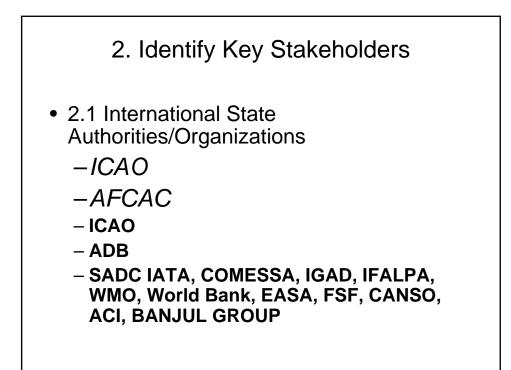
GASR Process

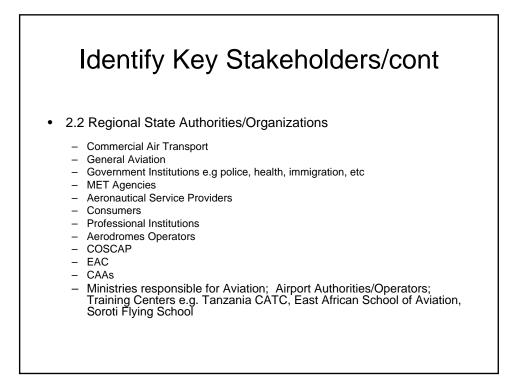
Workshop: Global Aviation Safety Roadmap Implementation

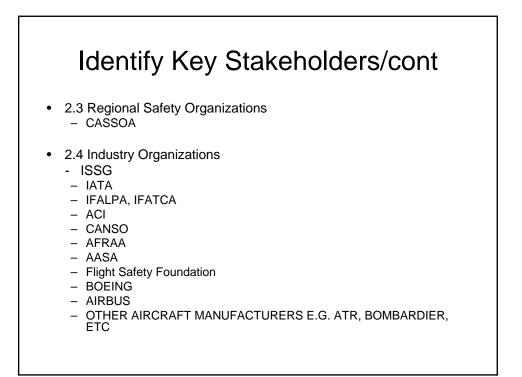
Guide for Workgroups

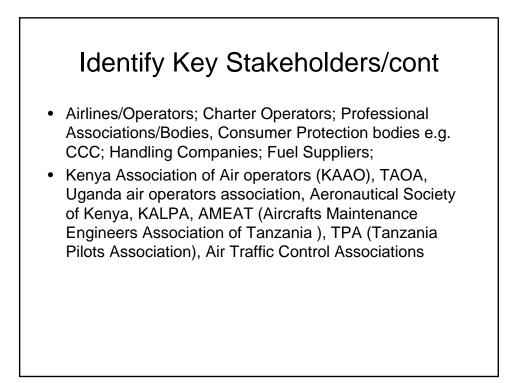
1. Select Region for Analysis

- 1.0 Regional Scope
 - Countries included in the region:
 - Kenya
 - Burundi
 - Tanzania
 - Uganda
 - Rwanda
 - INVITED STATES (ETHIOPIA & SEYCHELLES)









3. Outline Strengths and Enablers 3.1 Regional Strengths Strong Legacy Carriers, Category 1 countries Kenya Airways _ Precisionair Air Uganda Rwanda Air Express Air Burundi Air Tanzania Other Airiness in the neighboring states e.g. Ethiopian Airlines General Aviation (Active in all five States) 3.2 International Enablers ICAO AFCAC AU World Bank ΕU USA Government - Safe Skies for Africa Programme (DOT) and Technical Assistance (FAA) ADB AFRAA BILATERAL AGREEMENTS AND DONOR AGENCIES OTHER DONOR STATES

3. Outline Strengths and Enablers/cont

- 3.3 Regional Enablers
 - Regional Conventions, Treaties
 - EAC
 - SADCC
 - COMESA
 - IGAD
 - Regional Training Centers
 - YD
 - AU
 - ECAS
 - UNECA

