



Destination Green

ICAO Symposium on Aviation and Climate Change, "Destination Green", 14 – 16 May 2013

Session III - Technology and Operations

Aviation System Block Upgrades (ASBU)

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Destination Green
Montréal, 14 May 2013



Agenda

Our Flight Plan



- 12th Air Navigation Conference Overview
- Global Air Navigation Plan (GANP)
- Aviation System Block Upgrades (ASBU)
- Global and Regional Performance Measurement, Reporting and Tools
- Regional Action and Next Steps





12th Air Navigation Conference

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- **10** Days
- **232** Conference Recommendations
- **153** Working Papers (WP)
- **62** Information Papers (IP)
- **1,030** Participants
- **120** States
- **30** International Organizations
- **25+** Media Articles



AN-Conf/12 – Overview

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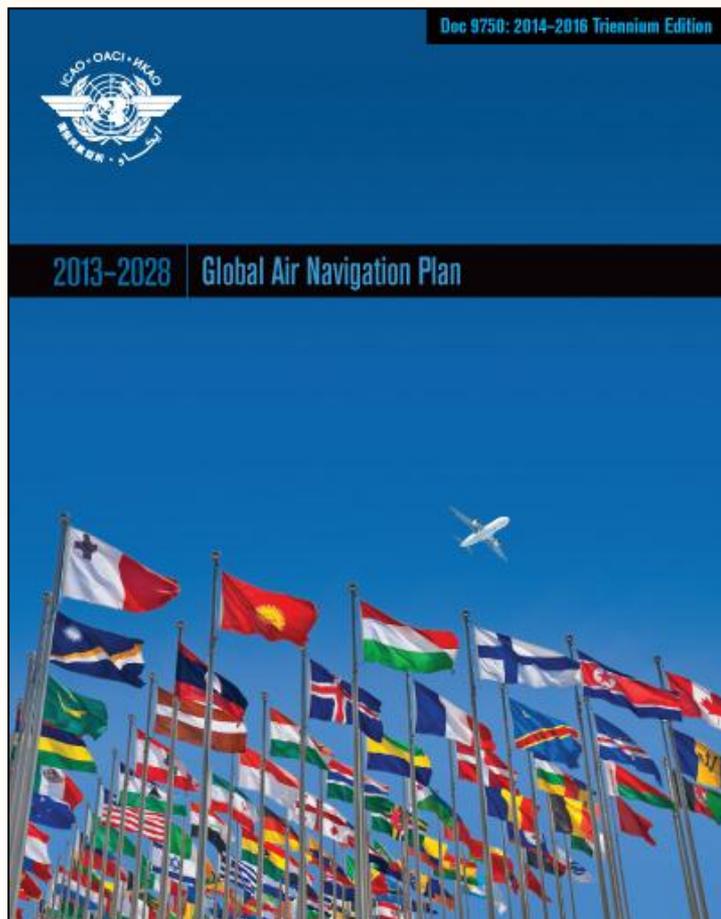


- **Main focus was GANP:**
 - A Plan for our future
 - Rolling 15-30 year horizon
 - Stable but updateable
 - An aid to decision-making
 - Focus on performance
 - Links to supporting information



