

NCLB AIM Workshop

MID Office, Cairo, 11-13 September 2017



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Global Air Navigation Plan



CAPACITY & EFFICIENCY

2016–2030 Global Air Navigation Plan



What is the GANP?

- Supports a harmonized global Air Navigation System
- It is an overarching framework
- Addresses key civil aviation policy principles
- Assists ICAO Regions and States to establish air navigation priorities for the next 15 years
- Assists ICAO Regions and States to prepare their navigation plans



Encompasses Performance Framework

Addresses ANSP, Regulatory and **User requirements**

Includes ASBU Methodology

Doc 9750 GANP Ed. 5, 2016

GANP history

Doc 9750 Ed. 3, 2006 Doc 9750 Ed. 2, 2001

Global ATM

Doc 9750 Ed. 1, 1998

Appendix to FANS Report, 1992

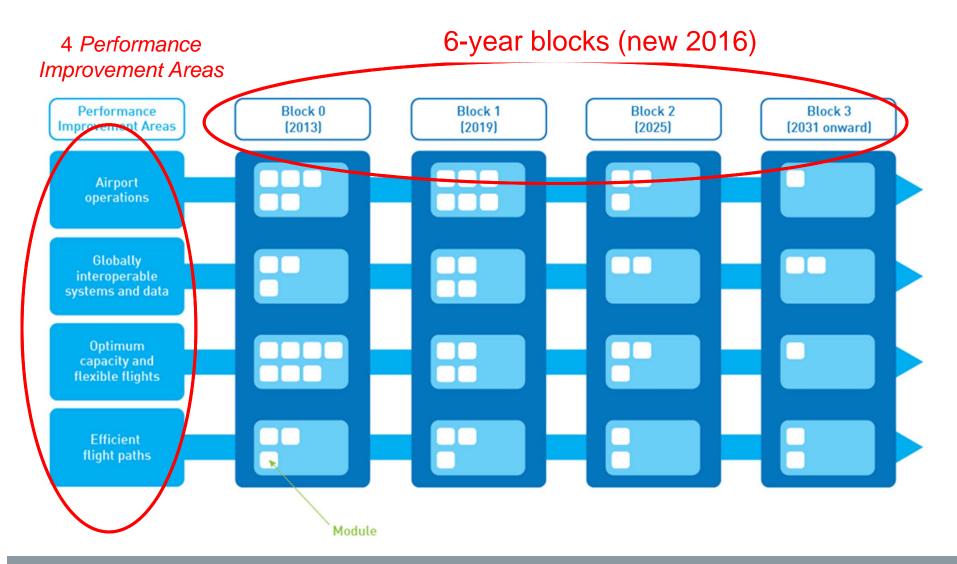
Doc 9885, 2008 ATM System Requirements

Doc 9883, 2008 Global Performance Wannal

Doc 9854, 2005 Operational Concept

Combanion documents

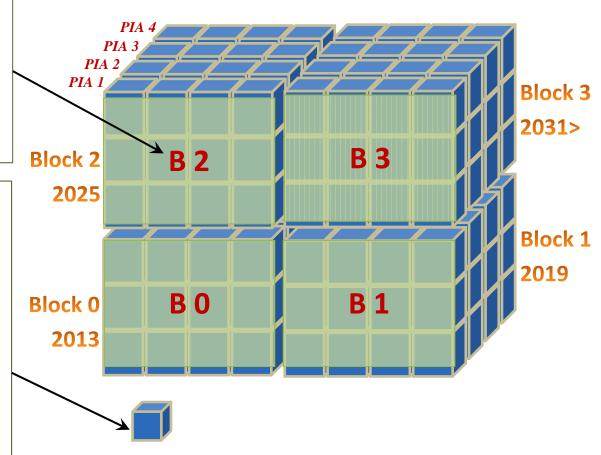
ASBU Framework

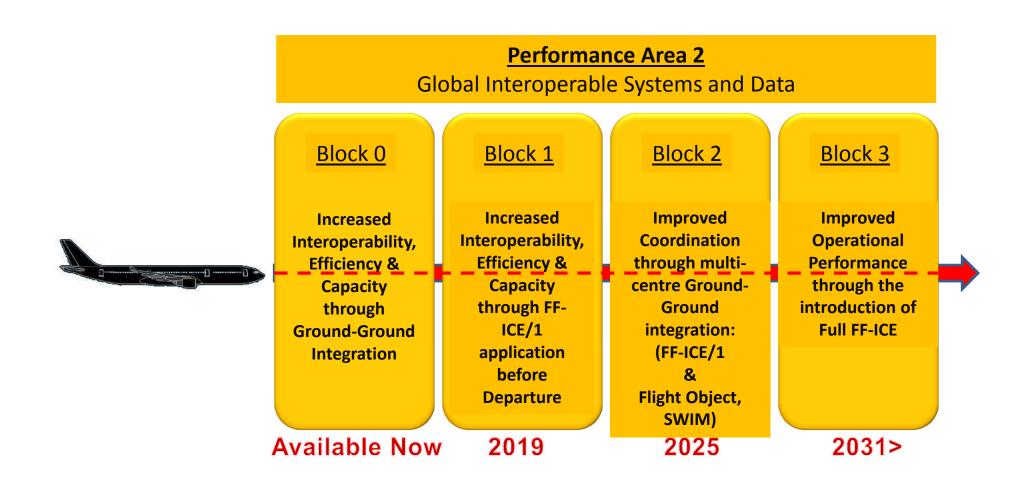


Blocks & Modules

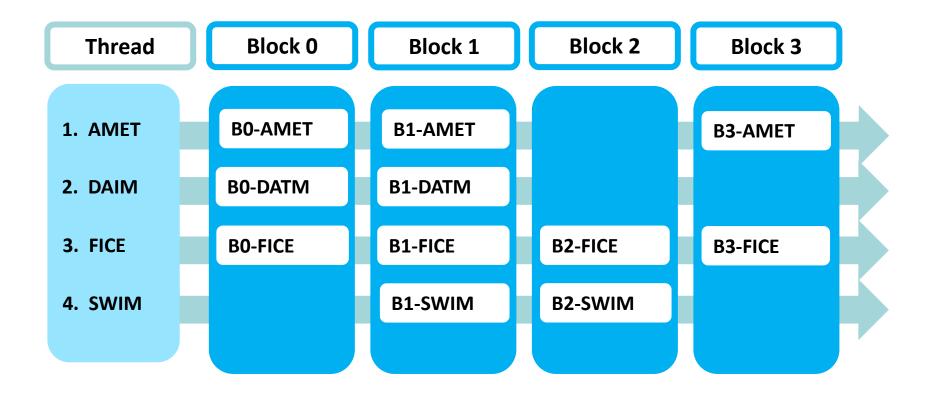
Block—is made up of modules that, when combined, enable significant improvements and benefits (within a defined time frame).

Module — a deployable package based on performance or capability. It offers a clear operational benefit, supported by procedures, technology, regulation/standards as necessary, and a business case. A module will be also characterized by the operating environment within which it may be applied.