3. Outline Strengths and Enablers/cont

- 3.4 Industry Enablers
 - IATA Partnership for Safety Initiative, Manufacturer's support
 - IATA
 - IOSA Certification
 - IFALPA
 - ACI
 - IFATCA
 - BOEING
 - AIRBUS
 - ATR
 - BOMBARDIER
 - OTHER AIRCRAFT MANUFACTURERS
 - Civil Aviation Training Schools in EA

- 4.1 States
- 4.1.1. Regulatory Environment-Aviation Laws and Regulations
- The laws and Regulations have been harmonized within three East African Partner states. The process is underway to include Burundi and Rwanda.
 - 4.1.1.1 Existing Risks
 - Political interference
 - Consumer expectations.
 - Public perception
 - State Bureaucracy
 - Incompatibility of government policies
 - Autonomy of CAAs and service providers (e.g. ANS) being part of the CAAs
 - Weak aviation laws and regulations and enforcement
 - Lack of sufficient financial resources
 - Inability to comply with implementation of the harmonised regulations
 - Non domestication of CAR by some member States
 - 4.1.1.2 Emerging Risks
 - Different levels of adherence by stakeholders
 - Fear of loss of sovereignty
 Labour movements
 - Labour movements
 Insufficient Regulatory Training

4. Identify Existing and Emerging Risks/cont

- 4.1.2 Regulatory Oversight
 - 4.1.2.1 Existing Risks
 - Limited availability of qualified personnel for safety oversight
 - · Inadequate facilities to carry out oversight works
 - Insufficient regulatory oversight in certification of operations, airworthiness, meteorological services, personnel licensing, AMOs, ANS, aerodromes, etc
 - 4.1.2.2 Emerging Risks
 - Level 2 of maturity level: The capacity is still low (e.g. personnel, funding, resources, facilities)
 - - Insufficient Regulatory Training
 - · Forced retirements and brain drain

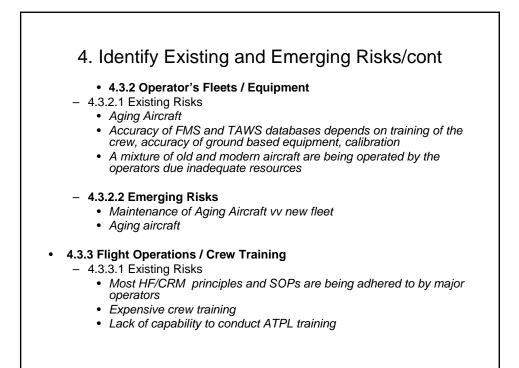
- 4.1.3 Unique States Considerations
 - 4.1.3.1 Existing Risks
 - Higher altitude e.g. Rwanda, Mountains e.g. Kenya, Tanzania and bush aerodromes
 - ATC in the region unreliable in some areas
 - Aerodromes and airstrips that are not attended
 - Inadequate resources to carry out oversight functions
 - 4.1.3.2 Emerging Risks
 - Modern technologies
 - Tourism Growing while infrastructure remain the same
 - Insufficient efforts are put in place to provide the required resources

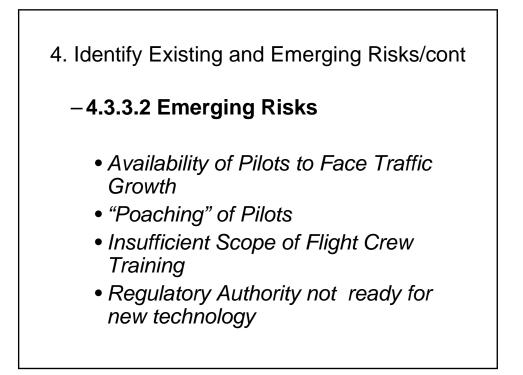
<section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

