



International Civil Aviation Organization

SIP/2012/ASBU/Dakar-WP/17

# AIM - implementation

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Workshop on preparations for ANConf/12 – ASBU methodology  
(Dakar, 16-20 July 2012)

# Overview



- What we have been doing
- What we are doing
- What will we be doing next

# What we have been doing.....



## 2008

- NextGen / SESAR Conference in Montreal
- AIS-AIMSG/1

## 2009

- Gap Analysis of NextGen/SESAR/ICAO
- AIS-AIMSG/2
- AIS to AIM transition roadmap

## 2010

- Harmonisation of NextGen and SESAR
- Introduction of CARATS
- AIS-AIMSG/3
- Amendment 36 to Annex 15

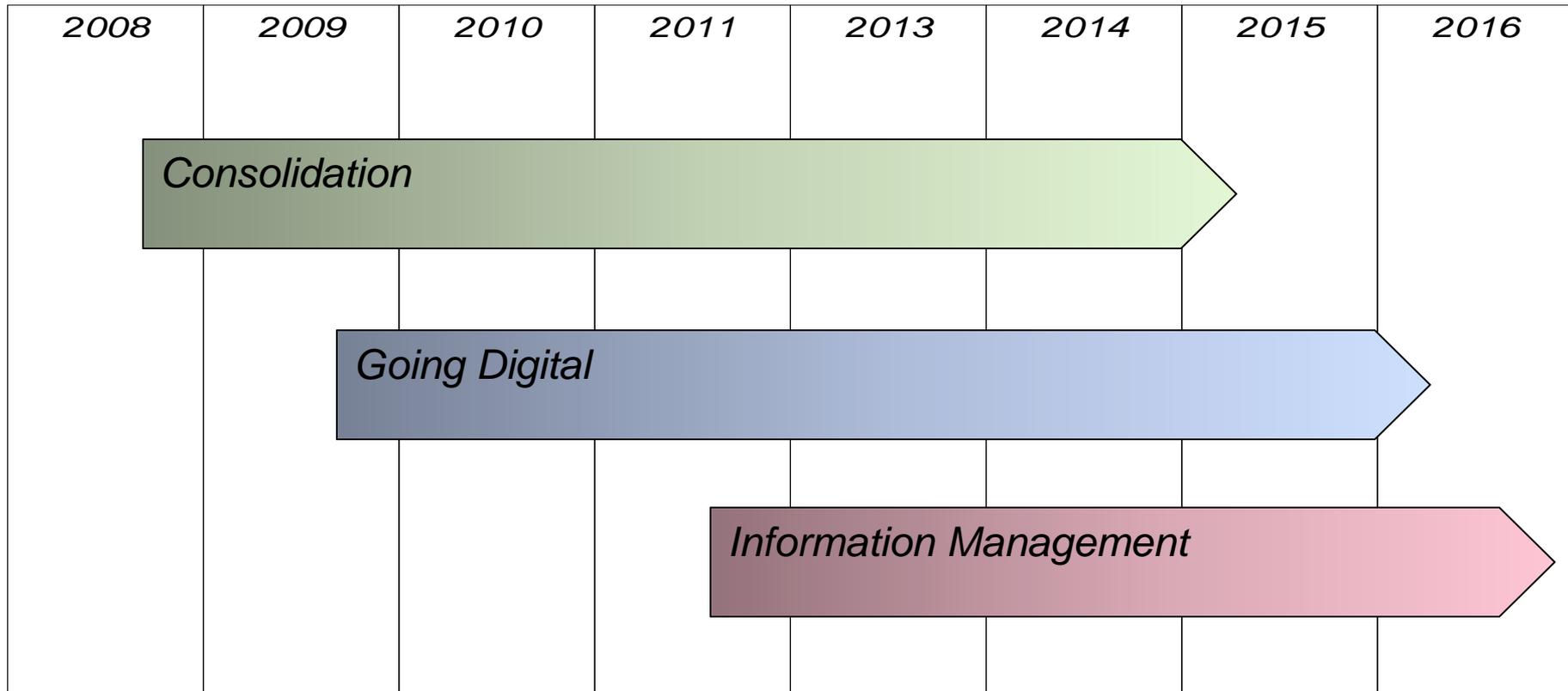
# What we have been doing.....



