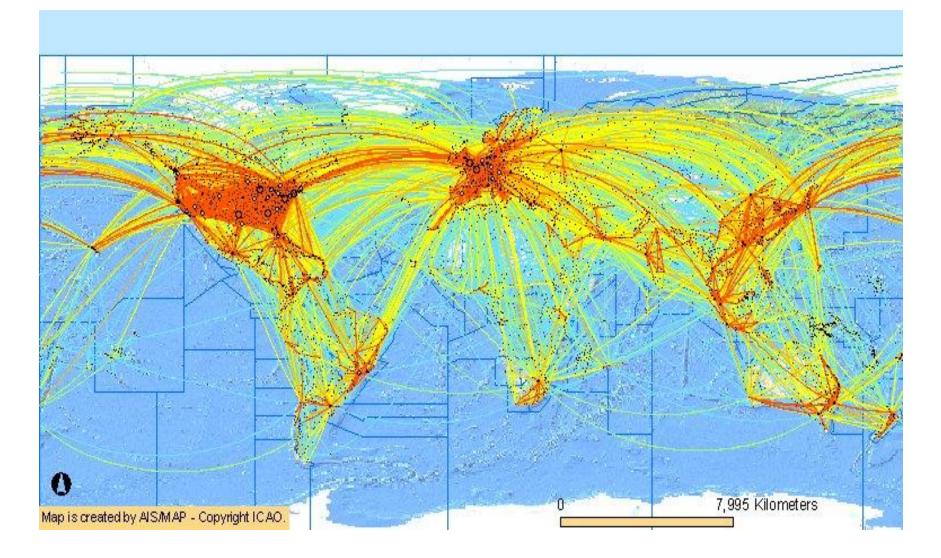
#### **Expectations**

COORCI . HAR

- Access and Equity
- Capacity
- Cost-effectiveness
- Efficiency
- Environment
- Flexibility
- Global interoperability
- Participation by the ATM community
- Predictability
- Safety
- Security



# **Global System**



# **Global System**



- meeting safety objectives
- operate along preferred 4D trajectories
- environmental objectives
- other business requirements



#### How to get there

• The GANP as a catalyst for change

• Provides a global interoperability framework

Allows adaptation to efficiently meet regional and local needs

### How to get there



• Partnering with industry

 Delivering transitional benefits while we continue our evolution

#### How to get there



- Modules
- Elements as options for improvements
- Result in direct performance enhancements
- Based on Industry Roadmaps and current regional activities
- Bring near- and medium-term benefits





•Represents the initiatives that will contribute to attend the expectations of the aviation community

•Main drivers towards the seamless system.





- We needed a vision: the operational concept
- Gap
- Address the KPAs
- Lots of ongoing work
- GANP one of the main drivers.





#### "Vision without Action is a day-dream, Action without Vision is a nightmare."

# **Uniting Aviation on** Safety | Security | Environment

WIIIIII