GANP Policy Principles

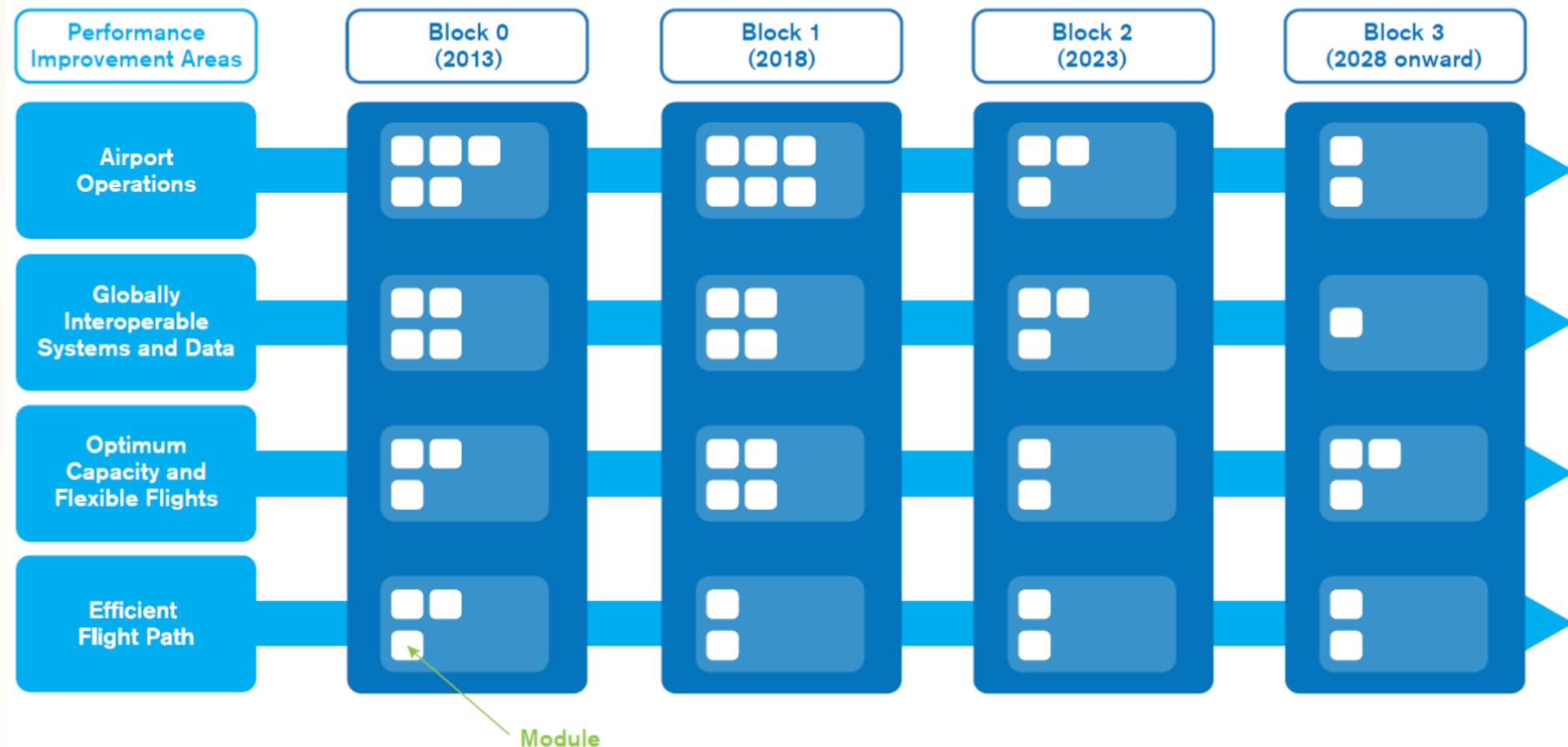
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1. Commitment to the Implementation of ICAO's Strategic Objectives and KPAs
2. Aviation Safety is the highest priority
3. Tiered Approach to Air Navigation Planning
4. Global Air Traffic Management Operational Concept (GATMOC)
5. Global Air Navigation Priorities
6. Regional and State Air Navigation Priorities
7. Aviation System Block Upgrades (ASBUs), Modules and Roadmaps
8. Use of ASBU Blocks and Modules
9. Cost Benefit and Financial issues
10. Review and Evaluation of Air Navigation Planning



