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39th  
TRIENNIAL ASSEMBLY  
27 SEP-07 OCT 2016

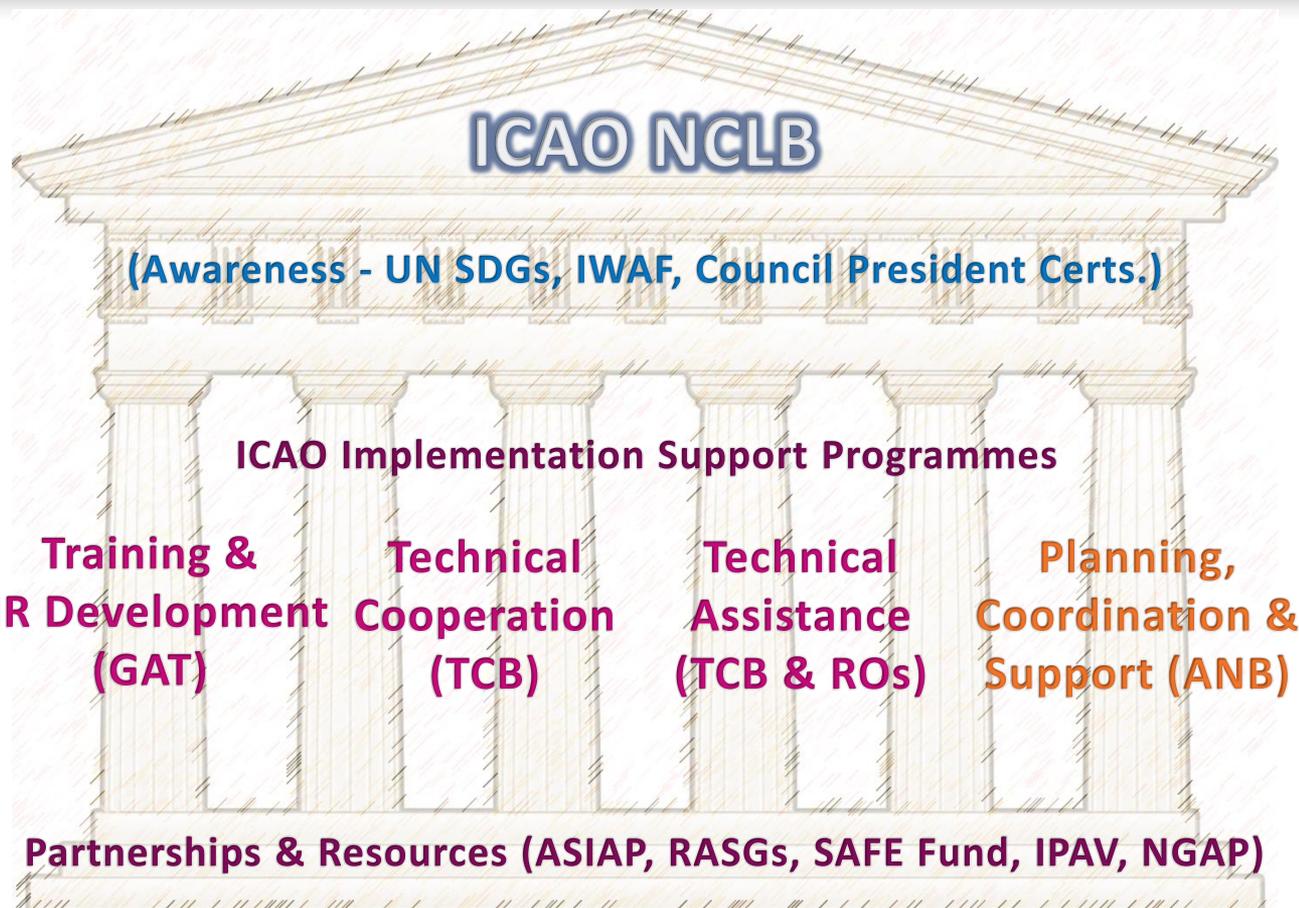
# Implementation Planning and Support Section (Safety)

