



ICAO BANGKOK UNITING AVIATION

ICAO AIR SAFETY ACTIVITIES

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CAREC Connected Skies Workshop

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Topics

- ICAO Universal Safety Oversight Audit Program (USOAP CMA)
- CAREC States' USOAP CMA Outcomes
- ICAO Regional Aviation Safety Groups
- Considerations for CAREC States





ICAO REGIONS

APAC (Bangkok)

ESAF (Nairobi)

EUR/NAT (Paris)

MID (Cairo)

NACC (Mexico)

SAM (Lima)

WACAF (Dakar)

Afghanistan

China

Mongolia

Pakistan

Azerbaijan

Georgia

Kazakhstan

Kyrgyzstan

Tajikistan

Turkmenistan

Uzbekistan



ICAO Universal Safety Oversight Audit Program – Continuous Monitoring Approach (USOAP CMA)





- ICAO safety audits and other monitoring activities:
 - Determine safety oversight capabilities of Member States
 - Assess effective implementation of 8 critical elements in 8 audit areas
 - Verify status of Member States' implementation of
 - SARPS
 - associated procedures
 - guidance material



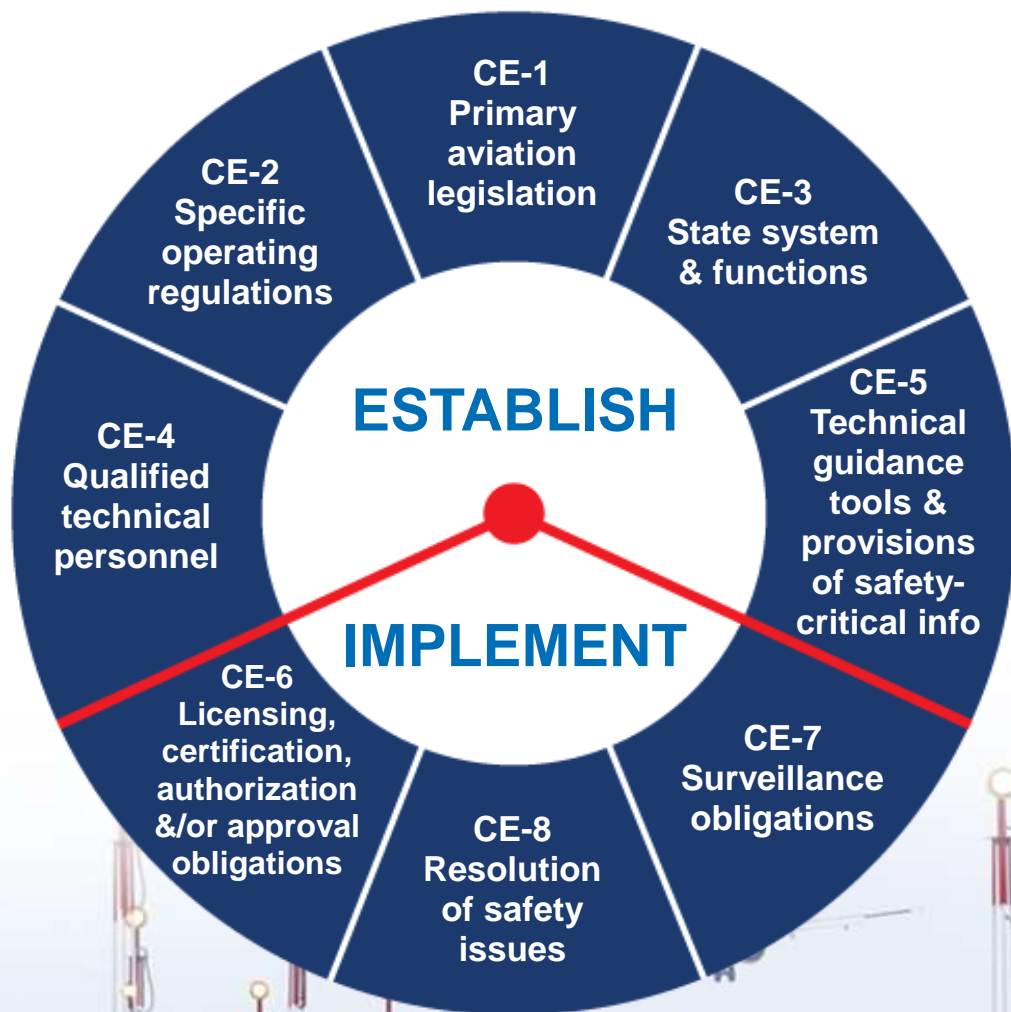
- **8 Critical Elements of a Safety Oversight System**

