ICAO TECHNICAL COOPERATION

NACC/DCA/6 – P/03

# Technical Cooperation Assistance and Support to the Regions


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*Regional Officer, Technical Assistance*

NACCDCA/6 Nassau, Bahamas, 10-12 May 2016

# ICAO ROLE UNDER NCLB

## Technical Assistance

- Assistance provided to States, with a specific set of funds, and implemented by the ICAO NACC, for the duration of the project

## Technical Cooperation

- Any project requested and funded by States and implemented through TCB on a cost-recovery basis.

# RLA/09/801
# Objective and Purpose

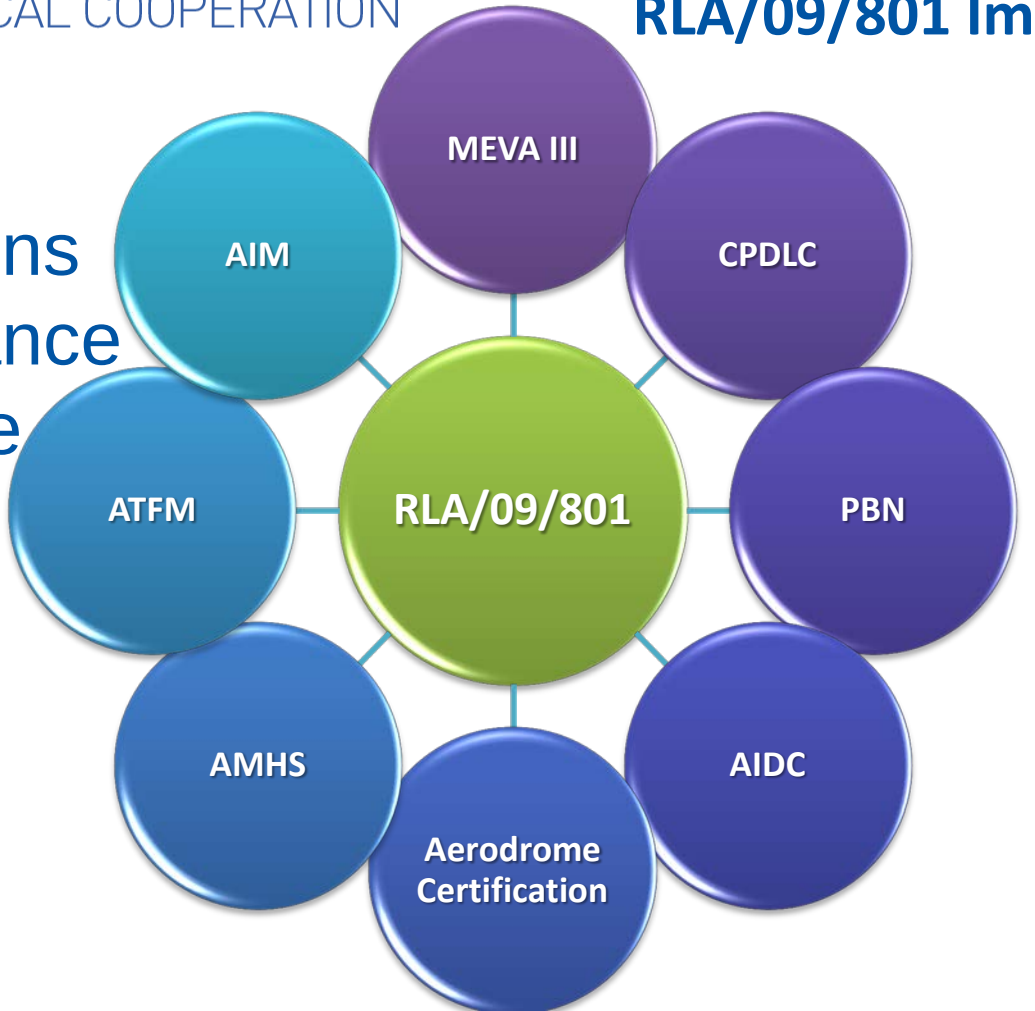
**Provide assistance to States/Territories in the effective implementation of ICAO SARPs, and streamline safety and air navigation implementation consistent with air navigation and aviation safety plans and regional performance targets**