<http://www.icao.int/safety/Implementation>

39<sup>th</sup> Assembly, Montreal, Canada  
27 September – 7 October 2016



## State Implementation & Capacity Building (Safety)





### Needs Analysis / Validation

### Global Plans

Global & Regional

### SARPs & PANS

Operation of Airports  
AT Traffic Management

### Implementation Planning

ICAO - ICAO/WHO/FAO  
ICAO - ICAO/WHO/FAO  
ICAO - ICAO/WHO/FAO

Training & Guidance

### Assess & Measure

### Compliance & Verification

if needed



## MANUALS

## CIRCULARS

## SYMPOSIA

SPACE Symposium  
ICAO/UNICOSA Aeronautics Symposium  
Montréal, 18-20 Mar 2015

RPAS Symposium  
ICAO HD, 23-25 March 2015  
Remotely Piloted Aircraft Systems

ICAO - WHO CAPSCA  
Global Symposium  
Montréal, 28-30 April 2015

## REGIONAL IMPLEMENTATION

RASGs for Safety

PIRGs for Air Navigation

RSOOs

COSCAPs

RAIOs

FPPs

## IMPLEMENTATION KITS (iKITS)

Performance based Navigation

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# Global Implementation Support Programmes

(All Strategic Objectives, **Safety & AN**)

Technical Assistance & Cooperation	iMPLEMENT	Training Programmes
Runway Safety	Safety Management	LOC-I/UPRT
PBN	CAPSCA	NGAP



# Regional Implementation Support Programmes (Safety & AN)

In addition to PIRGs and RASGs, other regional implementation groups, and regional NCLB implementation strategies and plans

NACC	SAM	WACAF	ESAF	MID	EUR/NAT	APAC
<ul style="list-style-type: none"> <li>ICAO PBN Go-Team</li> <li>ICAO RS Go-Team</li> <li>CAPSCA</li> <li>Regional ANS Project</li> <li>MEVA</li> </ul>	<ul style="list-style-type: none"> <li>ICAO PBN Go-Team</li> <li>ICAO RS Go-Team</li> <li>CAPSCA</li> <li>SRVSOP</li> <li>Regional ATM/CNS Project</li> <li>ARCM</li> <li>REDDIG</li> </ul>	<ul style="list-style-type: none"> <li>ICAO PBN Go-Team</li> <li>ICAO RS Go-Team</li> <li>CAPSCA</li> <li>AFI-CIS</li> <li>Africa FPP</li> <li>AFI Plan</li> <li>COSCAP-UEMOA</li> <li>ASQA</li> </ul>	<ul style="list-style-type: none"> <li>ICAO PBN Go-Team</li> <li>ICAO RS Go-Team</li> <li>CAPSCA</li> <li>COSCAP-SADC</li> <li>AFI-CIS</li> <li>Africa FPP</li> <li>AFI Plan</li> <li>ASQA</li> </ul>	<ul style="list-style-type: none"> <li>ICAO PBN Go-Team</li> <li>ICAO RS Go-Team</li> <li>CAPSCA</li> <li>COSCAP-GS</li> <li>MID FPP (2017)</li> <li>MENA RSOO (2017)</li> </ul>	<ul style="list-style-type: none"> <li>ICAO PBN Go-Team</li> <li>ICAO RS Go-Team</li> <li>CAPSCA</li> <li>CIS Project</li> <li>PANSOPS</li> <li>RWY Safety</li> </ul>	<ul style="list-style-type: none"> <li>ICAO PBN Go-Team</li> <li>ICAO RS Go-Team</li> <li>CAPSCA</li> <li>COSCAP-SA</li> <li>COSCAP-SEA</li> <li>COSCAP-NA</li> <li>APAC FPP</li> <li>RSO ATM Programme</li> <li>APAC CAT</li> </ul>



