



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



No Country Left Behind and Partnerships in Aviation Safety

Michiel Vreedenburgh

Air Navigation Bureau - ICAO

Chief - Aviation Safety Implementation Planning and Support

MID SAFETY SUMMIT, Doha

24 – 25 May 2016



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



The size of the industry in 2015

- 3.5 billion passengers
- 51 million tonnes of freight
- 1,400 commercial airlines
- 26,700 aircraft in service
- 4,130 airports
- 173 air navigation service providers

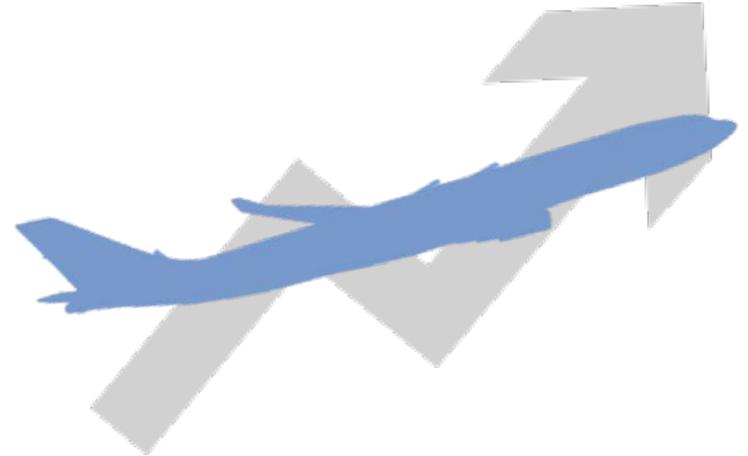
NO COUNTRY LEFT BEHIND

Traffic is for scheduled services



Global Traffic Forecast

- Air traffic is predicted to **double** in the next 15 years
- Our collective responsibility is to **allow the aviation system to realize this growth** with sustainable development
- Safe, secure, efficient, economically viable, and environmentally sound air transport system