## 2011

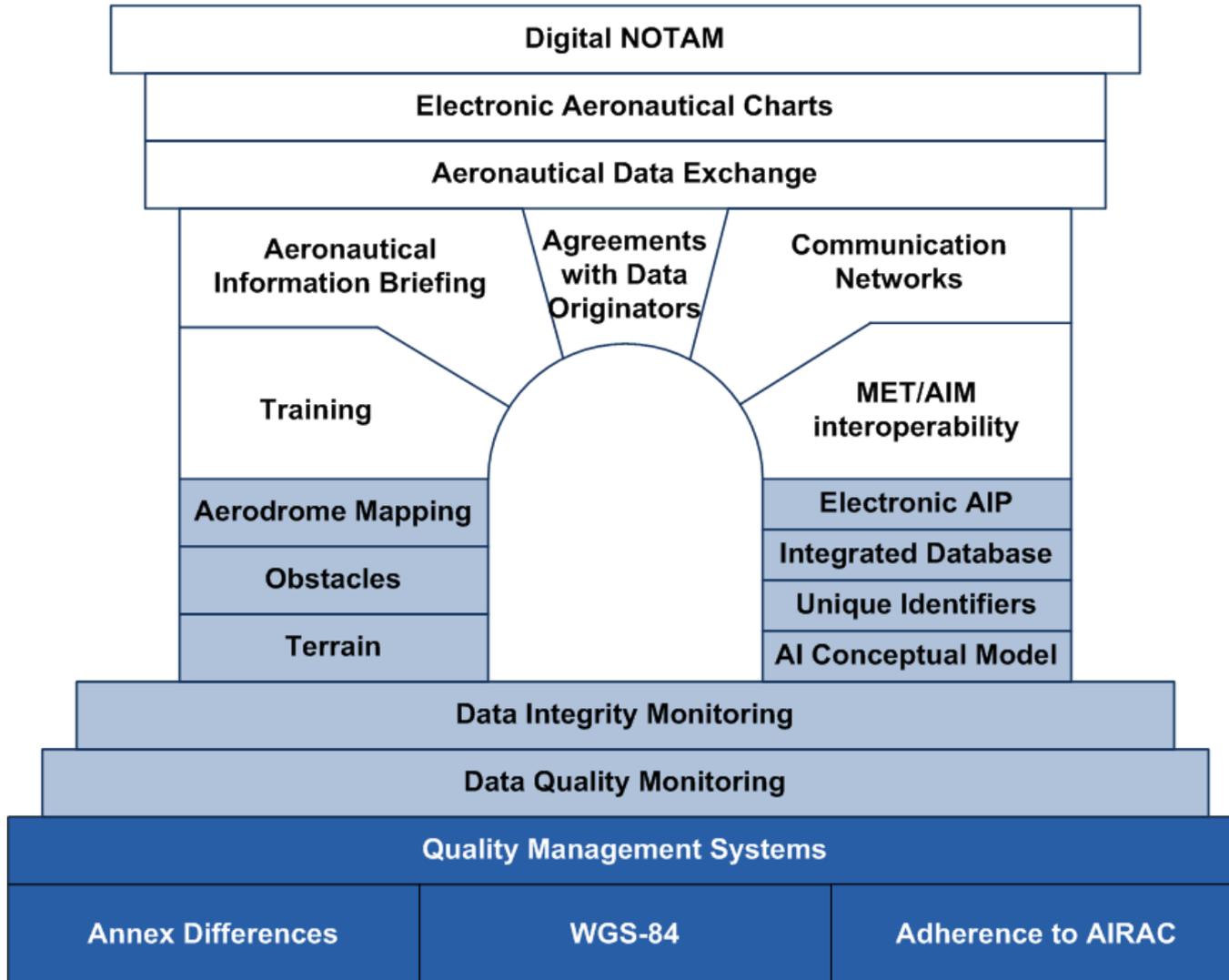
- AIS-AIMSG/4
- Development of Amendment 37 to Annex 15
- GANIS
- Initiate work to integrate AIM into Global ATM
  - AIM Operational Concept
  - SWIM integration