# Regional Cooperation (Safety)



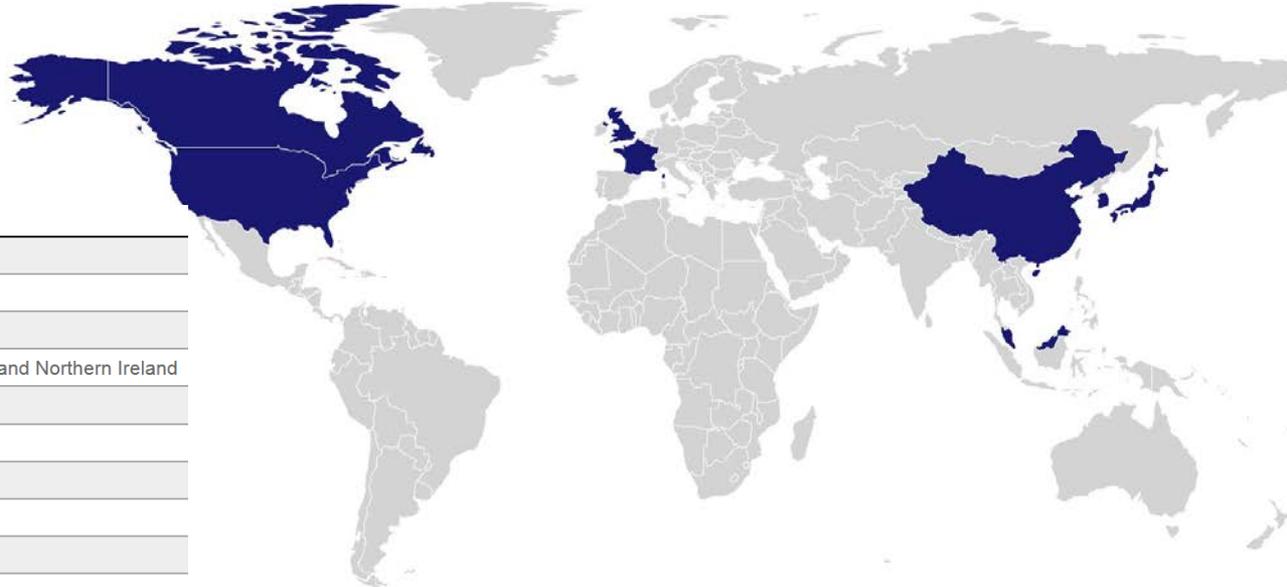


# IMP-SAF Responsibilities

- ASIAP
- TA
- SAFE Fund
- MARB
- RASGs
- COSCAPs & RSOOs
- RSP
- NGAP



# Aviation Safety Implementation Assistance Partnership (ASIAP) Member States



**State**

Canada
China
France
United Kingdom of Great Britain and Northern Ireland
Japan
Republic of Korea
Malaysia
Singapore
United States of America

**Organizations**

- EASA
- ACI
- CANSO
- IATA
- Airbus
- Boeing
- World Bank



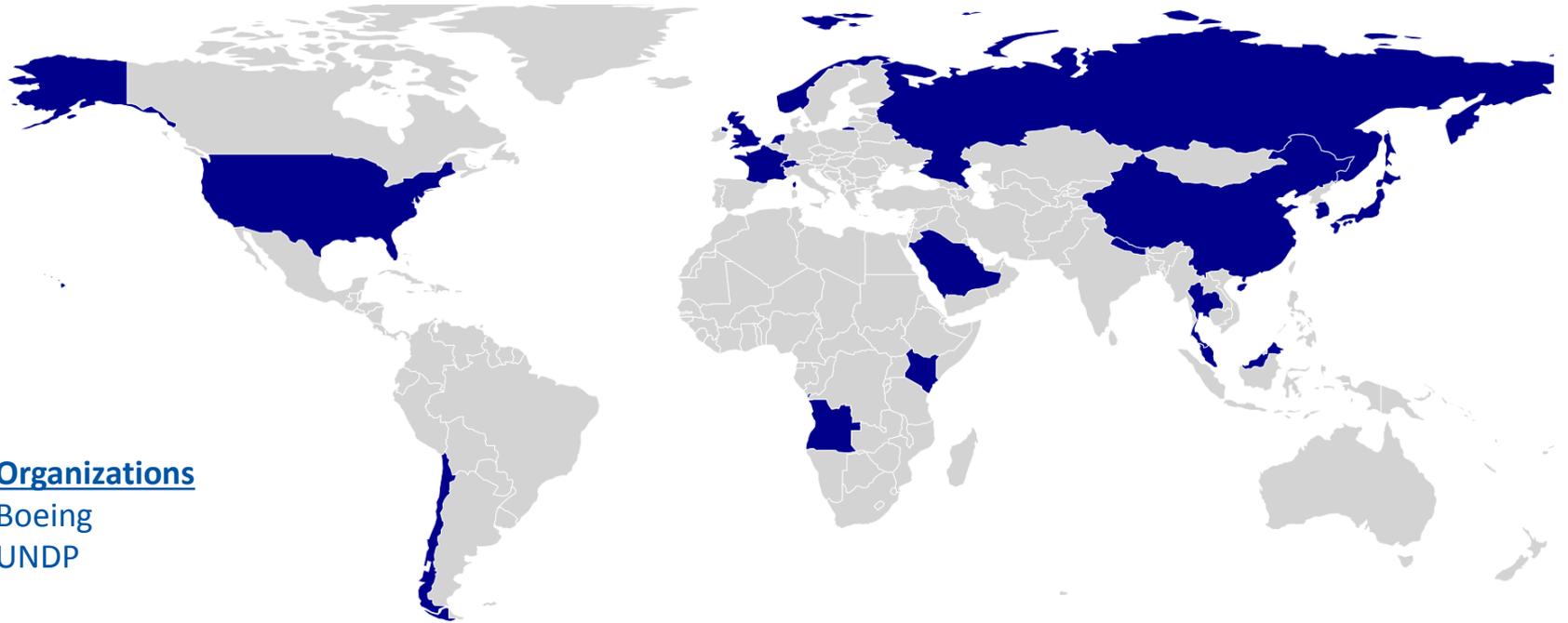


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# Safety Fund (SAFE) Donors



## Organizations

Boeing  
UNDP



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# Safety Fund (SAFE) Projects

