

Hello Bonjour



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale



**South African
Weather Service**

WORLD METEOROLOGICAL ORGANIZATION AFRICAN CONFERENCE ON METEOROLOGY FOR AVIATION (ACMA -2018)

28 to 30 November 2018

Dakar, Senegal



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale



**South African
Weather Service**

Global and African Aviation landscape

SALY- Senegal, 28-30 Nov 2018

G.E. KHAMBULE

Chair of Working Group WMO RA1
Aeronautical Meteorology



WMO OMM

ACMA 2018 – 28 to 30 November 2018 – Dakar, Senegal



South African
Weather Service

CONTENTS

- ✓ Global view
- ✓ What has been done
- ✓ Survey
- ✓ Status to date
- ✓ Conclusion

STANDARDS AND RECOMMENDED PRACTICES

QMS - Nov 2013 , ISO 9001:2008 Transition ISO 9001:2015

Competencies : Nov 2013

Qualifications : Nov 2016 (Annex 3 Amend 77)

Space weather : Nov 2018

Cost recovery: requires significant investment in infrastructure and human capital -The cost-recovery from aviation is outlined in ICAO's Manual on Air Navigation Service Economics and the WMO Guide on Aeronautical Meteorological Service Cost Recovery.

2018/11/22

Templ ref: PPT-ISO-colour.001 Doc Ref no:



WMO OMM



South African
Weather Service

WHAT HAS BEEN DONE TO DATE

- Working relationship between WMO and ICAO
- Conjoint -MET Divisional meeting July 2014 (29 Recommendations, Doc 10045 Report)
- ICAO Met panel - 5 Working Group dealing with these issues to assist the States in the implementation and provide guidance
- CAeM- Management Group –Expert teams ET-Gov conducted the survey-
- Full report available online: AeM Series No. 1 (WMO web)
- Aviation dialogue 2017 during the EC69

