



INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

DP-2

Agenda Item 2: Follow-up on APIRG/19 Conclusion/Decision relevant to AIM and review of the revised structure and new working methods of the APIRG endorsed by the Extraordinary meeting of APIRG held in Lusaka, Zambia.

GEORGE BALDEH
REGIONAL OFFICER
AIM

Conclusions/Decisions No. Strategic Objectives	Title of Conclusions/Decisions	Text of Conclusions/Decisions	Follow-up action by the Secretariat	To be initiated by	Deliverable/ Intended Outcome	Target Dates for follow up action by the Secretariat	Status of follow up action by the Secretariat
19/40	REGIONAL AND STATE PLANNING AND IMPLEMENTATION OF THE TRANSITION FROM AIS TO AIM	<p>a) The region Develop performance goals for the transition from AIS to AIM in the AFI region in line with the AFI roadmap from AIS to AIM and Aviation System Block Upgrades methodology</p> <p>b) The region and states identify achievable milestones in relation to the transition roadmap phase 1, 2 and 3</p> <p>c) The region and states develop and implement progress reporting structures, processes and frequency in terms of the transition roadmap phase 1, 2 and 3</p> <p>d) States develop and action implementation plans addressing the transition from AIS to AIM in line with the AFI AIS to AIM transition roadmap phases 1, 2 and 3 as well as aviation system block upgrades.</p> <p>e) States to review and amend as required the AIS/AIM training programmes to encompass the required skills, competences and knowledge to transition from AIS to AIM in line with the AFI AIS to AIM transition roadmap</p>		ICAO Secretariat and AFI States			On-going
					Project title (Insert, Header & Footer)		Page 2



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Planning and Implementation Regional Groups (PIRGs)

Working methods of the
APIRG

Outline



- PIRGs objectives and composition
- HQ-Regional work programme integration
- PIRGs deliverables
- Air Navigation Implementation Reporting
 - Present and new approach
- Winds of change
 - How ASBU impacts Regional work programme
- Conclusions

PIRGs - Objectives



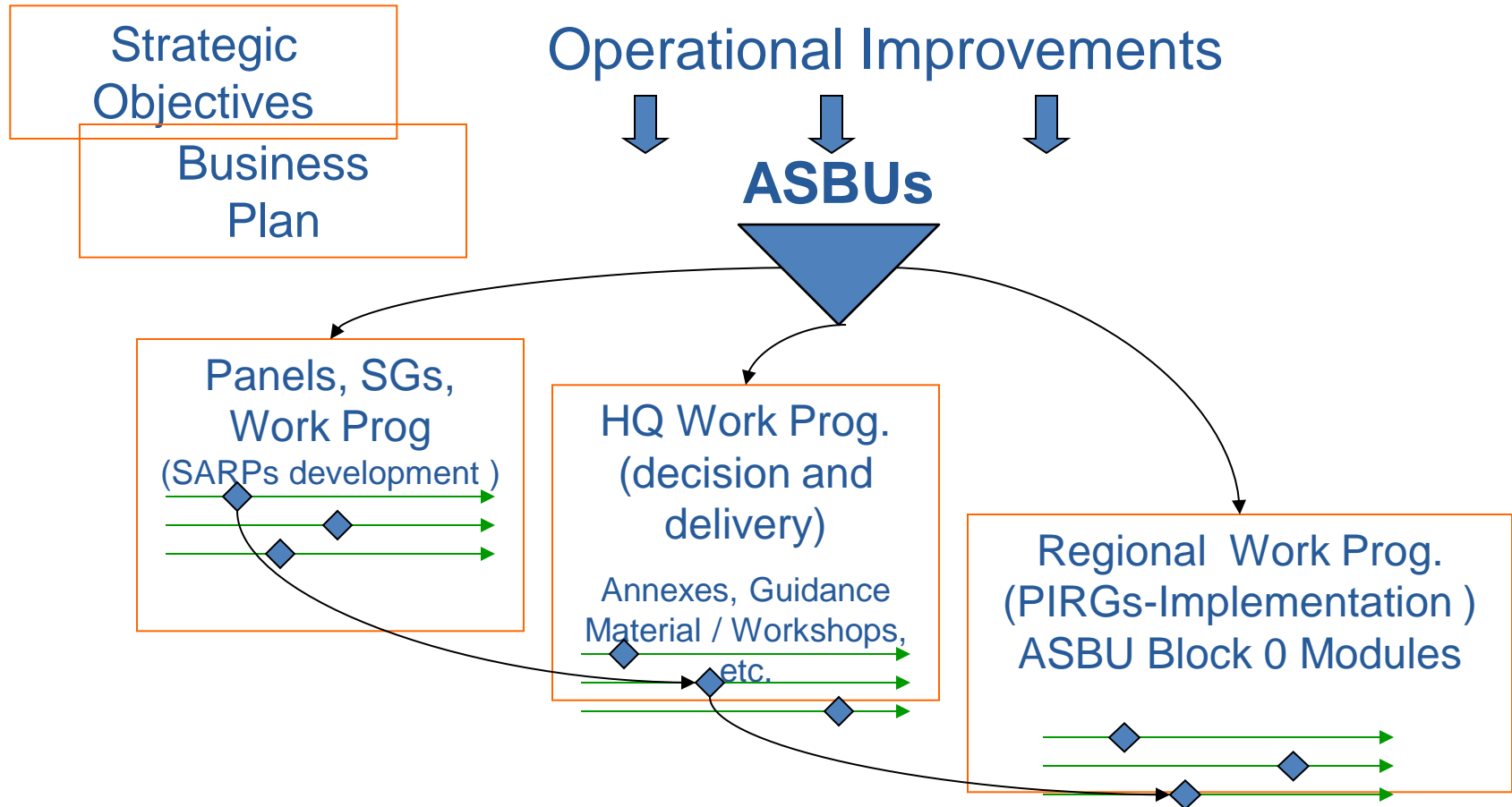
- PIRGs were established by the Council
- PIRG Objectives:
 - Develop, amend and maintain the relevant regional air navigation plans (ANPs) and support States in their implementation
 - Review air navigation deficiencies and assist States in addressing them

