



International Civil Aviation Organization

SIP/2012/ASBU/Dakar-WP/4

Global ATM Operational Concept

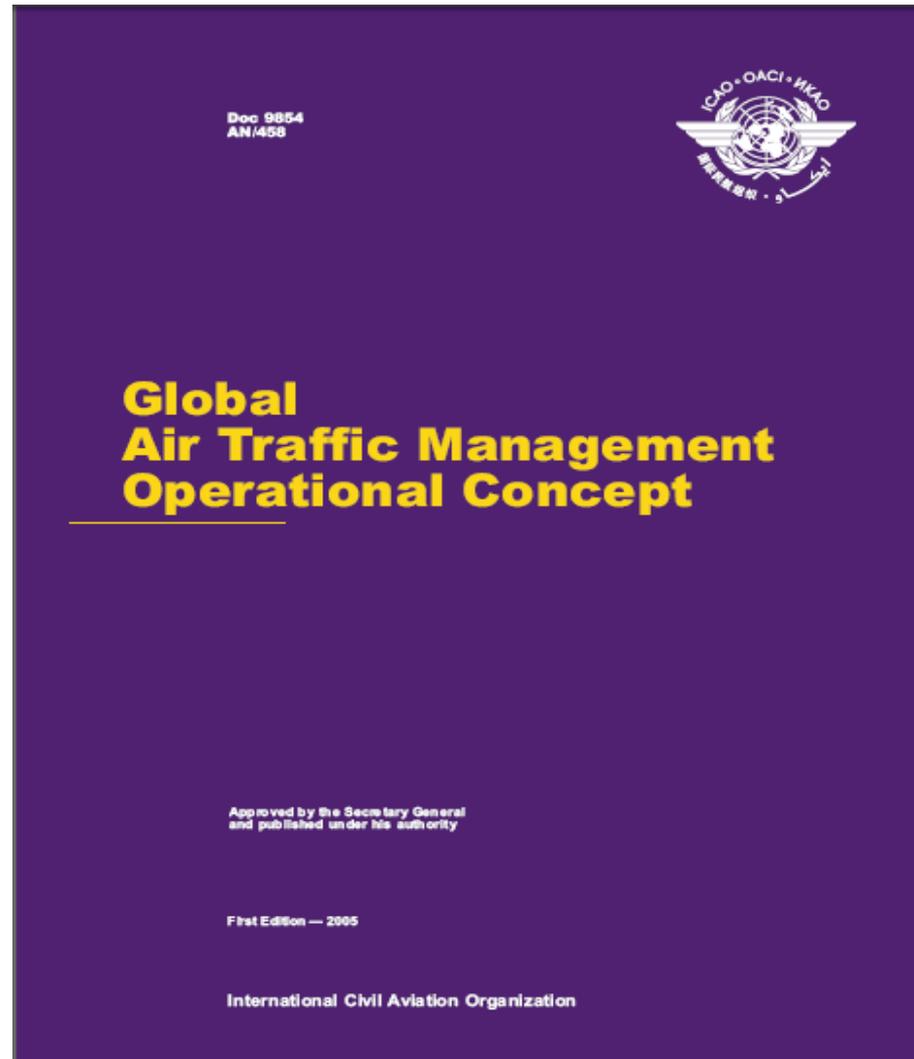
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Workshop on preparations for ANConf/12 – ASBU methodology
(Dakar, 16-20 July 2012)

“Do we know where to go?”



YES.



