

IOSA In Numbers

400
IOSA
registered
Operators



129

Countries represented on the Registry



355

Audits performed in 2021



270

Accredited IOSA Auditors



4650

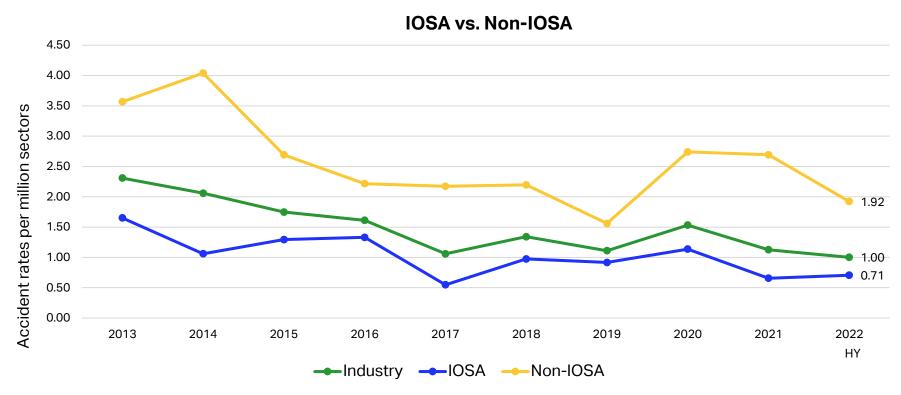
IOSA Reports exchanged among airlines





Safety Performance

IOSA Operators continually demonstrate higher safety performance despite increasing registry



The IOSA carriers accident rate of 0.71 is below the five year (2017-2021) average of 0.85 accidents per million sectors

Source: IATA Safety Report



Regulatory Safety Oversight

Numerous regulators and authorities complement their oversight with IOSA



















Transport Canada















































Risk-based Audit Concept





Risk-based Audit Concept

IOSA Risk-based approach will contribute to reduction in consecutive accidents through improved audit philosophy

Today

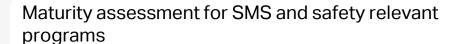
Tomorrow



- 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





Contribute to consecutive reduction in accident rates

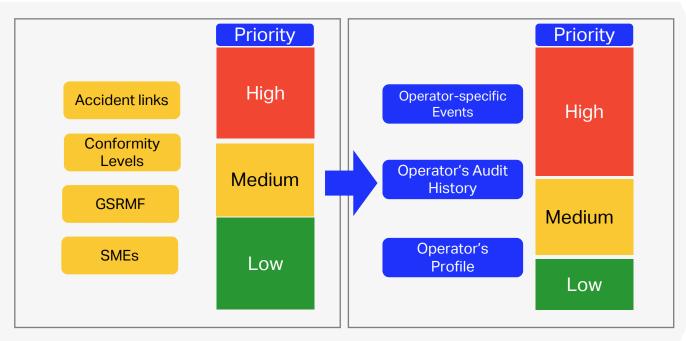
Risk-based Audit Scoping

The audit scope will be reduced to critical standards and a selection of recommended practices, (ISARPs) freeing up valuable time



Industry Standards prioritization

Operator Audit Scoping





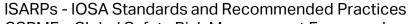
Tailored audit scope for each Operator



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



Allows for maturity assessment of critical systems and programs



GSRMF – Global Safety Risk Management Framework

SMEs - Subject Matter Experts





Maturity Assessment



Maturity Assessment

Introduces deeper way of providing airline with an evaluation of its relevant safety systems and programs