# RLA/09/801 Facts

- The Project Activity Plan is aligned with the RPBANIP, GANP, GASP, NCLB and Port-of-Spain Targets
- The Project Activity Plan will include Multi-Disciplinary TEAMS in support of the NCLB Strategy. All States will receive a visit by 2020
- The Project objectives will focus on increasing EI, Aerodrome Certification, mitigate and/or resolve safety/security deficiencies, assist in resolution of significant safety concerns, and build CAA capacity
- Specific projects will focus on PBN/ATFM implementation, Improve Regional Safety, Enhance capacity and efficiency of Aerodromes, and others

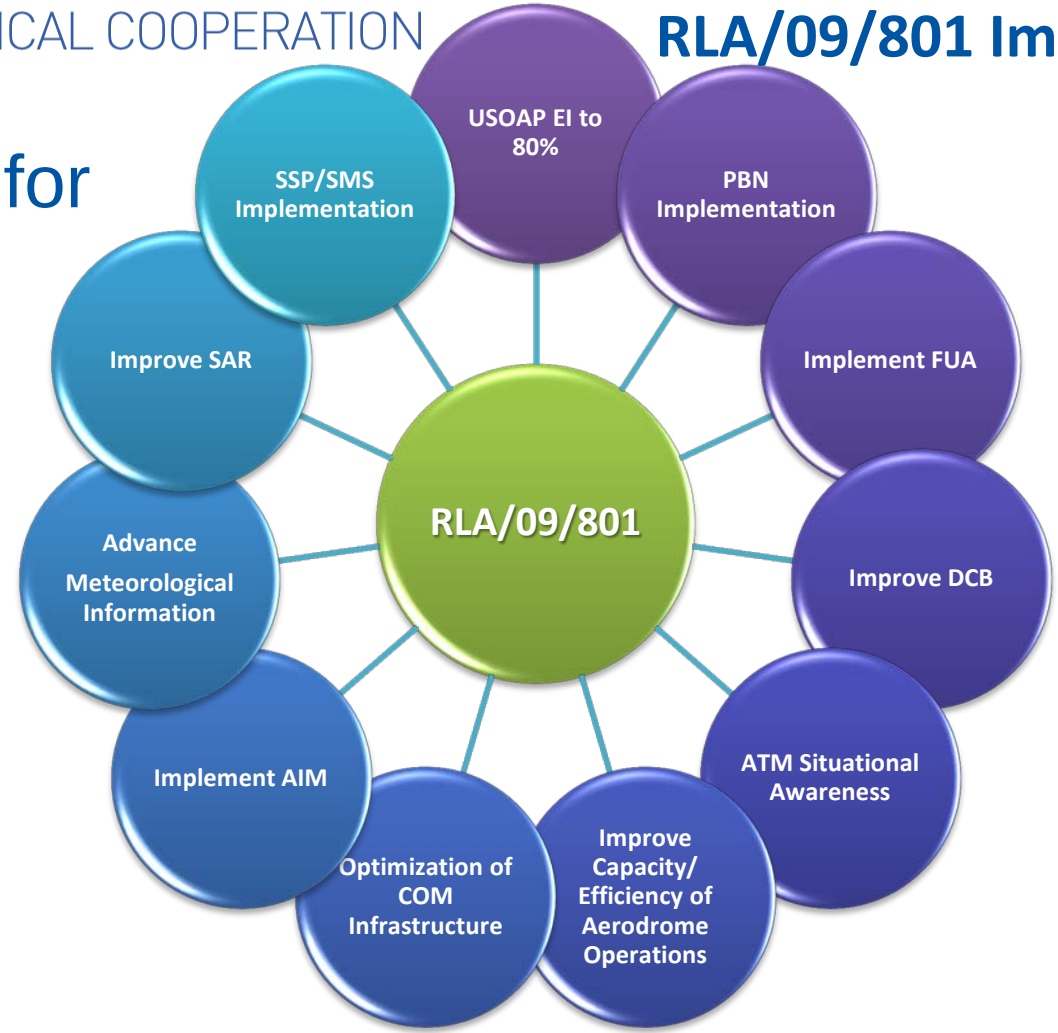
# RLA/09/801 Implementation

## Sub-Project Implementations and/or Assistance Provided since 2012



# RLA/09/801 Implementation

## Expectations for 2016-2020:



# RLA/09/801

## Ways to improve the Project:

### "MCAAP" – Multi-Regional Civil Aviation Assistance Programme

- Introduce "third-parties" for funding support
- Expand the scope of projects/types of assistance through Annex 19
- Incorporation of procurement and consulting capability
- Cost savings to the project