## Regional Projects

AFCAC AFI-CIS

Africa FPP

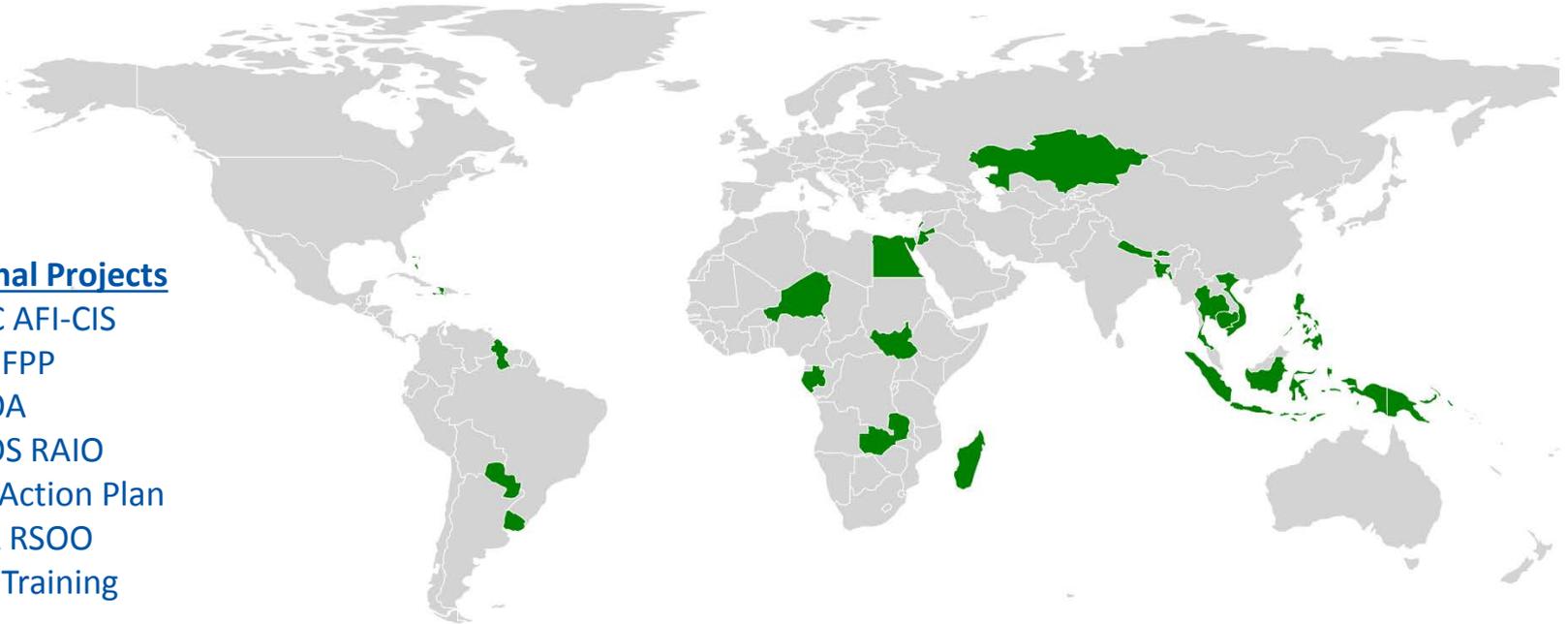
CASSOA

CASSOS RAIO

Ebola Action Plan

MENA RSOO

DGCA Training





# USOAP EI Improvements for States supported by SAFE Funded Technical Assistance Projects (1)

State	USOAP CMA Activities (EI & Date of Previous Activity)	SAFE Project (Start Date)	SAFE Project (End Date)	USOAP CMA Activities (EI & Date of Latest Activity)	EI improvement	SAFE and/or TCB TC Project Target Areas
Zambia	December 2012 (ICVM in LEG,ORG, PEL, OPS and AIR) EI 46.93	August 2014	November 2014	December 2014 (Off-site SSC PQ Management) EI 46.93  March 2016 (ICVM in all areas (except AIG)) EI 62.06	Overall EI 46.93 -> 62.06 (+15.13) - OPS:52.46 -> 68.85 (+16.39) - AIR: 86.11->87.96 (+1.85)	AOC Inspector OJT (OPS/AIR)
Madagascar	May 2014 (Off-site Validation) EI 59.06	February 2015	On-going	December 2015 (Off-site Validation) EI 62.66	Overall EI 59.06 -> 62.66 (+3.6)	All areas
Uruguay	September 2014 (Off-site SSC PQ Management) EI 57.88 & 2 SSCs	July 2015	On-going	March 2016 (ICVM in all areas) EI 71.45 & 2 SSCs resolved	Overall EI 57.88 -> 71.45 (+13.57)	All areas