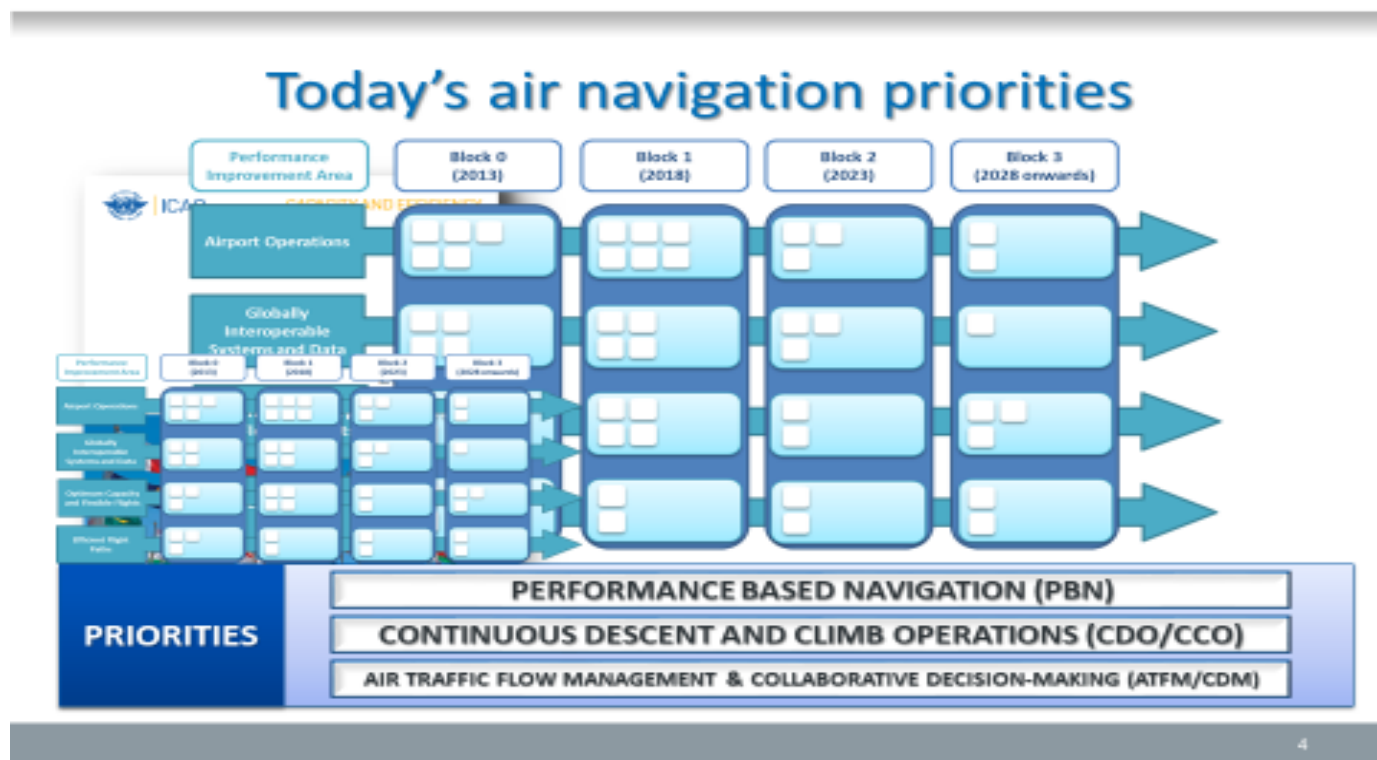
2018/11/22

Templ ref: PPT-ISO-colour.001 Doc Ref no:

GANP/ASBU

Aviation System Block Upgrade Methodology

Various modules-



South African
Weather Service

2018/11/22

Templ ref: PPT-ISO-colour.001 Doc Ref no:



WMO OMM

Greener Airports

Block 0

OPMET
World area
Forecast
products

Block 1

Improved
Approach &
Departure
Management
through
Integration

Hazardous
weather
through
regional/sub
centres

Block 2

Linked
AMAN/
DMAN

Technology advances

Block 3

Integrated
Approach MAN/
Departure MAN/
Systems
Management

Continuous
Improvement
More collaboration

MET is a threat running across the blocks



WMO OMM

Available Now

2018

2024



ASBU AND NMHS' REQUIREMENTS

Transition to new aviation data formats (XML/GML)

- Enabling clause for exchange of data in digital format (XML/GML) came into effect November 2013
- Aeronautical Fixed Telecommunication Network (AFTN) will become obsolete in 2026-AMHS
- By 2020, it will become standard to exchange aviation data in digital format
- NMHS's to enter into bilateral agreement for the exchange



WHERE WE ARE IN THE CONTINENT

- ICAO regional Office-ASBU baseline – very poor
- Poor responses to establish the baseline
- APIRG Adopted a project oriented approach in Côte d'Ivoire
- Infrastructure and Information Management-Projects overseen by APIRG Project Coordination Committee
- Two projects under APIRG- SIGMET and OPMET (ASECNA to present on)



2018/11/22
WMO OMM

Templ ref: PPT-ISO-colour.001 Doc Ref no:



South African
Weather Service

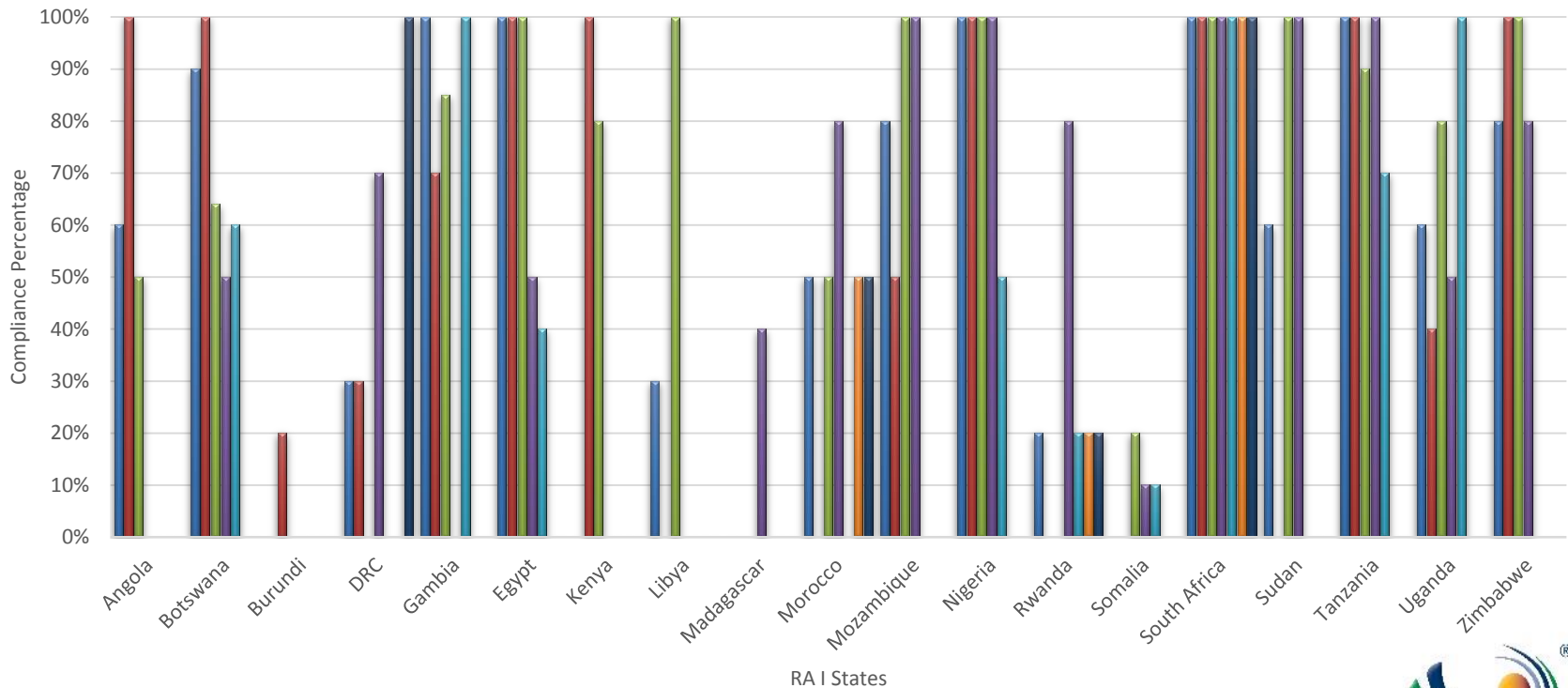
STATUS NOW

Excel spread sheet (summary of responses from Members)

Poor responses

members will inform through business cases

Status of Compliance per State



- Status on QMS compliance wit ISO9001:2015
- Status on Competencies
- Status on Qualification of personnel
- Status on Cost recovery
- Status on ASBU implementation
- IWXXM Format
- SIGMET



DIRECTION AND SPAN OF AMP

In summary, Key developments

- Implementation of space weather
- Development of Hazardous weather advisory Centres
- Implementation of ICAO Weather Exchange Model(IWXXM)
- Implementation of System Wide Information Management (SWIM)
- Improvement of improved and regional cost recovery
- Significant work being done on the development of Procedure for air navigation, PANS-Met to support Annex 3



2018/11/22
WMO OMM

Templ ref: PPT-ISO-colour.001 Doc Ref no:



South African
Weather Service

CONCLUSION

- Fundamental changes to the aeronautical meteorological service provision- revolutionary changes-information
- Landscape has changed> Regionalisation of services
- Demand for focus on compliance to meet user requirements
- Research –informed by users’s needs –stay relevant
- ICAO continuous monitoring activity
- With “Open sky” concept, the users are not restricted to obtain the services from the National Weather Service,
- Collaboration remains the key to unlock opportunities

2018/11/22

Templ ref: PPT-ISO-colour.001 Doc Ref no:



WMO OMM



South African
Weather Service

Finally

- The changes requires strong support of the ongoing management and development of continental aeronautical meteorological services
- Remind Members of the need to ensure there is ongoing, adequate, and equitable internal capacity made available for application in the collaborative management, partnerships and development of the aeronautical meteorological services;
- Build capacity on the observational network for the needed data to support global model

IMPLEMENTATION-MONITORING-EVALUATION

NO COUNTRY LEFT BEHIND INITIATIVE!!!!!!



WMO OMM



South African
Weather Service

Thank you Merci



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale



**South African
Weather Service**