ICAO TECHNICAL COOPERATION

# Sixth Meeting of the North American, Central American and Caribbean Directors of Civil Aviation (NACC/DGCA/6)

Iván Galán

*Director, Technical Cooperation*
*ICAO*

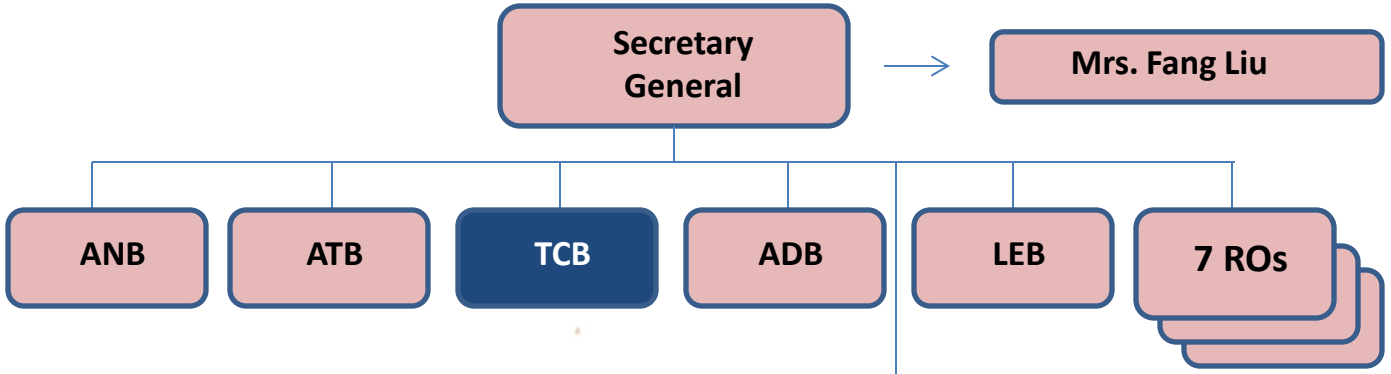

Nassau, Bahamas, 10-12 May 2016

# Scope

- ICAO's Structure and Roles
- TCB's Structure and Objectives
- Technical Cooperation Programme
- Project Cycle
- Examples of Projects
- IPAV
- Conclusions

# *ICAO structure*

## *SECRETARIAT*



# ICAO's Roles

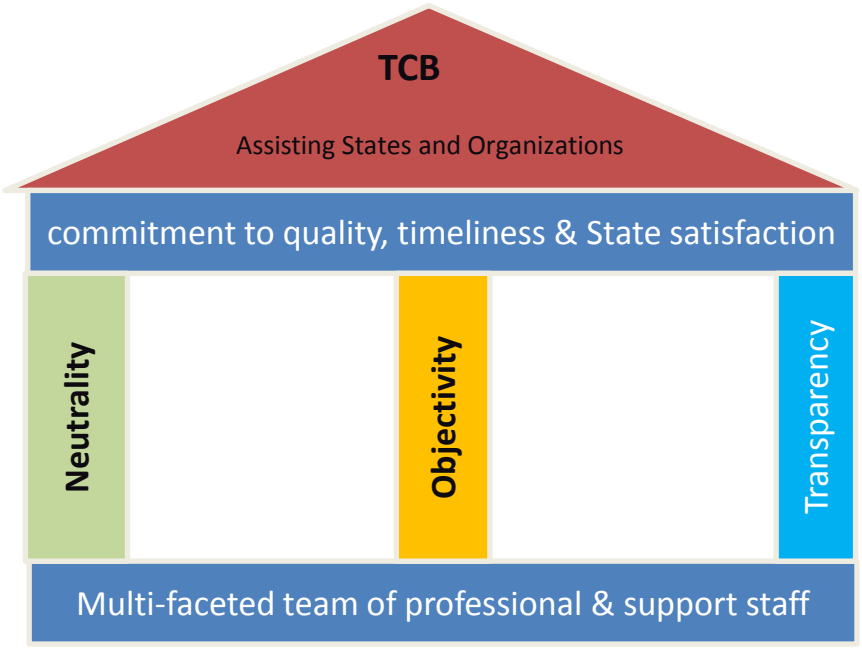
- Standards and Recommended Practices (SARPS) and other publications

