

 International Civil Aviation Organization

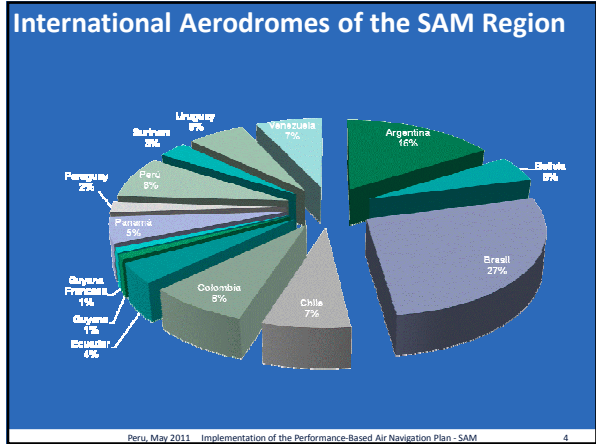
Seminar/Workshop on the Implementation of the Performance Based Air Navigation Plan for the South American Region (SAM-ANIP-PB)

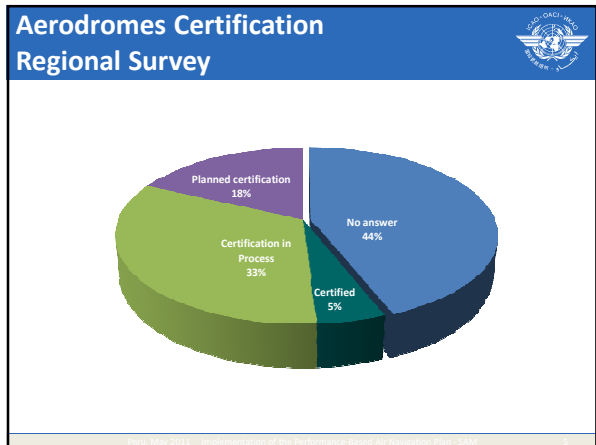
Aerodromes and Ground Aids / Aerodromes Operational Planning (AGA/AOP)

Lima - Peru, 9 to 13 May 2011









- ### Workshop on the aerodrome certification problematic - Conclusions
- States do not update the information contained in the Air Navigation Plan
 - States do not inform about the correction of deficiencies in the GANDD database
 - In many States, aerodrome inspectors and certification inspectors do not count with an adequate training, profiles nor competences have been defined, and the number of available inspectors is not adequate
 - Aerodrome inspectors are not considered as aeronautical personnel in Annex 1, and many inspectors are not considered as international
- Peru, May 2011 - Implementation of the Performance-Based Air Navigation Plan - SAM 6

Workshop on the aerodrome certification problematic - Conclusions

- Amendment 10A to Annex 14 regulates the publication of the status of aerodromes certification in States AIPs
- Legislation referred to aerodromes certification does not reflect reality in many States
- Most of international airports of the Region were constructed more than 40 years ago, before most of ICAO SARPS were written and published
- Many States do not count with clear guidelines for the development of aeronautical studies, how-when-why an aeronautical study should be carried out

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Why airports have not been certified in the Region?

- Lack of certification standards (LAR AGA)
- Lack of trained aerodromes inspectors (GSI)
- Lack of manuals for aerodromes inspectors (MIAGA)
- Global Air Navigation Deficiencies (GANDD)
- Lack of aeronautical studies guidelines

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Latin American Aeronautical Regulations Aerodromes (LAR AGA)

Objective

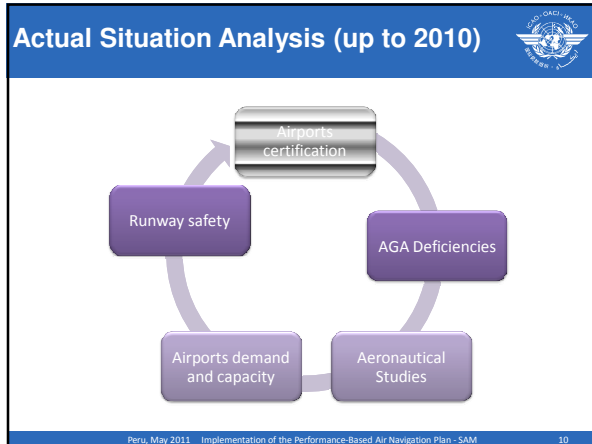
- Availability of uniform baseline in the Region for certification, operation and design of aerodromes;
- Reciprocal recognition of Regional Aerodromes Inspectors among SRVSOP State members

