

### **IOSA In Numbers**





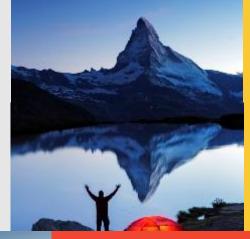
### **IOSA In Numbers**

400
IOSA
registered
Operators



129

Countries represented on the Registry



355

Audits performed in 2021



270

Accredited IOSA Auditors



4650

IOSA Reports exchanged among airlines





### Safety Performance

IOSA Operators continually demonstrate higher safety performance despite increasing registry



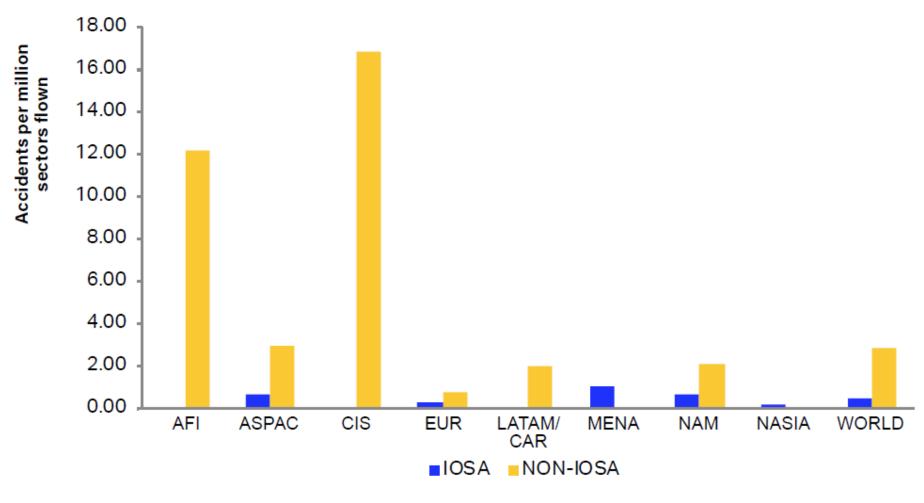




### **Accidents Rates**

5

2021 Accident Rate: IOSA-Registered vs. Non-Registered





### Regulatory Safety Oversight

Numerous regulators and authorities complement their oversight with IOSA

































































# New Risk Based IOSA





#### The Business Model

A profound business model change will lead to long-term sustainability

Customer Expectations

#### Challenge

Affordable and value-add audits
User friendly access to current information

Solution

Audit process tailored to airline Improved user interfaces

AO Accreditation Model

#### Challenge

Financial autonomy and sustainability Auditor standardization and performance Ability to innovate Solution

Phase out AOs and insource production of audits
Recruit and train IOSA Auditors on freelance basis

Organization

#### Challenge

Production capacity
Digital Maturity

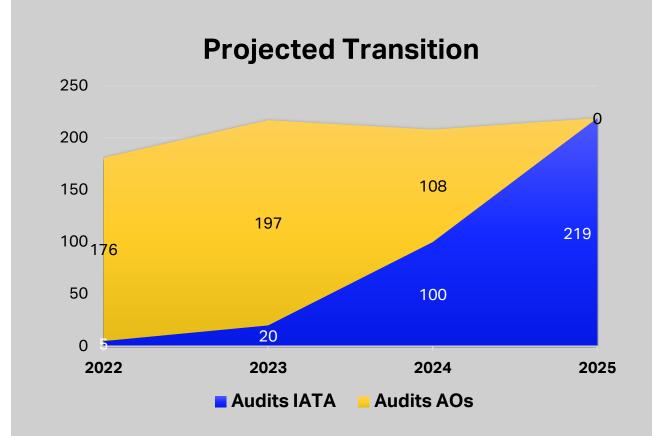
#### Solution

Transform and scale up IOSA organization Develop IT infrastructure

#### **Transition Plan**

Transition Plan supports timely scaling up and mitigation of risks

- 2022 trial audits will be performed to test audit methods and audit management process
- AOs will remain until end of 2024 to perform conventional IOSA audits
- 2025 onwards fully insourced model supporting over 200 IOSA audits per year



### Risk-based IOSA

Risk-based approach will contribute to reduce accidents rates

Today

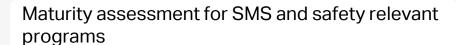
Tomorrow



- Standard audit checklist for all operators in all audits
- Compliance-driven auditing
- Static IOSA reports and forms



Tailored audit scope focusing on pertinent safety risks



Digital reporting, risk engine









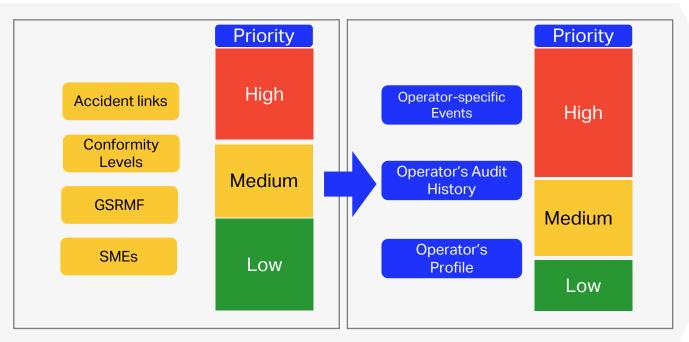
### Risk-based Audit Scoping

Audit scope will be reduced to critical standards, freeing up valuable auditing time



Industry Standards prioritization

**Operator Audit Scoping** 





Tailored audit scope for each Operator



Frees up time to increase depth of auditing of high priority requirements



Allows for maturity assessment of critical systems and programs



### Risk-based Audit Scoping

Away from the one-size fits all approach

Audit Scoping			IOSA		Risk-Based IOSA	
•	Worldwide runway excursion rate has been increasing.	•	All ISARPs are audited regardless of their universal criticality.	•	ISARPs prioritized in regular intervals. In this example, ISARPs related to runway excursions are identified as high priority and audited indepth.	
•	Operator has been demonstrating conformity with a non-critical ISARP for several consecutive audits.		All ISARPs are audited regardless of their criticality for the operator.	•	Audit scope tailored to Operator's operating profile and audit history. ISARPs with low criticality may be audited at lower frequency to allow focus on high-criticality ISARPs.	



### Maturity Assessment

A deeper evaluation of relevant safety systems and programs



#### Maturity Assessment of following areas

#### **SMS**

Management & Control

Safety Assurance & Monitoring

Safety Risk Management

**SMS Training & Communication** 

#### **Operating Safety Maturity**

**Crew Training** 

Flight Data Analysis



### **Maturity Assessment**

Example

#### **Maturity Assessment** IOSA **Risk-Based IOSA Assessment Method Assessment Method (on FLT 2.2.14** (on each ISARP) selected ISARPs and Programs) The Operator shall ensure flight crew members complete training and, when applicable, an Conformity V Conformity 2.7 Mature evaluation in crew resource management (CRM), including Nonconformity Threat and Error Management, Established Leading using facilitators that have been trained in human performance and human factors principles.



### Benefits of Risk-based IOSA

Tailored and reduced Audit scope focusing efforts where needed the most Improved audit methods through maturity evaluation Improved management and standardization of Auditors Safety insights captured to deliver safety improvements and reduction of global accident rates New insights through improved audit report Long term sustainability of IOSA program through direct management of insourced products



### Risk-based Approach – Project Roadmap

Comprehensive project approach to ensure successful delivery

#### Q1 2022

- Project plan and organization
- Transition & communication plan
- Validation of concept (internal/external)
- Finalize operator questionnaire with IOC

#### Q2 2022

- Develop business requirements and taxonomy
- Adjust Program's legal and insurance frameworks
- Conduct RFPs
- Draft test standards manual

#### Q3 2022

- Design beta-test audits and train auditors
- Onboard airlines for test
- Onboard IT vendors

#### Q4 2022

- Launch 3-5 beta-test audits
- Develop required IT infrastructure
- Develop Program SOPs

#### 2023

- Refine and validate concept through feedback from beta-test audits
- Roll out Risk Based Audits to 20 operators



## Thank you