- Audits

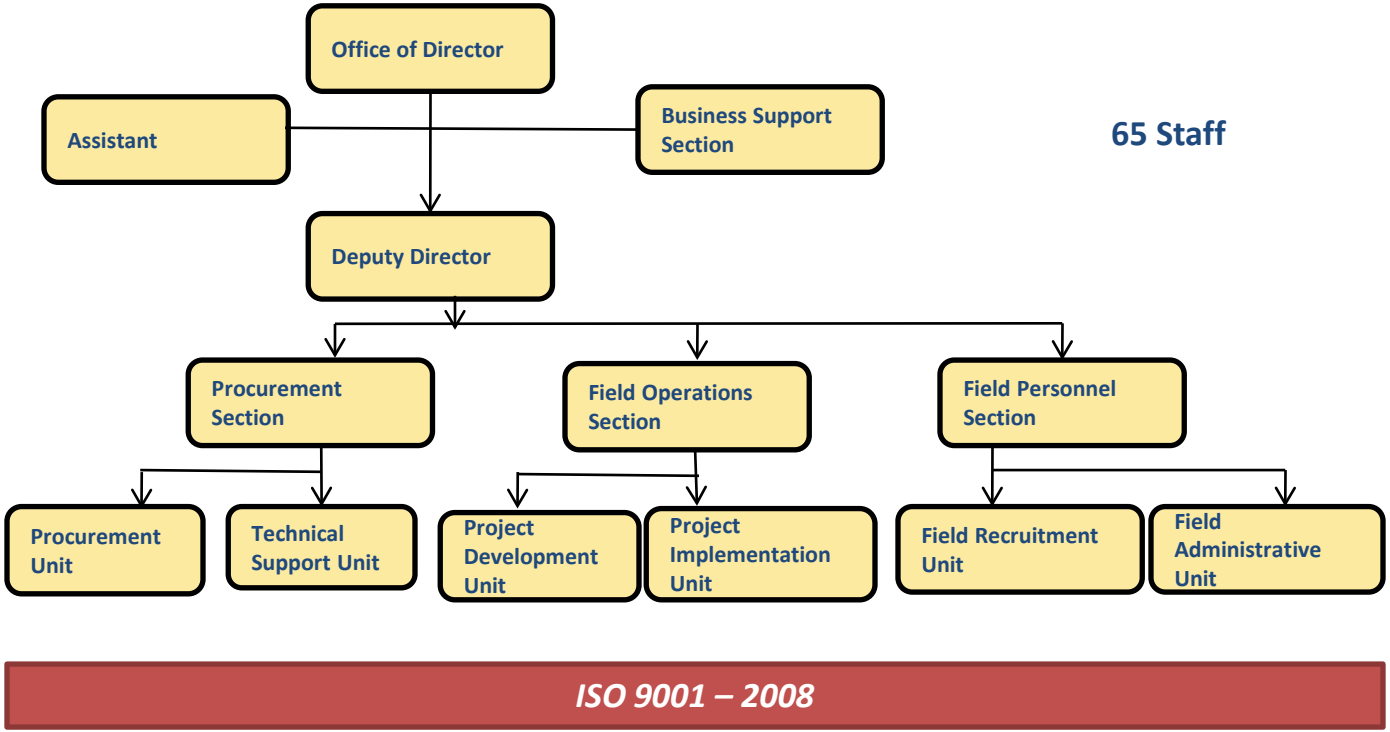
USOAP / CMA /ICVM (Safety)
USAP (Security)

- **Assisting the States / Organizations**

# What is TCB?


TCB
Assisting States and Organizations
commitment to quality, timeliness & State satisfaction
Neutrality
Objectivity
Transparency
Multi-faceted team of professional & support staff