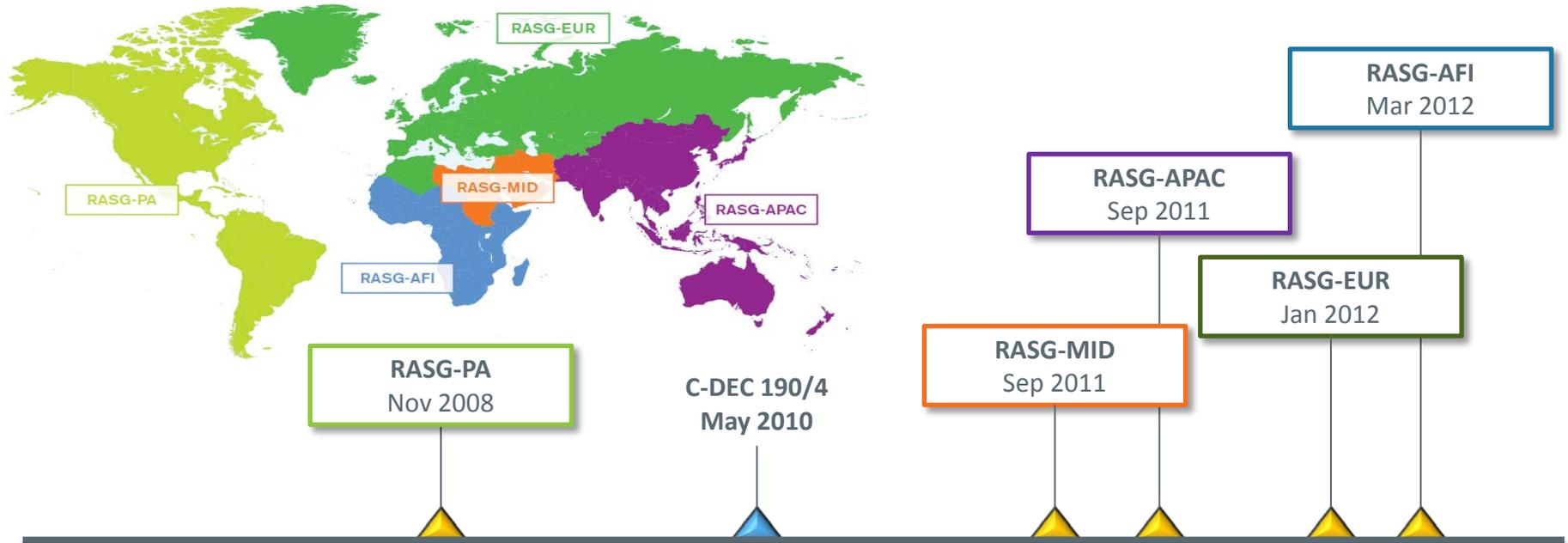


# USOAP EI Improvements for States supported by SAFE Funded Technical Assistance Projects (2)

State	USOAP CMA Activities (EI & Date of Previous Activity)	SAFE Project (Start Date)	SAFE Project (End Date)	USOAP CMA Activities (EI & Date of Latest Activity)	EI improvement	SAFE and/or TCB TC Project Target Areas
<b>Kazakhstan</b>	December 2014 (Off-site SSC PQ Management) EI 64.35 & SSC	July 2015	October 2015	April 2016 (ICVM in PEL, OPS, AIR and ANS) EI 74.13 & SSC resolved	Overall EI 64.35 -> 74.13 (+9.78) - OPS :70.97 -> 87.1 (+16.13) - AIR :65.45->89.09 (+23.64)	AOC Inspector OJT (OPS/AIR) Also Technical Cooperation projects (Phase 1: Sep 2012 – Apr 2014; Phase 2: May 2014 – June 2016) in all areas except for AIG
<b>Nepal</b>	July 2013 (ICVM in all areas except for AIG) EI 54.91	February 2016	On-going	March 2016 (Off-site Validation in all areas except for AIG) EI 58.4	Overall EI 54.91 -> 58.4 (+3.49) - PEL: 69.05 (zero) - OPS: 51.28->54.7 (+3.42) - AIR: 74.55->77.27 (+2.72)	PEL/AIR started in Feb 2016 and completed in July 2016; OPS started in July 2016
<b>Paraguay</b>	May 2016 (Off-site Validation) EI 53.63	June 2016	On-going	June 2016 (ICVM in all areas) EI 72.43	Overall EI 53.63-> 72.21 (+ 18.58) - OPS: 33.9->49.15 (+15.25) - AIR: 57.8->88.07 (+30.27)	ORG, OPS and AIR