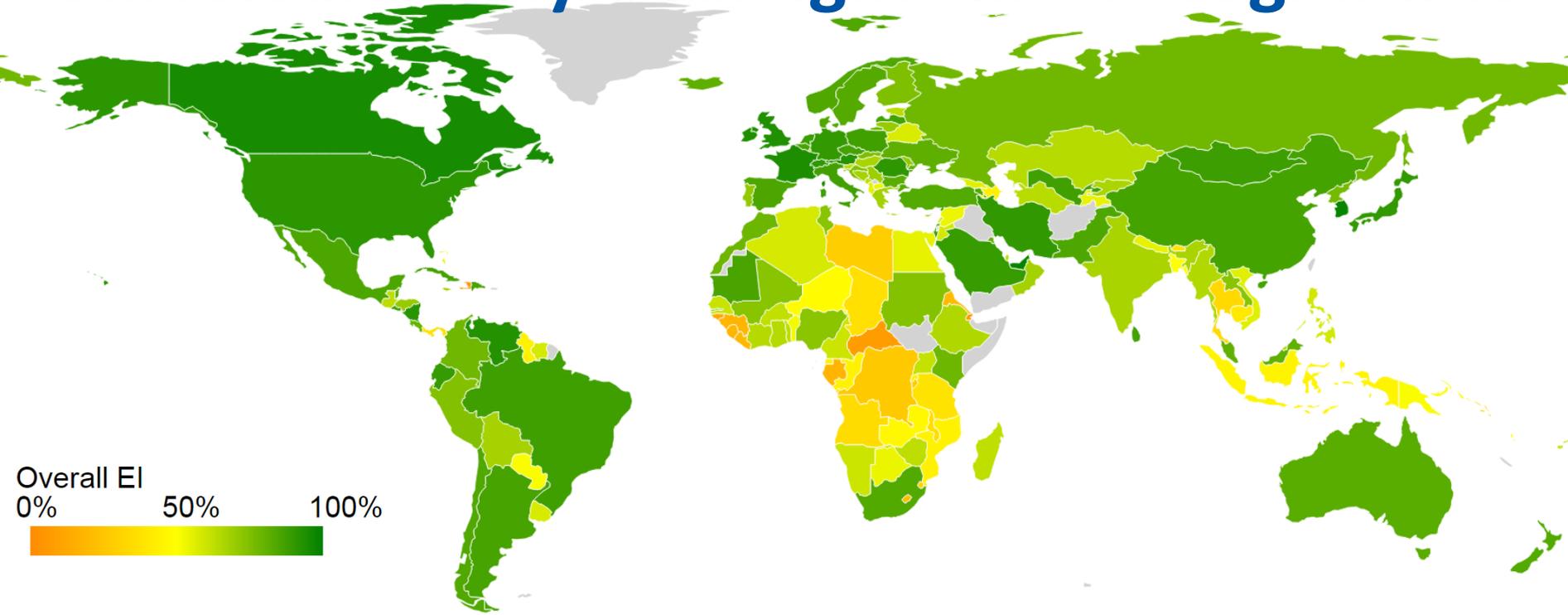


ICAO | UNITING AVIATION

NO COUNTRY LEFT BEHIND



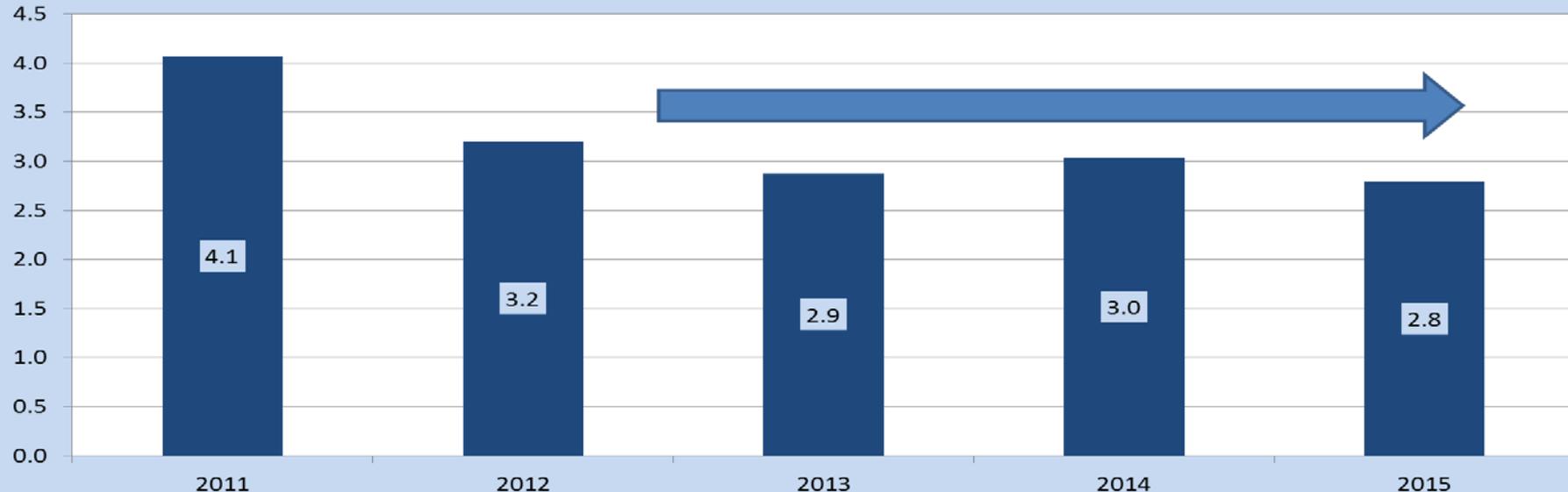
Universal Safety Oversight Programme





GLOBAL ACCIDENT RATE

NUMBER OF ACCIDENTS PER MILLION DEPARTURES



GLOBAL ACCIDENT RATE CONTINUES TO BE *STABLE*



Percentage of all Accidents*: 2015

FOR TOP HIGH-RISK OCCURRENCE CATEGORIES (RS, LOC-I, CFIT)



* Note: no CFIT accidents for SCHEDCOM in 2015



Safety Update

REGIONAL STATUS

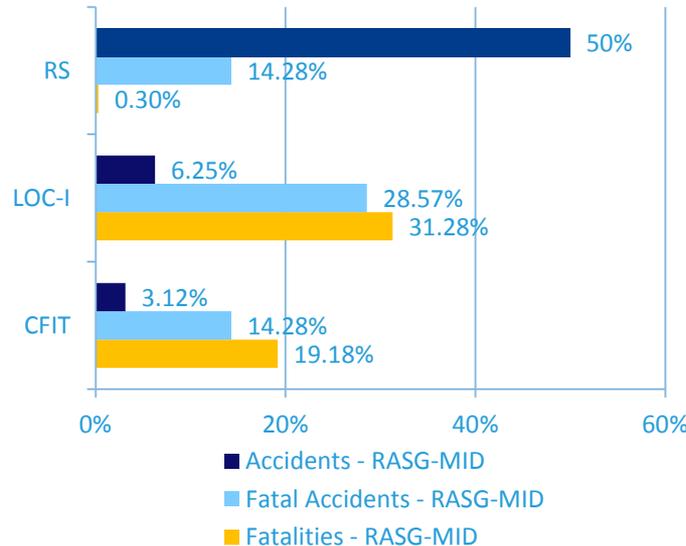




Risk Distribution for the Top 3 Safety Priorities

Scheduled commercial above 5 700kg for 2010 - 2015

RASG-MID

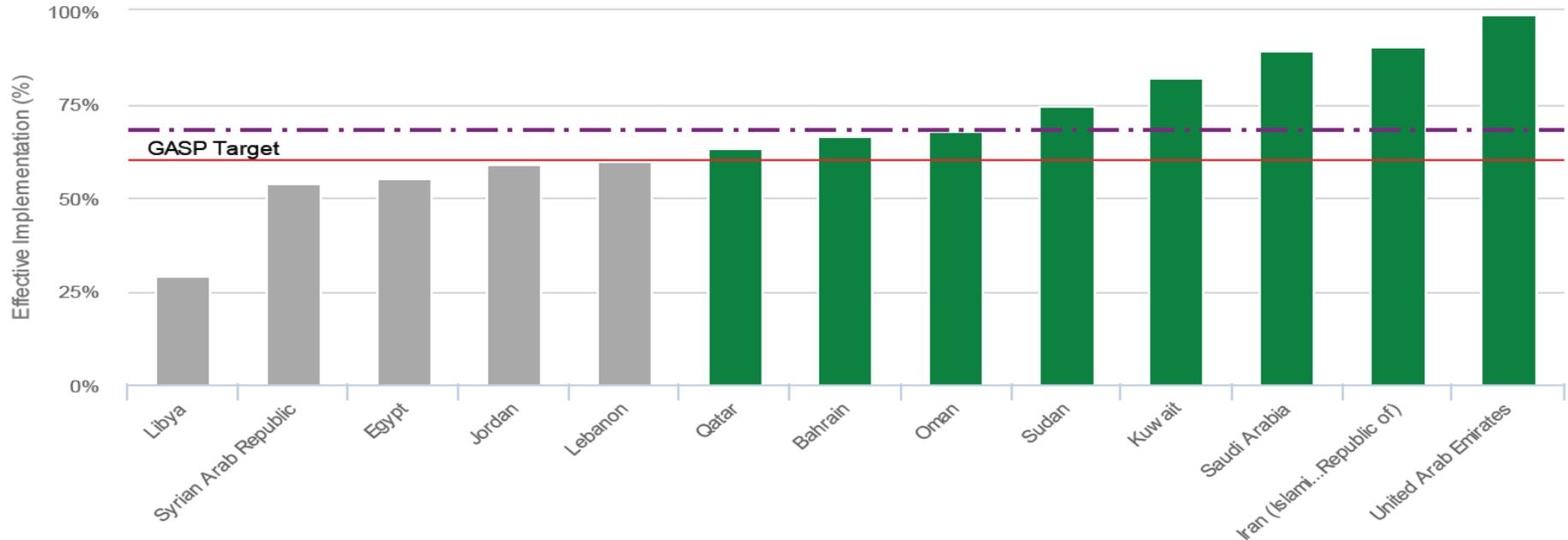


Continue focus on the Top Safety Priorities



ICAO Safety Audit Results for RASG-MID

Effective implementation of safety oversight systems by State





Global Aviation Safety Plan - Update

- No significant changes to technical content
- Simplify document to improve comprehension and usability
- GASP objectives and framework remain the same
- Clarifies expected roles of International, Regional, and National users of the GASP (Objectives, priorities, etc.)
- NCLB Initiative
- New roadmap
- Council approval and Assembly endorsement