# Technical Co-operation Bureau

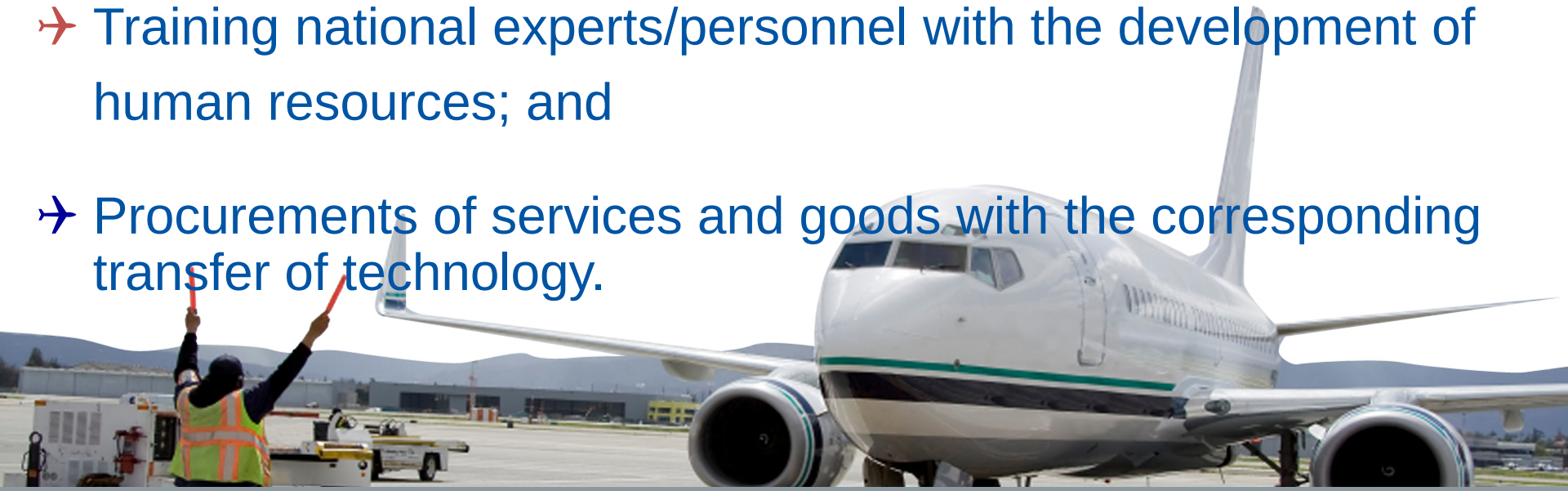


# TCB Objectives

- To enhance the capacity of the civil aviation institutions / organizations;
- Transfer of technology and development of human resources; and
- To improve and maintain the efficiency and quality in the implementation of projects.

# Areas of Projects

- Assist States with experts to strengthening of civil aviation institutions/organizations;
- Training national experts/personnel with the development of human resources; and
- Procurements of services and goods with the corresponding transfer of technology.



# Assisting States

- Follow-up to USOAP and USAP audits;
- Implementation of corrective action plans;
- Supplementing State's capacity;
- Development of SARPS and other documentation;
- Development of the Civil Aviation Authorities;

# Assisting States…examples

- Namibia:
  - TCB project since 2010 for Capacity Building;
  - Previous EI = 30%
  - Last ICVM 2015 = 57%
  - More than 7 experts on the field
- Kazakhstan:
  - TCB project since 2013 for Capacity Building and SSCs;
  - The two SSCs resolved;
  - More than 8 experts on the field
- Saudi Arabia:
  - TCB project since 1998 for Capacity Building;
  - More than 18 experts as OPAS in the field
- Argentina:
  - TCB project 2009 – 2010 for restructuring the CAA;
  - CAA (ANAC) now working on new structure with new regulations;
  - The projects continues through 2017 for the reinforcement of the ANAC.

# TCB Training Programme

- ICAO Fellowship Programme and the DCTP
  - Selected international civil aviation training centers-universities
- ICAO experts as instructors
  - Training programmes and seminars (regional and locally)
  - On-the-job training
- Training provided by the equipment suppliers

