ASBU/SIP/MEXICO/2013-WP/4

ANConf/12- Outcome and Follow-up

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Air Navigation Bureau

12th Air Navigation Conference





• <u>10</u> Days

• <u>1,030</u> Participants

 232 Conference Recommendations • <u>120</u> States

• 153 Working Papers (WP)

30 InternationalOrganizations

62 Information Papers (IP)

• <u>25</u>+

Media Articles

12th Air Navigation Conference Summary of Discussions





- Common understanding for future air navigation system
- Harmonization of ATM modernization
- Formalize future of infrastructure & equipage
- Endorsement of revised ICAO Global
 Air Navigation Plan (GANP)
- Agreement of Aviation System Block Upgrades (ASBU)



AN-Conf/12 : Outcomes Item 1 Strategic Issues in Support of One Sky

- Revised draft Fourth Edition of the Global Air Navigation Plan (Doc 9750, GANP)
- Associated technology roadmaps



AN-Conf/12 : Outcomes Item 2: Improving Airport Performance





- Conference supported module on:
 - Integration of arrival/departure/surface management
 - Increasing use of PBN and GBAS based instrument procedures
 - Optimized management of wake turbulence separation
 - Enhanced surface surveillance
 - Airport collaborative decision-making

AN-Conf/12 : Outcomes Item 3: Interoperability & Data – SWIM



- Conference supported module on:
 - Application of SWIM
 - FF-ICE
 - Integration of aeronautical and ATM information



AN-Conf/12 : Outcomes Item 4: Optimum Capacity & Efficiency



- Conference supported module on:
 - Network Operations
 - Airborne separation
 - Airborne collision avoidance systems & ground-based safety nets
 - The integration of remotely piloted aircraft into non-segregated airspace
 - Meteorological information supporting enhanced operational safety and efficiency

AN-Conf/12 : Outcomes Item 5: Efficient Flight Paths – through TBO

- Conference supported module on:
 - Improved flexibility and efficiency in descent profiles
 - Improved flexibility and efficiency in climb profiles
 - Data link surveillance and communications supporting TBO
 - TBO– 4D TRAD



AN-Conf/12 : Outcomes *Item 6: Future Direction*



Conference recommendations on:

- Way forward in implementing updated GANP by PIRGs and States
- Development of Regional eANP
- In human performance context, determined where there may be need for global standardization or future emphasis
- Multi-party approaches to standards development that take advantage of coordination and collaboration within the ICAO/State relationship, and between ICAO and so bodies

The Big Picture

12th Air Navigation Conference



Important Developments

- 4 ICAO Milestones
 - Global Air Navigation Plan (GANP)
 - 2012 Safety Report
 - ASBU Block 0 iKit
 - Air Operator Certificates (AOC) iKIT



ICAO-FSF MoC	Singapore- MITRE MoU	Singapore- Airbus Prosky MoC	ASECNA - France AFI FPP
Singapore-FAA Sol	Singapore- SESAR JU MoC	India - MITRE MoU	ASECNA,ICAO, Thales, INEO



Next Steps



Environmental & Operational Assessments

- Committee on Aviation Environmental Protection (CAEP)
 modeling environmental benefits of
 ASBU Block 0 modules. More information by the end of
 2013
- IATA assessing the operational benefits

Technical Work

- Air Navigation Information Management
 (IM) Divisional Meeting (2015)
- Aviation Data Link Symposium:
 Now and Tomorrow (2015)



Next Steps



Operational Policies

 Incentives to allow early benefits of new technologies and procedures (including economic incentives)



- Reviewed by the
 Air Transport Conference (AT Conf/6) held in March 2013
- Task assigned to service providers, operators and economists



Next Steps: Advanced ATM Symposium

Today's Opportunities for Saving Fuel and Reducing Emissions



4-6 November 2013, ICAO Headquarters, Montréal

Focus on

- Measurable improvements
- Fuel savings & reducing emissions
- Global efficiency
- Cost effectiveness

Next Steps: Advanced ATM Symposium

Today's Opportunities for Saving Fuel and Reducing Emissions



- 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)

Next Steps: BUDDS





- An end-to-end system demonstration of new air traffic management concepts
- States and Industry are invited to play a part in this event by showing their latest developments and best practices in the field of air traffic management

Planned in 2014

Next Steps: BUDDS





Intended Outcomes

- International exposure to potential systems and technologies to support Block 0 implementation
- Identification of: Business case benefits of implementing Block 0 and Economic opportunity cost of not implementing Block 0
- Reinforcement of Block 0 implementation strategies (ASBU iKITS)
- Agreed concept of Operations (CONOPS) for Block 1 to enable the appropriate standards and procedures to be developed

Demonstration of intended performance scenarios for Blocks 1, 2 and 3

Next Steps



AN-CONF/12 Recommendation: 6.12

- Development of SARPs, procedures and guidance material
 - a) Improve its project management and coordination of contributing ICAO panels, study groups and other groups tasked with the development of ICAO provisions

Next Steps by PIRGs and States



Recommendation 6/1 – Regional performance framework – planning methodologies and tools

That States and PIRGs:

- a) finalize the alignment of regional air navigation plans with the Fourth Edition of the *Global Air Navigation Plan* (Doc 9750, GANP) by May 2014;
- b) focus on implementing aviation system block upgrade Block 0 Modules according to their operational needs, recognizing that these modules are ready for deployment;

Next Steps by PIRGs and States



Recommendation 6/1 – Regional performance framework – planning methodologies and tools

That States and PIRGs:

- c) use the eANPs as the primary tool to assist in the implementation of the agreed regional planning framework for air navigation services and facilities;
- d) involve regulatory and industry personnel during all stages of planning and implementation of aviation system block upgrade modules;
- e) develop action plans to address the identified impediments to air traffic management modernization as part of aviation system block upgrade planning and implementation activities;

AN-Conf/12: Follow-up action



Follow-up by PIRGs

 Every PIRG meeting in 2013 will be presented with an action plan to implement relevant Recommendations

Follow-up by States

 A State letter by the SG will be issued in May 2013 with an action plan to implement relevant Recommendations

Follow-up by Secretariat

 The ANC will be reviewing and allocating in May 2013 the relevant Recommendations to Expert Groups or the Secretariat for developing SARPs and guidance material



