



INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

ASBU/SIP/LIMA/2013-WP/15

Regional Reporting ANRF and Dashboard

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Air Navigation Bureau

Air Navigation Reporting Process



- PIRGs are progressing with planning and implementation of ASBUs
- The next step calls for an air navigation performance measurement, monitoring and reporting strategy.
- Methodology for reporting
 - States to send data to RO through Air Navigation Report Form (ANRF) or equivalent form/on ongoing basis
 - RO will consolidate data from all States and publish through Regional Performance Dashboard /on ongoing basis
 - HQ will consolidate data from all ROs and publish Global Air Navigation Report/annually

Air Navigation Reporting

What is ANRF?



- The current Performance Framework Form (PFF) has been redesigned and aligned with ASBU framework and called the Air Navigation Report Form (ANRF)
- ANRF will be the basis for performance reporting of the ASBU implementation
- The ANRF templates for all the 18 Modules of ASBU Block 0 will be available in the upcoming Regional eANP.

PFF re-designated as ANRF



REGIONAL/NATIONAL PERFORMANCE OBJECTIVE – B0-CDO: Improved Flexibility and Efficiency in Descent Profiles (CDO) Performance Improvement Area 4: Efficient Flight Path – Through Trajectory-based Operations

ASBU B0-CDO: Impact on Main Key Performance Areas (KPA)

	Access & Equity	Capacity	Efficiency	Environment	Safety
Applicable	N	N	Y	Y	Y

ASBUB0- CDO: Implementation Progress

Elements	Implementation Status (Ground and Air)
1. CDO	
2. PBN STARs	

ASBU B0-CDO: Implementation Roadblocks/Issues

Elements	Implementation Area			
	Ground Implementatio n	Air Implementatio n	Procedures Availability	Operational Approvals
1. CDO				
2. PBN STARs				

PFF re-designated as ANRF



ASBU B0-CDO: Performance Monitoring and Measurement (Benefits)

Key Performance Areas	Performance Metrics
Access & Equity	Not applicable
Capacity	Not applicable
Efficiency	Kilograms of fuel saved per flight
Environment	Kilograms of CO ₂ emissions reduced per flight (= KGs fuel saved per flight x 3.157)
Safety	Number of controlled flight into terrain (CFIT) incidents/accidents

ASBU B0-CDO: Performance Monitoring and Measurement (Implementation)

Elements	Implementation Indicators/Metrics
1. CDO	Percentage of international aerodromes/TMAs with CDO implemented
2. PBN STARs	Percentage of international aerodromes/TMAs with PBN STARs implemented

Regional Reporting

Regional Performance Dashboard



- Transparency and sharing of information are fundamental to a safe and efficient global air transportation system.
- Consistent with this principle, the Organization is introducing “Regional ‘Performance Dashboard’” - the homepages for every public website of the ICAO Regional Offices.
- These dashboards will illustrate the regional implementation status relating to the strategic objectives on Safety, Air Navigation Capacity and Efficiency, and Environmental Protection.

Regional Performance Dashboard Definition



- The Dashboard will show targeted performance at the regional level and will, initially, contain graphics and maps with a planned expansion to include the Aviation System Block upgrades (ASBU) Block 0 Modules.
- This new interactive online system will be in place in January 2014 and will be updated at regular intervals.
- Dashboard will be user friendly and able to deliver the message at glance.

Regional Performance Dashboard

Proposed Format – Home page of ICAO RO website



GENERAL FORMAT

Regional Directors responsible for the **selected UN Region**

For Safety:
Effective Implementation

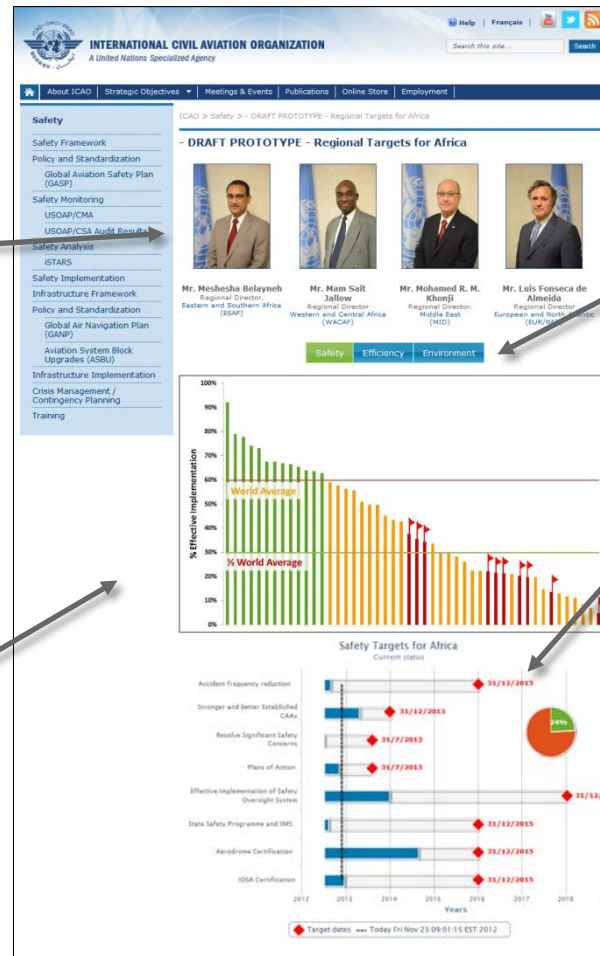
(No State names)