ICAO | UNITING AVIATION

NO COUNTRY LEFT BEHIND



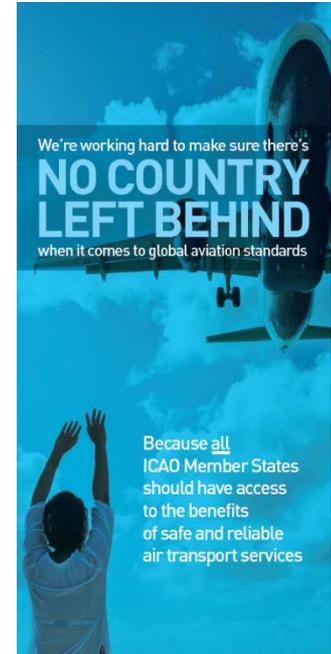
NO COUNTRY LEFT BEHIND (NCLB)





ICAO NCLB Initiative

- Reflects ICAO's current mandate and operations
- For **ALL States** and **ALL five Strategic Objectives**
- Focus on **increased State implementation** of ICAO policies, plans and SARPs and enhanced ICAO support for States with prioritised needs
- **Raise awareness** on the importance and benefits of improved global air connectivity and aviation system access for sustainable growth, development and socio-economic prosperity
 - Develops travel, trade, tourism sectors
 - Benefits employment, education, health sectors





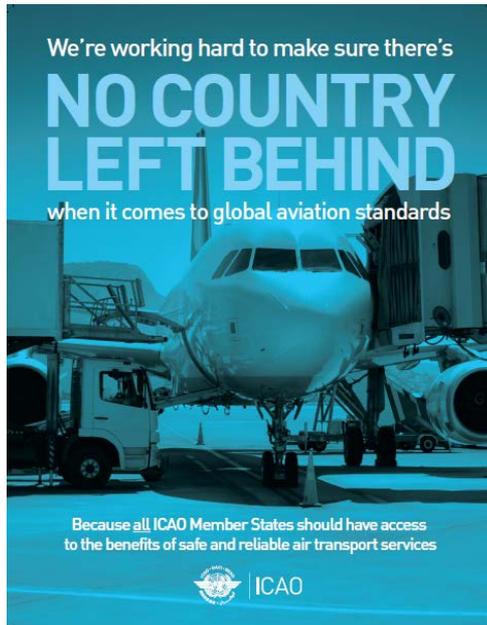
ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



NCLB Objectives

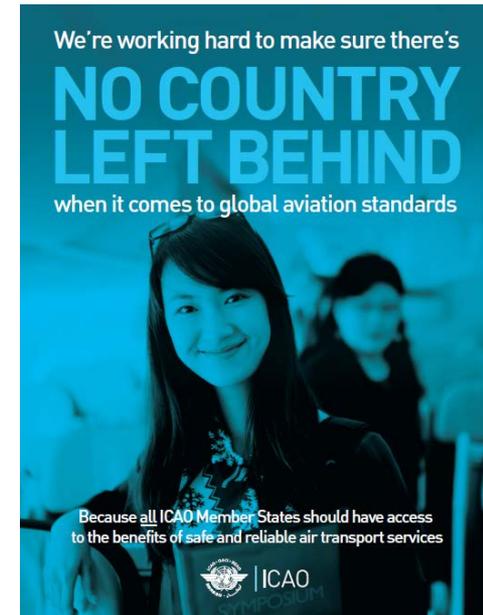


- Provide enhanced support for States in the **effective implementation** of ICAO's policies, plans and SARPs in a more coordinated, comprehensive and harmonized manner
- Promote the State **resolution** of significant safety concerns (SSCs) and significant security concerns (SSeCs) and other deficiencies



Means to Achieve NCLB Objectives

- Advocating the benefits of aviation for States at high levels of Government
- Developing implementation support tools and services
- Prioritizing assistance needs and assessing risks
- Facilitating and support implementing capacity-building initiatives
- Establishing and enhancing partnerships
- Mobilizing resources for aviation-related projects
- Recognizing progress by States





ICAO UPCOMING EVENTS

NO COUNTRY LEFT BEHIND



SAVE THE DATE!

THE ICAO WORLD AVIATION FORUM

Aviation Partnerships for Sustainable Development

23–25 November 2015, ICAO HQ, Montréal

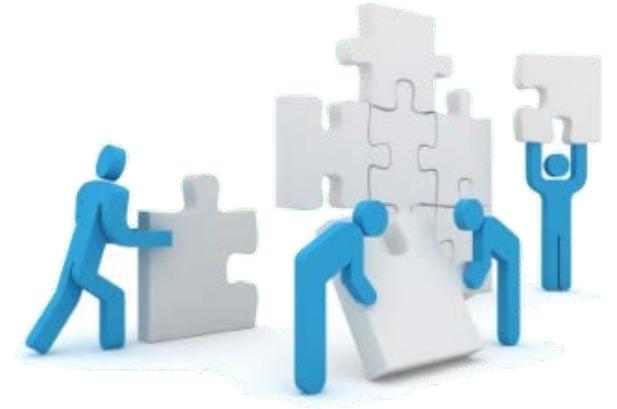


An ICAO **NO COUNTRY LEFT BEHIND** event bringing together States and the global donor/development community



New ICAO NCLB-related efforts

- ICAO contribution to achieving and measuring UN Sustainable Development Goals (SDGs)
- ICAO World Aviation Fora (IWAF)
- ICAO Resource Mobilisation Policy
- ICAO Programme for Aviation Volunteers (IPAV)
- ICAO Next Generation of Aviation Professionals (NGAP) Programme
- ICAO Council President Certificates





STATE IMPLEMENTATION & CAPACITY BUILDING

NCLB



Training & HR Development (GAT)

Technical Cooperation (TCB)