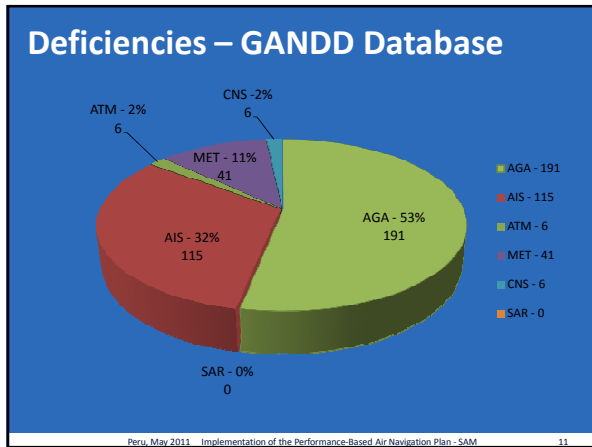
LAR AGA Set

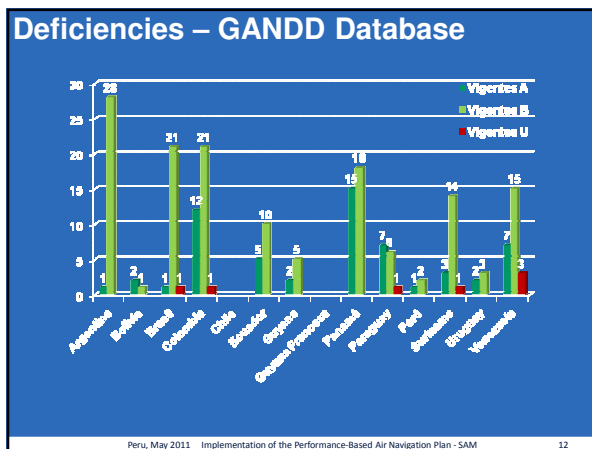
- LAR 139 Requirements for Operators;
- LAR 153 Operations requirements;
- LAR 154 Requirements for Aerodromes design
- Aerodromes Inspector Manual (MIAGA)

Stages

- AGA Experts Panel
- Structure Development;
- First Consultation Round, AGA Experts Panel;
- Text elaboration;
- Second Consultation Round, AGA Experts Panel;
- AGA Experts Panel Meeting (Sept. 2011)
- First Consultation Round, AAC approval
- LAR approval by the General Board (Dec. 2011)





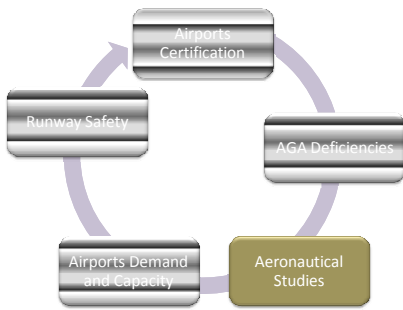


Corrected Deficiencies




- Update GANDD Database
- Propose ANP Amendment
- Request Technical Cooperation Assistance

Actual Situation Analysis (up to 2010)



It is necessary that ICAO publishes a manual or guideline to standardise the methodology for elaborating aeronautical studies, indicating also in which situations these studies should be carried out

Aeronautical Studies



Concept

Assessment of a problem or non-compliance situation in order to determine possible solutions or alternatives, and to select most viable solution or alternative without affecting negatively operational safety

Applicability


To airports where a non-compliance situation has been identified during the aerodrome certification process

Team – Airline

The responsible team should develop a solid assessment, with a technical base to orient and permit deciding on authorizing a detour of regulations.

The team should be credible, technically capable, experienced, multidisciplinary


Aeronautical Studies - Stages



- I.- **Determine Deviations (non compliances)**
- II.- **Evaluate Deviations Consequences**
- III.- **Present Alternative Solutions that may guarantee an acceptable level in terms of Safety**
- IV.- **Evaluate effectiveness of each alternative**
- V.- **Promulgate and publish the deviations acceptance – in charge of the State**

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Aeronautical Studies



Objetives

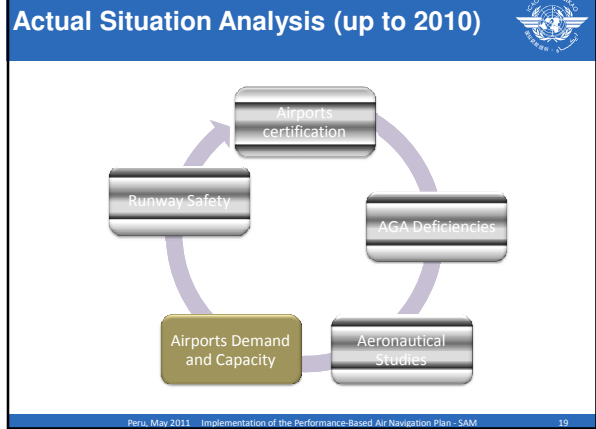
- SMS for certifiable aerodromes
- Reduce aircrafts accidents in the aerodrome