PIRGs - Composition



Element	PLANNING GROUP					
	APANPIRG	APIRG	GREPECAS	NAT SPG	EANPG	MIDANPIRG
Establishment	26 June 1991	23 June 1981	20 June 1990	15 April 1965	30 Mar 1972	19 Nov 1993
Meetings held to date		18 meetings				
Membership – Number of States		57 States				
Last meeting held		APIRG/19, Dakar, Senegal, 28-31 October 2013				
Languages	English	English & French	English & Spanish	English	English & Russian	English

Integration of HQ & Regional Work Programmes for ASBUs



PIRG Deliverables: 1

ASBU B0-65: Optimization of Approach Procedures Including Vertical Guidance



Elements:

1. APV with Baro VNAV
2. APV with SBAS
3. APV with GBAS

Implementation Monitoring – Performance Indicator

1. Percentage of international aerodromes having instrument runways provided with APV

Regional Implementation status

<u>APANPIRG</u>	<u>APIRG</u>	<u>EANPG</u>	<u>GREPECAS</u>	<u>MIDANPIRG</u>	<u>NAT SPG</u>
	<ol style="list-style-type: none">1. 32 aerodromes with LNAV2. 42% of aerodromes with APV (baro-VNAV) in 23 States				

PIRG Deliverables: 2

ASBU B0-80: Improved Airport Operations through Airport-CDM



Elements:

1. Airport –CDM
2. Aerodrome certification, Aerodrome emergency planning, Airport planning and Heliport operations

Implementation Monitoring – Performance Indicator

1. Percentage of international aerodromes with Airport-CDM
2. Percentage of certified international aerodromes

Regional Implementation status

APAN-PIRG

APIRG

1. TBD
2. TBD

EANPG

GREPECAS

MIDANPIRG

NAT SPG

PIRG Deliverables: 3

ASBU B0-25: Increased Interoperability, Efficiency and Capacity through Ground Integration



Elements:

1. AIDC
2. AMHS/IPS

Implementation Monitoring – Performance Indicator

1. Percentage of ATS units with AIDC
2. States implementing AMHS/IPS

Regional Implementation status

<u>APANPIRG</u>	<u>APIRG</u>	<u>EANPG</u>	<u>GREPECAS</u>	<u>MIDANPIRG</u>	<u>NAT SPG</u>
	1. 5 States with OLDI at EUR/AFI interface 11 States implementing AIDC in 2013 2. 23 States have IPS capable AMHS				

PIRG Deliverables: 4

ASBU B0-30/DATM: Service Improvement through Digital Aeronautical Information Management



Elements:

1. AIXM; 2. eAIP
3. Digital NOTAM
4. WGS-84; 5. eTOD; and
6. QMS for AIM

Implementation Monitoring – Performance Indicator

1. States implementing AIXM; 2.eAIP, 3.Digital NOTAM, 4.WGS-84; 5.eTOD; 6.QMS for AIM

Regional Implementation status

APANPIRG

APIRG

EANPG

GREPECAS

MIDANPIRG

NAT SPG

- 1.5
2. **30+** States
3. TBD
4. 53 States
5. TBD
6. TBD (at least **27** States)

PIRG Deliverables: 5

ASBU B0-105: Meteorological information supporting enhanced operational efficiency and safety



Elements:

1. WAFS-IAVW-TCW
2. Aerodrome warning, wind shear warning and alerts
3. SIGMET information

Implementation Monitoring – Performance Indicator

1. States implementation of SADIS 2G satellite broadcast and/or Secure SADIS FTP service.
2. States implementation of WAFS Internet File Service (WIFS)

Regional Implementation status

<u>APANPIRG</u>	<u>APIRG</u>	<u>EANPG</u>	<u>GREPECAS</u>	<u>MIDANPIRG</u>	<u>NAT SPG</u>
	<ol style="list-style-type: none"> 1. 41 States 2. 36 States 				

PIRG Deliverables: 6

ASBU B0-10: Improved Operations through Enhanced En-Route Trajectories



Elements:

1. Airspace planning
2. Flexible Use of airspace
3. Flexible Routing

Implementation Monitoring – Performance Indicator

1. Percentage of time segregated airspaces are available for civil operations in the State
2. Percentage of PBN routes (RNAV/RNP) implemented

Regional Implementation status

<u>APANPIRG</u>	<u>APIRG</u>	<u>EANPG</u>	<u>GREPECAS</u>	<u>MIDANPIRG</u>	<u>NAT SPG</u>
	1. TBD (90% in 17 States) 2. 114 PBN routes implemented in the upper airspace				

PIRG Deliverables: 7

B0-35: Improved Flow Performance through Planning based on a Network-Wide view



Elements:

1. Air Traffic Flow Management

Implementation Monitoring – Performance Indicator

1. Percentage of ATS units using ATFM services.

Regional Implementation status

<u>APANPIRG</u>	<u>APIRG</u>	<u>EANPG</u>	<u>GREPECAS</u>	<u>MIDANPIRG</u>	<u>NAT SPG</u>
	1. TBD (ATFM applied in at least 1 FIR) Indicator's suitability to be assessed by APIRG.				

PIRG Deliverables: 8

ASBU B0-84: Initial capability for ground surveillance



Elements:

1. ADS-B
2. Multilateration

Implementation Monitoring – Performance Indicator

1. Percentage of international aerodromes with ADS-B/MLAT

Regional Implementation status

<u>APANPIRG</u>	<u>APIRG</u>	<u>EANPG</u>	<u>GREPECAS</u>	<u>MIDANPIRG</u>	<u>NAT SPG</u>
	1. TBD (Trials in progress in at least 4 States)				

PIRG Deliverables: 9

ASBU B0-05: Improved Flexibility and Efficiency in Descent Profiles (CDO)



Elements:

- 1. CDO
- 2. PBN STARs

Implementation Monitoring – Performance Indicator

- 1. Percentage of international aerodromes with CDO.
- 2. Percentage of international aerodromes with PBN STARs

Regional Implementation status

<u>APANPIRG</u>	<u>APIRG</u>	<u>EANPG</u>	<u>GREPECAS</u>	<u>MIDANPIRG</u>	<u>NAT SPG</u>
	<ul style="list-style-type: none">1. 2 States are implementing CDO2. 66 aerodromes with PBN STARs				

PIRG Deliverables: 10

ASBU B0-20: Improved Flexibility and Efficiency in Departure Profiles (CCO)



<u>Elements:</u>	<u>Implementation Monitoring – Performance Indicator</u>
1. CCO	1. Percentage of international aerodromes with CCO
2. PBN SIDs	2. Percentage of international aerodromes with PBN SIDs

Regional Implementation status

<u>APANPIRG</u>	<u>APIRG</u>	<u>EANPG</u>	<u>GREPECAS</u>	<u>MIDANPIRG</u>	<u>NAT SPG</u>
	1. TBD				
	2.44 aerodromes with PBN SIDs				

Air Navigation Implementation Status Reporting- Present approach



- Every February of the year a consolidated annual report of PIRGs as well as ANS implementation status covering the previous year is presented to the ANC/Council
- The report consists of qualitative and quantitative information and covers key areas of Air Navigation Systems

Next Steps: A Global Air Navigation Report



Why?