Definitions:

Annex 19 Safety Management Appendix 1

Guidance

Doc 9734 Safety Oversight Manual Part A -





USOAP CMA Audit Areas

Primary aviation legislation and civil aviation regulations (LEG)

Civil aviation organization (ORG)

Personnel licensing and training (PEL)
Annexes 1 and 19

Aircraft operations (OPS)
Annexes 6, 9, 18, 19 and PANS-OPS

Airworthiness of aircraft (AIR)
Annexes 6, 7, 8, 16 and 19

Aircraft accident and incident investigation (AIG)
Annexes 13 and 19

Air navigation services (ANS)
Annexes 2, 3, 4, 5, 10, 11, 12, 15, 19 and PANS-ATM

Aerodromes and ground aids (AGA)
Annexes 14 and 19

PQ No.	Protocol Question	Guidance for Review of Evidence	ICAO References	CE
4.129	Has the State promulgated regulations for AOC applicants to establish procedures to ensure that the flight manual is updated by implementing changes made mandatory or approved by the State or approved by the State Registry?	Verify the establishment and implementation of: <ul style="list-style-type: none"> a) relevant State regulations; b) applicable certification procedures; c) other applicable procedures. 	STD A6 Part I, 1.1.1 Part III, 3.4 r) II, 9.1 GM 1 A6 ICAO References Part III, Att. E, 3.4 r) & 6	CE-2
4.103	Is the organizational structure of an AOC applicant reviewed to ensure that: <ul style="list-style-type: none"> a) duties, responsibilities and authorities are clearly defined, and b) functional reporting are clearly delineated and duly 	1) Verify that applicable operations inspectors' guidance material, manuals, etc. have been developed and letters with the applicant. 3) Verify that the safety	STD A6 Part I, 4.2.1.3 Part III, Section II, 2.2.1.3 GM 1 Part II, C2 Part III, C5	CE-6

PQ asked by auditor

Examples of evidence to be presented by State

ICAO References

CE number associated with PQ

EXAMPLE PROTOCOL QUESTIONS



Safety oversight information is available

- ICAO public website:



ICAO / Safety / Safety Audit Results: USOAP interactive viewer

Safety Audit Information

USOAP Results Report: 2013-2016

About CMA

USOAP CMA Flyer

Frequently Asked Questions

USOAP CMA Computer-based Training

CMA News

USOAP recertified to ISO 9001:2008

Archive

ICAO Journal Article on CMA

HLSC Presentation

Newsletter

Other Useful Websites

ISTARS - restricted

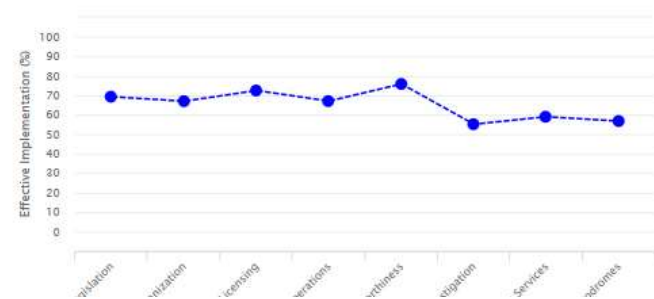
USOAP CMA Online Framework - restricted

Contact USOAP CMA

Safety Audit Results: USOAP interactive viewer

Please select a country from the list below the viewer to see its audit 'Effective Implementation' (EI) score presented for the various categories covered under ICAO's Universal Safety Oversight Audit Programme (USOAP). Multiple countries may be selected at once to compare their respective performance, and users may also compare a country or countries against the current global average in each category.

Developers may also wish to consider accessing the EI data via the [iSTARS API Data Service](#).



- <http://www.icao.int/safety/Pages/USOAP-Results.aspx>



- **Global Aviation Safety Plan**

- Global Aviation Safety Roadmap

- 3 Phases

1. Effective Oversight
2. State Safety Programme
3. Predictive Risk Management



ICAO

Doc 10004

Global Aviation Safety Plan

2017-2019



Approved by and published under the authority of the Secretary General

INTERNATIONAL CIVIL AVIATION ORGANIZATION



1. Effective safety oversight

RASGs and other fora:
mechanisms for
sharing of safety
information

States with EI > 60%:
SSP implementation

All States:
achieve 60% EI of CEs

2017
(near term)

2. SSP implementation

RASGs:
mature regional
monitoring and
safety management
programmes

All States:
SSP implementation

2022
(mid term)

3. Predictive risk management

All States:
implement advanced
safety oversight
systems, including
predictive risk
management

2028
(long term)





CAREC States' Effective Implementation

States above 60% EI

80%

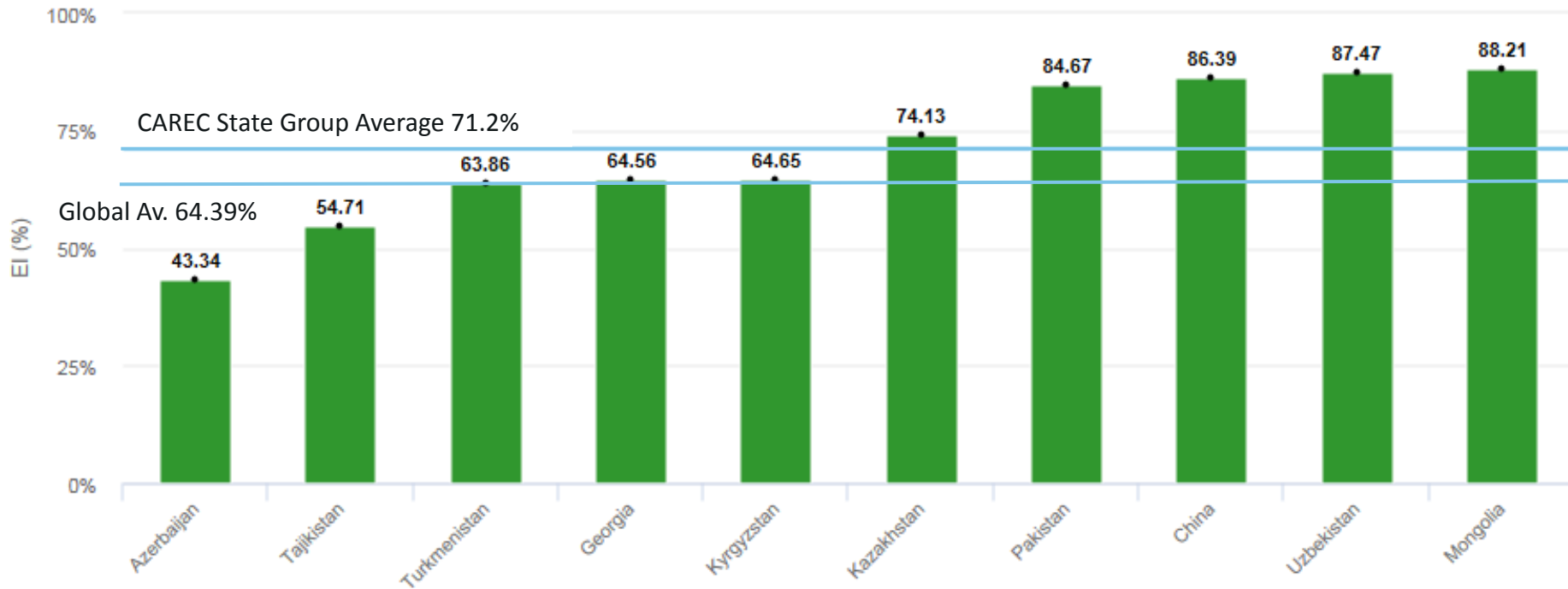
Show Overall EI sorted Ascending

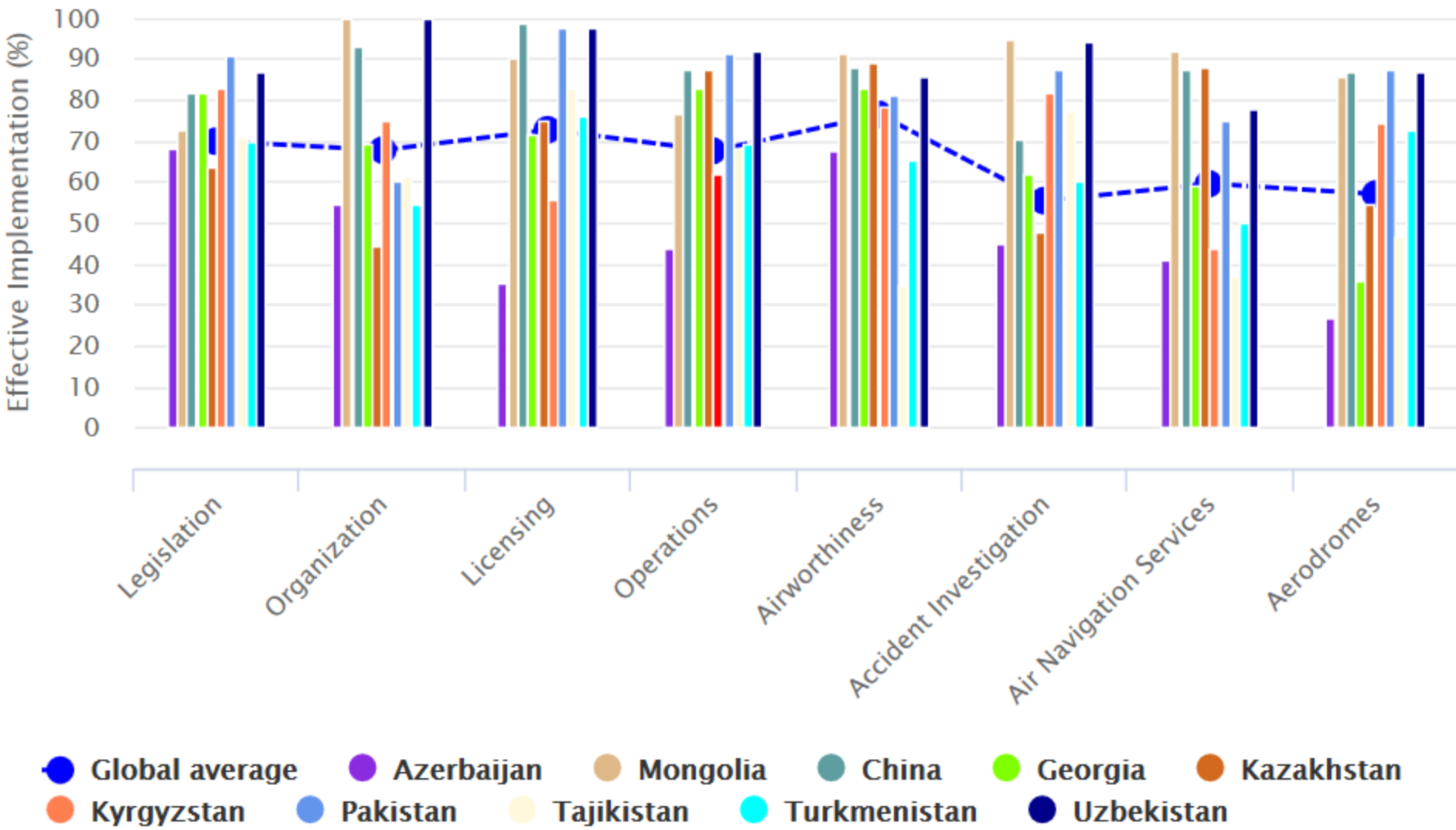
Show State names

Show values

Overall EI by State

CAREC







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information

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SSP implementation

All States:
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Show Overall EI sorted Ascending

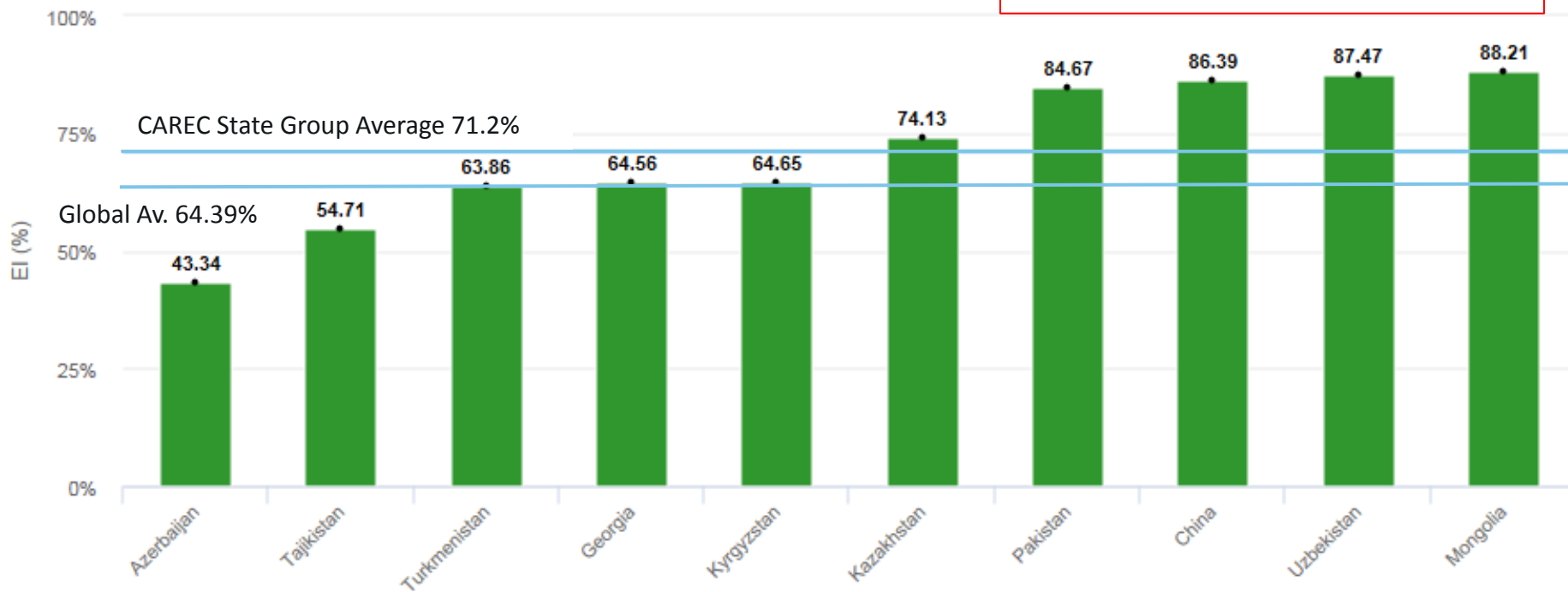
Show State names

Show values

Caution:
Some States have experienced a reduction in overall EI at subsequent audits.

