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# African Flight Procedure Programme Assistance (AFPP)

## States obligations related to PBN Implementation

Frédéric Legrand

*AFPP Manager*

Malabo, Equatorial Guinea

28 June 2016



## Presentation Outline

- AFPP presentation
- States obligations related to PBN implementation
- Status of PBN implementation
- Provided assistance, 2014/2016
- Future activities, 2016/2017
- Costs for activities
- Challenges for future activities





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AFPP

## AFPP, Presentation

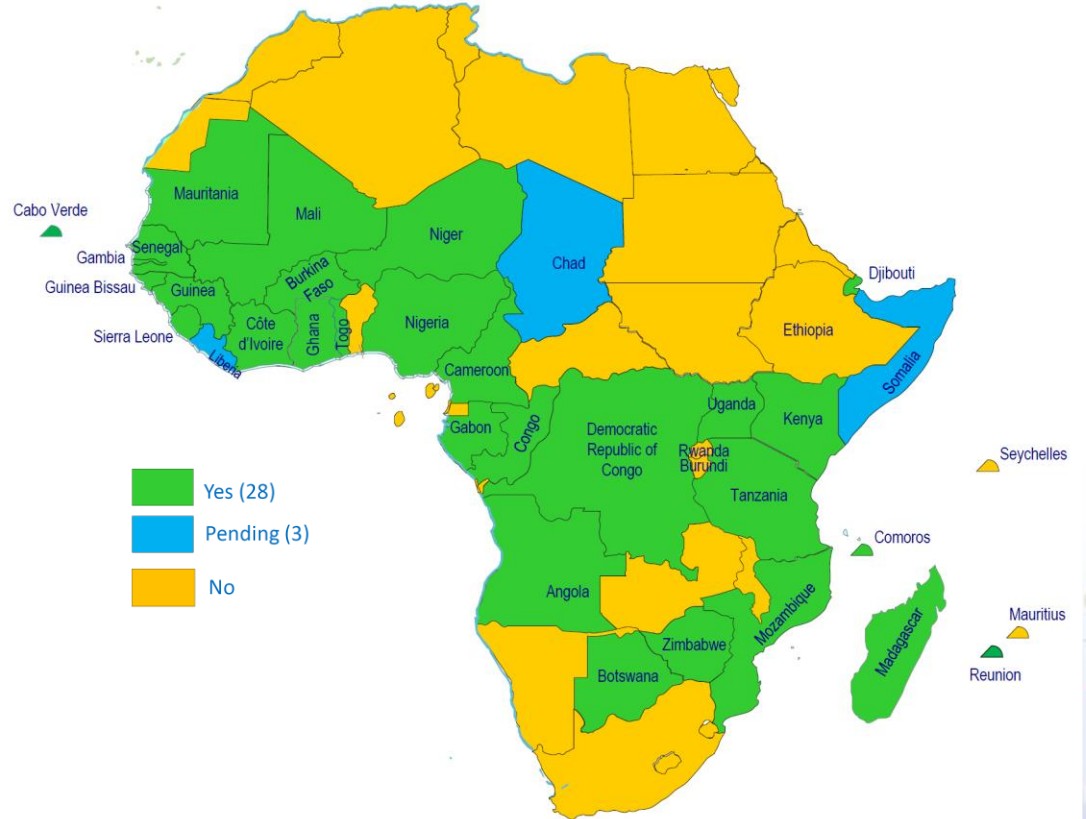
- A regional, sustainable solution
  - Centre of Excellence
  - Supported by ESAF and WACAF Offices, ICAO HQ
  - Supported by AFCAC
  - Seconded experts by African States
  - Funded by African States





## 28 Member States

- 25 Active Participating States (APS)
- 3 User States (US)



## Steering Committee

- APS
- and
- ASECNA
- AFCAC
- Donor State (France)
- Donor Organization (AIRBUS)
- ICAO



- Operations started on June 2014, in Dakar, Senegal
  - Hosted by ASECNA
  - Phase 1, 2014/2017
  - Activities based on “Programme Document”
  - Team composed of seconded experts
    - ASECNA
    - Tanzania CAA
    - (pending) Kenya CAA
  - Finances
    - Annual contribution by APS
    - Incomes produced by design activities