Technical Assistance

Planning & Coordination

NGAP

Funds

IPAV

Partnerships

Awareness

Support

Resources



ICAO Assistance & Cooperation Types

- Advice & Guidance, Plans of Action, Assistance Missions, PIRG/RASGs, Seminar/Workshops, Supporting RSOOs (Regional Offices)
- Guidance Material, Applications/Tools, Indicators/Metrics (ANB & ATB)
- Training (GAT)
- Projects – national and regional (TCB)
 - Deployment of experts – Advisers and OPAS Experts
 - Procurement of Consulting services and equipment
- Global coordination with partners and resource mobilization (ANB & ATB)



TECHNICAL CO-OPERATION PROGRAMME 2015

Total Programme implementation: USD 130 million

87 individual projects and 28 regional projects





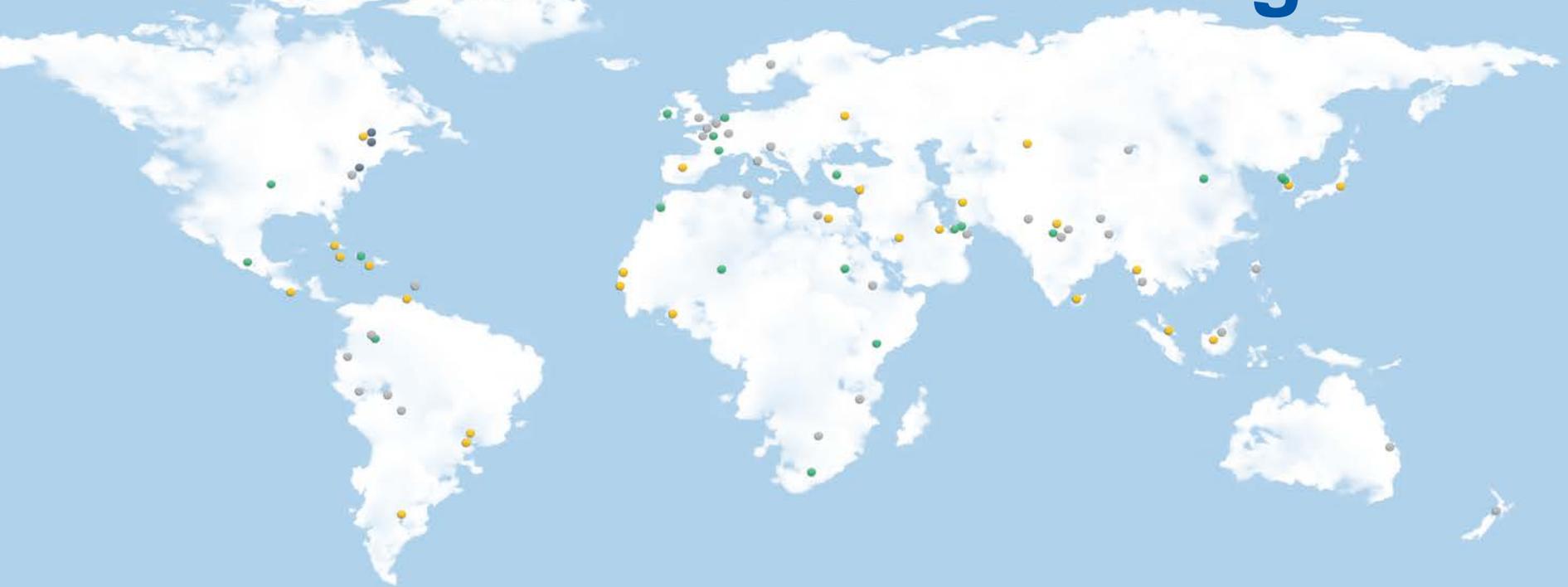
ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



Global Aviation Training



21

Regional Training Centres of Excellence

29

Full Members

39

Associate Members

3

Corporate Members



TRAINAIR Members exchanging STPs





Global Implementation Support Programmes (Safety & AN)

Runway Safety
Safety Management
LOC-I/UPRT
PBN
CAPSCA
NGAP



Regional Implementation Support Programmes (Safety & AN) - in addition to PIRGs and RASGs

NACC	SAM	WACAF	ESAF	MID	EUR/NAT	APAC
<ul style="list-style-type: none"> • ICAO PBN Go-Team • ICAO RS Go-Team • CAPSCA • RLA/09/801 	<ul style="list-style-type: none"> • ICAO PBN Go-Team • ICAO RS Go-Team • CAPSCA • SRVSOP • RLA/06/901 	<ul style="list-style-type: none"> • ICAO PBN Go-Team • ICAO RS Go-Team • CAPSCA • AFI-CIS • Africa FPP • AFI Plan • COSCAP-UEMOA • ASQA 	<ul style="list-style-type: none"> • ICAO PBN Go-Team • ICAO RS Go-Team • CAPSCA • COSCAP-SADC • AFI-CIS • Africa FPP • AFI Plan • ASQA 	<ul style="list-style-type: none"> • ICAO PBN Go-Team • ICAO RS Go-Team • CAPSCA • COSCAP-GS • MAEP (2016) • MID FPP (2016) • Future MENA RSOO & RAIO 	<ul style="list-style-type: none"> • ICAO PBN Go-Team • ICAO RS Go-Team • CAPSCA • CIS Project 	<ul style="list-style-type: none"> • ICAO PBN Go-Team • ICAO RS Go-Team • CAPSCA • COSCAP-SA • COSCAP-SEA • COSCAP-NA • APAC FPP • RSO ATM Programme




SPACE

iSTARS 2.0

iMPLEMENT



State Safety Briefing



Solution Center



CAA HR Benchmark



Economic Development Indicators



Dashboards



Regional Safety Briefing



Approach Paths



Airport Briefing

OVER 30
Applications in iSTARS / SPACE for Safety Analysis and Information

MORE THAN 2000+
Users registered in iSTARS / SPACE

www.icao.int/safety/ISTARS

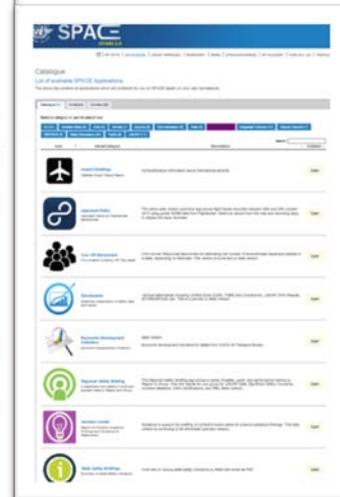


IMPLEMENT is

- An No Country Left Behind initiative
- A set of tools as decision aids for implementation
- Integrated into the iSTARS System
- Providing **relevant** and **sustainable** solutions