PIA 2: Globally Interoperable Systems and Data

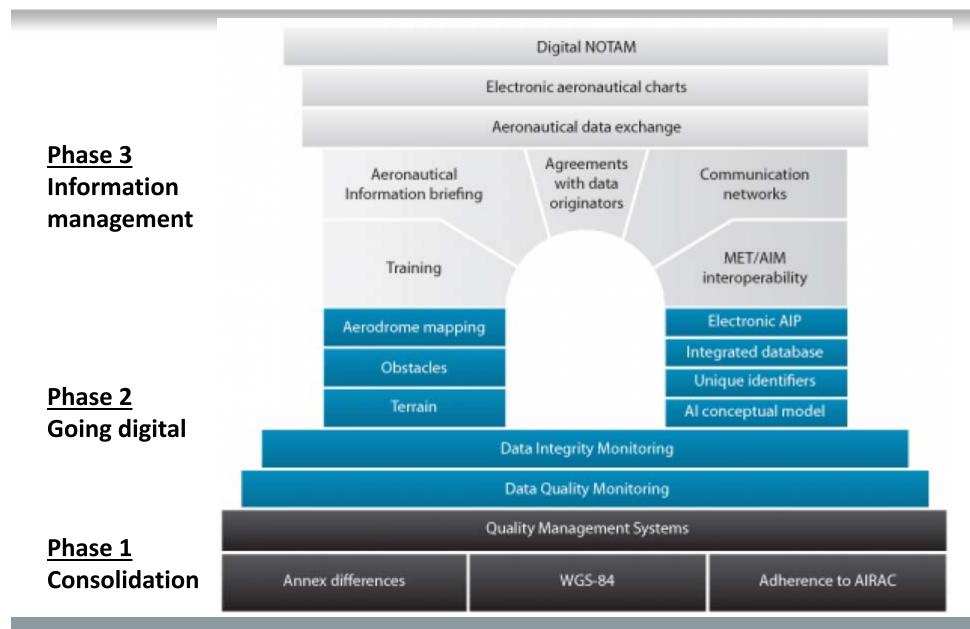


AIM Definition

- The dynamic, integrated management of aeronautical information through the provision and exchange of quality-assured digital aeronautical data in collaboration with all parties. (ICAO Annex 15)
- AIM: the right digital Aeronautical Information, at the right place, at the right time.

How to get there?

- ICAO Roadmap for the Transition from AIS to AIM
 - ICAO has developed in 2009 a roadmap to reflect the importance of the evolution and to address the required changes from AIS to AIM.
 - The roadmap identifies major milestones for a uniform evolution, the specific steps that need to be achieved and timelines for implementation.



MID Region AIM implementation Roadmap

| | Related | 2016 | | 2017 | | 2018 | | 2019 | | 2020 | | 2021 | | 2022 | | Priority | Remarks | | |
|--|----------|------|---|------|--|------|-----|------|--|------|--|------|-----|------|--|----------|---|--|--|
| | Steps | 1 | 2 | 1 2 | | 1 2 | | 1 2 | | 1 2 | | 1 2 | | 1 2 | | - 1 | | | |
| AIXM | P07, P08 | | | | | | , i | | | | | | - 1 | | | 1 | Target: 80% by 2018 | | |
| eAIP | P11 | | | | | | | | | | | | | | | 1 | Target: 80% by 2020 | | |
| Integrated Aeronautical Information Database | P06 | | | | | | | | | | | | | | | 2 | | | |
| Aeronautical Data Exchange | P09 | | | | | | | | | | | | | | | 2 | | | |
| Interoperability with MET | P19 | | | | | | | | | | | | l i | | | 3 | | | |
| Aeronautical Information Briefing | P12 | | | | | | | | | | | | | | | 3 | | | |
| Agreement with data originators | P18 | | | | | | | | | | | | | | | 1 | | | |
| Data Quality Monitoring | P01 | | | | | | | | | | | | | | | 1 | | | |
| Data Integrity Monitoring | P02 | | | | | | | | | | | | | | | 1 | | | |
| Terrain A-1 | P13 | | | | | | | | | | | | | | | 2 | Target: 70% by 2018 | | |
| Obstacle A-1 | P14 | | | | | | | | | | | | | | | 2 | Target: 60% by 2018 | | |
| Terrain A-4 | P13 | | | | | | | | | | | | | | | 2 | Target: 100% by 2018 | | |
| Obstacle A-4 | P14 | | | | | | | | | | | | | | | 2 | Target: 100% by 2018 | | |
| Terrain A-2a | P13 | | | | | | | | | | | | | | | 2 | | | |
| Obstacle A-2a | P14 | | | | | | | | | | | | | | | 2 | | | |
| Training | P16 | | | | | | | | | | | | | | | 1 | Continuous | | |
| Communication networks | P10 | | | | | | | | | | | | | | | 3 | | | |
| Digital NOTAM | P21 | | | | | | Т | | | | | | | | | 3 | | | |
| Electronic Aeronautical Charts | P20 | | | | | | | | | | | | | | | 3 | | | |
| Terrain and Obstacle for Areas 2b, 2c, 2d and 3 | P13, P14 | | | | | | | | | | | | | | | 3 | Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs | | |
| Aerodrome Mapping | P15 | | | | | | | | | | | | | | | 3 | Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs | | |

White: Planning

Light Green: Initial/On-going Implementation

Dark Green: Implemented (Performance Target achieved)

National AIM implementation Roadmap Template

| | | | | | DATE | | | | | | |
|---|-------------|------|----------------------------|------|----------|-------|------|---------|-----|-----|---|
| Phase/Step | Step No. | | | | Timeline | Start | End | Remarks | | | |
| | | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | | | |
| Phase I | | | | | - | | | | | | |
| AIRAC adherence | P-03 | | | | | | | | 1 | | |
| WGS-84 | P-05 | | | | | | | | | | |
| QMS | P-17 | | | | | | | | | | |
| Phase II | - | | | | | | | | | | |
| Data Quality Monitoring | P-01 | | | | | | | | | | |
| Data Integrity Monitoring | P-02 | | | | | | | | | | |
| AIXM | P-06 | | | | | | | | | | |
| Unique identifiers | P-07 | | | | | | | | | | |
| Aeronautical Information Conceptual Model | P-08 | | | | | | | | | | |
| eAIP | P-11 | | | | | | | | | | |
| Terrain Area 1 | P-13 | | | - / | | | | | | | |
| Obstacle Area 1 | P-14 | | | | | | | | | | |
| Terrain Area 4 | P-13 | | | | | | | | | | |
| Obstacle Area 4 | P-14 | | | | | | | | | | |
| Terrain Area 2 | P-13 | | | | | | | | | | Please specify implementation of Area 2a, 2b, 2c and/or 2d |
| Obstacle Area 2 | P-14 | | | | | | | | | | Please specify implementation of Area 2a, 2b, 2c and/or 2d |
| Terrain Area 3 | P-13 | | | | | | | | | | |
| Obstacle Area 3 | P-14 | | | | | | | | | | |
| AD Mapping | P-15 | | | | | | | | | | |
| Phase III | | | | | | | | | | | |
| Aeronautical data exchange | P-09 | | | | | | | | | | |
| Communication networks | P-10 | | | | | | | | | | |
| Aeronautical information briefing | P-12 | | | | | | | | | | |
| Training | P-16 | | | | | | | | | | |
| Agreement with data originators | P-18 | | | | | | | | | | |
| Interoperability with MET products | P-19 | | | | | | | | | | |
| Electronic aeronautical charts | P-20 | | | | | | | | | | |
| Digital NOTAM | P-21 | | | | | | | | | | |
| | | 100 | Not See 1 | | 100 | (2) | 0 0 | 20 | 100 | 100 | · |
| Legend | | | Not Started In Progress | | | | | | | | |
| | | | Implemente | d | | | | | | | |

Planning considerations

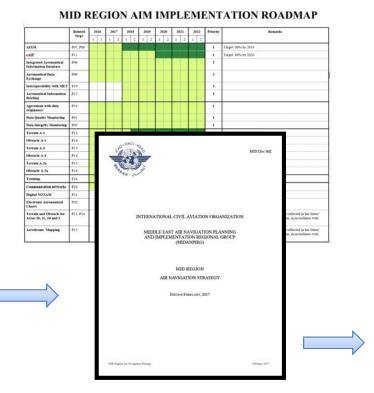
- Technical needs/requirements
- AIS personnel training
- Financial issues
- Organizational issues
- Other issues that need to be addressed



CAPACITY & EFFICIENCY

Summary





NATIONAL AIM IMPLEMENTATION ROADMAP