***“Vision without Action is a day-
dream,
Action without Vision is a
nightmare.”***

The Gap



Objective

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.**

Vision statement

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**

Concept components

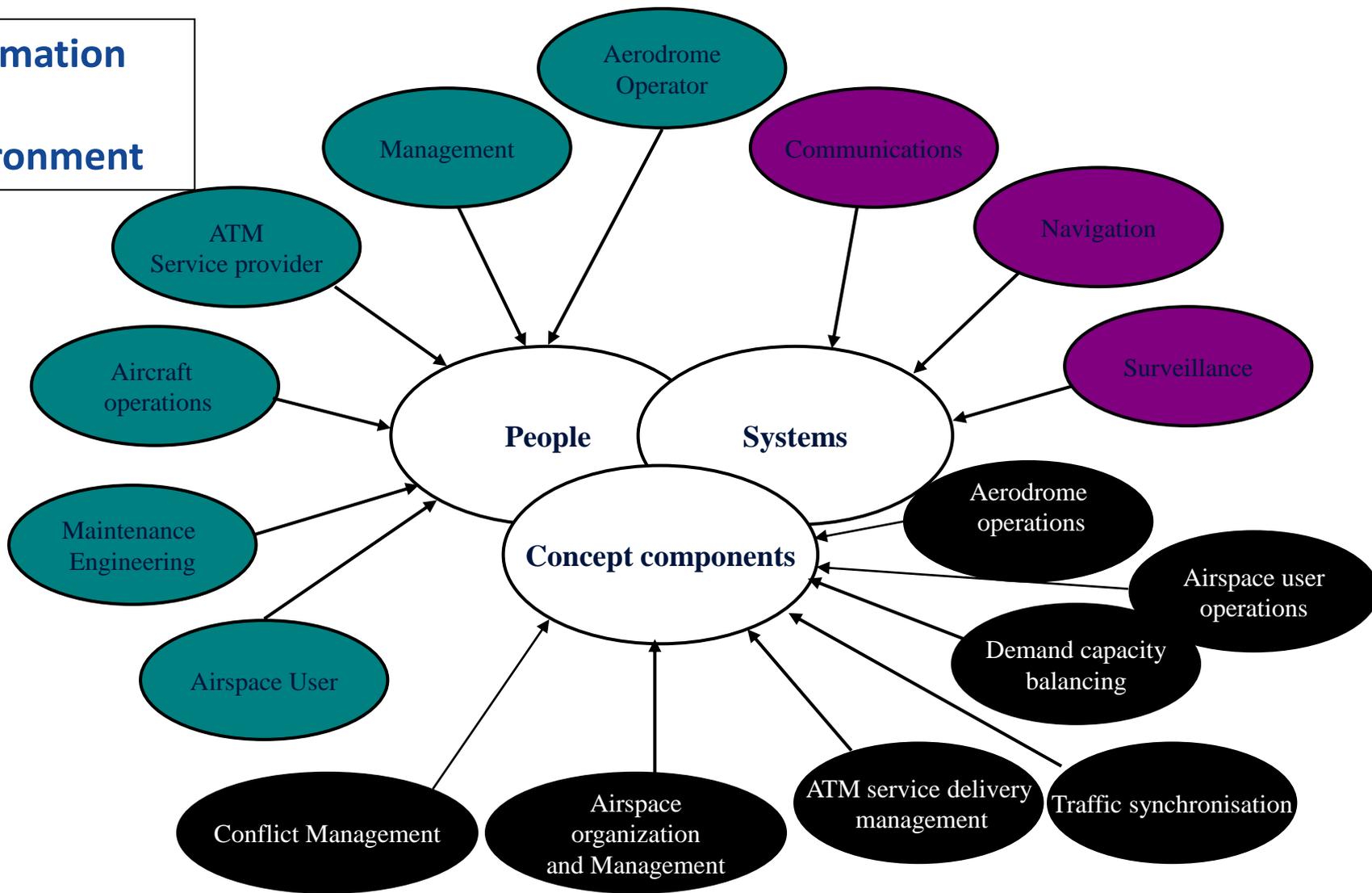
- Airspace organization and management(AOM)
- Aerodrome operations(AO)
- Demand and capacity balancing(DCB)
- Traffic synchronization(TS)
- Airspace user operations(AUO)
- Conflict management(CM)
- ATM service delivery management(ATM/SDM)