- 4.2.2.2 Most Frequent Types of Events
 - CFIT
 - Flying in bad weather
 - Unreported incidents
- 4.2.3 Emerging Risks
 - 4.2.3.1 Availability of adequate qualified staff for accidents investigations and SAREX

4. Identify Existing and Emerging Risks 4.3 Industry 4.3.1 Operator's Organization / Business Practices 4.3.1.1 Existing Risks Implementation at different levels of SMS Majority of fleets in East Africa is old Safety Leadership & Management by Operators Resistance to Change Safety Culture Major airlines in the region are playing the role of safety leadership and management, others air operators are gradually working to achieve the same goal Multiplicity of aircraft types. 4.3.1.2 Emerging Risks Difficult in management of aircraft transfers (e.g. Maintenance Records) Startups/LCCs Initial and Consistency in Compliance with AOC requirements. Management of Aircraft Transfers Flags of convenience

- SIT and STAS have been developed to accommodate the increasing traffic movements in some states, skilled personnel not available in right quantity but efforts have been put in place for continuous training programme, lack of start-up capital to acquire modern aircrafts by some AC carriers in the region
- Management of aircraft transfer There is proper adherence to the conditions stipulated in the CAR for the documentation and issuance of C of A the transferred aircraft





4. Identify Existing and Emerging Risks

• 4.3 Industry (Continued)

- 4.3.4 Maintenance / Training
 - 4.3.4.1 Existing Risks
 - Attrition of Mechanics/Technicians/Engineers
 - · Quality of Maintenance Records in small companies is poor
 - Inadequate training facilities
 - Insufficient number of mechanics
 - Insufficient maintenance capability
 - The available quality maintenance records are yet to meet the required standards
 - Lack of succession planning
 - 4.3.4.2 Emerging Risks
 - Availability of Trained and Qualified Personnel to Face Growth
 - · Inadequate qualified mechanics to meet demand of the industry
 - Little investment on maintenance facilities
 - The private sector is not encouraged to invest in AMOs

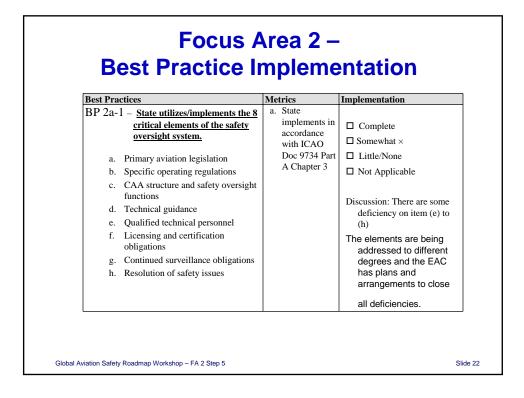
4. Identify Existing and Emerging Risks/cont

- 4.3.5 Infrastructure / Airports, Navaids, ATC
 - 4.3.5.1 Existing Risks
 - Airport Infrastructure is poor state and inadequate:
 - Poor Navaids / ATM / ATC Infrastructures
 - Most of the infrastructure /Airports, Navaids, ATC lack regular maintenance and upgrading

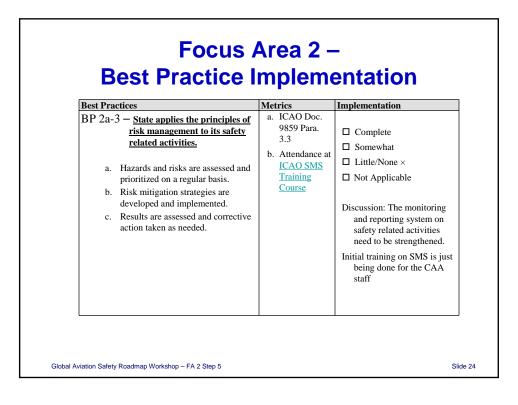
- 4.3.5.2 Emerging Risks

- Unable to cope up with the increasing traffic
- · Low priority of investing in air transport infrastructure
- Growth and Fuel Costs / Inadequate navaids & ATC procedures