of following areas

Maturity Assessment

SMS

Management & Control

Safety Assurance & Monitoring

Safety Risk Management

SMS Training & Communication

Operating Safety Maturity

Crew Training

Flight Data Analysis

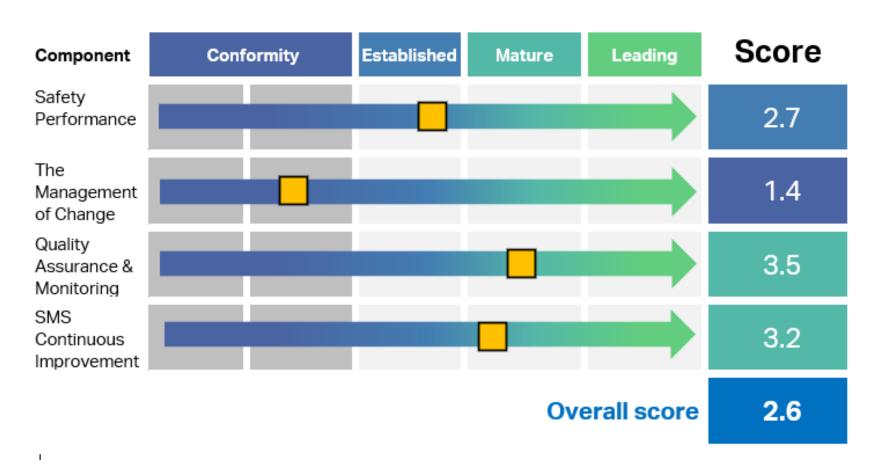
Operation Control



^{*} For Conformity and IOSA registration this is the minimum requirement

Maturity Assessment

Example: Safety Assurance & Monitoring





Maturity Assessment – Example

Maturity Leve

Maturity Level	Criteria	Points
Documented 0 – 1	 Documentation complete Documentation mostly in place and accurate Documentation partially in place Basic documentation, main components missing No documentation in place 	1 0.75 0.5 0.25 0
Implemented 1.1 - 2	 Full implementation and suitability Mostly implemented and suitable Partially implemented and suitable Basic implementation, no suitability No implementation Suitability Considerations 	1 0.75 0.5 0.25
	 Scope of the system relevant to type, size, and complexity of operations 	
	Availability of tools and systems used	
	Available resources	
	Processes and procedures	
	Organizational structure of Quality Assurance	



