



ICAO

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North American, Central American and Caribbean Office
WORKING PAPER

AO/TF/5/ATFM/TF/7/CIIFRA/9 — WP/04

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**Fifth Meeting of the North American, Central American and Caribbean Working Group (NACC/WG)
Airspace Optimization Task Force, Seventh Meeting of the Air Traffic Flow Management
Implementation Task Force and Ninth Meeting of the CANSO IATA ICAO Free Route Airspace Team
(AO/TF/5/ATFM/TF/7/CIIFRA/9)**

Orlando, United States, 03 to 07 March 2025

**Agenda Item 3: ICAO NACC/WG Air Traffic Flow Management Implementation Task Force
(ATFM/TF) Updates**

**ATFM TASK FORCE PROGRESS REPORT: HIGH INTENSITY RUNWAY OPERATIONS (HIRO), NEOSPACE 1,
AND KEY PERFORMANCE INDICATORS (KPIs)**

(Presented by ATFM Task Force Rapporteur)

EXECUTIVE SUMMARY	
This report highlights Air Traffic Flow Management (ATFM) achievements, including High-Intensity Runway Operations (HIRO), Project NeoSpace 1, and progress on KPIs.	
Action:	Acknowledge the progress and approve next steps for ATFM initiatives.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
<i>References:</i>	<ul style="list-style-type: none">• ICAO Doc 9971: Manual on Collaborative Air Traffic Flow Management (ATFM)• GREPECAS NeoSpace Project: Project NeoSpace 1 Progress.• Havana Meeting Summary of Discussions: Decision AO/TF/4/ATFM/TF/6/CIIFRA/8/1.

1. Introduction

- 1.1.1 In response to evolving operational demands and the need for greater efficiency, this working paper outlines the progress made in High-Intensity Runway Operations (HIRO), Project NeoSpace 1, and Key Performance Indicators (KPIs). These efforts are crucial for advancing ATFM within the NAM/CAR Regions.

1.2 The ATFM Task Force has emphasized addressing capacity constraints, implementing innovative solutions, and fostering stakeholder collaboration to enhance regional airspace efficiency and safety. This aligns with ICAO's strategic objectives and the Global Air Navigation Plan (GANP).

1.3 The progress detailed herein highlights the importance of a harmonized approach to ATFM, ensuring alignment with international best practices and fostering sustainable growth within the aviation sector.

2. Analysis

2.1 High-Intensity Runway Operations (HIRO)

2.1.1 HIRO implementation has achieved the following milestones:

- Reduction in average runway occupancy times by 15% at key airports.
- Enhanced coordination among stakeholders, improving capacity utilization.
- Alignment of operational procedures with global best practices to maintain safety.

2.1.2 Despite these successes, challenges remain in expanding HIRO procedures to other high-density airports and ensuring consistent application across the region.

2.2 Project NeoSpace 1

2.2.1 NeoSpace 1 has made substantial progress in optimizing airspace through innovative approaches:

- Pilot projects for trajectory-based operations (TBO) and dynamic airspace management.
- Improved data-sharing protocols among ANSPs for seamless cross-border operations.
- Development of an interoperable airspace framework to support future enhancements.

2.2.2 Key challenges include aligning technical standards and securing broader stakeholder participation to ensure project scalability.

2.3 Key Performance Indicators (KPIs)

2.3.1 The KPI framework has been successfully established, with measurable outcomes:

- On-time performance improved by 12% in monitored sectors.
- Airspace capacity utilization increased by 8% in key corridors.
- Carbon emissions per flight hour reduced by 5%, supporting sustainability goals.

2.3.2 Ongoing efforts focus on refining KPIs, fostering data-sharing agreements, and addressing gaps in data quality and consistency.

2.4 Alignment with Strategic Objectives

2.4.1 These initiatives directly support ICAO's Safety and Air Navigation Capacity and Efficiency objectives, contributing to the achievement of GANP ASBU Block 0 and 1 targets.

2.4.2 Stakeholder collaboration remains critical, as coordinated efforts are necessary to overcome technical and operational challenges.

3. Conclusions and Recommendations

3.1 The following actions are recommended:

- a) expand HIRO procedures to additional high-density airports in coordination with local ANSPs;
- b) leverage NeoSpace 1 phase one results to refine and accelerate phase two planning;
- c) continue refining KPIs and promoting data-sharing agreements to improve performance monitoring and regional benchmarking;
- d) facilitate workshops and training sessions to address gaps in technical knowledge and interoperability; and
- e) prioritize investments in automation and data-sharing infrastructure to support dynamic airspace management.

3.2 These actions will ensure continued progress toward achieving a seamless and efficient ATFM structure across the NAM/CAR Regions.

4. Suggested Actions

4.1 The Meeting is invited to:

- a) review and approve the updates provided in this paper;
- b) endorse the recommendations outlined in Section 3; and
- c) suggest any additional actions necessary to further enhance HIRO, NeoSpace 1, and KPI implementation.