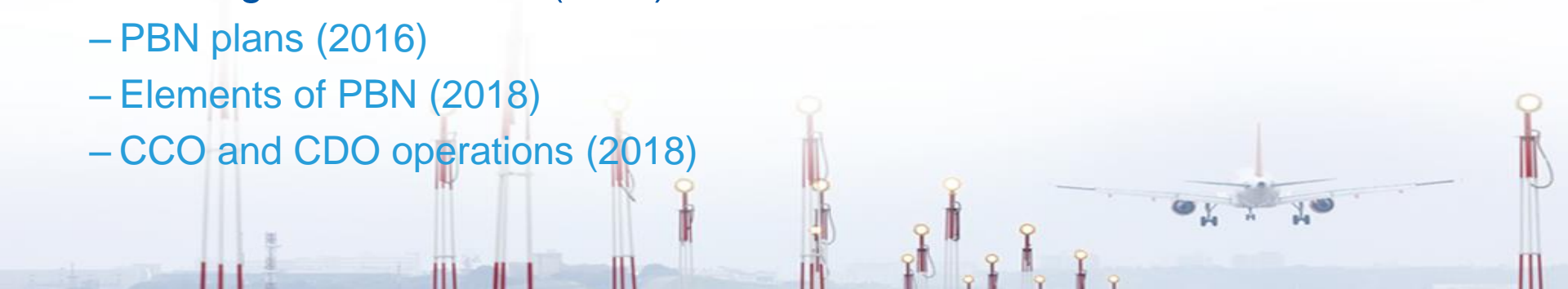






# States obligations related to PBN implementation<sup>AFPP</sup>

- 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 avril 2016), applicable au 10 novembre 2016
  - Amendment to Annex 11 concerning procedure design and oversight SARPS
    - Definition of an Instrument Flight Procedure Design Service
    - State **shall ensure** that an instrument flight procedure (IFP) design service is in place
    - **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: Manual on the development of a regulatory framework for IFP design service





# Status of PBN Implementation

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

	PBN Plans	PBN STAR	CDO	RNP APCH	RNP APCH	PBN SID	CCO
		2 ends	2 ends	2 ends	1 end	2 ends	2 ends
<b>Implemented</b>	63%	34%	5%	45%	75%	31%	3%
	15	43	6	50	8	40	4
<b>To implement</b>	9	85	122	70	31	88	124





# Status of PBN Implementation

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

	PBN Plans	PBN STAR	CDO	RNP APCH	RNP APCH	PBN SID	CCO
		2 ends	2 ends	2 ends	1 end	2 ends	2 ends
<b>Implemented</b>	50%	42%	2%	51%	78%	24%	1%
	12	62	3	68	7	37	2
<b>To implement</b>	12	84	143	71	32	109	144





# AFPP provided assistance, 2014/2016

AFPP

Assistance, training and support activities			participants	States
PANS OPS Flight Procedures designers training			13	8
OJT for trained procedures designers			4	3
PBN Operations Approval training sessions (2)			58	18 States / 10 AO
Quality Assurance for IFP implementation workshop (2)			47	20
PBN Airspace Design workshop			31	9
PBN for ATC/ATM			20	9
IFP Validation / Approval assistance				6
National PBN Implementation Plan assistance				6
Flight Procedures designed	30 Conventional	17 PBN	8 airports	2



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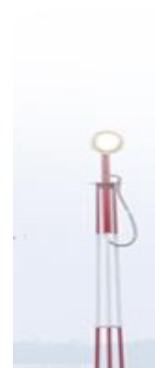
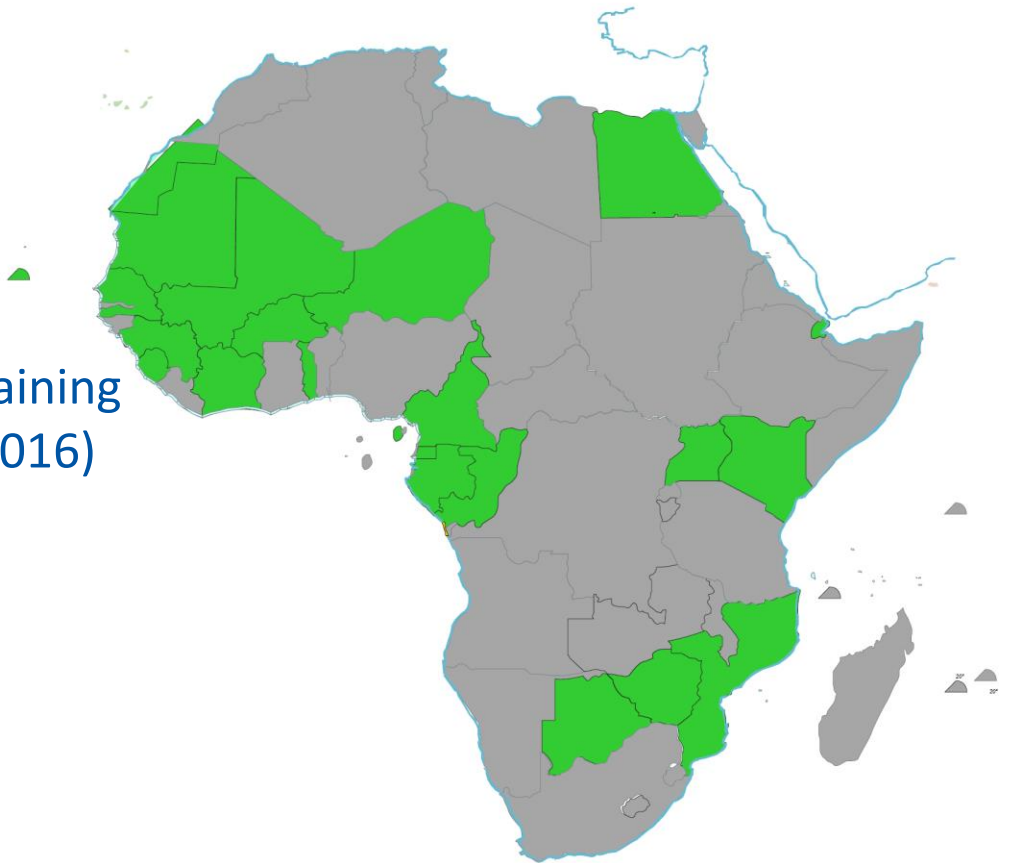
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States concerned by PANS OPS training  
assistance and support (2014/2016)





