



ICAO

UNITING AVIATION

Sixth Meeting of the Directors General of Civil Aviation of Africa and the Indian Ocean (AFI-DGCA/6)

African Flight Procedure Programme (AFPP) (Agenda item: 4.3)

Presented by Prosper Zo'o Minto'o,
ICAO Deputy Regional Director, WACAF Regional Office

**Brazzaville, Congo.
2 - 4 November, 2016**



States obligations related to PBN implementation

- ICAO Assembly Resolution A37-11 (Performance-based navigation global goals), October 2010
 - implementation of PBN flight procedures
- APIRG/20 Meeting: Key Performance Indicators and Targets adopted for Air Navigation Services (ANS)
 - PBN plans (2016)
 - Elements of PBN (2018)
 - CCO and CDO operations (2018)



- State Letter 2016/39 (11 April 2016), applicable on 10 November 2016
 - Amendment to Annex 11 concerning procedure design and oversight SARPS
 - Definition of an Instrument Flight Procedure Design Service
 - Design: internal capabilities or joint service by contracting State or external agency
 - State shall approve and remain responsible for all IFPs for their aerodromes and airspace
 - Quality management system for implementation (Doc 9906)
 - Provide IFP maintenance and review
 - Soon by ICAO: Manual on the development of a regulatory framework for IFP design service



Status of PBN Implementation

ESAF Region, 24 States
(60 airports, 64 runways)

Total % Plan PBN	Total % PBN STAR	Total % CDO	Total % PBN APCH (2 ends)	Total % PBN APCH (1 end)	Total % PBN SID	Total % CCO
63%	34%	5%	45%	75%	31%	3%

WACAF Region, 24 States
(72 airports, 73 runways)

Total % Plan PBN	Total % PBN STAR	Total % CDO	Total % PBN APCH (2 ends)	Total % PBN APCH (1 end)	Total % PBN SID	Total % CCO
58%	42%	2%	51%	73%	24%	1%



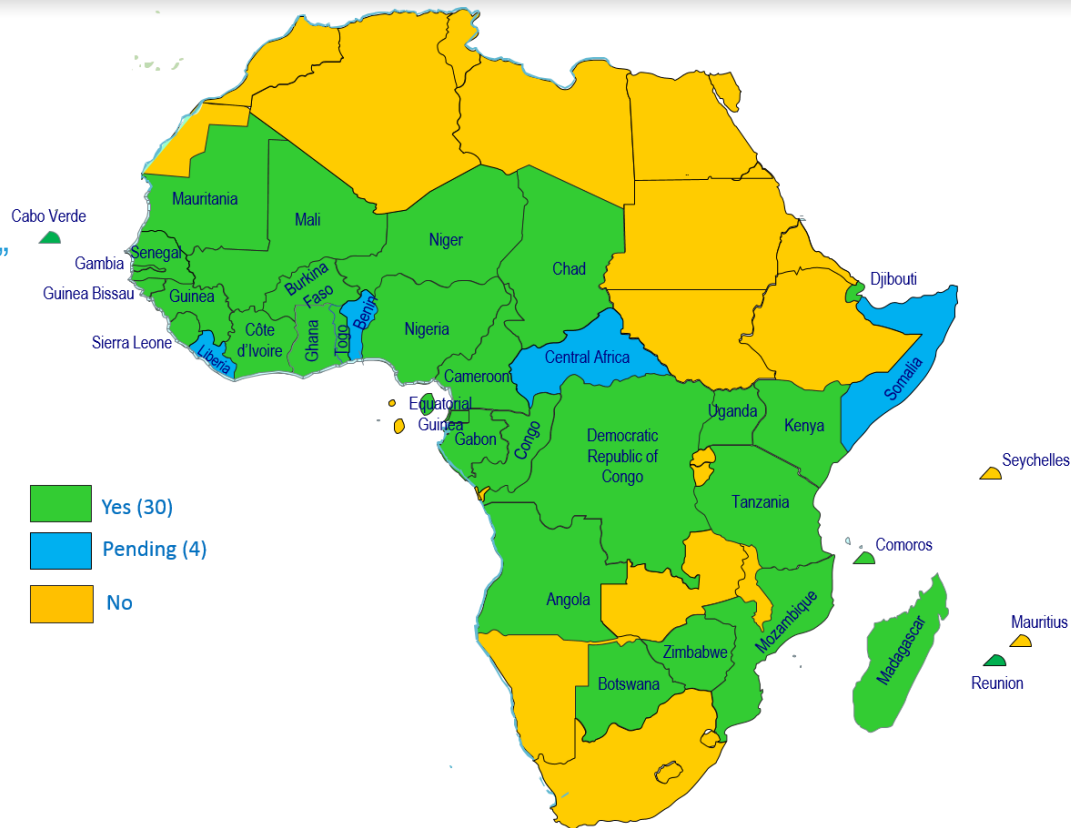
The African Flight Procedure Programme

- A regional, sustainable solution
 - Centre of Excellence
 - Phase 1, 2014/2017, hosted by ASECNA
 - Supported by ESAF and WACAF Offices, ICAO HQ
 - Supported by DGAC France and AIRBUS
 - Supported by AFCAC
 - Seconded experts by African States
 - Funded by African States

