



**SMS
implementation
Challenges from
CANSO
Perspective
22/05/17
Gaborone**

Civil Air Navigation Services Organization (CANSO)

- Global voice of ATM worldwide – CANSO Members support over 85% of world air traffic
- Members share information and develop new policies
- International forum for development and exchange of ideas
- International network for ANS experts
- Represent views/interests of Members



CANSO Standing Committees



Safety Standing Committee



Operations Standing Committee



Policy Standing Committee

Safety Standing Committee (SSC)

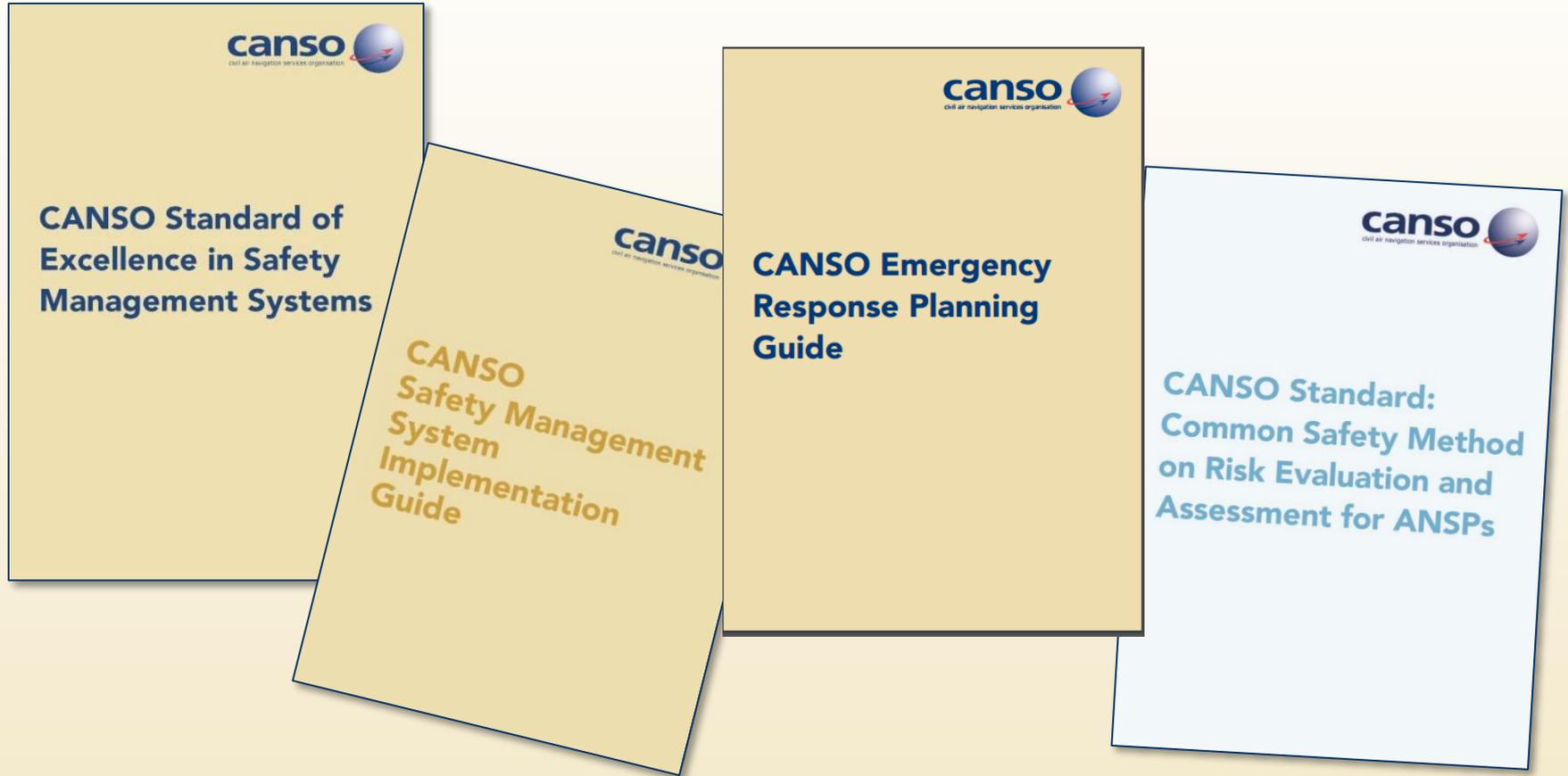
- Develops and executes safety work programme
- Governed by Steering Committee
- Workgroups
 - SMS Capability Workgroup
 - Safety Performance Measurement Workgroup
 - Future SMS Development Workgroup
 - *Human Performance Management Taskforce*

Vision 2020 – Safety Accomplishments

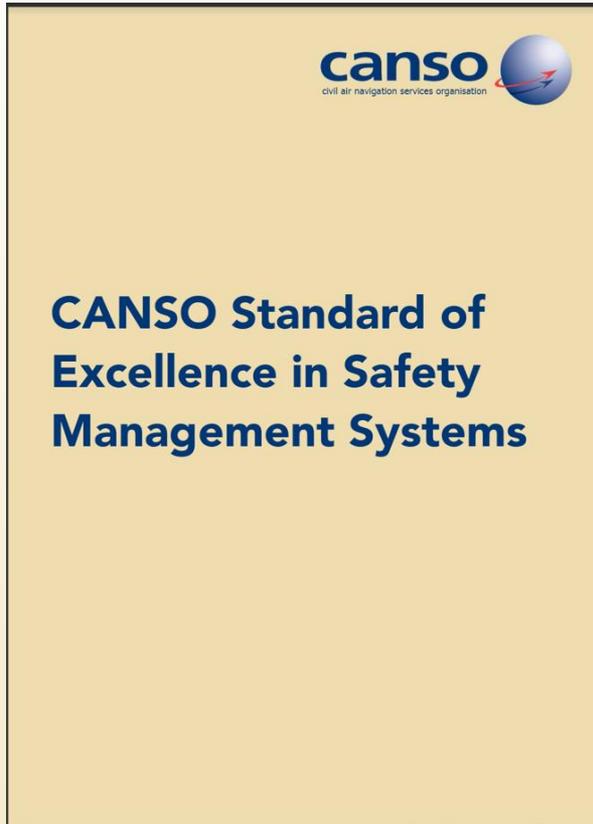


- *Vision 2020 Major Accomplishments*
 - Annual Global ATM Safety Conference
 - ICAO/CANSO Partnership – Fatigue Risk Management, Safety Management (Annex 19)
 - Runway Safety Checklist
 - Unstable Approach Manual
 - Human Performance Management Task Force
 - Standard of Excellence in Safety Management Systems (SMS)
 - EUROCONTROL/CANSO SMS Maturity Survey
 - Annual Safety Performance Benchmarking Report
 - ANSP Peer Review Mechanism by all CANSO members and more
 - SEANS--Safety
 - Just Culture Guidelines

CANSO Safety Products

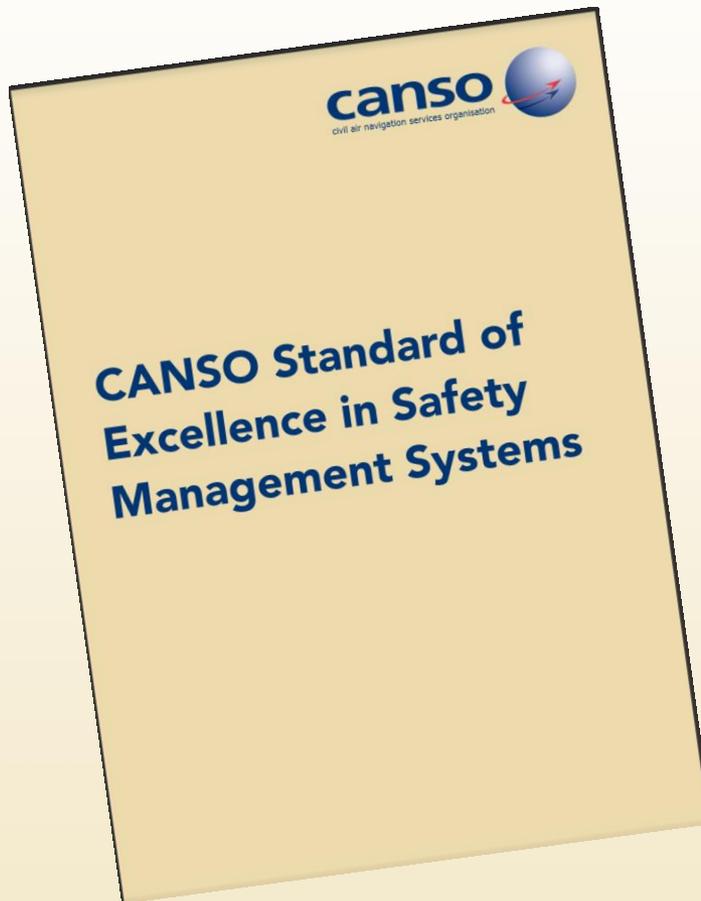


CANSO Standard of Excellence in SMS



The ***CANSO Standard of Excellence in Safety Management Systems*** provides a framework for the implementation and maturity of an appropriate SMS and serves as means through which ANSPs can comply with the requirements contained in ICAO Annex 19 – Safety Management

SEANS-Safety



Standard of Excellence in Air Navigation Services – Safety (SEANS-Safety) provides an independent expert assessment of an ANSP's SMS Maturity Level

Assessments are based on the ***CANSO Standard of Excellence in SMS***, Aligned with ICAO Annex 19 – Safety Management

Workshops/Seminars in the AFI region

- **Organized the Effective safety oversight workshop** which was delivered by FAA and hosted by Zambia Airports in collaboration with Zambia CAA
- Safety Risk assessment workshop partnership with FAA (Ghana CAA)
- Conducted a SEANS SMS Review on the ATNS SMS in January 2017 (ATNS)

Workshops/Seminars in the AFI region

- Facilitated the implementation of four peer groups under the ANSP Peer review program using the CANSO SoE

Africa Peer Review Tools



We recommend that ANSPs use the ***EUROCONTROL/CANSO SMS Maturity Questionnaire*** based on the ***CANSO SoE in SMS*** to conduct the review

Achieving Level C ensures that the ANSP has met the requirements of ***ICAO Annex 19 – Safety Management***

Peer review teams using CANSO documents

- **Team 1:** ASECNA, ATNS, Botswana CAA, Swaziland CAA
- **Team 2:** Uganda CAA, Tanzania CAA, Burundi CAA, Rwanda CAA and Kenya CAA
- **Team 3:** NAMA, GCAA, Roberts FIR
- **Team 4 :** Mozambique Airports, Malawi, Madagascar, Zimbabwe CAA, Zambia Airports
- **Team 5 :** Morocco CAA, Tunisia, Algeria

Challenges

- **The set duration for the exercise was inadequate.**
- **Logistical and Commitment challenges-**
- **Accumulated fatigue of experts.**
- **Confidentiality concerns. –**
- **Staff experience and empowerment.**
- **Translation limitations.**
- **Sequence and phrasing of some questions. –**

Challenges

- Variance of CANSO SoE framework with ICAO framework.
- Different standards and interpretations of SMS implementation

Overall Challenges

- Old technology and Unserviceable systems
- High maintenance personnel turnover
- poor training resulting in insufficient surveillance and communication systems
- No or limited situational awareness in African airspace
- Insufficient ways of collecting over-flight charges resulting in no funds available for expansion

Overall Challenges

- Sovereignty issues still remain a stumbling block in ensuring a seamless airspace
- The sustainability of airlines
- Improve cyber security awareness among ANSPs in Africa
- working with ICAO

CANSO Safety Performance Benchmarking

- We also recommend Participating in the CANSO Safety Performance Benchmarking process as this will provide an opportunity to exchange safety information in an confidential, secure and private environment.

Benefits of Participation

- **Flexibility** in participation:
 - Provide basic through detailed data
 - All or some of the measures (IFR-IFR LOS, RI and/or SMS Maturity)
 - De-identified versus identified
- **Confidential, secure and private** way to participate in safety performance benchmarking
- Opportunity to reach out to other ANSPs to **share and learn from each other** in an environment that is non-judgmental with only goal being to support ANSPs in their efforts to improve safety performance

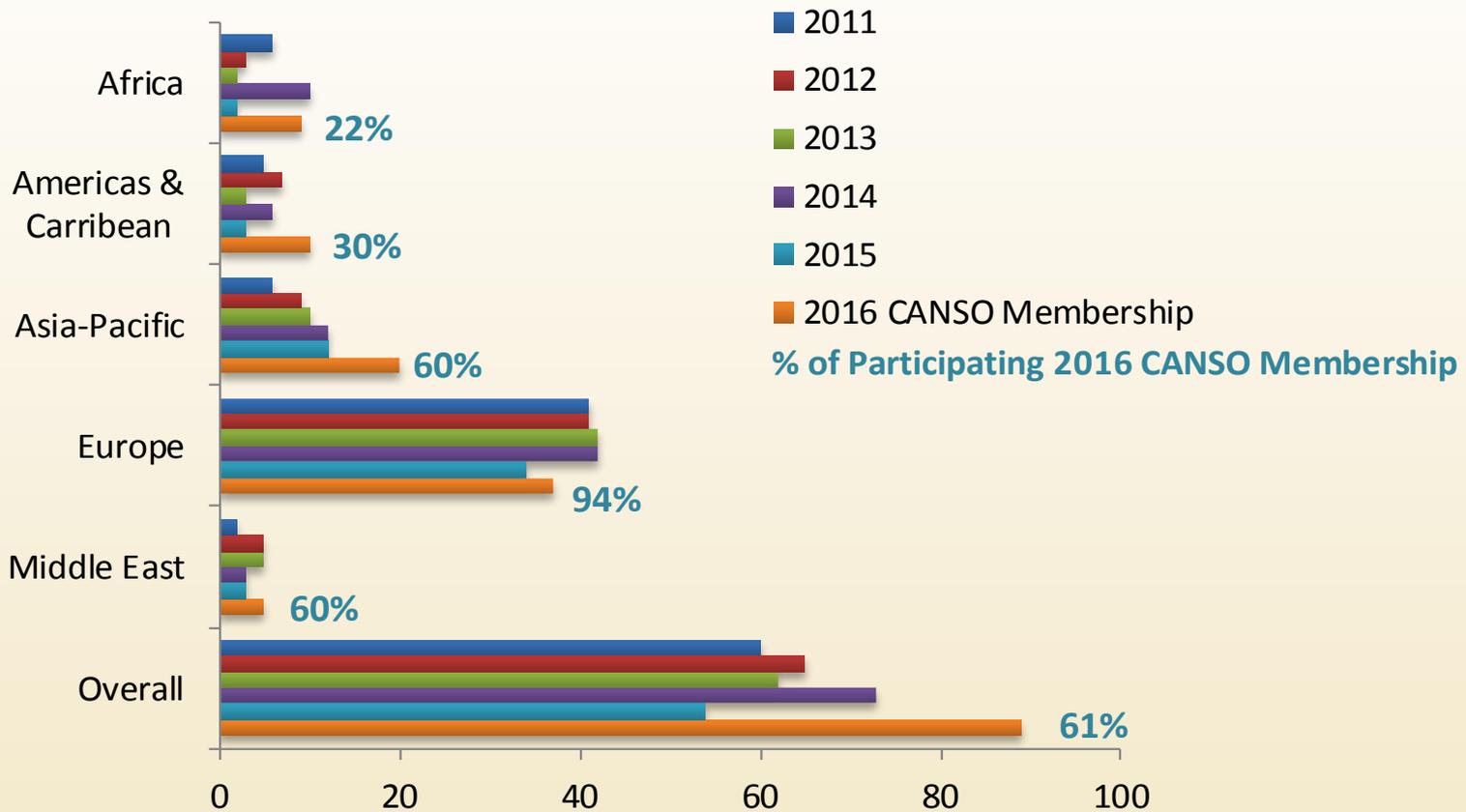


Safety Performance Benchmarking

- The Safety Performance Measurement Workgroup has been collecting ANSP Member data for **12 years**, including IFR-IFR loss of separation and runway incursion data since 2008.
- Participation in benchmarking and reporting processes has steadily increased, and our data analysis techniques have become smarter, providing **ever greater benefits** to participating CANSO Members.



Rates of Participation



conclusion

Based on the learnings above, the following is also necessary:

- Training in Just culture.
- Training in SMS
- Measurement of safety culture to be done on an ad-hoc basis.