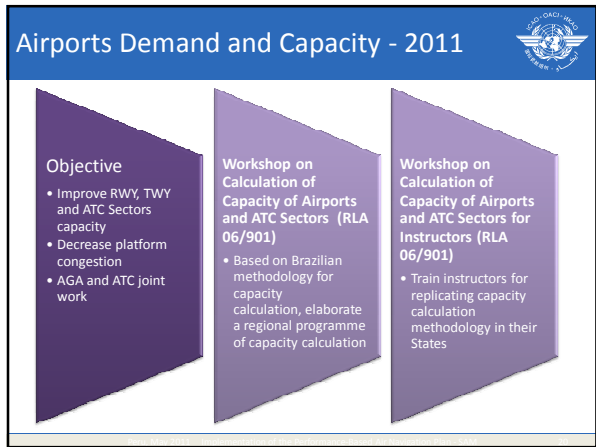
Workshop on Aeronautical Studies (RLA 06/901)

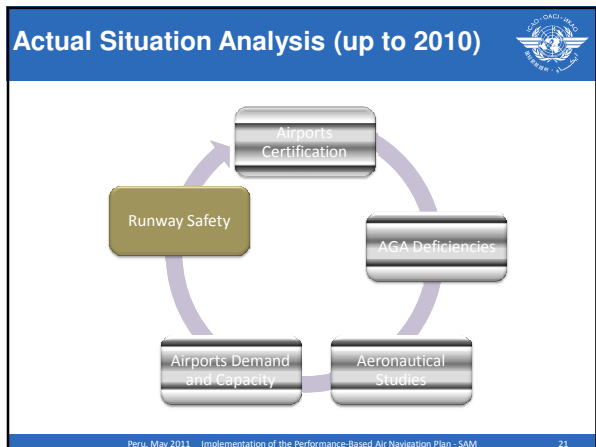
- Determine mechanisms to establish interfaces between the areas participating in the aeronautical study
- Elaborate the guidelines (Annex 14 and Doc. 9774)

Activities

- Identify regional airports that do not comply with SARPS
- Elaborate and apply the orientation guideline for certification with limitations
- Monitor process implementation







Runway Safety



Objective

- Reduce the number of runway incursions and excursions;
- Improve aircrafts safety in runways;


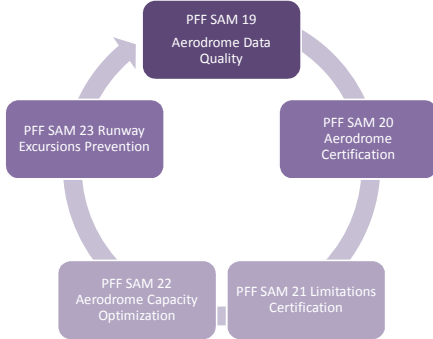
Workshop on Runway Safety

- Based on Brazilian methodology for capacity calculations, elaborate a regional programme for capacity calculation

Activities


- Elaborate a regional action plan to identify runway surface safety requirements
- Establish letter of understanding with ATS and AIM
- Monitor the implementation if the regional action plan

Performance Objectives Implementation Strategy (2011 – 2018)

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Regional Performance Objective: SAM19 Quality of Aerodrome Data Requirements



Safety

- Reduce aircrafts accidents in the aerodrome
- Improve aerodrome aircrafts safety

Environment protection and sustainable development of air transport

- Efficient aerodrome operations based on assurance of aerodrome data quality

Metrics


- Number of deficiencies related to non-compliance of AOP1 Table, Doc. 8733, Vol. II FASID

2012 – 2018 Strategy

- Regional action plan
- Update WGS-84 obstacles data system
- Agreement letter with AIM, quality requirement data
- Monitor the implementation of the regional action plan

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Regional Performance Objective: SAM23
Prevention of Runway Excursions



- Safety**
 - Reduce runway excursions
 - Improve safety of aircrafts in runways
- Environment protection and sustainable development of air transport**
 - Efficient aerodrome operations
- Metrics**
 - Number of aerodromes having actions plans for runway excursions risk management
 - Number of runway excursions per year
- 2012 – 2018 Strategy**
 - Develop an regional action plan to identify runway surface safety requirements
 - Assist States in the implementation of coordination procedures among users, suppliers and authorities regarding excursions prevention
 - Monitor the implementation of the regional action plan

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¿Questions?



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