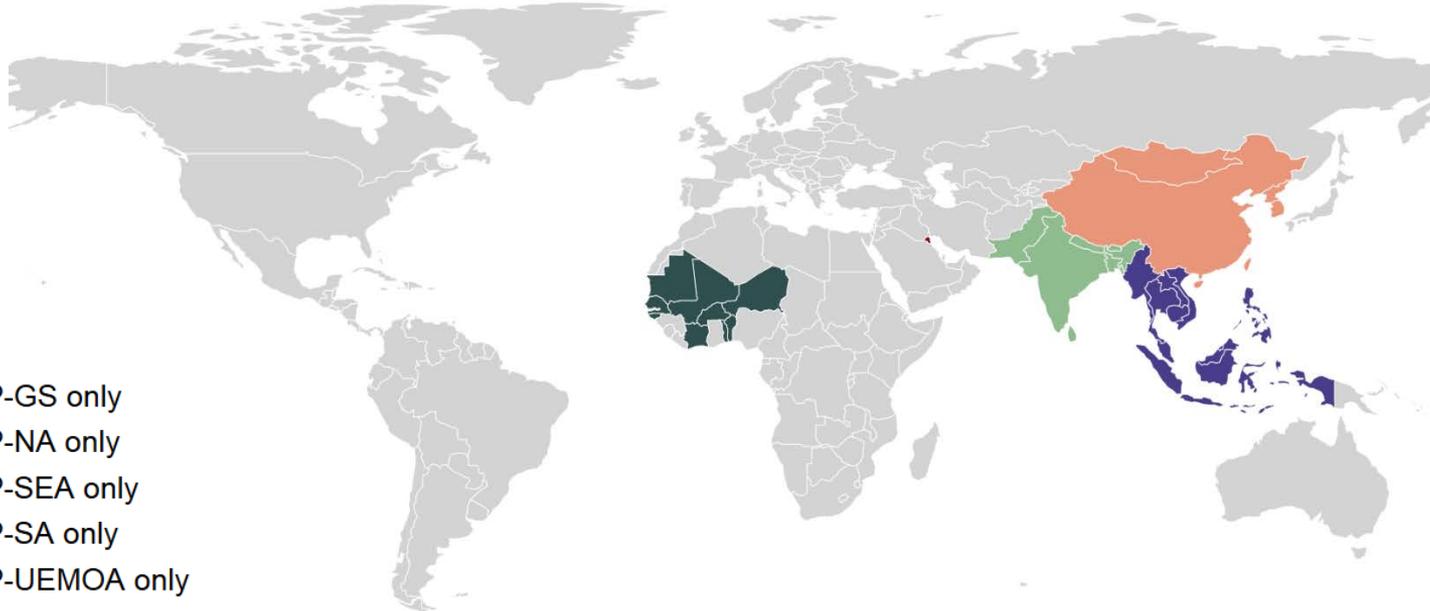


# Regional Aviation Safety Groups (RASGs)





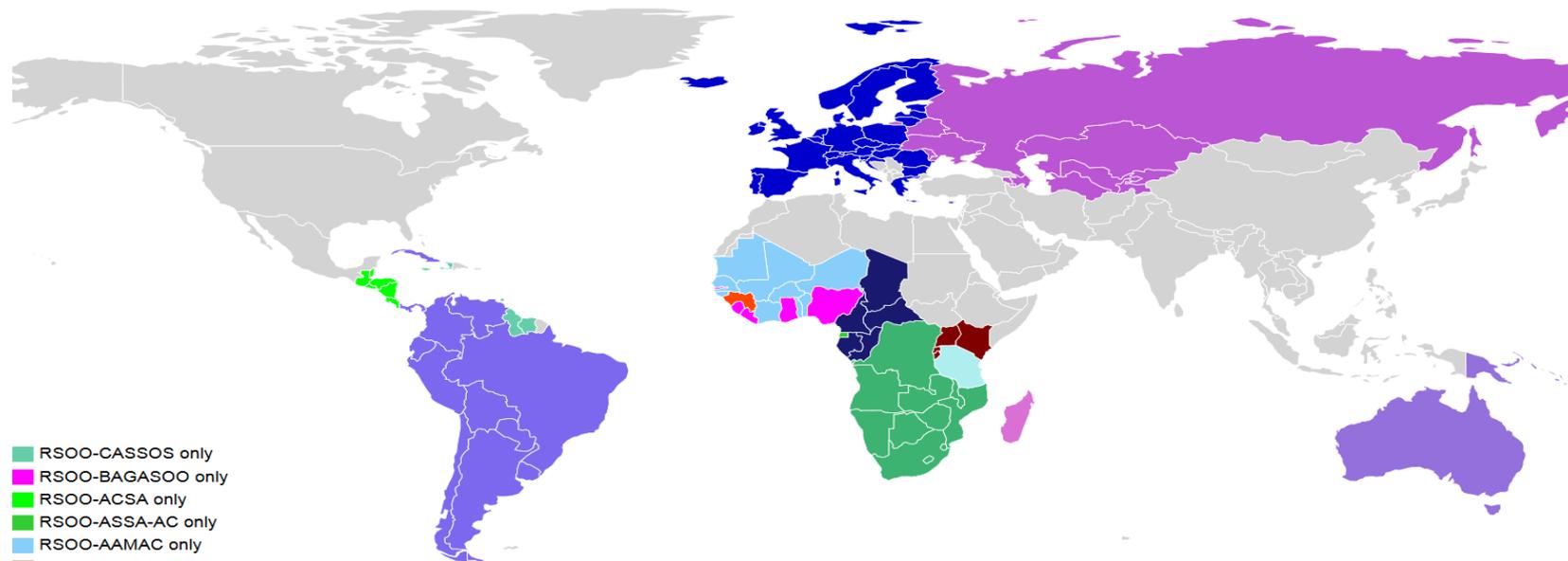
## Cooperative Development of Operational Safety and Continuing Airworthiness