# AIS to AIM Roadmap - 3 Phases



# AIS to AIM Roadmap

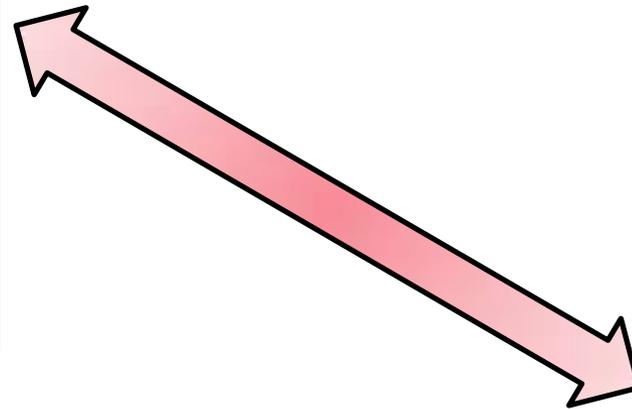
## - 21 interrelated steps



# Current ICAO Provisions



← SARPS



Guidance  
Material →



# Annex 15



Requirements	Detailed specifications
General Requirements	AIP Format
AIP	SNOWTAM Format
NOTAM	ASHTAM Format
AIRAC	AIRAC Contents
AIC	NOTAM Distribution System
Pre and post flight information	NOTAM Format
Telecommunication Requirements	Data Quality
eTOD	Terrain and Obstacle data



### Provisions, procedures, practices and formats applicable to:

- **AIP**
- **NOTAM, SNOWTAM, ASHTAM**
- **AIRAC**
- **Data acquisition**
- **Data quality**
- **Integrated briefing**
- **Inter-service communication**

- **Annex 15:**
  - **Amendment 37 (2013)**
    - Introduce AIM elements
  - **Amendment 38 (2016)**
    - Fully restructured
- **Global AIM Operational Concept**
- **IM Roadmap** → **GANP**
- **PANS-AIM (2016)**

# AIM Provisions Framework



<b>Document</b>	<b>Function and Content</b>	<b>Primary Audience</b>
<b>Annex 15</b>	<b>Requirements and performance specifications</b>	<b>States</b>
<b>PANS-AIM</b>	<b>Procedures, processes, formats, technical specifications</b>	<b>States and service delivery organizations</b>
<b>AIS (AIM) Manual</b>	<b>Best practices; guidance on application and implementation</b>	<b>Service delivery organizations</b>

