





# Third Meeting of the Aeronautical Information Management Sub-Group (AIM SG/3)

Cairo, Egypt, 15-18 May 2017

Saudi Arabia
Presented by Ghorman Al Shehri
AlM Manager







## **Outline**

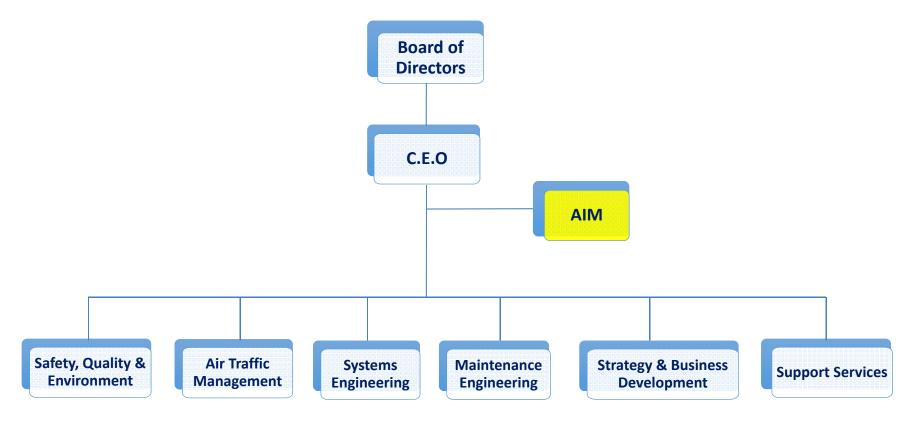
- > Saudi Arabia National AIM Implementation Roadmap
- > Status of B0-DATM Implementation
- Outlook 2020
- > Status of AIM Deficiencies
- Lessons Learned
- Challenges
- Recommendations





## Saudi Arabia National AIM Implementation Roadmap

> AIM - Positional Organization Structure

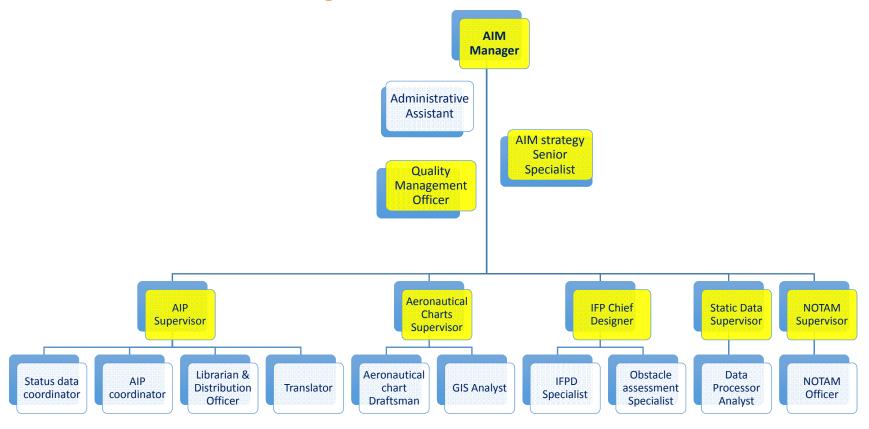






## Saudi Arabia National AIM Implementation Roadmap (Cont.)

> AIM - Positional Organization Structure







## Saudi Arabia National AIM Implementation Roadmap (Cont.)

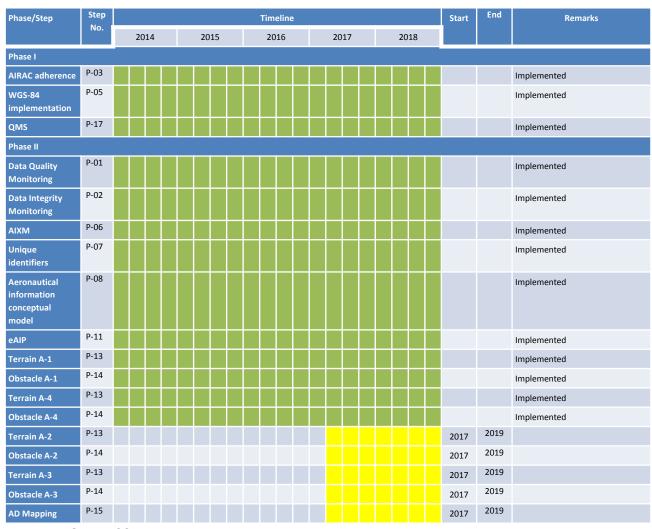
#### > National AIM Roadmap implementation

- ✓ KSA Roadmap updated on November 2016 (as per ICAO SL AN8/4-16/261 dated 22 September 2016).
- ✓ AIRAC Adherence questionnaire sent to ICAO MID Office.
- ✓ Renew of QMS ISO 9001 Certificate.
- ✓ eAIP distributed on DVD only and soon on website (new edition).
- ✓ Training on "AIS to AIM" for 25% of AIM Officer during 2016. (other 25% will be trained during 2017).





