





## EGYPT ASBU B0 IMPLEMENTATION STATUS





### **Outline**

- ☐ Brief on the Egypt National ASBU Implementation Plan
- Overall Progress in ASBU Implementation
- Challenges
- Lessons Learned
- Recommendations
- **☐** Outlook 2020





# EGYPT National ASBU Implementation Plan



### **EGYPT National ASBU Implementation Plan**



☐ Develop Egypt strategic plan with a goal of global aviation system interoperability.

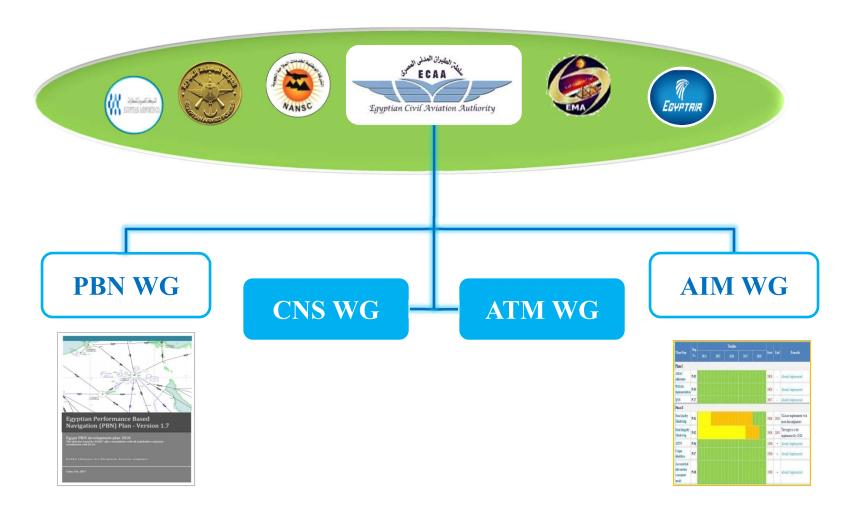
☐ Implement priority 1 ASBU Block 0 modules according to Egypt operational requirements and the MID region air navigation strategy to be in line with global strategic objectives.



### **EGYPT National ASBU Implementation Plan**



#### **Egypt National ASBU Committee**







### **Overall Progress in ASBU Implementation**

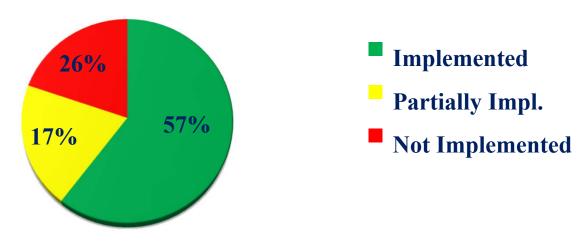


# Overall Progress in ASBU B0 Implementation (Priority 1)



ASBU B0	A	APT	A	SU	RF	ACDM	]	F <b>IC</b> I	E	DATM			AM	AMET FRTO		NOPS	ACAS	SN	ET	CI	00	CO	C <b>O</b>							
State	PBN Plan	LNAV	LNAV/VNAV	ASMGCS 1	ASMGCS 2	Total	AMHS Cap.	AMHS Imp.	AIDC/OLDI	AIM Plan	AIXM	eAIP	QMS	WGS-84	eTOD Area 1 T	eTOD Area 1 O	eTOD Area 4 T	eTOD Area 4 O	SADIS 2G/FTP	QMS	FUA	Flex. Ruting	Total	Total	STCA	MSAW	PBN STARs	CDO	PBN SIDs	000
EGYPT																														

#### **ASBU B0 / Element**





# Overall Progress in ASBU B0 Implementation (Priority 2)



		Sta	tus			
Module	Module Title	Yes	No	Remarks		
B0-WAKE	Increased Runway Throughput through Optimized Wake Turbulence Separation	Yes				
B0-RSEQ	Improve Traffic flow through Runway Sequencing (AMAN/DMAN)		No			
B0-ASUR	Initial capability for ground surveillance	Yes		PSR , SSR and MLAT Implemented		
B0-ASEP	Air Traffic Situational Awareness (ATSA)		No			
B0-OPFL	Improved access to optimum flight levels through climb/descent procedures using ADS-B		No			
во-тво	Improved Safety and Efficiency through the initial application of Data Link En-Route		No			