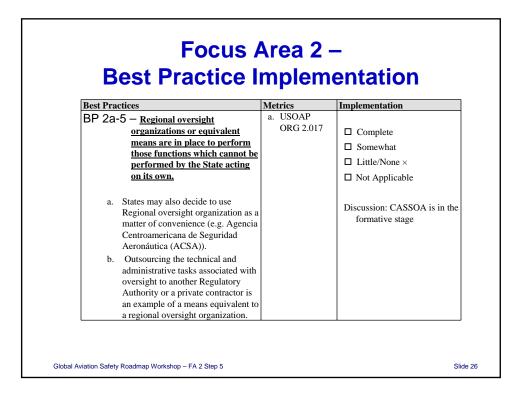
- 4.3.6 Unique Industry Considerations
 - 4.3.6.1 Existing Risks
 - Civil/military coordination
 - Third party infrastructure
 - · Inter-modal issues
 - · Competing national priorities
 - 4.3.6.2 Emerging Risks
 - Increased fuel costs
 - Climate changes
 - Epidemics



	•	entation
Best Practices BP 2a-2 – <u>State provides a mechanism</u>	Metrics a. USOAP	Implementation
for sufficient funding of safety oversight activities.	ORG 2.051	 Complete Somewhat × Little/None Not Applicable Discussion: Funds generated by Regulatory bodies are insufficient to meet safet oversight activities.

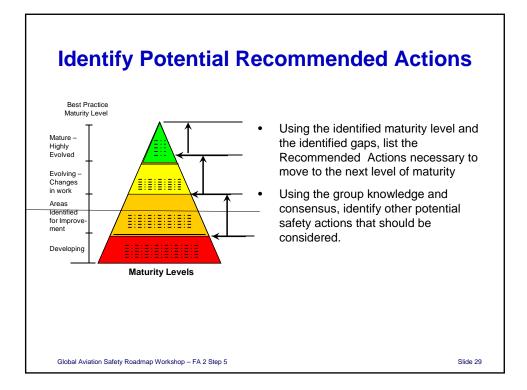


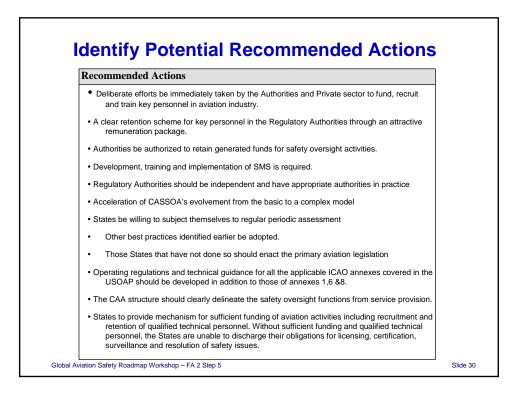
Best Practices	Metrics	Implementation
 BP 2a-4 – <u>The Regulatory Authority acts</u> <u>independently where safety</u> <u>issues are implicated in its</u> <u>actions</u>. a. The individuals responsible for such action must be given appropriate authority to exercise their responsibilities. b. Accountability for the exercise of regulatory authority must be in accordance with the principles of a "just culture" (see Objective 3a for a discussion of "just culture"). 	 a. USOAP LEG 1.109; USOAP LEG 1.111 b. Annex 13 Attachment E; i.e. USOAP AIG 6.505 	 Complete Somewhat × Little/None Not Applicable Discussion: the CAAs has the appropriate authority but the problem is to oversight the implementation. We need to cultivate the just culture i.e. have in place syste of non punitive reporting of safety issues (Regulators, Operators and Industry as a whole) 'Just culture' and SMS is still in it infancy. Enlightenment of the top policy makers/managers is necessary