 State Safety Briefing (SSB)*	 Import / Export Risks*	 Solution Center*	 Civil Aviation Authority - Human Resources (CAA-HR) Toolkit
 Airport Briefing*	 Regional Briefing*	 ASBU Performance Assessment Interactive Tool (PAINT)	 Security and Facilitation
 Environment	 Training Needs Analysis (TNA)	 Global Cost Database (GCDB)*	 Enhanced State Briefing*





Evolving Safety Performance

- **iMPLEMENT** is a data-driven decision making process that:
 - produces a High-level report showing State information
 - facilitates the enhancement of a State's implementation rate by helping prioritize activities based on data
 - provides a business case for the economic and social impact of aviation development.



All stakeholders should come up with a strategy to complement NCLB



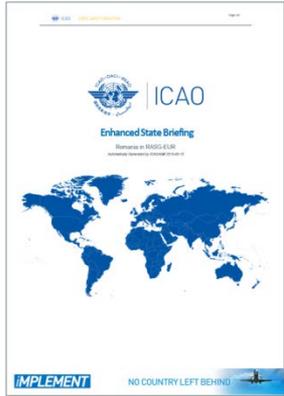
ICAO

UNITING AVIATION

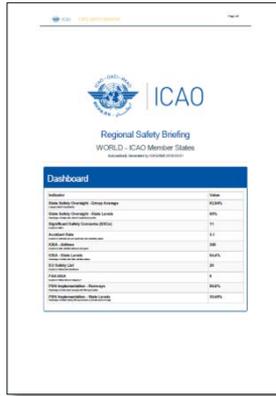
NO COUNTRY LEFT BEHIND



Executive-level Briefings



State Safety Briefing



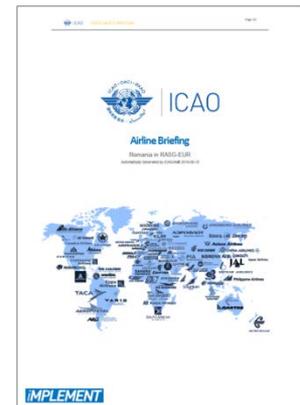
Regional Safety Briefing



Aerodrome Briefing



Airspace Briefing



Airline Briefing

Work-in-Progress

* Accessible through *iSTARS/SPACE*



Cooperation in Safety & Air Navigation

- **Aviation Safety Implementation Assistance Partnership (ASIAP)**
 - Canada, China, France, Japan, Malaysia, ROK, UK, US, ACI, Airbus, Boeing, CANSO, EASA, IATA, World Bank
- **Regional Aviation Safety Groups (RASGs) & Planning and Implementation Regional Groups (PIRGs)**
 - State CAAs & Service Providers, International and Regional Organizations, industry
- **Cooperative Development of Operational Safety and Continuing Airworthiness Programmes (COSCAPs), Regional Safety Oversight Organizations (RSOOs) & AFCAC AFI Cooperative Inspectorate Scheme (CIS)**
 - States, International and Regions Organizations, industry
- **Runway Safety Programme**
 - International Organizations



Aviation Safety Implementation Assistance Partnership (ASIAP)

- Platform for ICAO and Partners to coordinate efforts for the provision of assistance to States
- Objectives
 - information sharing; prioritization of States and assistance needs; coordination, cooperation and collaboration on assistance activities between partners
- Members
 - Canada, China, France, Japan, Malaysia, Republic of Korea, UK, US, ACI, Airbus, Boeing, CANSO, EASA, IATA, World Bank
- Priority States selected for assistance
 - Bahamas, Belarus, Cambodia, Egypt, Gabon, Guyana, Indonesia, Nepal, Tanzania, Viet Nam, and SSC States: Angola, Djibouti, Eritrea, Haiti, Kyrgyzstan, Malawi, Nepal, Thailand



Prioritization of States in Safety

- Assistance to States is prioritized by using multiple assessment variables
- Variables that increase the priority
 - State deficiencies
 - Lack of effective implementation of State safety oversight functions, SSCs
 - Risk exposure
 - Volume of aviation activity in the State
- Some variables that decrease the priority
 - Financial autonomy
 - GDP per capita of the State
 - Project risk
 - Worldwide Governance Indicator