Overall EI by State

CAREC





Regional Aviation Safety Groups

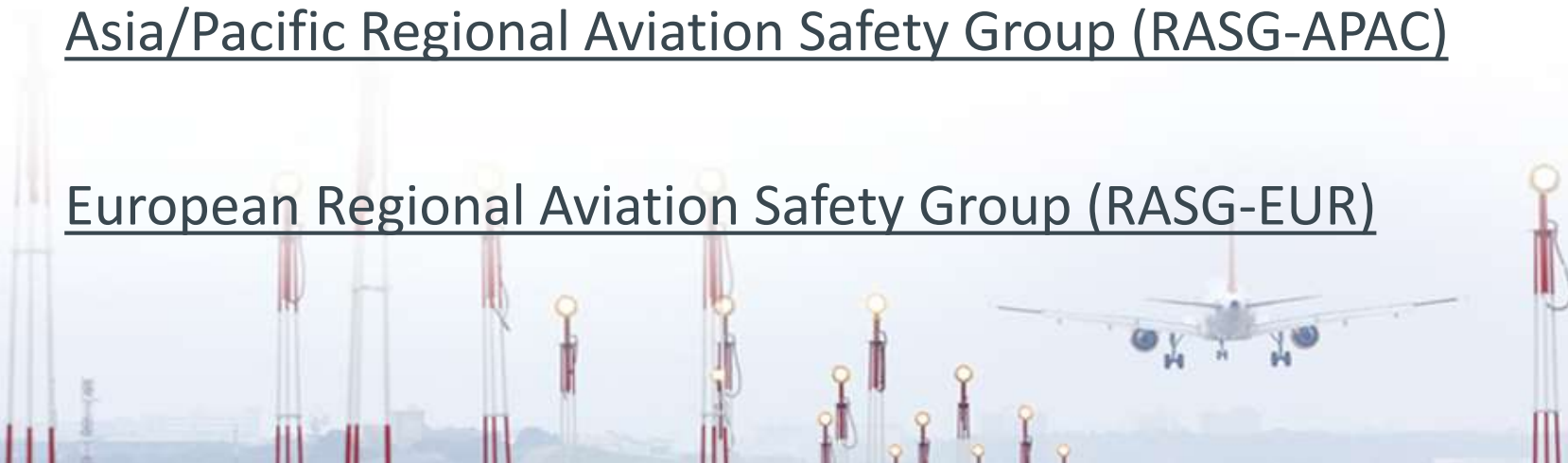




- Regional Aviation Safety Groups
 - Support the implementation of the ICAO Global Aviation Safety Plan (GASP) and the Global Aviation Safety Roadmap.

Asia/Pacific Regional Aviation Safety Group (RASG-APAC)

European Regional Aviation Safety Group (RASG-EUR)





- **Regional Aviation Safety Groups**
 - RASGs serve as a regional cooperative forum to enhance aviation safety
 - Develop and implement work programmes
 - Build on the work already done by States and sub-regional organizations
 - Support the establishment and operation of a performance-based safety system for the region.
 - RASG meeting reports regularly reviewed by the ANC, and by the Council as deemed necessary.





Considerations for CAREC States





- Engagement with RASGs
- Champion States
 - CAREC includes several States that may be able to cooperatively assist other CAREC States
 - ICAO Regional Offices may assist in identification of other States that may provide assistance
- ICAO Technical Cooperation Bureau
 - Support implementation projects





QUESTIONS?





ICAO

North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU

Aviation is safe because it has the culture to learn and react