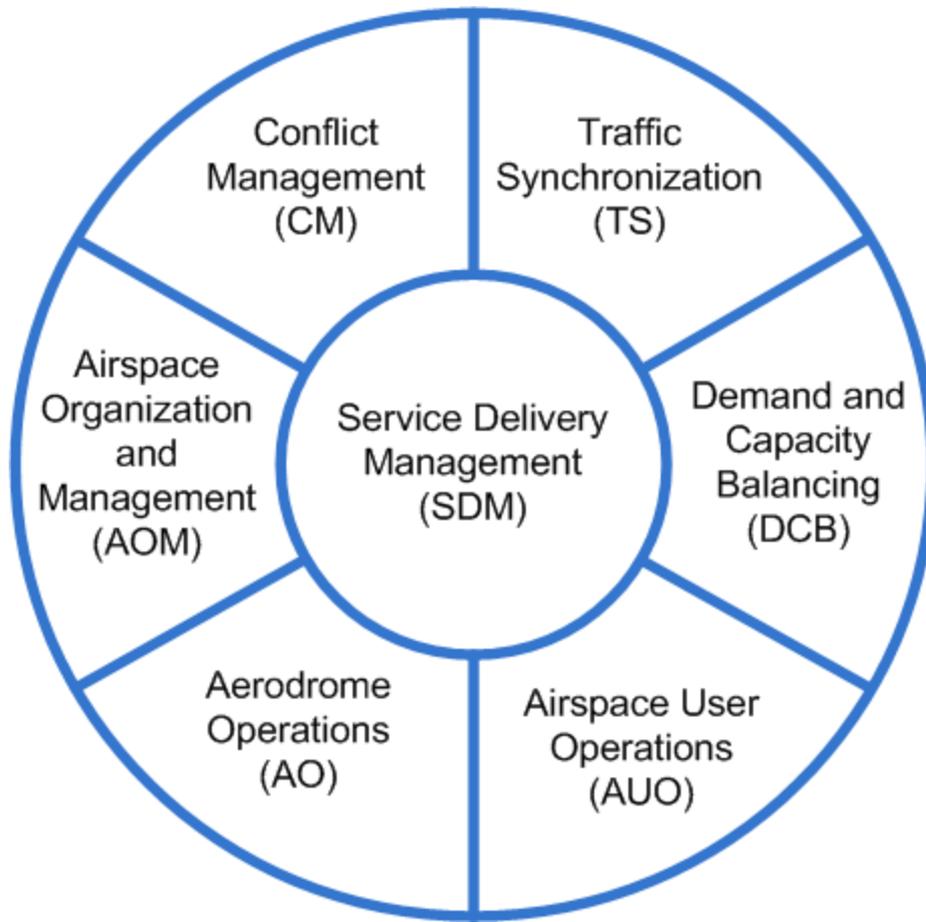
# Structural Implementations – The bigger picture



- **Global ATM Operational Concept has a target implementation horizon of 2020-2025**
- **ATM requirements expand the OC and provide the basis for ATM development**

2011	2012	2013	2014	2015	2016	2017	2018
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# ATM Operational Concept



- **7 inter-related concept components**
- **Describes a “vision of achievable benefits”**
- **Information is a overarching dimension linking all components**
- **CDM is a key process**

# Information is the key enabler



**The delivery of timely, quality assured information as needed across:**

- **Multiple Domains**
- **Multiple Providers**
- **Multiple users**
- **Multiple applications**
- **Multiple communication modes**
- **Multiple Modernization Programs**