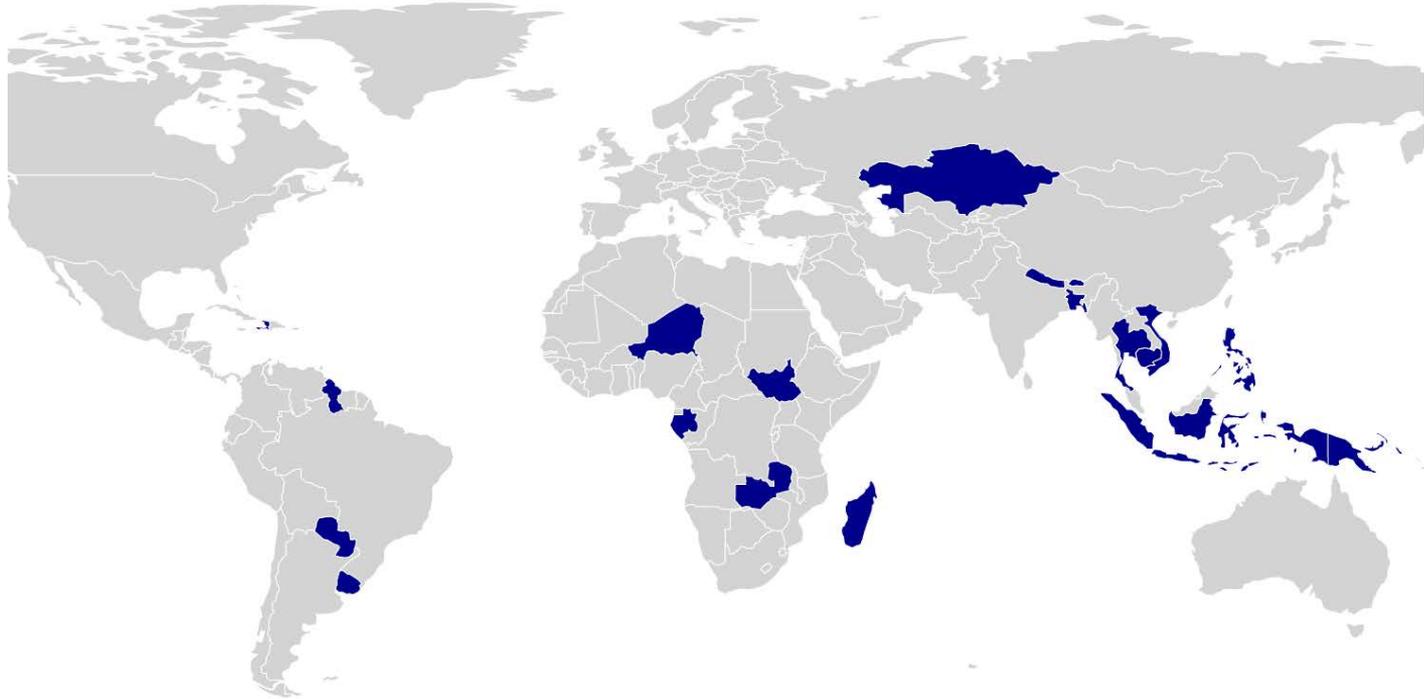


ICAO | UNITING AVIATION

NO COUNTRY LEFT BEHIND

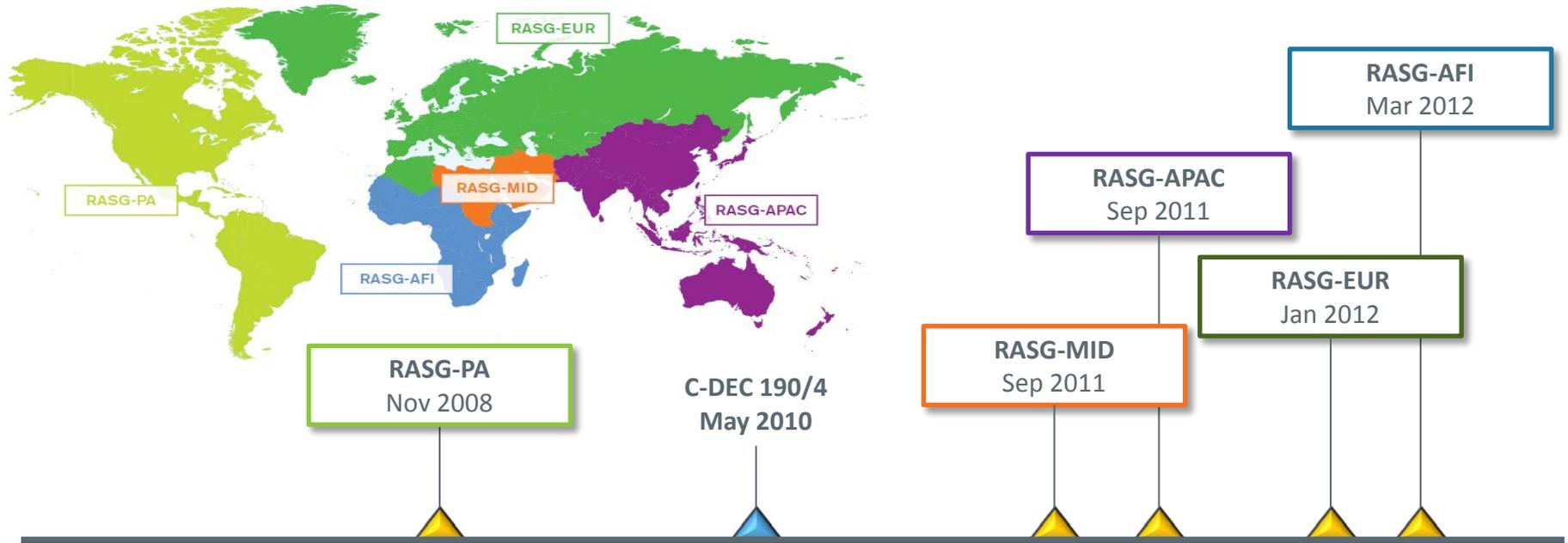


Safety Fund (SAFE) Projects





Regional Aviation Safety Groups



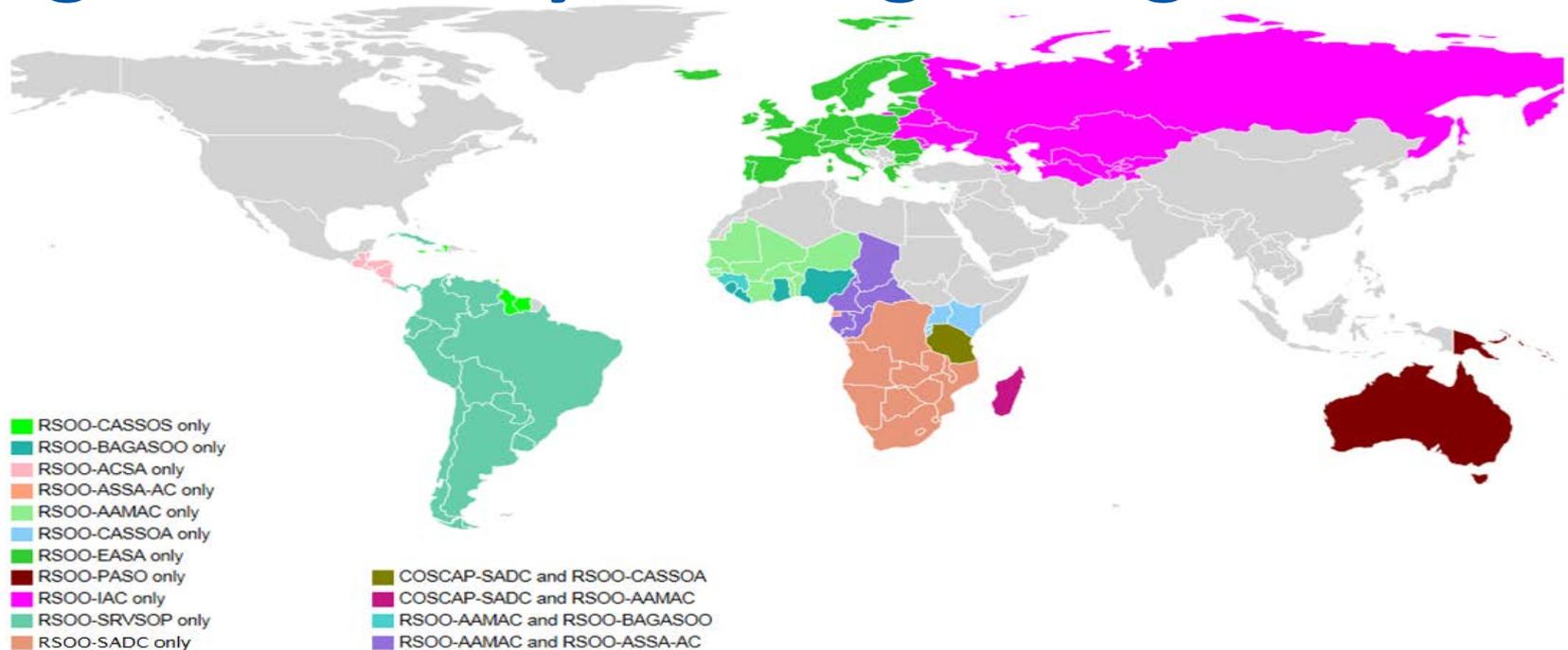


Cooperative Development of Operational Safety and Continuing Airworthiness Programmes





Regional Safety Oversight Organizations





ICAO

UNITING AVIATION



Runway Safety Programme



ICAO





Cooperation in Safety & Air Navigation

- **Safety Management Programme**
 - SMP members
- **Performance-based Navigation (PBN) Programme**
 - International Organizations
- **Collaborative Arrangement for the Prevention and Management of Public Health Events in Civil Aviation (CAPSCA Programme)**
 - International and Regional Organizations
- **Next Generation of Aviation Professionals (NGAP Programme)**
 - States CAAs & Service Providers, International Organizations, Industry & Academia
- **Comprehensive Regional Implementation Plan for Aviation Safety in Africa (AFI Plan)**
 - States, International and Regional Organizations, Development Banks





SAFETY MANAGEMENT: TIMELINES TO REMEMBER

Jul 2016

- Amendment 1 of Annex 19 is Effective
- Webinar on A19 Amendment 1 Deployment

Jul 2017

- Safety Management Manual (SMM) 4th Edition
- Computer-based Training Update on Safety Management
- Safety Management Website Update

Jan 2018

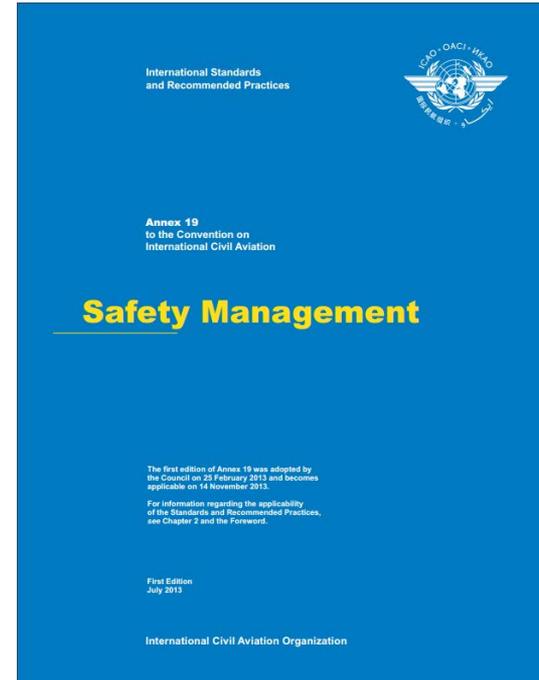
- Voluntary Audits using the new ICAO USOAP Protocol Questions
- GASP Target: All States to implement SSP by end of 2022

Early 2018

- Safety Management Regional Seminars (Until 2020)

Nov 2019

- Amendment 1 of Annex 19 is Applicable



GASP / SARPs

Guidance

Audits

TIME		2016		2017 - 2019		2020 - 2022	
SARPS	A19 SARPs	A19 <i>Today</i>	A19 Amdt 1 Effective <i>11 Jul 2016</i>			A19 Amdt 1 Applicable <i>7 Nov 2019</i>	
	GUIDANCE & TRAINING	A19	SMM 3 rd Ed SM online course <i>Today</i>	SM for Practitioners Course <i>May 2016</i>			