Programmes (COSCAPs)



-  COSCAP-GS only
-  COSCAP-NA only
-  COSCAP-SEA only
-  COSCAP-SA only
-  COSCAP-UEMOA only



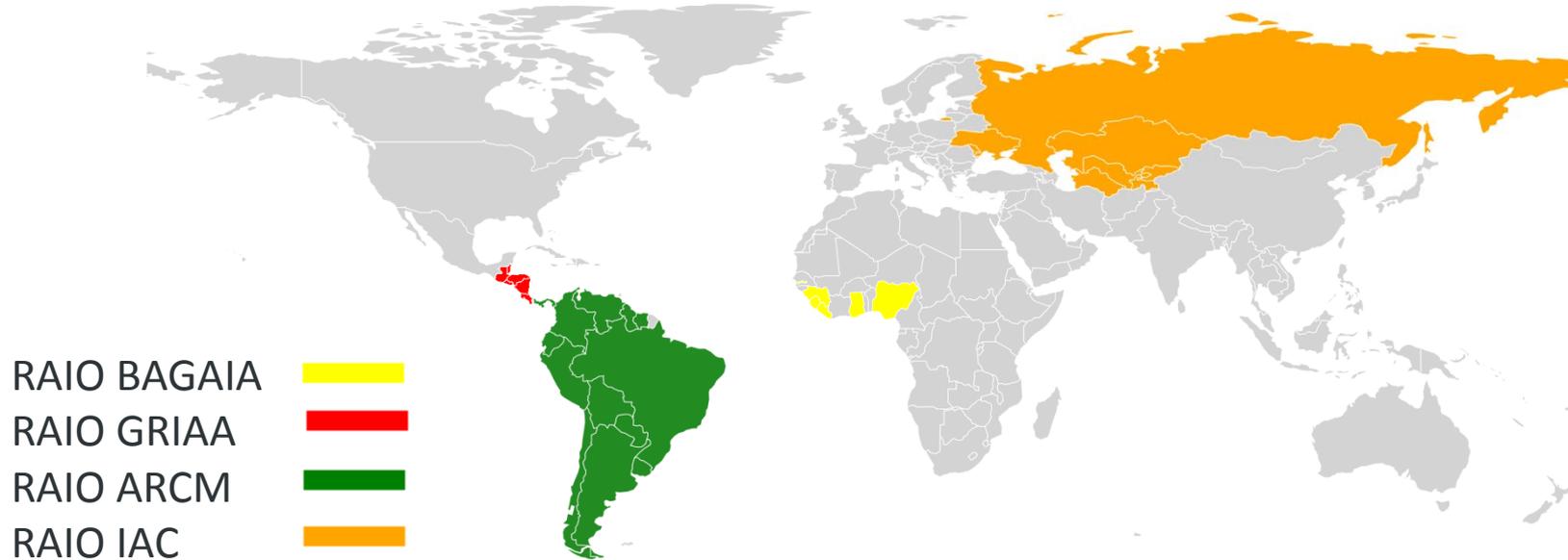
# Regional Safety Oversight Organizations (RSOOs)



