



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

Twenty-Seventh Meeting of the AFI Planning and Implementation Regional Group (APIRG/27)

5 to 6 November 2024

Agenda Item 3: Implementation of air navigation goals, targets and indicators, including the priorities set in the Regional Air Navigation Plan

3.5. Other Air Navigation initiatives

UPDATE ON IMPLEMENTATION PROJECTS IN CABO VERDE

(Presented by ASA - CABO VERDE)

SUMMARY	
<p>This information paper presents the progress of Cabo Verde projects in accordance with the Global Air Navigation Plan (Doc 9750) and Global Safety Initiatives.</p> <p>Action by the Meeting is as per paragraph 3.</p>	
<i>References</i>	<p>Doc 9750, Global Air Navigation Plan</p> <p>Doc 7474, Air Navigation Plan — Africa-Indian Ocean Region</p> <p>Doc 10004 Global Aviation Safety Plan</p>
<i>Strategic Objectives</i>	<p>A – Aviation Safety; B – Air navigation Capacity and Efficiency; E – Environmental Protection.</p>

1. INTRODUCTION

- 1.1. ICAO Global Air Navigation Plan presents all States with a planning tool supporting a harmonized global Air Navigation system. It identifies all potential performance improvements available today and details the next generation of ground and avionics technologies that will be deployed worldwide.
- 1.2. Cabo Verde is committed to the implementation of the Global and Regional Air Navigation mentioned above. ASA developed a master plan in 2019 based on a prioritization of benefits in terms of key performance areas aggregating a concept of operations, strategic initiatives, and key priorities according to the State's needs.
- 1.3. Following the WP presented in APIRG 26 held in Benin last year, the progress of Cabo Verde projects, we will present an update on ATM/CNS infrastructure projects in line with ATM Master Plan.

2. DISCUSSION

2.1. Full implemented:

- 2.1.1. Certification of ATS, CNS, and AIS.
- 2.1.2. Modernization of the ATM system.
- 2.1.3. (PBN) Procedures at all 4 International Airports (CDO and CCO in two of them)
- 2.1.4. Transition from AIM to AIS: Phase 1 and 2 implemented
- 2.1.5. ADS-B Implementation:
 - 2.1.5.1. 4 (four) Terrestrials ADS-B antennas, have been strategically positioned on Sal Island, Santiago Island, and Santo Antão Island,
 - 2.1.5.2. each with a range of approximately 260Nm
 - 2.1.5.3. to cover about 80% of the FIR and approximately 95% of the EUR/SAM ATS routes.
- 2.1.6. AIS dynamic data management (FPL, NOTAM, web-based flight briefing)
- 2.1.7. Transition from AFTN to AMHS completed since June 2024.
- 2.1.8. Elimination of Mach number compensation agreed between GVSC and GOOO that came into force on the 2nd of September 2024.

2.2. Ongoing projects

- 2.2.1. CDO and CCO in other 2 international airports
 - 2.2.1.1. Process of updating published RNP procedures to include CCO and CDO.
- 2.2.2. AIDC implementation GVSC/GOOO
 - 2.2.2.1. Work continues with Dakar to progress AIDC implementation, a pre-implementation operational test was carried out successfully with few issues to be solved.
- 2.2.3. PBCS implementation
 - 2.2.3.1. in line with the regional and subregional implementation plans (AFI PBCS Implementation Plan and SAT PBCS Implementation Plan) to be fully implemented in 2026.
- 2.2.4. ASA is collaborating with STARTICAL on a voice project called ECHOES:
 - 2.2.4.1. It will demonstrate the benefits of introducing direct-controller pilot communication in oceanic airspace via VHF voice and VHF VDL-2 data (with the VHF ground stations being substituted by LEO satellites, but no change to the aircraft avionics), in combination with satellite-based ADS-B
 - 2.2.4.2. Trials to be initiated by May 2025
- 2.2.5. TMA restructuring to accommodate CCO and CDO Concepts.

3. ACTION BY THE MEETING

3.1. The meeting is invited to:

- note the information on the progress of Cabo Verde projects.