GANP - ASBU Blocks and Modules

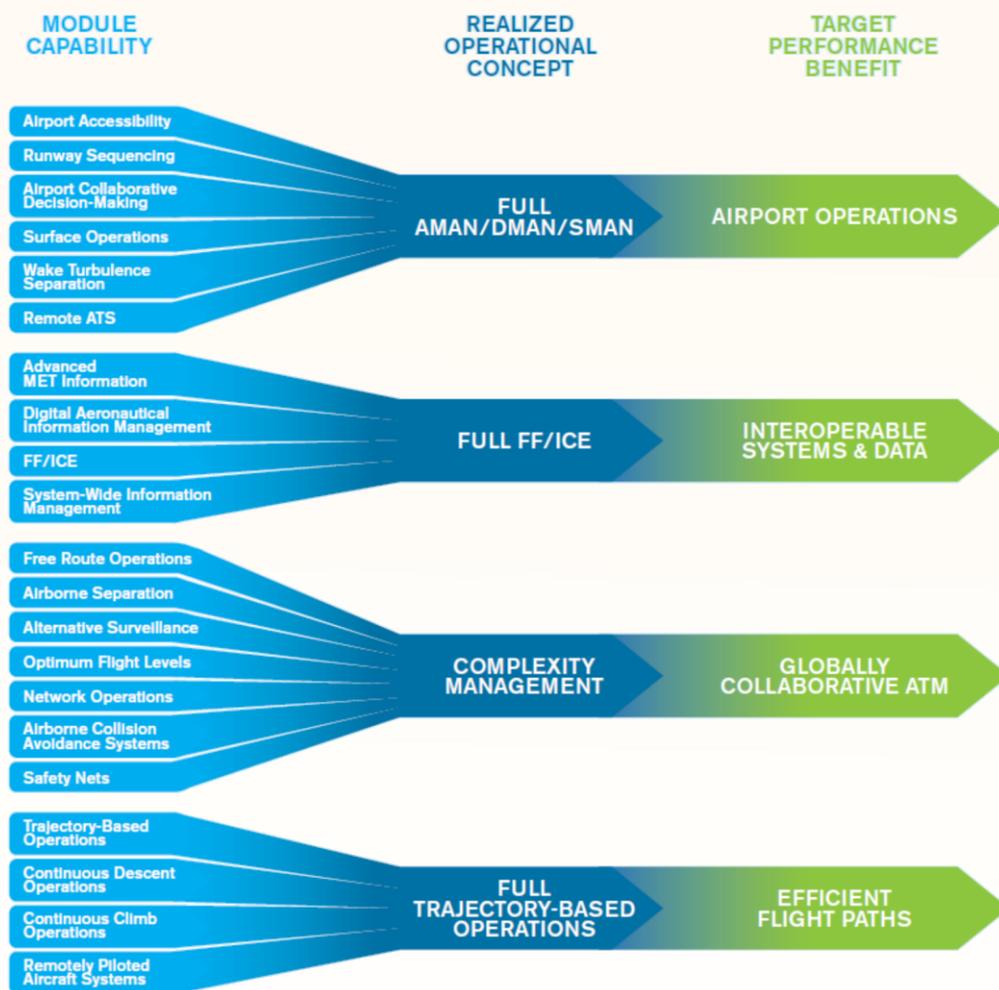




Aviation System Block Upgrades



- **Reminder of content**
 - Measurable operational improvement
 - Air & ground equipment/systems
 - Air & ground procedures
 - Positive business case
 - Operational approval or certification path
- **ASBU Document**
 - Hyperlinked to GANP
- **Approval dates**
 - Council – Week of 27 May
 - Assembly – October 2013



Ongoing and Transparent The Safety and AN System

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GLOBAL PLANS



Pending Endorsement by A/38

Outlines Global Priorities and Targets
Reviewed by ANC; Approved by Council
Endorsed by Assembly

GLOBAL PERFORMANCE REPORTS



Available **April 2014**

Reporting against Global Priorities
Global Reports (online) Annually
Special Version (print) for Assembly

REGIONAL PERFORMANCE DASHBOARDS



Africa – Aug 2013
All Regions - Mar 2014

Adopts Global Priorities, sets additional as needed
Used by PIRGs and RASGs to Measure Performance
Regional Office Updates Dashboard (online) semiannually

PIRG-RASG agreed to establish by certain dates:

Safety
(As soon as possible)

Air Navigation
(May 2014)

Measuring Against the Global Plans Regional Performance Dashboards

Metrics

1. **PBN TERMINAL**
% of international aerodromes with APV
2. **PBN ENROUTE**
% of PBN routes/airspace
3. **CDO**
% of international aerodromes/TMAs with CDO
4. **CCO**
% of international aerodromes/TMAs with CCO
5. **Estimated Fuel Savings/ CO2 Emissions Reduction Based on IFSET**
6. **ATFM**
% of ATS Units/international aerodromes providing ATFM service
7. **AIM**
% of needed elements (from AIS to AIM Roadmap) facilitating the transition from AIS to AIM that have been implemented – PHASE I