# Planning and development is underway

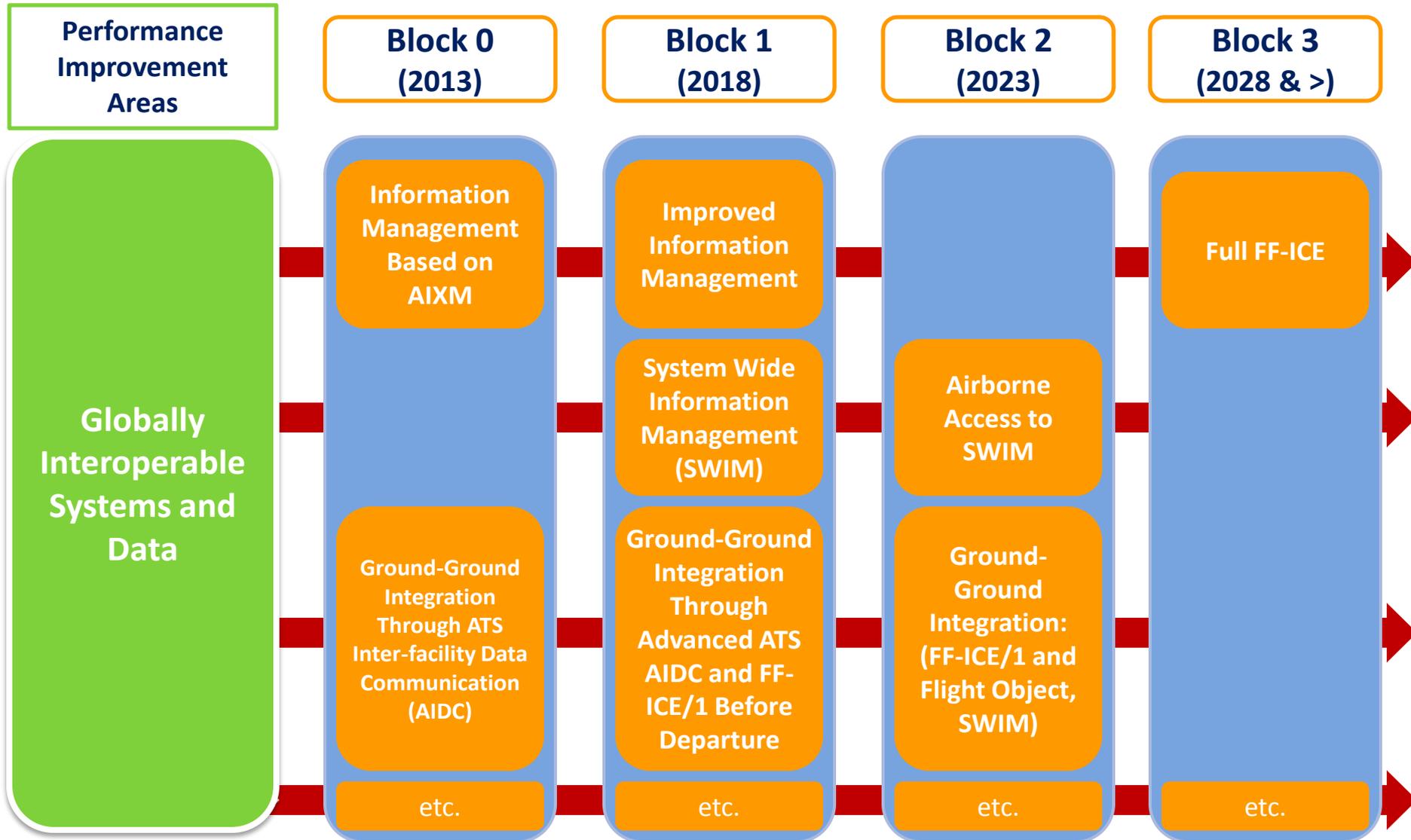


A number of planned implementations.....





# Possible AIM integration....



# Possible AIM integration...FPL



- **Amendment 1 to PANS-ATM 15<sup>th</sup> Edition - FPL**
- **The changes were announced by ICAO in 25 June 2008 and will become applicable on 15 November 2012**
- **Necessary to allow ATM systems to make optimum use of advanced aircraft capabilities already onboard the aircraft**
- **Is one step towards a completely integration of the aircraft to the ATM system as envisaged in the Global ATM Operational Concept**

# Possible AIM integration...FPL

- **Flight planning environment**
- **Transition Strategy**
- **Checklist Tasks**
- **Implementation guidelines**
- **Conversion of new items to present items**
- **Flight Plan Implementation Tracking System (FITS)**

# In Summary.....



- **Current roadmap leads to digital AIS services**
- **New functions, products, and services are in the process of identification**
- **New roadmap will extend from the current one and be incorporated into the GANP**
- **Delivery of full IM should allow for flexible applications**
- **New FPL as one step**

# In summary - Milestones



Date	Event	Milestone
20-23 Sept 2011	GANIS	Industry feedback on : <ul style="list-style-type: none"> <li>• ASBUs</li> <li>• AIM concept with Roadmap and PANS-AIM</li> </ul>
15 Nov 2012	FPL	States/ANSPs/Airlines using ne FPL functions
19-30 Nov 2012	ANC 12	<ul style="list-style-type: none"> <li>• Present Global AIM and SWIM concept and outline of ICAO provisions (SARPS and PANS)</li> <li>• Agreement of the first series of block upgrades</li> <li>• GANP</li> </ul>
Nov 2013		Annex 15 Amendment 37
Sept 2014	MET – AIM Divisional meeting	Present draft PANS-AIM and Annex 15 provisions
Nov 2016		Annex 15 Amendment 38 PANS-AIM 1 <sup>st</sup> edition

# ICAO

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Safety | Security | Environment