	A19 Amdt 1		SM online course update—phase 1 SM for Practitioners Course update Webinar <i>Jul 2016</i>	SMM 4 th Ed + website SM online course update - phase 2 SSP gap analysis tool update <i>Jul 2017</i>	SM Symposia + Regional Seminars <i>early 2018 -2020</i>		
AUDIT	A19	No SM Audits (Voluntary Assessments using current PQs)					
	A19 Amdt 1			New SSP PQs <i>Jul 2017</i>	Audits on selected States using the new SSP PQs <i>Jan 2018</i>	SM Audits using the new SSP PQs for All States <i>Jan 2020+</i>	
GASP Objectives		All States > 60% EI to implement SSP <i>by end of 2017</i>				All States implement SSP by end of 2022 <i>Jan 2018 – Dec 2022</i>	
						GASP 2020-2022 <i>NEW TARGETS?</i>	
GASP		GASP 2014-2016	A39 Endorsement GASP 2017-2019 <i>Sep 2016</i>	GASP 2017-2019	A40 Endorsement GASP 2020-2022 <i>Sep 2019</i>	GASP 2020-2022	

Jul 2016

Jul 2017

Jan 2018

Nov 2019



Industry Declaration in support of Performance-based Navigation (PBN)

We, as representatives of the air transportation community,

Affirming our joint responsibility to seek continual improvements to the safety, access, capacity, efficiency and environmental sustainability of the air transportation system,

Recognizing that Performance-based Navigation (PBN) provides a catalyst for these improvements to air traffic operations, while enabling a seamless and cost effective solution throughout the entire flight,

Recognizing the work of ICAO in formulating and publishing globally harmonized Area Navigation (RNAV) and Required Navigation Performance (RNP) provisions, now known as Performance-based Navigation (PBN),

Recalling that Resolution A36-23 of the 36th ICAO General Assembly whereby States are urged to implement PBN procedures in accordance with the established timetable,

We resolve:

To support the timetable set out by ICAO for the global implementation of PBN,

To collectively work to facilitate the implementation of PBN, and

To assist States, regions and other stakeholders in their development and execution of a complete PBN implementation plan.