For Efficiency:
Air Navigation Implementation

(by State)

For Environment:
Fuel savings and CO2 reduction

(by State)



Regional Performance by **Strategic Objective**

Regional Performance Indicators

Message:

*Provide the status of **Safety, Efficiency, and Environment** for the Region*

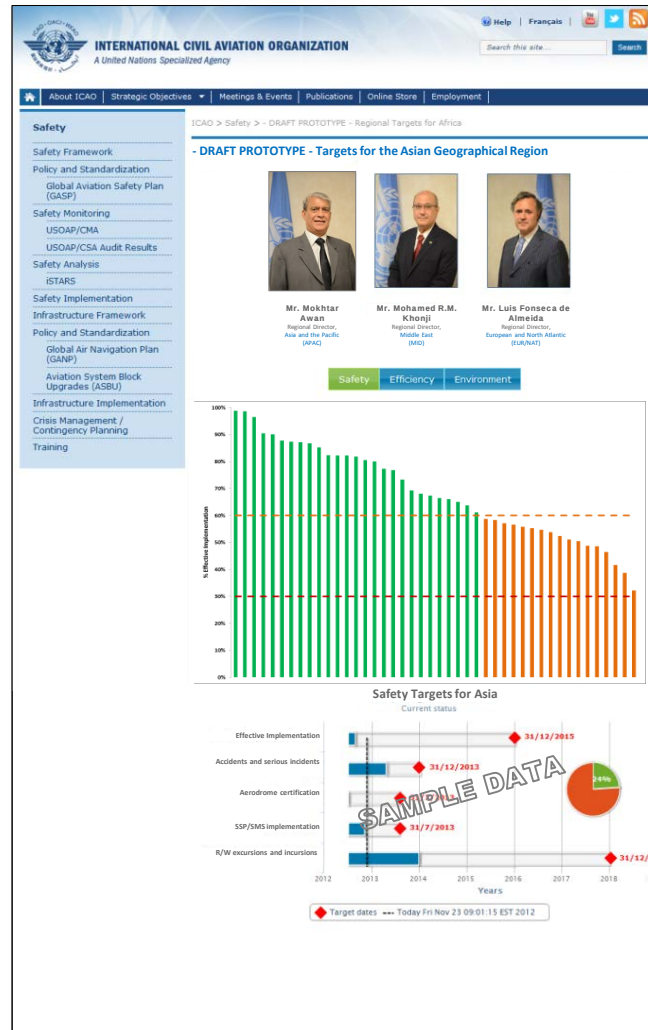
Regional Performance Dashboard Indicators/metrics for Safety



SAFETY

Metrics

- 1. Safety Oversight**
Effective Implementation by State
- 2. Accidents and serious incidents**
Number of accidents per million departures
- 3. Runway Excursions and Incursions**
Runway excursion and incursion accidents as a percentage of all accidents
- 4. Aerodrome certification**
Number of certified international aerodromes
- 5. SSP/SMS Implementation**
Implement Phase 1 of State Safety Programmes (SSP) and ensure that all Service Providers implement a Safety Management System (SMS)



Regional Performance Dashboard Indicators/metrics for Air Navigation



AIR NAVIGATION

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



Regional Performance Dashboard

Roll-out plan



- **Step 1: identify a set of indicators for safety, efficiency and environment**
 - Initial set of indicators was agreed by PIRG-RASG Chairs in a coordination meeting held in Montreal on 19 March 2013.
- **Step 2: Seek endorsement from the 38th Session of ICAO Assembly in September 2013**
- **Launch initial version of the Dashboard in January 2014**



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