- Effective 2014, on annual basis, a Global Air Navigation Report will be released (See IP to DP-2)
 - The spirit of such a global review is to assist in understanding which areas requires special attention
 - This review also provides an opportunity for world civil aviation community to compare the progress across different ICAO regions in the establishment of air navigation infrastructure

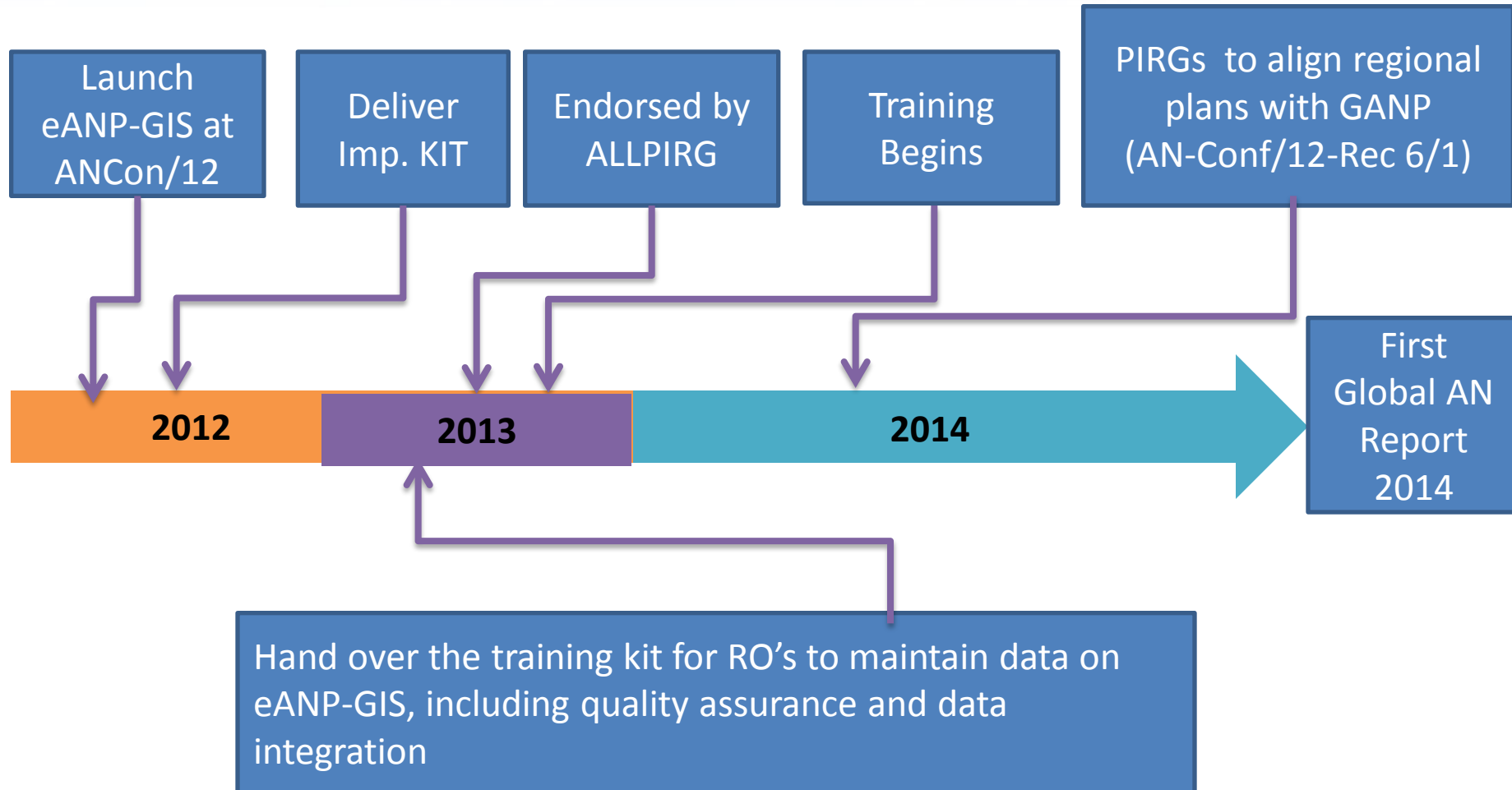
Next Steps: A Global Air Navigation Report



How?