We call upon:

All leaders of the civil aviation community, to fully support implementation of PBN into the air navigation system according to the ICAO provisions and established timetable.



Roberto Kobeh González, Council President



Giovanni Bisignani, Director General and CEO



Alexander ter Kuile, Secretary General



Marc Baumgartner, President & CEO



Capt. Carlos Limon, President



Donald D. Spruston, Director General



François Gayet, Chairman



Angela Gittens, Director General



Matthew S. Zuccaro, President



William R. Voss, President & CEO

PBN Partnerships

- Training
- Workshops
- Implementation support
- Promotion
- Go Teams
- Flight Procedure Programmes



PBN – Enhancing Safety



- State letter to be issued on Effective Regulatory Oversight for PBN
- Continued focus on A37-11 to implement APV's to all runways
 - Reduction on CFIT and Runway Excursion
- Guidance and assistance in establishing effective oversight for PBN Operations
 - More rigorous approval process for PBN
 - Focus on training and operating procedures to ensure safe operation
- Establishment of MID-FPP



CAPSCA Partners

ICAO - OACI - WHO

UNDP

Office for the Coordination of Humanitarian Affairs

IOM - OIM

Oie
World Organisation for Animal Health

ACI
AIRPORTS COUNCIL INTERNATIONAL

IFALPA
The Global Voice of Pilots

IATA

WFP

UNWTO
World Tourism Organization

IAEA
International Atomic Energy Agency

FAO
FIAT PANIS

CDC
CENTERS FOR DISEASE CONTROL AND PREVENTION

CAPSCA
Collaborative Arrangement for the Prevention and Management of Public Health Events in Civil Aviation



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

States / Regulatory Authorities



International Organizations



Education / Training Providers



Industry/Others





AFI Plan Partners and Stakeholders

AFI STATES



ACAC



EUROPEAN COMMISSION





ICAO | UNITING AVIATION

NO COUNTRY LEFT BEHIND



 **GACA**[®]
الهيئة العامة للطيران المدني
General Authority of Civil Aviation



Global Ministerial Conference

Riyadh - Kingdom of Saudi Arabia

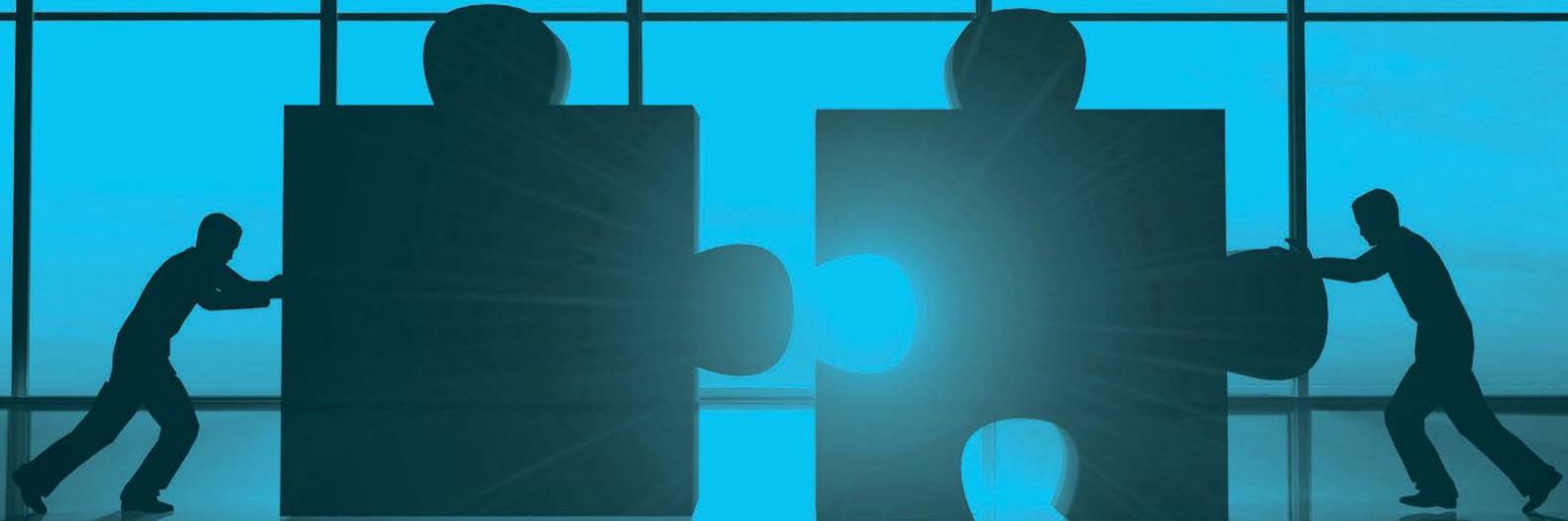
29th - 31st August 2016



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



NO COUNTRY LEFT BEHIND



ICAO NCLB Implementation

- Promoting and advising Governments on the benefits of aviation for their national aspirations and help generate the political will to support aviation improvements
- Facilitating the mobilization of resources in cooperation with States, UN system, International and regional organizations, industry, development banks, funds and other financial institutions
- Facilitating and coordinating the implementation of capacity building and improvements to cater for aviation growth and development with sustainable results
- Support, collaboration and assistance from States, international and regional organizations, industry and other stakeholders is essential to the success
- Building partnerships and pooling resources among States, international and regional organizations, development institutions and industry are essential for collaboration on and contribution to assistance and cooperation for the effective implementation by States



WORKING TOWARDS THE 39TH ASSEMBLY



Draft Resolution on NCLB



ICAO | UNITING AVIATION

NO COUNTRY LEFT BEHIND



THANK YOU!