30 AFPP Member States

- 26 Active Participating States (APS)
- 4 User States (US)
- Activities based on “Programme Document”
- Team composed of seconded experts
 - France
 - ASECNA
 - Tanzania
- Finances
 - Annual contribution by APS
 - Incomes produced by design activities
- Activity costs for Members

	Training	Assistance	Workshop	Support
APS	Free	Free	Free	Charged
US	Charged	Charged	Free	Charged





Activities 2014/2016 ... to be continued in 2017

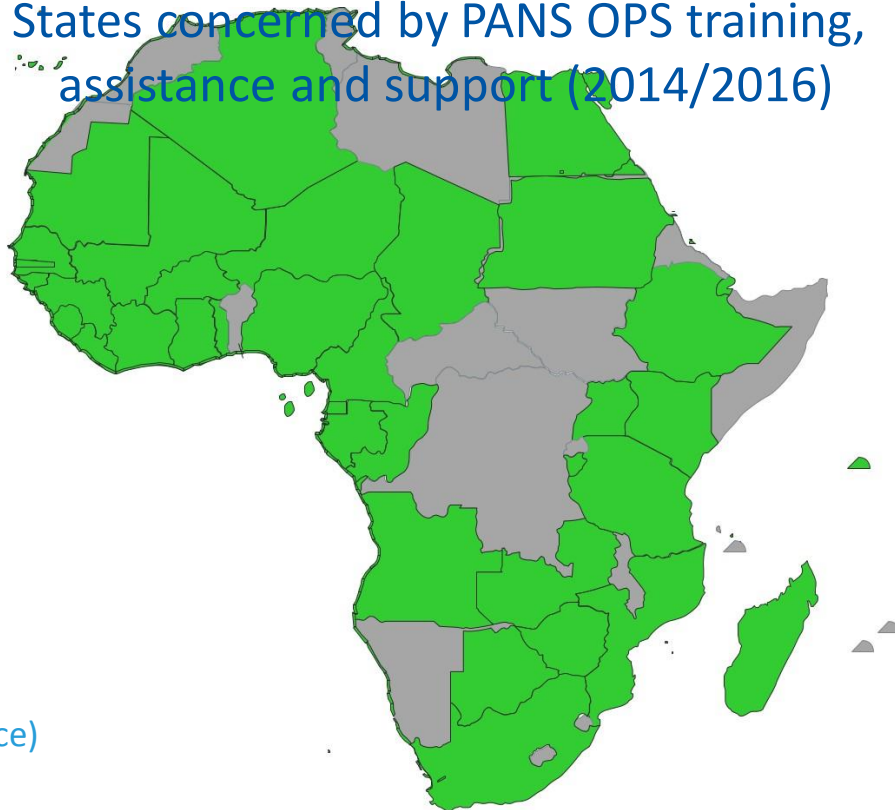
- 175 participants
- PANS OPS Flight Procedures designers training + OJT
- PBN Operations Approval training sessions
- Quality Assurance for IFP implementation workshop
- PBN Airspace Design workshop
- PBN for ATC/ATM workshop
- Data Origination for IFPD workshop
- PANS OPS design for regulatory authorities workshop
- National PBN Implementation Plan assistance
- IFP Validation / Approval assistance
- **Flight Procedures designed**
 - 35 conventional, 47 PBN, 16 airports

Expertise

- AFPP
- ASECNA
- Kenya CAA and EASA

ICAO HQ
ENAC (France)
AIRBUS

States concerned by PANS OPS training, assistance and support (2014/2016)





Challenges for future activities

ICAO Assembly Resolution A38-7 (Comprehensive Regional Implementation Plan for Aviation Safety in Africa), October 2013.

12. *Urges* Member States of the AFI Region to support the establishment of the AFI Flight Procedure Programme (FPP) Office with seconded personnel and financial assistance as a matter of urgency to expedite the implementation of PBN in the region; and

- **Expert secondment**
 - Additional experts to increase AFPP internal capabilities to conduct activities
- **Annual contribution, 10,000 USD approved by AFPP SC**
 - APS to pay contribution to cover costs for activities provision
 - Only 14 States out of 23, paid 2015 contribution
 - Only 8 States out of 26, paid 2016 contribution
- **AFPP Phase 2 Task Force** meeting to define future after May 2017
- **3rd AFPP Steering Committee meeting**, 23-24 November 2016, Livingstone, Zambia



ICAO

UNITING AVIATION



ICAO

North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU