



# **8th Global AIM Consortium Meeting**

by

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# Introduction



**I will provide a brief presentation, describing the challenges and achievements of the CAR and SAM Regions States in the AIS/MAP Field**

# SUMMARY



- ❖ **ROADMAP TO AIM**
- ❖ **GREPECAS CONCLUSION 15/28**
- ❖ **QUALITY SYSTEM AT THE AIS SERVICES**
- ❖ **GEOGRAPHIC INFORMATION SYSTEMS (GIS)**
- ❖ **WGS-84**
- ❖ **TERRAIN AND OBSTACLES ELECTRONIC DATA**
- ❖ **CONCLUSIONS**

# ROADMAP TO AIM



- **Three phases of action are envisaged for States to complete the transition to AIM:**
  - **Phase 1 — Consolidation**
  - **Phase 2 — Migration to digital databases**
  - **Phase 3 — Information management**

# CAR/SAM SITUATION



## Actually:

- Phase 1 — Consolidation

## Short Term:

- Phase 2 — Migration to digital databases

# Standards and Recommended Practices (SARPs)



## **GREPECAS CONCLUSION 15/28**

### **PRIORITY IN THE APPLICATION OF MEASURES FOR THE MIGRATION FROM AIS/MAP TO AIM**

- That civil aviation authorities of CAR/SAM States, Territories, and International Organizations assign high priority to the implementation of the Standards and Recommended Practices (SARPs) contained in Annex 4 and Annex 15.

# QUALITY SYSTEM AT THE AIS SERVICES



## **Status:**

- Implemented: 20% of CAR/SAM States
- In process: 80%

## **Tools available:**

AIP Audit Assistant (AAA)

## **Requirements:**

Guidance material → Seminars/Workshops

# QUALITY SYSTEM AT THE AIS SERVICES



## Progress

- CAR/SAM Regional Guidance Material for Quality Assurance Programmes

## Goals (short and medium term)

- Seminars/workshops
- ✓ *Lima, Peru, 20-24 July/09*  
*(Special Implementation Project - SIP)*
- Guidance Material to Develop  
Guide Documents for QMS  
(harmonize ISO 9001)



# GEOGRAPHIC INFORMATION SYSTEMS (GIS)



## **Status:**

60% Implementing

30 % Preparing implementation

10% Without official implementation plans

## **Requirements:**

Personnel / hardware / software /  
Guidance / training / know-how/  
validated data...

# WGS-84 Implementation



## **Status:**

- WGS-84 Data base available
- Geographical coordinates in zone and area control

## **Pending:**

- Harmonized FIR geographical coordinates boundaries
- Aerodromes-heliport coordinates

# WGS-84 Implementation



- **Indispensable for RNAV – RNP (PBN), GNSS and FMS systems implementation which need more accurateness and integrity requirements**

# TERRAIN AND OBSTACLES ELECTRONIC DATA



## **Status:**

- insufficient financial resources assigned
- lack of explanatory guides to implement SARPs

## **Requirements:**

- GREPECAS/Conclusion 15/2 – ICAO consider extension of implementation dates for provisions
  - Areas 1 y 4: 2010
  - Areas 2 y 3: 2013

# TERRAIN AND OBSTACLES ELECTRONIC DATA



## **WHAY??:**

- Inadequate resources
- Lack guidance in Spanish version
- Hard work to collect TOD information for Area 1
- Area 2 /Area 3: big challenge  
(many CAR/SAM airports operating IFR)

# CONCLUSIONS



## **WHAT TO DO??.....a beginning:**

### **Administration issues:**

- AIS/MAP service hierarchized
- Gap analysis - cost/benefit assessment
- Availability of specialized personnel (AIS, cartography, information technology duties, etc)
- Adequate hardware / software availability

# CONCLUSIONS



- Adapt AIS/MAP National regulations for AIM requirements
- ICAO AIS/MAP documentation and national operational manuals available (Spanish version)
- Implement QMS

# CONCLUSIONS



- LOAs among AIS and other ANS and primary information providers
- NOTAM Contingencies Plan
- AIRAC System implementation

<http://www.icao.int/anb/AIM/AIRAC.htm>



# CONCLUSIONS



## Training issues:

- Benchmarking among training institutes

## Mainly:

**Assistance and support of ICAO and Industry**



**THANK YOU!!!**