- RSOO-CASSOS only
- RSOO-BAGASOO only
- RSOO-ACSA only
- RSOO-ASSA-AC only
- RSOO-AAMAC only
- RSOO-CASSOA only
- RSOO-EASA only
- RSOO-PASO only
- RSOO-IAC only
- RSOO-SRVSOP only
- RSOO-SASO only
- RSOO-CASSOA and RSOO-SASO
- RSOO-AAMAC and RSOO-SASO
- RSOO-AAMAC and RSOO-BAGASOO
- RSOO-AAMAC and RSOO-ASSA-AC



# Regional Accident and Incident Investigation Organizations (RAIOs)





# RASGs/COSCAPs/RSOOs/RAIOs Work Plan 2016 and beyond

- Regional ICAO safety groups, programmes and projects are aligned and coordinated by ICAO Regional Offices with guidance and technical support from ANB, in cooperation with regional safety organizations
- Regional mechanism objectives to support regional implementation of GASP and State implementation of regional safety targets, in collaboration and without duplication
- RASGs focused on regional safety high risk priorities and States with SSCs and low EIs
- COSCAPs and RSOOs focused on State implementation of safety oversight systems (RAIOs for AIG)
- RASG outputs – regional annual safety reports, safety advisories, safety enhancement initiatives, detailed implementation plans, projects and workshops



# RASGs/COSCAPs/RSOOs/RAIOs Work Plan 2016 and beyond

- COSCAPs – sub-regional training, assistance missions to States, and contribution to RASGs
- All regional mechanisms to support State implementation of new safety management provisions
- RASGs future - update ToRs, develop the regional safety performance indicators, safety information and best practices sharing, provide input to the development of 2020 – 2022 edition of the GASP
- Global RSOO Conference in Africa – March 2017
- New SASO, MENA RSOO, CASSOS RAIO, and other regional initiatives
- Planned global RASGs meeting during 13<sup>th</sup> Air Navigation Conference – 3<sup>rd</sup> quarter 2018



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# Runway Safety Programme



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# RSP Activities/Plans - 2016 and beyond

- Maintain Runway Safety web site (I-Kit) & Runway Safety Team Handbook
- Runway safety team survey – 128 RSTs have registered
- Runway Safety Go-Team missions
- Annex 14 Vol. I Amendment 13 – Nov 2016
- PANS-Aerodromes 1st edition (Doc 9981) – Nov 2016
- Global Symposium/Conference – 4<sup>th</sup> Quarter 2017
- PANS-Aerodromes 2<sup>nd</sup> edition (Chapter 5) – 2018
- Annex 14 Vol. I Amendment – Nov 2018
- New USOAP audit protocol questions on runway safety provisions - 2018





# Organizations which support the Next Generation of Aviation Professionals (NGAP) Programme

## States / Regulatory Authorities



## International Organizations



## Education / Training Providers



## Industry/Others





# NGAP Work Plan (2016 – 2017)

- Annual meeting with NGAP community and telecoms with WG Chairs & partner Int'l Orgs.
- Implementation Workshops for ATCO and ATSEP CBT provisions – 2016/2017
- 3<sup>rd</sup> NGAP Global Symposium – 2<sup>nd</sup> Quarter 2017
- Outreach communication media/products including the NGAP web site; NGAP Newsletter; NGAP articles in ICAO publications; Dreams Soar for STEM, Student Education and Careers in Aviation (SECA) activities at regional aviation training events; sharing of NGAP best practices; raising awareness at events - continuous
- Planned update of ICAO Doc. 9956 once traffic forecasts have been completed - 2017
- Planned development of Index by ICAO for forecasting national HR needs – 2017



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THANK YOU!