

# Outcomes of the Fourteenth Air Navigation Conference (AN-Conf/14)

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APANPIRG/35 Meeting

**Martin Maurino M.Eng.**

Technical Officer, Global Aviation Safety

Air Navigation Bureau

International Civil Aviation Organization

## — AN-Conf/14 Overview

- Held in Montréal, 26 August - 6 September 2024
- 871 representatives
  - 110 Member States & 28 IOs
- Four agenda items under one Committee
- 205 papers were submitted to AN-Conf/14
- 22 recommendations were approved
  - 104 actions >> 45 to States & 59 to ICAO
  - Council & ANC to review >> decisions still pending



## — AN-Conf/14 Agenda

### **Agenda Item 1**

ICAO BP & long-term  
strategic planning

### **Agenda Item 2**

Timely & safe use of  
new technologies

### **Agenda Item 3**

AN system  
performance  
improvement

### **Agenda Item 4**

Hyper-connectivity of  
AN system

## — AN-Conf/14 Actions to PIRG & RASG

- Series of actions addressed specifically to PIRGs and RASGs
  - for implementation
  - knowing some actions to States might require regional collaboration
  - and could be as well be part of work of regional groups
- PIRGs & RASGs will be required to report on progress
  - for following actions
  - as part of future meetings' outcomes



## — AN-Conf/14 Recommendations AI 1

- RECs address:
  - ICAO's programmatic business planning approach
  - Resilience of AN system
  - Enhanced alignment of GASP & GANP
  - Evolution of ICAO Assembly Technical Commission
- Ensure collective efforts are strategically focused
  - and effectively coordinated



## — AN-Conf/14 Actions to PIRG & RASG

- Recommendation 1.1/1 – Support to ICAO’s programmatic business planning approach initiated by BP 2023-2025 priority focus areas
- ICAO through PIRGs & RASGs
  - incorporate initiatives into work programmes & projects
  - taking into account alignment with ICAO PFAs
  - in accordance with GASP & GANP + regional plans
- Recommendation 1.1/2 – Resilience of the air navigation system
- ICAO develop global guidance on ATM contingency management
  - to support implementation of Annex 11
  - including recovery phase + regional frameworks
  - together with States & industry

## — AN-Conf/14 Recommendations AI 2

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- RECs address:
  - Evolving aircraft technologies contributing to LTAG
  - Safety risks related to new & evolving technologies & concepts
  - GNSS interference & contingency planning
  - Draft 2026-2028 edition of GASP
  - Turbulence encounters as global operational safety risk



## — AN-Conf/14 Recommendations AI 2

- Agreement on need for harmonized regulatory frameworks to manage emerging technologies
  - such as electric and hybrid propulsion
  - use of regulatory sandboxes was recommended
    - to gather real-world data & enhance awareness of new technologies
- Emphasis on need to address growing threat of GNSS interference
  - improved pilot guidance
  - enhanced information sharing
  - development of more resilient aircraft systems
- Necessity of global contingency plan to manage GNSS outages & continued safe navigation

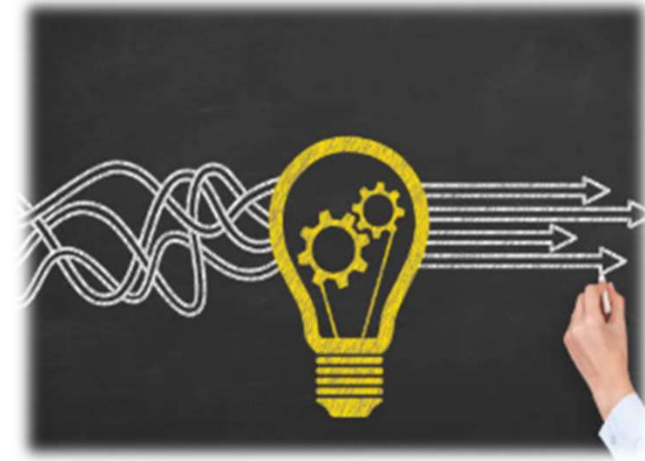


## — AN-Conf/14 Actions to PIRG & RASG

- Recommendation 2.2/1 – Addressing safety risks related to new and evolving aviation technologies and concepts
- States develop harmonized regional regulatory frameworks & interoperable systems
  - to ensure effective integration of UAS, where appropriate
  - through appropriate regional mechanisms
- Recommendation 2.2/2 – Addressing GNSS interference & contingency planning
- States develop regional GNSS reporting mechanisms > via PIRGs
  - to raise ops awareness of affected geographical areas
  - as described in GNSS Manual (Doc 9849)