### Challenges



- □ CBA for defining clear planning to implement new technologies (Ex. GBAS) in the medium Term Plan.
   □ Software updates according to PANS-OPS new criteria.
   □ Implementation of ATFM system (efficient SID & STAR).
   □ Comprehensive training is required for operational personnel
- ☐ Civil/Military coordination and FUA.

and Procedure designers.

☐ Interoperability issues between different systems (Neighboring ACCs – Meteorological Systems).



### **Lessons Learned**



#### **■** Working groups Development

The implementation of working groups for different subjects has proven to be very useful and effective.

- **□** Early Stakeholder Engagement
  - ASBU implementation requires close collaboration between Airspace stakeholders for the implementation of identified ASBU modules in an efficient and harmonized manner.
- ☐ Cooperation of neighboring States, according to regional plan, is essential
- □ Sharing and exchanging of experiences during implementation can facilitate the progress of plan and reduce implementation time and costs.



### Recommendations



- ☐ Inviting ICAO MID Office for establishing ASBU Implementation Action group from ANP focal points and experts to focus on:
  - The difficulties related to the implementation of some specific Modules/elements CCO/CDO, A-CDM, ...etc.
  - **Expedite the implementation status of ASBU by Sharing states** experiences and transfer the effective methodologies of the implementation.
- □ ICAO invited to arrange ASBU workshops in order to keep the states updated with the new methodologies and structure that will be introduced in 2019 update of GANP as preparation for ASBU Block 1



### Outlook 2020 (Status of ASBU Block 0 Modules by 2020)



N. 1.1		S	tatus b	y 202	0	D am aulys		
Module	Module Title	FI	PI	NI	N/A	Remarks		
B0-APTA	Optimization of Approach Procedures including vertical guidance	FI						
B0-WAKE	Increased Runway Throughput through Optimized Wake Turbulence Separation	FI						
B0-RSEQ	Improve Traffic flow through Runway Sequencing (AMAN/DMAN)		PI					
B0-SURF	Safety and Efficiency of Surface Operations (A-SMGCS Level 1-2)	FI						
B0-ACDM	Improved Airport Operations through Airport-CDM	FI				Conducting CBA in the 2nd phase (Analysis phase) of the implementation plan (In Progress)		
B0-FICE	Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration	FI						



### Outlook 2020 (Status of ASBU Block 0 Modules by 2020)



M		St	atus	by 20	20	
Module	Module Title	FI	PI	NI	N/A	Remarks
B0-DATM	Service Improvement through Digital Aeronautical Information Management	FI				
B0-AMET	Meteorological information supporting enhanced operational efficiency and safety	FI				
B0-FRTO	Improved Operations through Enhanced En-Route Trajectories	FI				
B0-NOPS	Improved Flow Performance through Planning based on a Network-Wide view	FI				
B0-ASUR	Initial capability for ground surveillance	FI				
B0-ASEP	Air Traffic Situational Awareness (ATSA)	TBD				



### Outlook 2020 (Status of ASBU Block 0 Modules by 2020)



NC 1.1		St	atus	by 20	20	
Module	Module Title	FI	ΡI	NI	N/A	Remarks
B0-OPFL	Improved access to optimum flight levels through climb/descent procedures using ADS-B		PI			
B0-ACAS	ACAS Improvements	FI				
B0-SNET	Increased Effectiveness of Ground-Based Safety Nets	FI				
B0-CDO	Improved Flexibility and Efficiency in Descent Profiles (CDO)		PI			
во-тво	Improved Safety and Efficiency through the initial application of Data Link En- Route				N/A	
В0-ССО	Improved Flexibility and Efficiency Departure Profiles - Continuous Climb Operations (CCO)		PI			





### Thank You!

**Presented By** 

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