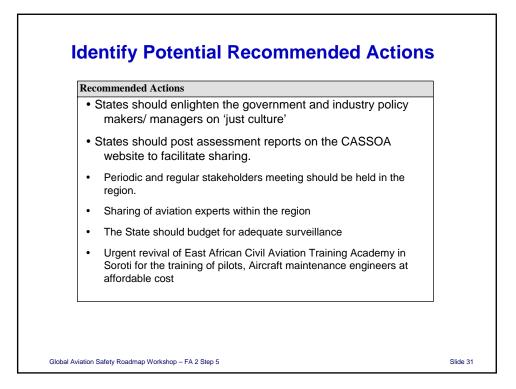


Best Practices	Met		Implementation
BP 2a-6 – <u>Periodic assessments are</u> <u>conducted.</u>	b.	FSIX - ICAO Doc. 9735 Para 6.1.1e Structures exist and are utilized to facilitate the sharing of the results of periodic assessments	 Complete Somewhat × Little/None Not Applicable Discussion: 1. External periodic assessment e.g. ICAO are done. Air operators are periodical audited. There is no structure to facilitate sharing of assessments information

Other Best Practices					
Best Practices	Metrics	Implementation			
Other Best Practices					
O There should be designation of duties to		Complete			
officers outside Regulatory Authorities		□ Somewhat			
Autonites		\Box Little/None ×			
O Make use of outside Regulatory		□ Not Applicable			
Authorities to perform					
oversight duties		Discussion: it is suggested			
O There should be joint strategies in		that the four added best practices be considered			
sourcing funds for oversight		seriously in order to			
activities particularly on		improve the regulatory			
training personnel		oversight in the region.			
O There should be a commitment to					
implement all regional plans					
Regular consultation meetings with					
stakeholders					







Prioritize the Recommended Actions Using the Impact-Changeability Level as a Guide

Reco	ommended Action	Impact	Change- ability	IC Level	Selected Priority
1.	Deliberate efforts be immediately taken by the Authorities and Private sector to fund, recruit and train key personnel in aviation industry.	3	2	P2	2
2.	A clear retention scheme for key personnel in the Regulatory Authorities through an attractive remuneration package.	3	3	P1	1
3.	Authorities be authorized to retain generated funds for safety oversight activities.	3	3	P1	1
4.	Training on SMS is required	3	2	P2	2
5.	Regulatory Authorities should be independent and have appropriate authorities in practice	3	2	P2	2
6.	Acceleration of CASSOA's evolvement from the basic to a complex model	3	1	P3	3
7.	States be willing to subject themselves to regular periodic assessment	2	3	P4	4
8.	Other best practices identified earlier be adopted.	2	2	P5	5
Glob	al Aviation Safety Roadmap Workshop – Step 6				Slide 32

t	e- ability	IC Level	Selecte d Priority
Consi derabl e	Difficult	P3	6
Consi derabl e	Little	P1	1
Consi derabl e	Difficult	P3	8
Moder ate	Moder ate	P5	9
	derabl e Consi derabl e Consi derabl e Moder	derabl eLittle pConsi derabl eDifficult pConsi derabl eDifficult pModerModer	derabl eLittle P1Consi derabl eLittle P1Consi derabl eDifficult P3Consi derabl eDifficult P3

Drioritize the Recommended Actions Using

Prioritize the Recommended Actions Using the Impact-Changeability Level as a Guide

Recommended Action	Impac t	Chang e- ability	IC Level	Selecte d Priority
13. States to provide mechanism for sufficient funding of aviation activities including recruitment and retention of qualified technical personnel.	Consi derabl e	Difficult	P3	7
14. States should enlighten the government and industry policy makers/ managers on SMS and 'just culture'	Consi derabl e	Moder ate	P2	4
Global Aviation Safety Roadmap Workshop – Step 6				Slide 34

Recor	nmended Action	Impac t	Chang e- ability	IC Level	Selecte d Priority
	States should post assessment orts on the CASSOA website to ilitate sharing.	Consi derabl e	Moder ate	P2	5
	riodic and regular stakeholders eting should be held in the region.	Consi derabl e	Little	P1	3