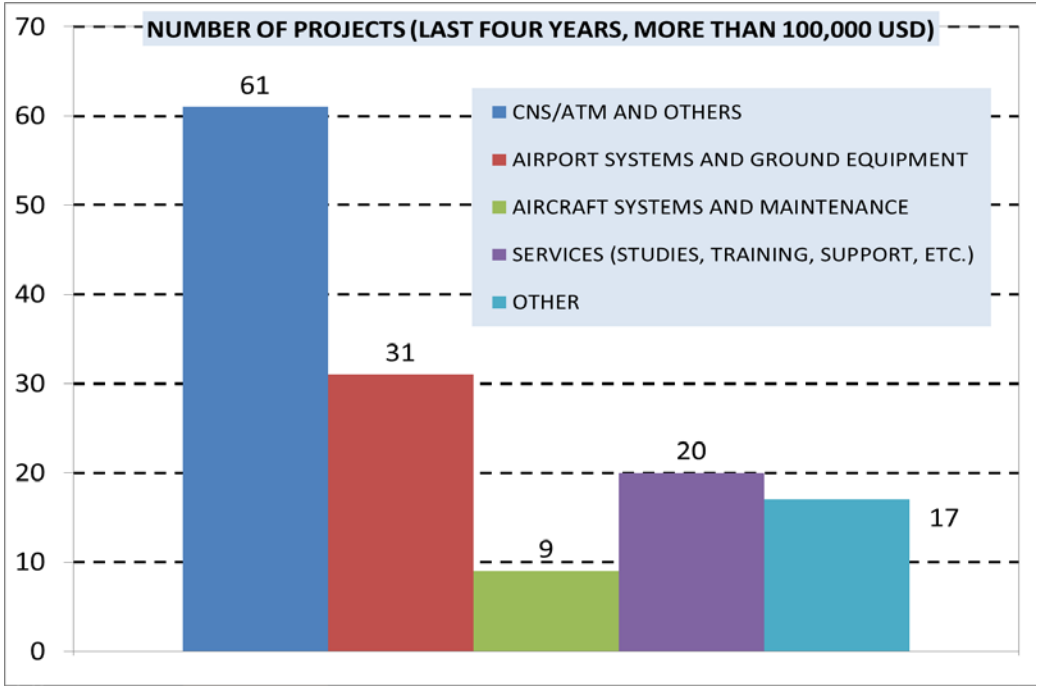
# Training programme…examples

- DCTP:
  - Singapore, South Korea and India;
  - More than 350 staff trained in 2015
- TCB training projects:
  - AENA Spain in Latin America;
  - SMS and SSP training for Bahamas;
  - Fellowship programme in Mexico;
  - More than 4000 staff trained in 2015
- Procurement Training:
  - Aircraft for inspection of NAV Aids for Ecuador;
  - ASECNA project: radars, Control centers and Simulators for ATCs;
  - More than 450 staff trained in 2015

# TCB Procurement Services

- Procurement of Goods and Services
- Procurement solutions for states and organizations
- Air Navigation, Airports and CAAs Solutions

# Type of Needs Arising



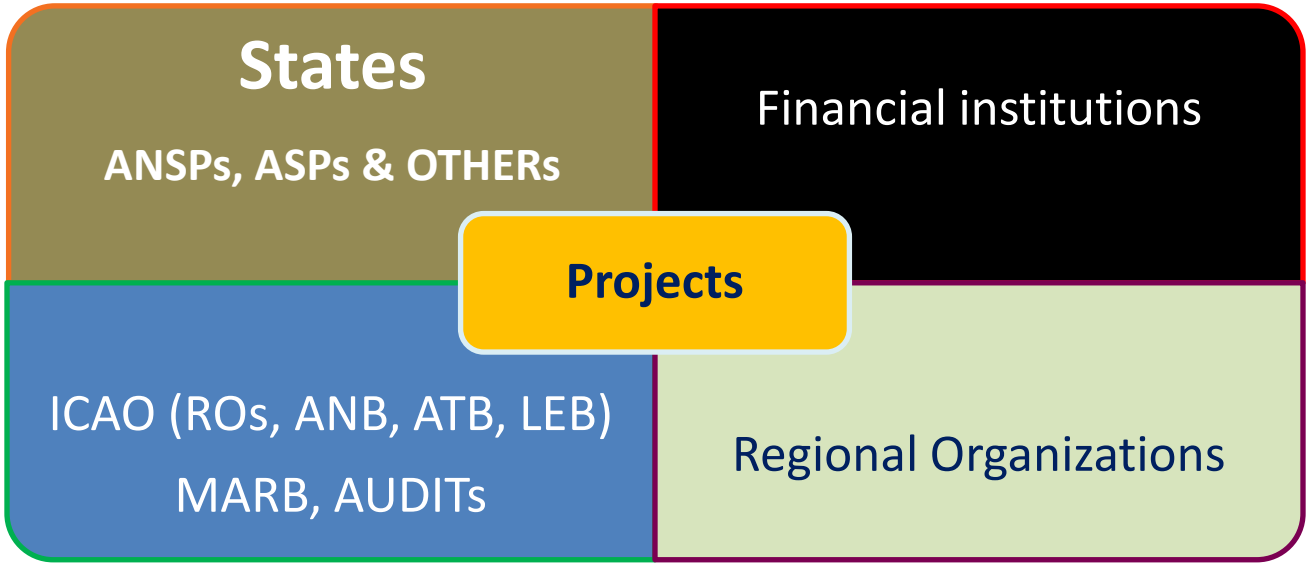
# Procurement Process

1
- Define Requirements
- Define Sourcing
- Site Survey & Meeting with DGCA Authorities

2
- Define Specifications / Agree to Specifications
- Issuance of Solicitation
- Receipt of Tenders
- Joint Evaluation of Tenders

3
- Contract Preparation, Review, Award
- Contract & Project Management
- Warranty Support

# Origin of Projects



# Working Mechanisms

- MSA (Management Service Agreement)
- CAPS (Civil Aviation Purchasing Service)

- Project Document;
- Lamp-Sum;
- Request for Procurement.

