

**INTERNATIONAL CIVIL AVIATION
ORGANIZATION
EASTERN AND SOUTHERN AFRICAN
OFFICE**



**WORKSHOP ON THE DEVELOPMENT OF
NATIONAL PERFORMANCE FRAMEWORK
FOR AIR NAVIGATION SYSTEMS
(NAIROBI, 6-10 DECEMBER 2010)
HANDS-ON EXERCISE: PFF EXPLANATION
FOR EFFICIENCY**

1. Characteristics of the industry

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- Current growth of Air Traffic : 3.5%
- Projected growth of Air Traffic : 4.0%
- Regional and Intercontinental over flights are regular during the year; and
- Some of internal flights are seasonal.

2. The air navigation service

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provider

- AEROPORTOS DE MOÇAMBIQUE is Airports and Air Navigation Services Provider. It is a Public Enterprise with a Financial Autonomy and A Board of Administrators nominated by the Government;
- It provides ATC services which include Aerodrome, Approach and Area control;
- It also guarantees the maintenance and installation of NAVAID facilities.

3. Major stakeholders/partners

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- ICAO;
- ACC of South Africa, Zimbabwe, Zambia, Malawi, Tanzania, Comoro, Madagascar, Madagascar and Seychelles;
- Military : Maritime and Air Force;
- IATA; and
- Air Lines (LAM, Kaya Airlines, MEX and General Aviation).

4. Problem definition

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- Very low coverage on VHF COMMS;
- NAV aids not reliable (old NDB;VORs ILS);
- Lack of 406 MHZ frequency for SAR; and
- Low quality of MET Services.

5. Performance based National Air Navigation Plan

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- Implement of GNSS Enroute Approach Procedure by 2011;
- Implement RNAV APP to all Airports by 2016;
- Join Regional ADS-B Project by 2011; and
- Implement AFI-Regional Requirement Plan by 2020.

Performance Benefits

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- Reliability;
- Accuracy;
- High availability;
- Cost Effectiveness; and
- Environmental Sustainability.

Future ANS: CNS/ATM SYSTEM

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- ▣ Implementation of Regional ADS-B by 2014;
- ▣ Implementation of the New ATC systems by 2013;
- ▣ Implementation of the New Flight Plan by November 2012; and
- ▣ Harmonization with the neighboring FIRs.

Risk Management

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Identified Risks

- Insufficient Funding:

Seek more funding approval

Scale down implementation plan

- Insufficient Human Resource:

Speed up training process

Strengthened Establishment

THE END

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THANK YOU

12/15/2010