## — AN-Conf/14 Recommendations AI 3

- RECs address:
  - Airspace optimization, airspace classification and delegation
  - Trajectory-based operations
  - Space transport operations, higher airspace operations
  - Phasing out and/or optimizing use of legacy systems
  - Cessation of ICAO 2012 flight plan by 2034
  - Draft 8<sup>th</sup> edition of GANP



## — AN-Conf/14 Recommendations AI 3

- Establishment of frameworks for near-term implementation of procedures
  - such as longitudinal aircraft separation Project 30/10, free route airspace
  - on a wider and more consistent scale
- ICAO explore other min service level procedures in oceanic & remote airspace
- Conduct study into feasibility of AN efficiency audit programme, or other
- Accelerating implementation of TBO enablers
- Target global transition to advanced flight planning mechanism (FF-ICE)
  - by 2034

## — AN-Conf/14 Actions to PIRG & RASG

- Recommendation 3.1/1– Optimized implementation of longitudinal separation minima
- States actively collaborate with neighbouring States to implement Project 30/10
  - >> implementation of longitudinal separations of 55.5 km (30 NM) or less in oceanic and remote airspace, and 19 km (10 NM) or less elsewhere
  - within processes of PIRGs
- ICAO develop regional action plans for implementation of Project 30/10
  - through PIRGs

## — AN-Conf/14 Actions to PIRG & RASG (2)

- Recommendation 3.2/2 – Transition to FF-ICE services & cessation of ICAO 2012 flight plan by 2034
- States + PIRGs consider establishing regional focus groups for coordinating planning and implementation of FF-ICE services
  - and providing necessary support throughout transition period
- States help develop regional plan to transition to FF-ICE services
  - on basis of 2034 global cessation of ICAO 2012 flight plan
  - through work of PIRGs
- ICAO guide & support development of regional plans to transition to FF-ICE
  - through work of PIRGs

## — AN-Conf/14 Recommendations AI 4

- RECs address:
  - validation, standardization and implementation of connected aircraft concept and air-ground connectivity strategy
  - aviation cybersecurity
- Course of actions for States & ICAO to enable hyper-connectivity
  - of AN system



## — AN-Conf/14 Actions to PIRG & RASG

- Recommendation 4.2/1 – Aviation cybersecurity
- States to align aviation cybersecurity activities in RASP, R-ANP + security and facilitation plans
  - through coordination processes
  - of PIRGs, RASGs, + regional aviation security and facilitation groups
- States to report to ICAO their experience in implementing ICAO provisions & guidance material related to aviation cybersecurity
  - through appropriate expert group(s) or
  - of PIRGs, RASGs, + regional aviation security and facilitation groups

## — Next Steps

- Council to review of report of AN-Conf/14 (through ANC)
  - formalize outcomes of AN-Conf/14
- ICAO 2026-2028 Business Plan & regular programme budget proposals
  - incorporate outcomes and prioritization of AN-Conf/14 RECs
  - subject to Council's decision
- Finalize next GASP & GANP
  - based on AN-Conf/14 RECs
- Conduct an after-action review
  - future improvements + optimizing ICAO workforce
- Ensure AN-Conf/14 outcomes are effectively integrated into ICAO's work





## — Meeting is invited to:

- Consider AN-Conf/14 outcomes & RECs
  - to revise work programme
  - of APANPIRG and RASG-APAC accordingly
- Agree on appropriate actions to implement actions addressed to PIRGs & RASGs
  - including necessary development of transition & implementation regional plans
  - for some of topics and projects



Thank You

