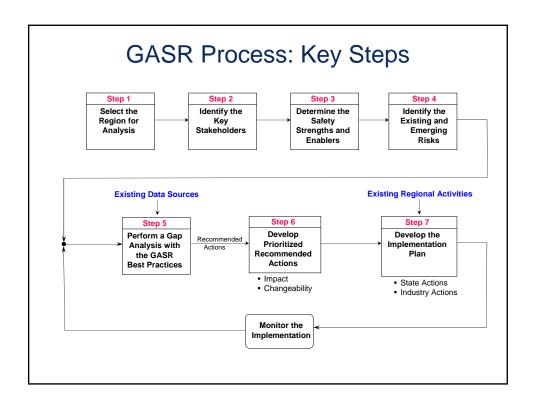
GASR FA 11

Workshop: Global Aviation Safety Roadmap
Implementation

Group Discussion Guidelines

- Participants are expected to contribute their knowledge to the discussion and to raise questions that will further the group's understanding of the issues
- · Mutual respect for other's ideas will be maintained
- The facilitators will seek to involve everyone in the discussion; any participant may submit a point anonymously to the group in written format
- Participants can change their minds at any time
- The facilitator will ask for volunteers to keep notes of the ideas, facts, consensus, and questions raised during the discussion, including a "parking lot" sheet
- Facilitators will be mindful of potential language barriers and will attempt to ensure that communication is successful
- Facilitators and members of the group are expected to remind others of these guidelines during breakout sessions



GASR Regional Planning Process

- 1. Select Region for Analysis
- 2. Identify Key Stakeholders
- 3. Outline Strengths and Enablers
- 4. Identify Existing and Emerging Risks
- 5. Perform Gap Analysis
- 6. Develop Prioritized Recommended Actions
- 7. Develop an Action Implementation Plan

Ref: Implementing the GASR, Fig. 3.2 & Appendix I

1. Select Region for Analysis

- 1.0 Regional Scope Countries included in the region:
 - Kenya, Uganda, Tanzania, Rwanda and Burundi:

2. Identify Key Stakeholders

- 2.1 International State Authorities/Organizations ICAO, IFALPA, FAA, IATA and AFRAA
- 2.2 Regional State Authorities/Organizations EAC, CASSOA
- 2.3 Regional Safety Organizations CASSOA, ASSET
- 2.4 Industry Organizations Boeing, ISSG, Flight Safety Foundation

3. Outline Strengths and Enablers

- 3.1 Regional Strengths
 - > Existence of aviation training colleges
 - > Strong airlines eg PAS, KQ,
 - Vibrant General Aviation
 - Autonomous Airport Authorities
 - Autonomous CAA
 - > Strong political will
 - Aeronautical Meteorology
- 3.2 International Enablers
 - ICAO, COSCAPs, World Bank, SSFAI
- 3.3 Regional Enablers
 - Capetown Convention, EAC Treaty, CASSOA.
- 3.4 Industry Enablers
 - IATA Partnership for Safety Initiative, Manufacturer's support

4. Identify Existing and Emerging Risks

- 4.1.1. Regulatory Environment-Aviation Laws and Regulations
 4.1.1.1 Existing Risks

 - Non-separation of service provider from regulator in respective CAAs
 - > Lack of capacity in the judicial system
 - Inadequate enforcement
 - > Lack of national consistent laws
 - Inadequacy in harmonized regulations

 Lack of harmonized training curriculum

 - Prevalent health risks
 - Non existence of staff retention policy
 - Inadequacy in the operating regulations
 - 4.1.1.2 Emerging Risks
 - Compounded workload on the regulating staff

 - Development in technology
 Threats to safety and security in air transport
 - Lack of good corporate governance
 - An over regulated industry
 - Impact of labor laws
 - Non-availability of qualified staff
- 4.1.2 Regulatory Oversight
 4.1.2.1 Existing Risks

 - Aging personnel
 - Lack of harmonized retiring age
 - Lack of a clear and harmonized succession policy in the region
 - Availability of Qualified personnel for safety oversight
 - Insufficient regulatory oversight in certification of operations and continued airworthiness of aircraft
 - Inability to retain qualified staff
 - Gender imbalance

4. Identify Existing and Emerging Risks

- 4.2 Region
- 4.2.1 Unique regional considerations
 - Existence of mountains, hills and high grounds
 - Additional training requirements due to specific weather hazards
 - Additional requirements due to English language proficiency requirements
- 4.2.2 Existing Risks
 - 4.2.2.1 Operating Environment:
 - Additional skills requirements to manage modern CNS/ATM systems
 - 4.2.2.2 Most Frequent Types of Events
 - Prevalent bird strikes
 - Control Flight into Terrain
 - Loss of control
 - Runway incursions
 - (Not in any order)
- 4.2.3 Emerging Risks
 - 4.2.3.1 Un-accommodated Traffic Growth
 - 4.2.3.2 Non-availability of Qualified Personnel
 - 4.2.3.3 Increase in number of Startup/LC Carriers

4. Identify Existing and Emerging Risks

- 4.3 Industry
- 4.3.1 Operator's Organization / Business Practices
 - 4.3.1.1 Existing Risks

 - 1 Existing Risks
 Safely Leadership & Management by Operators
 Safely Leadership & Management by Operators
 Pressure to meet organizational goals eg profits, marketshare etc
 Pressure to manage cost at the expence of safety
 Lack of Business plans
 Pressure due to constant external audits eg IOSA
 Changes due to e-business eg e-ticketing
 2 Emparion 1975
- Changes due to e-dustriess eg e-licikeurig
 A.3.1.2 Emerging Risks
 Startups/LCCs Initial and Continued Compliance with AOC
 Management of Aircraft Transfers (e.g. Maintenance Records)
- 4.3.2 Operator's Fleets / Equipment
 - 4.3.2.1 Existing Risks

 - Increased operating costs
 The need to update the TAWS database
 Increased pressure on the crew due to RVSM requirements
 Obsolescence of Fleets
 - Definition, Resolution and Accuracy of FMS and TAWS Databases
 - 4.3.2.2 Emerging Risks
 Aging Aircraft
- Aging Aircraft

 4.3.3 Flight Operations / Crew Training

 4.3.3.1 Existing Risks
 Insufficient number of training schools
 Lack of adherence to operating requirement
 The risk of aircraft overloading
 Adherence to HF/CRM Principles and SOPs
 Level and Capacity of Pidis' Training Schools
 Lack of enforcement of regulations
 Lack of recurrent training

 - - 4.3.3.2 Emerging Risks

 Availability of Pilots to Face Traffic Growth

 "poaching" of experienced Pilots , cabin crew , type rated instructors, ATC

4. Identify Existing and Emerging Risks

- 4.3 Industry (Continued)
- 4.3.4 Maintenance / Training
 - 4.3.4.1 Existing Risks
 - Lack of approved training schools

 - Lack of abntio trainingLack of recurrent training
 - Lack of Skilled staff in aircraft maintenance and records keeping

 - Lack of Skilled staff in aircraft me
 Quality of Maintenance Records
 Reliability of training records
 - · Parts from non-approved sources
 - 4.3.4.2 Emerging Risks

 - High cost of trainingPoaching of AMEsInadequacy of AMOs
 - Non-availability of Trained and Qualified Personnel to Face Growth
- 4.3.5 Infrastructure / Airports, Navaids, ATC
 - 4.3.5.1 Existing Risks
 - Inadequate space in accommodation, parking etc
 Lack of flight calibration capabilities

 - Lack of adequate fencing of airports and airstrips
 - Lack of procedures development capabilities
 - 4.3.5.2 Emerging Risks
 - Security threatsNo land tenure

 - · Inadequacy of Airport's infrastructures to face growth
- 4.3.6 Unique Industry Considerations

5. Perform Gap Analysis

 5.1 Identification of Gaps Between Best Practices and Current State of the System

Best Practices	Metrics	Implementation
BP 11a-1 — Stakeholders, collectively and individually, assess human resources requirements for the recruitment and training of personnel that includes growth projections, target levels and training standards. a. The assessment projects the needs, expected shortfalls and required training based on: • Sound market-based assessment of operational projections across all operators; • Expected development of flight operations and related support requirements for all sectors of the industry; • Anticipated retirements and replacements.	a. Assessment exists for all industry sectors	☐ Complete ☐ Somewhat ☐ Little ☐ Not Applicable Discussion:

5. Perform Gap Analysis

• 5.1 Identification of Gaps Between Best Practices and Current State of the System

Best Practices	Metrics	Implementation
BP 11b-1 - Stakeholders identify		
potential sources of		☐ Complete
appropriately qualified		☐ Somewhat
personnel and actively		☐ Little/None
encourage a sufficient number		☐ Not Applicable
of people to enter accredited		**
training institutions.		D: :
a. Promotion of the acceptance of licenses and qualifications issued by other regulatory authorities/civil aviation authorities. b. Development of incentives to attract potential candidates into the industry. c. Development of incentives to reduce the migration of professional staff from one region to another.	a. Source of qualified personnel identified, along with a recruitment strategy	Discussion:

5. Perform Gap Analysis

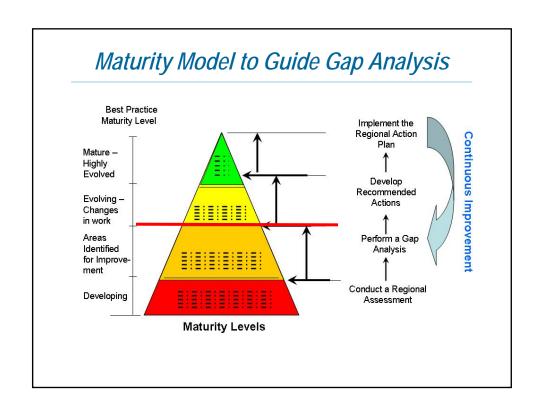
• 5.1 Identification of Gaps Between Best Practices and Current State of the System

Best Practices	Metrics	Implementation
BP 11b-2 – Organizations develop and implement a rolling multi-year human resources plan that is regularly reviewed and updated.		☐ Complete ☐ Somewhat ☐ Little/None ☐ Not Applicable
A flexible human resource plan is implemented as an integral part of the organization's business plan. The plan provides a basis upon which to make adjustments to reflect unanticipated changes in the industry and includes specific strategies for the retention of qualified staff.	a. Number of qualified personnel to meet the plan.	Discussion:

5. Perform Gap Analysis

 5.1 Identification of Gaps Between Best Practices and Current State of the System

Best Practices	Metrics	Implementation
BP 11c-1 <u>- Stakeholders establish</u> internal and independent audit processes and reviews. a. Internal audits are conducted as an integral part of the organization's business plan review. b. External independent auditing is conducted through the use of recognized and accepted audit processes such as USOAP and IOSA.	a. The audit process is integral to the organization's business plan.	☐ Complete ☐ Somewhat ☐ Little/None ☐ Not Applicable Discussion:



Prioritize the Recommended Actions

Using the Impact-Changeability Level as a Guide

Reco	ommended Action	Impact	Change- ability	IC Level	Selected Priority
1.	Harmonization of existing training plans Assessment of the level of activities and requirements Establishment of database of ATOs	3	3	P1	1
2.	Upgrade of current ATOs • Encourage the regional approach in sharing of training resources	3	2	P2	2
3.	Establish a regional training fund to enable access to aviation specialized training	3	2	P2	3
4.	Encourage Private Public Ownership in the development of aviation skilled HR	3	2	P2	4
5.	Adoption of labor and immigration laws that encourage sharing of skilled resources	3	1	P3	5
6.	Promote initiatives that encourage aviation as a career	2	3	P4	6
7.					
8.					

Global Aviation Safety Roadmap Workshop - Step 6

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Develop an Action Implementation Plan

Recommended Action		Impact	Change- ability	IC Level	Action by
Assess requires	of existing training plans ment of the level of activities and ments shment of database of ATOs	3	3	P1	EAC
	urrent ATOs urage regional approach in sharing of ng resources	3	2	P2	EAC
· ·	onal training fund to enable on specialized training	3	2	P2	EAC
	ate Public Ownership in the aviation skilled HR	3	2	P2	Operators' Association/CA AS
	or and immigration laws that ing of skilled resources	3	1	P3	EAC/States
6. Promote initiative a career	es that encourage aviation as	2	3	P4	Operators' Association/ CAAs
7. pal Aviation Safety Roadmap	Vorkshop – Step 6				Slide 18

- 7. Develop an Action Implementation Plan
- 7.1 Leverage Current Regional Activities and Players
- 7.2 Consider Existing Safety Initiatives from Different Regions
 - CAST, ECAST, FAST, COSCAPs