Maturity Assessment – Example

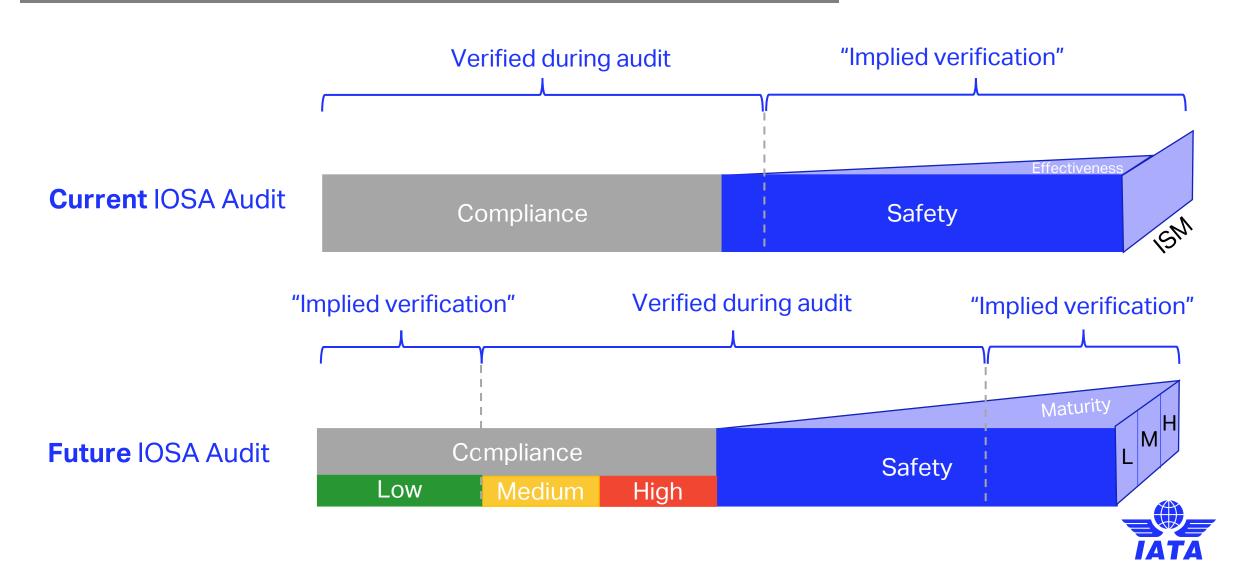
Maturity Levels

Maturity Level	Criteria	Points
Established 2.1 – 3	 Operator compiles and analyses data, which is shared with the rest of the organisation The interface between internal audits and the safety risk management processes is clearly described. Relevant standards to be monitored by QA are clearly identified Audits are performed using current (up-to-date) standards. 	
Mature 3.1 – 4	 Scheduling of audits is risk-based with clear criteria. Opportunities for improvements in Operations and maintenance systems are identified and implemented; Audits of high-risk areas are performed at least annually. Audits are complemented by inspections as needed. The QA program is managed through an effective IT tool / database. Audits are performed with full independence from the audited department. 	
Leading 4.1 – 5	 Operator analyses industry trends to improve compliance methods and safety risk mitigation Operator shares information with other industry players to enhance industry trend analysis on similar issues Audits are performed based on a process-based approach. Repetitive findings are identified and escalated. 	



Shift in Audit Focus

With Risk-based approach, the audit will move from a compliance towards a safety audit





New Audit Methodologies



New Audit Methodologies

New Audit Methods make use of wider set of auditing tools

Auditing Documentation



Desktop assessment



Virtual engagement



Onsite validation

Auditing Implementation



Virtual engagement



In-depth auditing for high priority



More Mandatory Observations Maturity Assessment (MA)



In-depth maturity assessment



Process-based auditing



Operator Questionnaire













SAR.F23 Operator Questionnaire (Covid Related)



IOSA Self Evaluation Form (SEF)
(18 Pages - Word Document)

Reporting Responsibility (IPM 7.7.1)

Continuous safety information exchange between Operators and their partners/authorities

The content is determined by safety experts of Operators



General Information

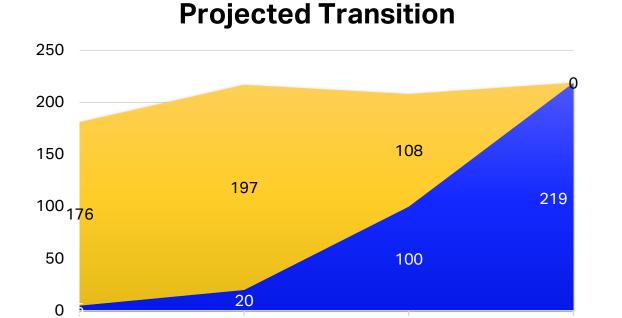
	Regular IOSA Audit	Risk Based IOSA Audit	
Audit duration	Unchanged (30 auditor days)		
 Audit fixed fees (amount) 	Unchanged		
 Audit variable fees 	 Negotiated with the AO 	 Fully paid by the Operator 	
Who will conduct the audit	 Auditor from Audit Organizations 	 Auditors engaged directly by IATA 	



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



2024

Audits AOs

2023

Audits IATA

2022



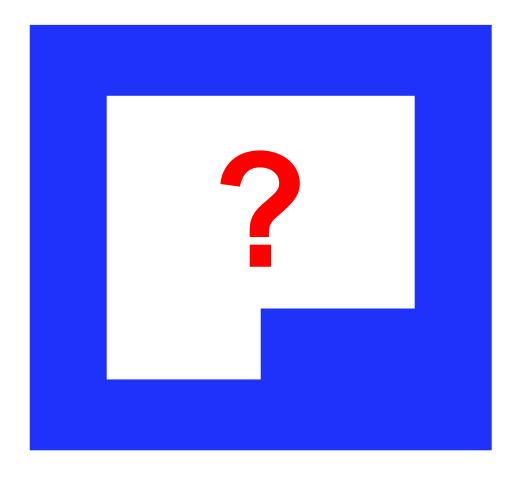
2025

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



Questions?





Thank you!