# Project Financing

- Receiving States
- Donor countries
- ICAO Voluntary Funding Mechanism
- Banks
- Private sector and aviation industry
- Regional organizations

# TECHNICAL CO-OPERATION PROGRAMME 2015

**Total Programme implementation: USD 130 million**

**87 individual projects and 28 regional projects**

# Why is it worth paying overheads??

- Impartiality and Objectivity
- Knowledge and Experience
- ICAO SARPs compliant
- Economy of Scale
- No commercial interests - Low costs
- Transparency
- Administrative savings from the States
- ISO 9001-2008 Certification

# ICAO Programme for Aviation Volunteers (IPAV)

- Purpose of the IPAV:
  - To provide a framework for the deployment of Aviation professionals, working as Volunteers, to respond to emergencies affecting the civil Aviation system in a state, to develop capabilities in the implementation of ICAO SARPS and solve deficiencies that may have the civil aviation authorities.
- Framework of the IPAV:
  - Open to all professionals from the industry, civil aviation authorities, ICAO and private sector that wants to apply for volunteer;
  - Request from the States and Agreement with ICAO;
  - IPAV Voluntary Fund;
  - Short term type of projects (no more than one month);
  - Association with the UNVP.

# Conclusions

- ICAO’s three main Roles
- Modern Structure and Management of TCB
- TCB’s Role = Assisting the States / Organizations
- Clear Advantages for States / Organizations

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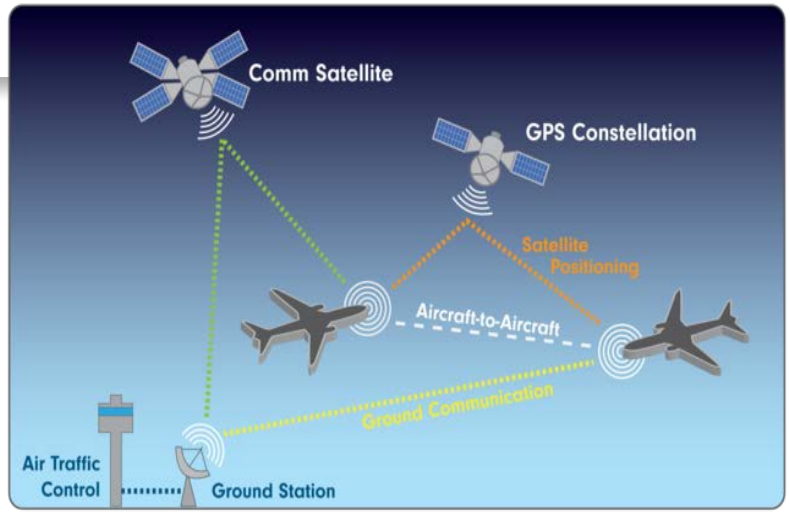
# Procurement Examples

