AIM IMPLEMENTATION

–

IFAIMA'S CONTRIBUTIONS

IFAIMA

IFAIMA

International Federation of Aeronautical Information Management Associations

"The Global voice of AIM"

as a non-partisan and non-profit-making Federation of AIM Associations

Since 2008

Objectives

➢ To promote safety, efficiency and regularity in International Air Navigation;

➢ To assist and advise in the development of AIM, in order to maintain the safe, orderly and expeditious flow of air traffic;

➢ To uphold a high standard of knowledge and professional efficiency amongst AIM personnel;

➢ To protect and safeguard the collective professional interests of AIM personnel;

➢ To make mutual benefit affiliations with other professional organizations;

➢ To strive for a worldwide Federation of AIM Associations.

Composition of IFAIMA

- Executive Board

- Regional Directors

- Member Associations

- Individual Associates

- Corporate Members

IFAIMA Executive Board

President
Fernando Lopes
(Portugal)

Vice-President
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Vice-President
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IFAIMA Regional Directors

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(Kenya)

Michal Pufr
EUR/NAT
(Czech Republic)

Ahmed Allam
MID
(Egypt)

Alexis Amezquita
NACC
(Dominican Republic)

Fernando Cruz
SAM
(Peru)

Felix Anyanwu
WACAF
(Nigeria)

Increasing Global Membership

IFAIMA represents:

1923 Persons resulting from:

34 Member Associations
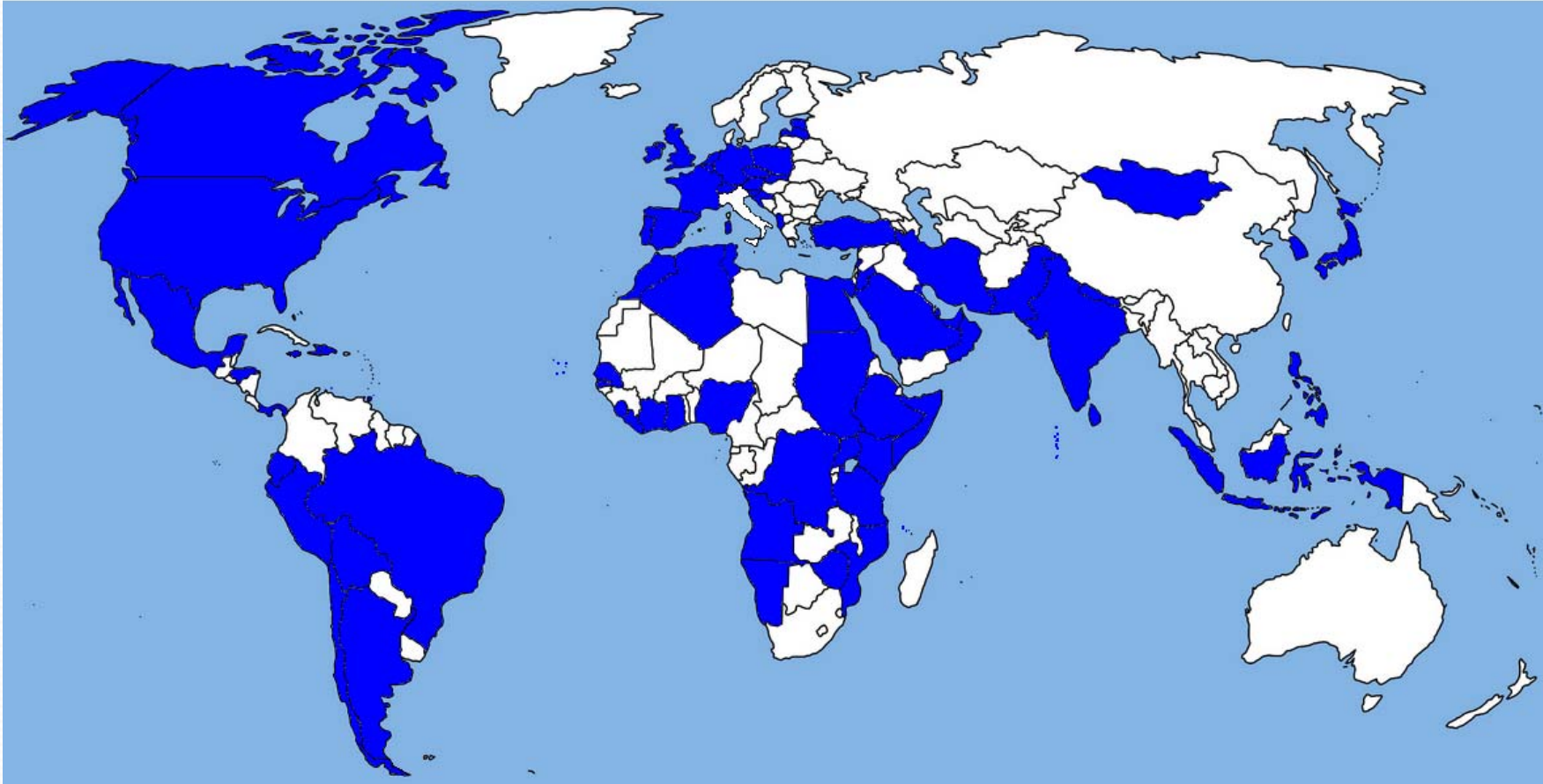
166 Individual Associates

From 79 Countries

+

16 Corporate Members

Corporate Members

IFAIMA IN THE WORLD

IFAIMA

ICAO AIM/SWIM
IFAIMA Activities

GLOBAL AIM

CONCLUSIONS

AND

RECOMMENDATIONS

FROM

GLOBAL AIM 2017

- The **global initiatives**

  - State Letter 2017/22: **new global framework for AIM!**

  - New PANS-AIM: the daily book for AIM practitioners

  - New expanded "AIM" manual coming soon

  - Implementation strategy to address non compliances on aeronautical charts

- The **regional initiatives**

  - Regional guidance publicly available

  - Regional templates to support national AIM implementation plan & roadmap

  - Regional workshops and conferences

  - Centralized resources and regional databases

- **Industry and International organizations** support

  - Intl. organizations providing guidance and tools to support implementation

  - Industry offering the technological means and training to go operational now

No AIS Left Behind
(what we have)

- Several examples of **best practices**…

  - Kenya, Senegal and Nigeria experiences in establishing a reg. framework and oversight

  - Uganda example on steps taken to transition to AIM

  - Kenya example on how to maintain the standards across the chain

  - Belgium integration of civil-military information

  - Czech Republic model for training

  - Technological solutions, experiences and advice shared by the industry and agencies

- **Institutional challenges:**

  - Lack of understanding that multiple and uncoordinated rules can be extremely costly and potentially catastrophic

  - Lack of clear requirements for the stakeholders involved: it increases friction and impacts quality of services

  - Inability of service providers to understand the role of the oversight function in the Civil Aviation Administration;

  - Need for more cooperation between regulators and ANSPs

  - Lack of competent staff/Inadequate training

- ## Service provision challenges:

    - AIM officer not recognized as a profession

    - Risk of working as "amateurs" to this sensitive profession is not realized

    - Need for ICAO specific training programs and more guidance

    - Issues with English language proficiency

    - Provision of raw data to the AIS must be strengthened

    - Digital datasets are still considered immature for implementation

    - Reliable exchange of data between stakeholders is still a challenge

Technological challenges

- ## Technological challenges:

    - AIXM poses challenges in terms of data exchanges due to its verbosity

    - Mapping rules to convert AIXM to the ARINC data formats do not exist

    - It is difficult to make AIXM data available for airborne applications

    - eTOD is hardly used in avionics systems

    - No incremental AIXM updates (UUIDs issues)

    - AIXM is still too permissive; major bilateral coordination is required

RECOMMENDATIONS   Regulatory aspects

- <u>Regulate AIM</u>: To enjoy its benefits: clear guidance for stakeholders, major shift in economic value, more robust and sophisticated use of aeronautical information

- <u>Think different</u>: "AIS" is about the service, "AIM" is about data quality across different domains