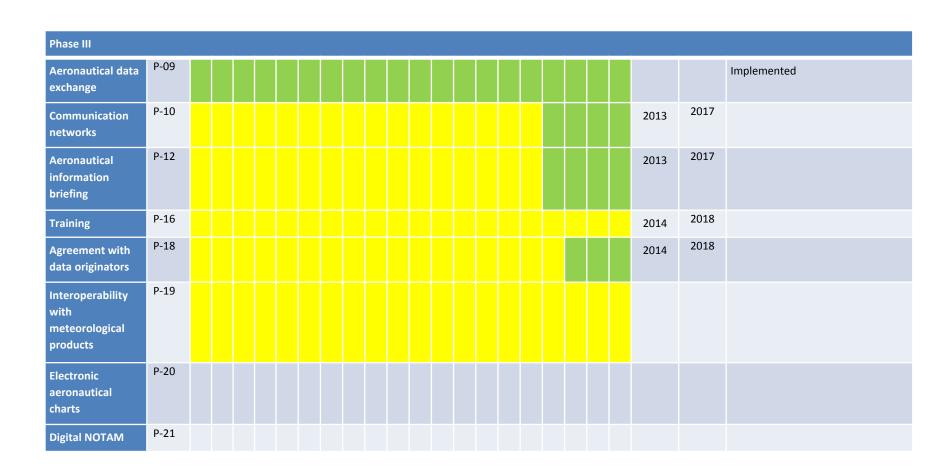
### **National AIM Implementation Roadmap**







### **National AIM Implementation Roadmap**









## **Status of B0-DATM Implementation**

#### **Abbreviations used in Status Tables:**

NI: Not implemented

PI: Partially Implemented

FI: Fully Implemented

**NC: Not Compliant** 

**PC: Partially Compliant** 

FC: Fully Compliant

N/A: Not Applicable

Note – NC/PC/FC is used for the provisions required by SARPS; NI/PI/FI are regionally

agreed requirements







Provision of AIS/AIM products and services based on the Integrated Aeronautical Information Database (IAID)				
Elements	Status	Action Plan	Remarks	
Integrated Aeronautical Information Database (IAID)	FI			
AIXM (+version)	FI (Version 4.5)		AIXM 5.1 by end 2017	
eAIP (IAID-based)	FI			
NOTAM (IAID-based)	PC		Separated Database but loading of static data from IAID is possible	
SNOWTAM (IAID-based)	PC		Separated Database but loading of static data from IAID is possible	
PIB (IAID-based)	PC		Separated Database but loading of static data from IAID is possible	
Charting (interoperable with IAID)	FC			
Procedure Design (interoperable with IAID)	FI			
ATS (interoperable with IAID)	FI			







Aeronautical Data Quality				
Elements	Status	Action Plan	Remarks	
Quality Management System (QMS)	FC			
Formal agreement with originators	FC			
Digital data exchange with originators	NI	2020		
Metadata	FC			
Data quality monitoring	FC			
Data integrity monitoring	FC			
AIRAC adherence	FC			







WGS-84				
Elements	Status	Action Plan	Remarks	
FIR/ENR	FC			
Terminal	FC			
AD	FC			
Geoid Undulation (GUND)	FC			





electronic Terrain and Obstacle Datasets (eTOD)					
Elements	Status	Action Plan	Remarks		
Area 1 Terrain	FC				
Area 1 Obstacles	FC				
Area 4 Terrain	FC				
Area 4 Obstacles	FC				
Area 2a Terrain	NC	2019			
Area 2a Obstacles	NC	2019			
Area 2b Terrain	NI	2019			
Area 2b Obstacles	NI	2019			
Area 2c Terrain	NI	2019			
Area 2c Obstacles	NI	2019			
Area 2d Terrain	NI	2019			
Area 2d Obstacles	NI	2019			
Area 3 Terrain	NI	2019			
Area 3 Obstacles	NI	2019			
AMDB	NI	2019			



#### Outlook 2020





#### (Status of B0-DATM by 2020)

<b>B0</b> – DATM: Service Improvement through Digital Aeronautical Information Management				
Elements	Applicability	Status	Action	Remarks
N: LAIN 4			Plan/Timelines	
National AIM Roadmap	State	FI		
AIXM	State	FI (Ver. 5.+)		
(+version)				
eAIP	State	FI		
QMS	State	FC		
WGS-84	ENR	FC		
	AD	FC		
	TMA	FC		
	GUND	FC		
eTOD	Area 1 Terrain	FC		
	Area 1 Obstacle	FC		
	Area 4 Terrain	FC		
	Area 4 Obstacle	FC		







#### **Status of AIM Deficiencies**

	AIM Deficiency	Status	Action Plan/Timelines	Remarks
Pi	re-flight information service not provided at International Airports	Not completed	December 2017	Through Web Based Pilot Briefing System (WBPBS)







### **Lessons Learned**

- ➤ Instrument Flight Procedure Design unit within AIM Department: Flexibility, interoperable exchange with Aeronautical Information Database (IAID);
- ➤ To implement AIM roadmap we have to involve all Airspace stakeholders;
- ➤ Reply to airspace users on time and acquire the data that they need as required is a **good way to earn their trust**.
- Competency of AIM Staff is the most important reason for AIM success;
- Resolve essential issue as needed and be ready for the future.







## Challenges

- Human Resources: to provide more training in line with AIM and future IM;
- New technology: to update our Automation System and Integrated Aeronautical Information Database (IAID);
- ➤ Integration with other systems: To link IAID with eTOD database and becoming major enabler for current & future systems;
- Introduce Digital data and interoperable exchange with authoritative sources;
- Achieve eTOD area 2 & 3;
- Start AIMDB.







### Recommendations

- > State to share best practices on AIM implementation;
- To Involve regulator and main stakeholders from the beginning in projects related to AIM and IM;
- > ICAO to provide more training workshop on AIM;







## Thank you