- States to focus on the gathering information related to the highest priorities first, which are: PBN, CDO CCO
- States may use IFSET to calculate the fuel/CO₂ saved for any of the operational improvements
- ICAO Regional office will be provided with its own regional GIS webpage
- ICAO Regional office to coordinate data input from States for its regional GIS webpage
- The current report is a precursor to forthcoming Global AN Report next year

Next Steps: A Global Air Navigation Report When?



Global Air Navigation Report-2014



REPORTS

Attributes

ACTIVITY AIR, ANS, LEG, OPS, PEL

1) STATE Sample State

2) CITIES Sample City

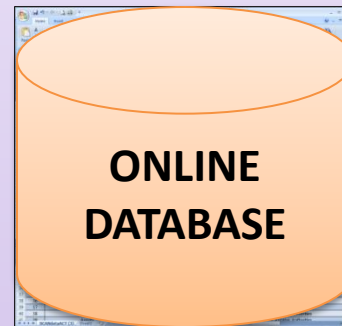
4) PROVIDER Sample Provider

5) FUNDING Sample Funding

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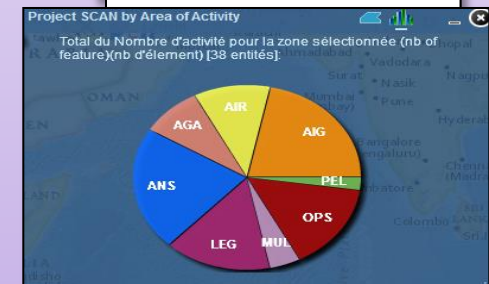
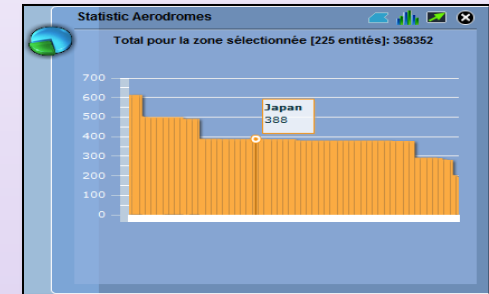
ONLINE

DATA



ONLINE

ANALYSIS



ONLINE

Winds of Change: Impact of ASBUs on regional work programme-PLANNING



- Finalize the alignment of Regional Plans with Global Plan by May 2014 (AN-Conf/12-Recommendation 6/1- refers)
 - Development of Regional eANPs linked to ASBU methodology
- Alignment of PIRG work programme with ASBUs
- Programmes not covered by ASBU framework
 - Map such programmes to nearest ASBU Module or address them separately
- Involvement of regulators in addition to users in PIRG process (AN-Conf/12-Recommendation 6/1- refers)
 - Commitment through Regional Plans

Winds of Change: Impact of ASBUs on regional work programme-IMPLEMENTATION



- Minimum path
 - Categorize and determine priority for ASBU Block 0 Modules (AN-Conf/12-Recommendation 6/12- refers)
- Training
 - Disseminate iKITS for ASBU Block 0 Modules
 - More training. Support States for developing ASBU National Plans
- Air Navigation Deficiencies
 - Align with ASBUs

Winds of Change: Impact of ASBUs on regional work programme-MONITORING



- Key Performance Indicators /Metrics for ASBUs
 - Determine KPIs/supporting metrics for ASBUs (AN-Conf/12-Recommendation 1/15- refers)
- GIS based reporting for Global AN Report in 2014
 - Reporting mechanism/GIS webpage for Regions/how to collect supporting data for KPIs
- Dashboard reporting through ICAO Regional webpage
 - performance targets/Indicators/Collection of data
- Continuous Monitoring Approach (CMA)
 - CMA mapping to the evaluation of Member States' safety oversight capabilities concerning ASBUs (AN-Conf/12-Recommendation 6/1- refers)

Conclusions



- **Blueprint for Regional Planning**
 - The planning groups of ASIA/PAC, AFI, CAR/SAM, NAT, EUR and MID will need to align current regional plans/projects/work programmes with the Global Air Navigation Plan and ASBUs leading to a seamless global air navigation system
- **Working in harmony**
 - Coordination between PIRGs and RASGs to ensure synergies between GANP and GASP is need to be addressed- Planned for joint meeting in March 2013

Action by the Meeting



- Action by the meeting :
- The Meeting is invited to :
 - Follow-up on APIRG/19 Conclusion/Decision relevant to AIM and note the new working methods of the APIRG

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