- <u>Make the primary legislation effective</u>: Separation between the Regulatory and the Service Provision functions shall be spelt out right from primary legislation

- <u>Encourage Cooperation between CAAs and ANSPs</u> to ensure more effective audits, inspections and follow-ups;

- <u>Make the current regulatory process more "resilient"</u>. To protect from ambiguity potentially coming from the digital environment

AIS to AIM transition... end to end

- AIM Transition Without Strong AIS Foundation is not effective
    - Eliminate the deficiencies in processes & quality issues in your existing products;
    - Understand fully how a "legacy AIS" is provided;
    - Do a complete quality management review of the existing AIS

- Need for a cultural change:

    - If the input is garbage, the output is garbage

    - Communicate, talk, discuss, with your data originators... and then learn how to listen to each other and reach the compromise to meet the common objective

    - Understand that AIS and data originators need each other

- Automation reduces human errors but do plan for fallback procedures: Automation reduces human errors but increases the possibility for machine errors; ensure staff competency and operator proficiency (even in case of machine failure)

- More cooperation among States to share best practices

- We don`t know… yet!

- We need to solve the problem of interoperability asap.

- Need to create more forums for discussion to find a concrete solution

- Need of a joint effort of all stakeholders which include ICAO, International Organizations, Industry and Service Providers

- Encourage discussions to the ICAO Information Management Panel (IMP), that is working on creating the basis for interoperability of data exchange

- Need for an **ICAO AIM working group**

  - *GLOBAL data and information-systems standards?*

  - *GLOBAL standardization and certification (FMS)?*

  - *Leverage existing international standards for data systems?*

  - *Leverage of other information domains examples (WIXXM)?*

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IFAIMA ACTIVITIES

➢ ICAO SAM Multilateral Meetings for the Transition from AIS to AIM (SAM AIM)

➢ ICAO North Atlantic Aeronautical Communications Sub-Group (NAT ACSG)

➢ ICAO European Air Navigation Planning Group (EANPG)

➢ ICAO North Atlantic Systems Planning Group (NAT SPG)

➢ ICAO APAC Aeronautical Information Management Implementation Task Force (AAITF)

➢ ICAO MID Air Navigation Planning and Implementation Regional Group (MIDANPIRG)

➢ ICAO AIS AIMSG

➢ ICAO Information Management Panel (IMP)

➢ Eurocontrol Harmonized VFR Flight Planning Procedures Focus Group – HVFP FG

IFAIMA ACTIVITIES

➢European Aviation Safety Agency RMT.0477 & 0478 Technical requirements and operational
procedures for AIS and AIM
➢European Commission – Expert group on the Social Dimension of the Single European Sky
➢European Commission - Joint Meeting of ATM Partners on Just Culture
➢European Transport Workers' Federation, Air Traffic Management sector (ETF-ATM)

ICAO Recognition, 4th of March 2015

ICAO has added IFAIMA to the list of Organizations
that may be invited to suitable meetings

IFAIMA
OBSERVER

IFAIMA
ACTIVE MEMBER

IFAIMA Inside Activities

IFAIMA Proposals on Training

IFAIMA Proposals on Regulation

IFAIMA Publications (Newsletter)

IFAIMA Training & Consultancy Cooperation

- United ATS: Offers Training and Consulting Services to IFAIMA members at special prices and conditions

- Group EAD: Offers Training and Consulting Services to IFAIMA members at special prices and conditions

- IIES: Offers Training and Consulting Services to IFAIMA members at special prices and conditions

IFAIMA on the Web

IFAIMA Website: www.ifaima.org

LinkedIn Group
http://www.linkedin.com/pub/ifaima-eb/12/b80/62b

E-mail: eb@ifaima.org

Top Organizations

IFAIMA

YOU

Global AIM Santo Domingo 2018

FINALLY.......

The future of aeronautical information management and ultimately SWIM looks good from where we stand…

The challenges of yesterday must be addressed today if we are to reach tomorrow...

We can not AIM if we have not served and we can not SWIM if we can't AIM.

IFAIMA

Thank You

www.ifaima.org
eb@ifaima.org