Online March 2014

Measuring Against the Global Plans

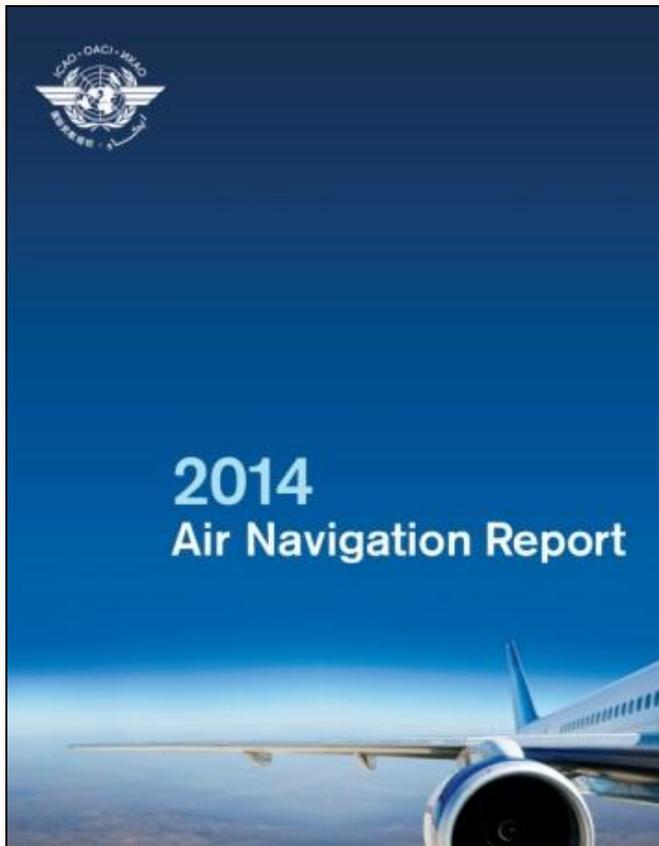
Air Navigation Report

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■ Preliminary Contents

- Global Air Navigation Challenges and Context
- How we measure up against those challenges
- Operational measures for a performance improvement
 - Using IFSET or more advanced measurement tool for reporting improvements
- Best practices; key demonstrations
- Next steps for Block 1 modules



April 2014



PIRG-RASG Global Coordination *Outcomes and Next Steps*



- Chairmen and Regional Directors to establish (or declare if already established) **priorities and targets** by a certain date
 - Safety Targets (*as soon as possible*)
 - Air Navigation Targets (*May 2014*)
- Endorsed the **Global Safety priorities** and understand the need for establishing targets
- Clearly identified the need for **training/workshops** to determine priorities for the Aviation System Block Upgrades
- Endorsed the **Regional Performance Dashboard** prototype and agreed on the initial metrics for Air Navigation
- Requested for the **PIRG-RASG Global Coordination Meeting** to be convened once every two years

Advanced ATM Techniques Workshop

Today's Opportunities for Saving Fuel and Reducing Emissions

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 **Advanced ATM Techniques Symposium**
Today's Opportunities for Saving Fuel and Reducing Emissions
4 – 6 November 2013, ICAO Headquarters, Montréal

Focus on

- Start today
- Measurable improvements
- Fuel savings & reducing emissions
- Global efficiency

Advanced ATM Techniques Workshop

Today's Opportunities for Saving Fuel and Reducing Emissions

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- **Showcase of achievements in ATM since 11th Air Navigation Conference**
 - Experience sharing
 - Learning and training
- **Environmental impact**
 - Measure it
 - Publicize it
- **Four priority areas**
 - CDM/ATFM
 - Continuous Operations (CCO) / Continuous Descent Operations (CDO)
- **Use of the ICAO Fuel Savings Estimation Tool (IFSET)**

North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montreal

Western and
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) Office
Bangkok



Thank You