Transition

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

Integration

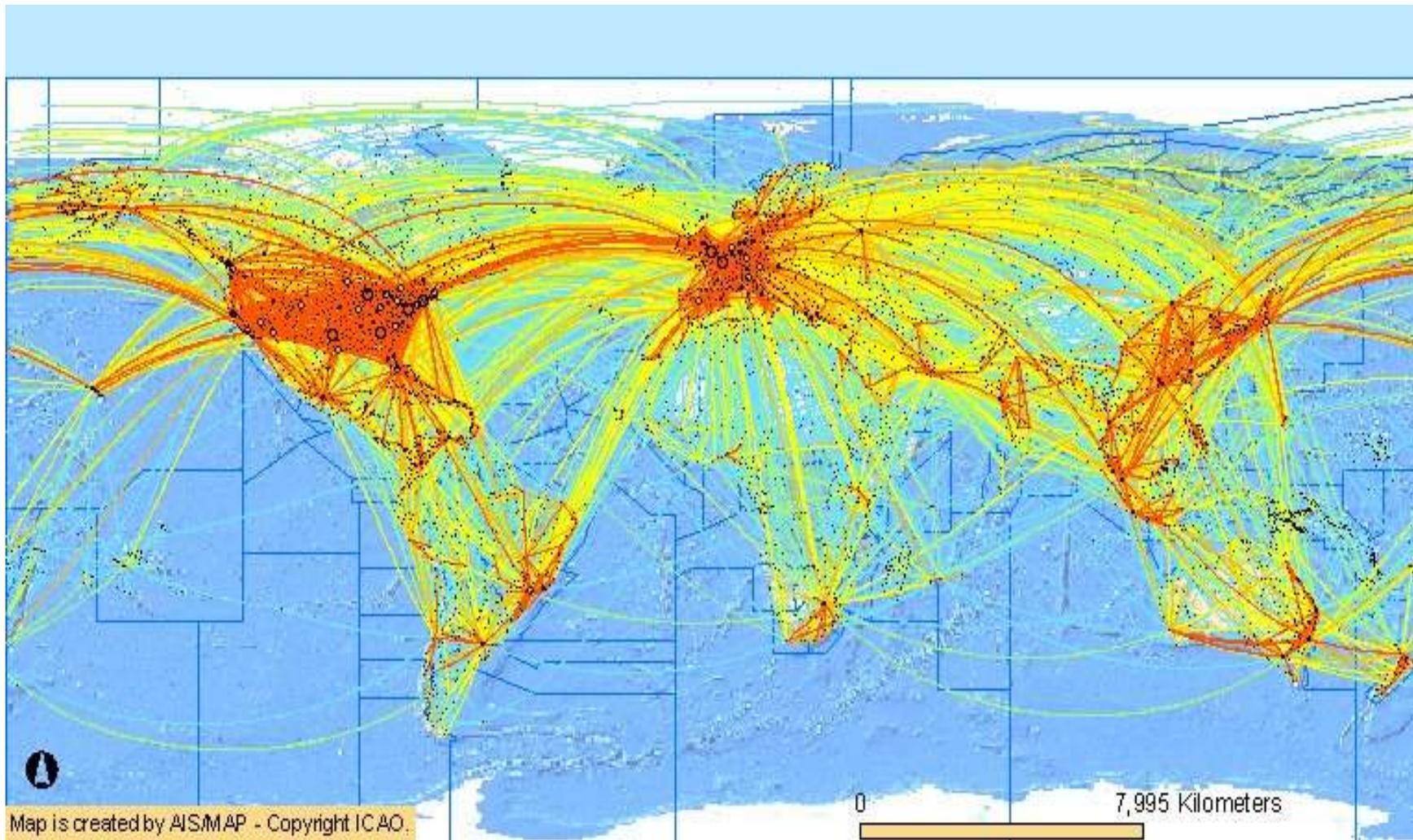
Information rich environment



Expectations

- **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**

GANP

- **Represents the initiatives that will contribute to attend the expectations of the aviation community**
- **Main drivers towards the seamless system.**

Summary

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

We know where to go, but...



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Action without Vision is a nightmare.”***

ICAO

Uniting Aviation on

Safety | Security | Environment

