INTERNATIONAL CIVIL AVIATION ORGANIZATION
A United Nations Specialized Agency

ASBU/SIP/MEXICO/2013-WP/14

Regional Reporting ANRF and Dashboard

H. Sudarshan
Air Navigation Bureau

The Safety and AN *System*

A Better Way for the Future?

GLOBAL PLANS

Outlines Global Priorities and Targets

Reviewed by ANC; Approved by Council
Endorsed by Assembly

Feedback loop for continuous improvement

GLOBAL PERFORMANCE REPORTS

Reporting against Global Priorities

Global Reports (online) Annually
Special Version (print) for Assembly

PIRG-RASG *agreed to establish by certain dates:*

Safety
(As soon as possible)

Air Navigation
(May 2014)

REGIONAL PERFORMANCE DASHBOARDS

Adopts Global Priorities, sets additional as needed
Used by PIRGs and RASGs to Measure Performance

Regional Office Updates Dashboard (online) semiannually

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 Implementation	**Air Implementation**	**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 August 2013 for AFI region and March 2014 for the remaining regions 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:

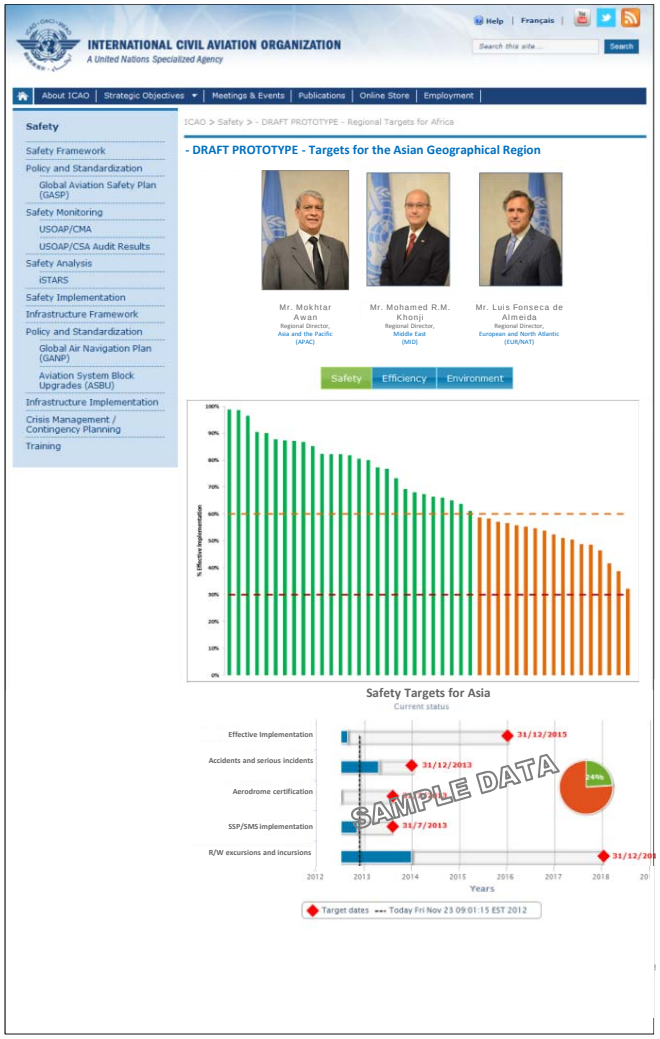
*Provide the status of **Safety**, **Efficiency**, and **Environment** for the Region*

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/airspaces
3. **CDO**
   % of international aerodromes/TMAs with CDO
4. **CCO**
   % of international aerodromes/TMAs with CCO
5. **Estimated Fuel Savings/ C02 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 August 2013 for AFI region and March 2014 for the remaining regions**

North American Central American and Caribbean (NACC) Office MexicoCity
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