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- Expertise for workshops and training sessions facilitation
  - AFPP
  - ICAO HQ
  - ASECNA
  - ENAC (France)
  - Kenya CAA and EASA (Kenya)
  - AIRBUS





# Future activities, 2016/2017

Category	Title	Duration	Dates
Training	PANS OPS designer, conventional procedures	4 weeks	22/08-16/09/2016
	PANS OPS designer, PBN procedures	4 weeks	21/11-16/12/2016
	OJT	6 weeks	
	PBN OPS Approval	5 days	7-11/11/2016
Workshops	National PBN Implementation Plan	4 days	
	Quality Assurance for IFP implementation	5 days	
	PBN airspace design	2 weeks	10-21/10/2016
	PANS OPS design for regulatory authorities	2 weeks	16-27/01/2017
	Data origination	3 days	20-22/09/2016
	PBN for ATC/ATM personnel	5 days	





# Future activities, 2016/2017

Category	Title		
Assistance	National PBN Implementation Plan		
	- <i>Cameroon, Congo, Guinea, Mali, Sao Tome and Principe</i>		
	Instrument Flight Procedures Regulatory Approval		
	- <i>Cabo Verde</i>	<i>PBN procedures</i>	<i>2 airports</i>
Support	Instrument Flight Procedures Design (conventional, PBN)		
	- <i>Cameroon</i>	<i>Design</i>	<i>1 airport</i>
	- <i>Botswana</i>	<i>Implementation</i>	<i>4 airports</i>
	- <i>Zimbabwe</i>	<i>Implementation</i>	<i>2 airports</i>
	- <i>AIRBUS Showcase (Guinea, Liberia, Sierra Leone)</i>	<i>Global implementation</i>	<i>1 airport</i>





# Costs for activities

Category		Members		Non-Members
		APS	US	
Training	PANS OPS Design	Annual contribution	No charge	Charged
	OJT	Annual contribution	Charged	Charged
	PBN OPS Approval	Annual contribution	Charged	Charged
Workshops	All	No charge	No charge	No charge
Assistance	PBN National Plan	Annual contribution	Charged	Charged
	Regulatory approval (Quality Assurance)	Annual contribution	Charged	Charged
	IFP Implementation (design, ...)	Charged	Charged	Charged
Other services		Charged	Charged	Charged

Costs are charged according to ICAO Policy



# 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
    - 15 States out of 22, paid 2015 contribution
    - 3 States out of 25, paid 2016 contribution
- And what future after Phase 1 in 2017: Task Force (AFPP Phase 2) soon meeting





- Conclusion
  - African States are requested to support the African Flight Procedure Programme (AFPP) by paying their annual contribution for Years 2015 and 2016
  - African States are requested to provide in-kind contribution to the AFPP on expert secondment basis in order to give internal expertise to the AFPP to conduct the training, assistance and support activities as presented
  - It is suggested that African States request AFPP assistance when necessary for PBN implementation
  - It is requested that the AFPP Task Force provides proposal for the Future of the AFPP





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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  
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(APAC) Office  
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