## ADS B & C Systems



# Procurement Examples

## ILS & Navigational Aids

# Procurement Examples

## Surveillance Radars (Primary & Secondary)

# Procurement Examples

## Control Centers (ACC & APP) and ATC Simulators

# Procurement Examples

## TWR Equipment & Mobile Towers

# Procurement Examples

## Communications (VHF, VSAT, HF, etc.)

# Procurement Examples

## Fire Fighting Vehicles

# Procurement Examples

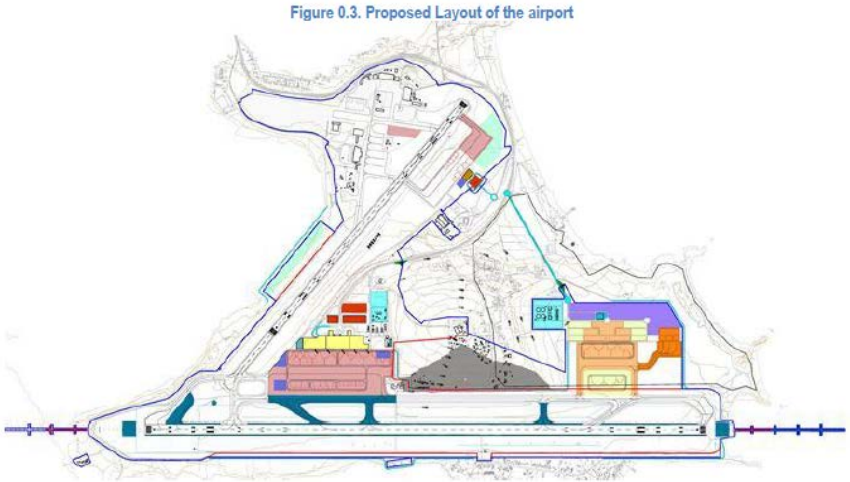
## Airport Infrastructure

# Procurement Examples

## Civil Aviation Master Plans

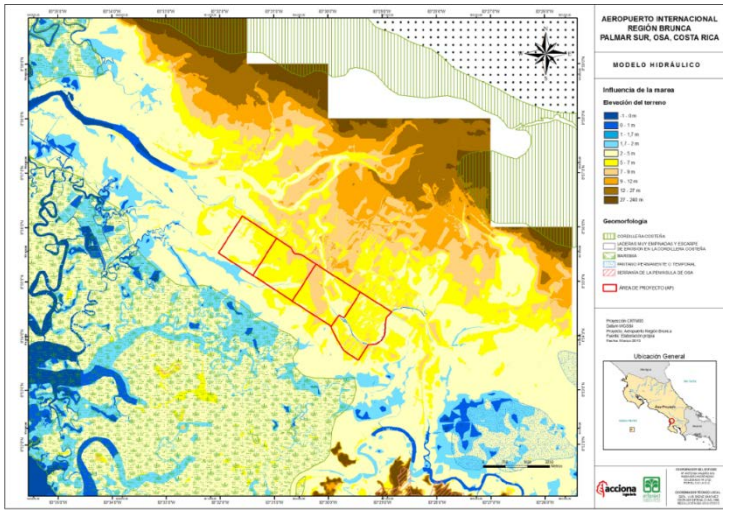
# Procurement Examples

## Airport Design and Master Plans



# Procurement Examples

## Environmental Studies



# Proyectos en las Regiones Car/SAM

- *Venezuela* 2005 – 2011: Proyecto MAGTA (Modernización de infraestructura aeroportuaria y adquisición de equipos para navegación aérea).
- Costa Rica 2011 – 2015: Infraestructura aeroportuaria (plataforma, hangar, PBB).
- Argentina 2009 – 2015 / cuatro proyectos para: ANAC, JIAAC, DGCTA y FAA + nuevo proyecto con EANA
- Panamá 2009 – 2015 / dos proyectos para: Aeropuerto Tocumen y DGAC
- Perú 2008 – 2015 / tres proyectos para: CORPAC, DGAC y Ministerio Interior (Pasaportes Electrónicos)

# Proyectos en las Regiones Car/SAM(continuación)

- Bolivia 2008 – 2015 / DGAC creación de capacidad
- Ecuador 2012 – 2015 / tres proyectos: Software aeronáutico, avión inspección en vuelo, simulador ATC.
- Paraguay 2014 – 2017: Construcción nueva terminal y normalización lado aire para el aeropuerto internacional en Asunción.
- *Guatemala* 2005 – 2010 / tres proyectos: Construcción edificio terminal aeropuerto La Aurora, modernización del Mundo Maya International Airport y de aeropuertos en el interior del país.

# Proyectos en las Regiones Car/SAM(continuación)

- *Brasil* 2000 – 2015 tres proyectos finalizados con ANAC, INFRAERO y DECEA. Nuevo proyecto en desarrollo con ANAC.
- Uruguay 2008 – 2015 / dos proyectos: equipamiento aeronáutico y creación de capacidad en la DGAC.
- *Colombia* 2003 – 2008: cuatro radares secundarios y sistema de red VSAT completo para el país.
- El Salvador 2013 estudio para nuevo sistema de costos y cargos en aviación civil.
- Bahamas 2012 – 2015 adquisición de dos radares y construcción de un APP y un simulador de Torre de Control 3D.

# Proyectos en las Regiones Car/SAM(continuación)

- México: proyectos para DGAC, CIISA y Nuevo Aeropuerto Ciudad de México;
- *Haití*: proyectos en área de AVSEC y en asistencia a la autoridad de aviación civil OFNAC;
- Jamaica: Estudio para la eficiente vigilancia económica de aeropuertos;
- Proyectos Regionales:
  - Capacitación personal aeronáutico CAR/Sam (RLA/97/903);
  - SRVSOP (RLA/99/901);
  - REDDIG II (RLA/03/901);
  - MEVA III (RLA/12/902);
  - LACAC
  - ATM-CNS (RLA/06/901);
  - PBN Caribbean Region (RLA/09/801); and
  - COCESNA (RLA/13/801)

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THANK YOU