

CGE Risk Management Solutions Making Audits Fun Again

Let's make Audit's fun again

11th Global Humanitarian Aviation conference



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YOU'RE GETTING
AUDITED

Compliance



ICAO Annex 19

ISO 31000

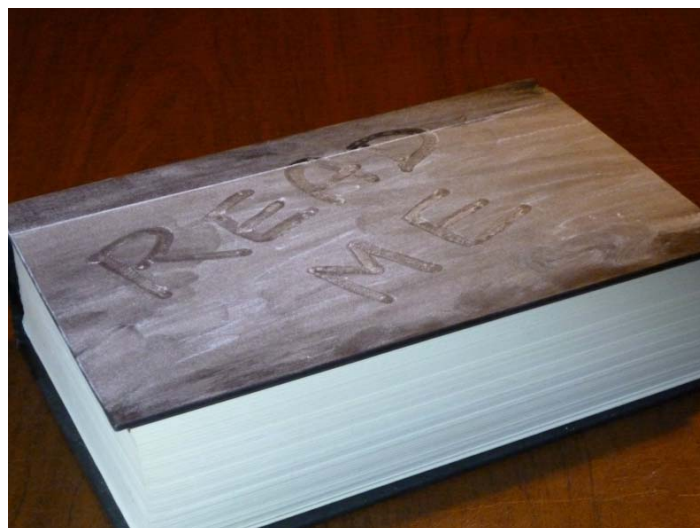
FSF BARS

EASA

IATA - SARPs

ICAO Annex 14

Audit Report & SMS



CGE – Making Audits fun Again

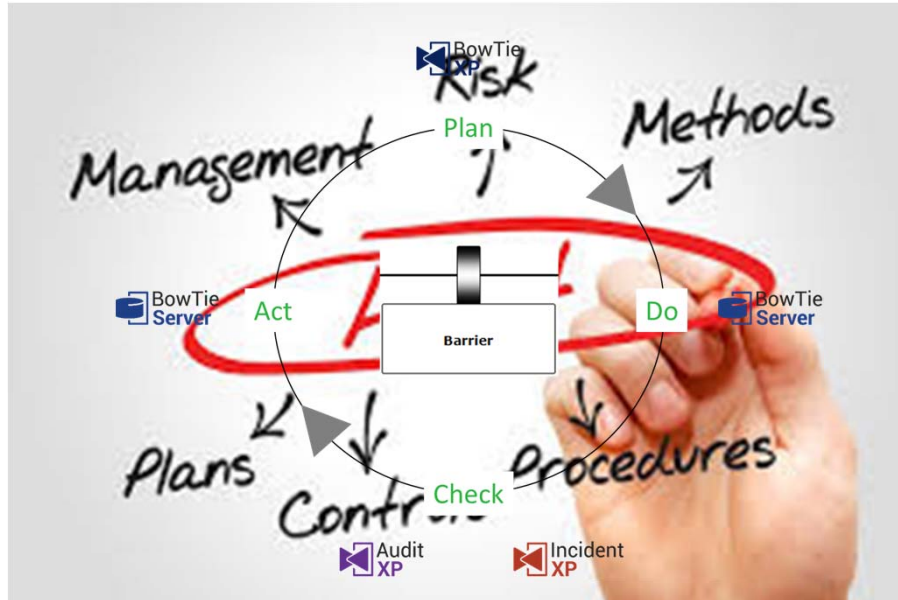
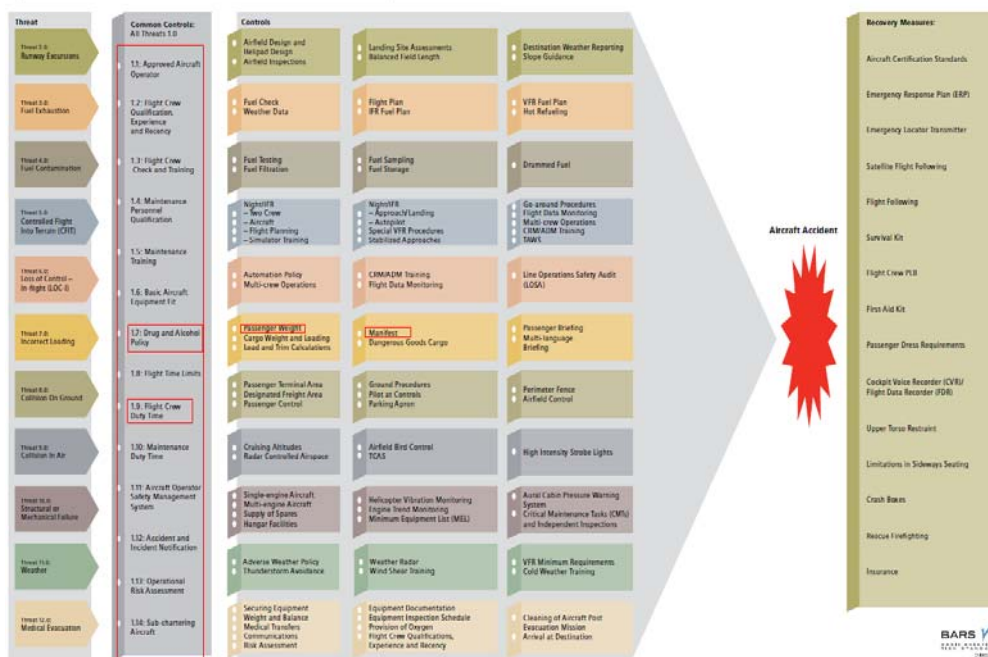
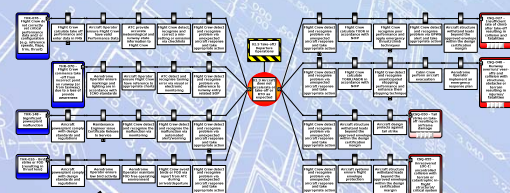


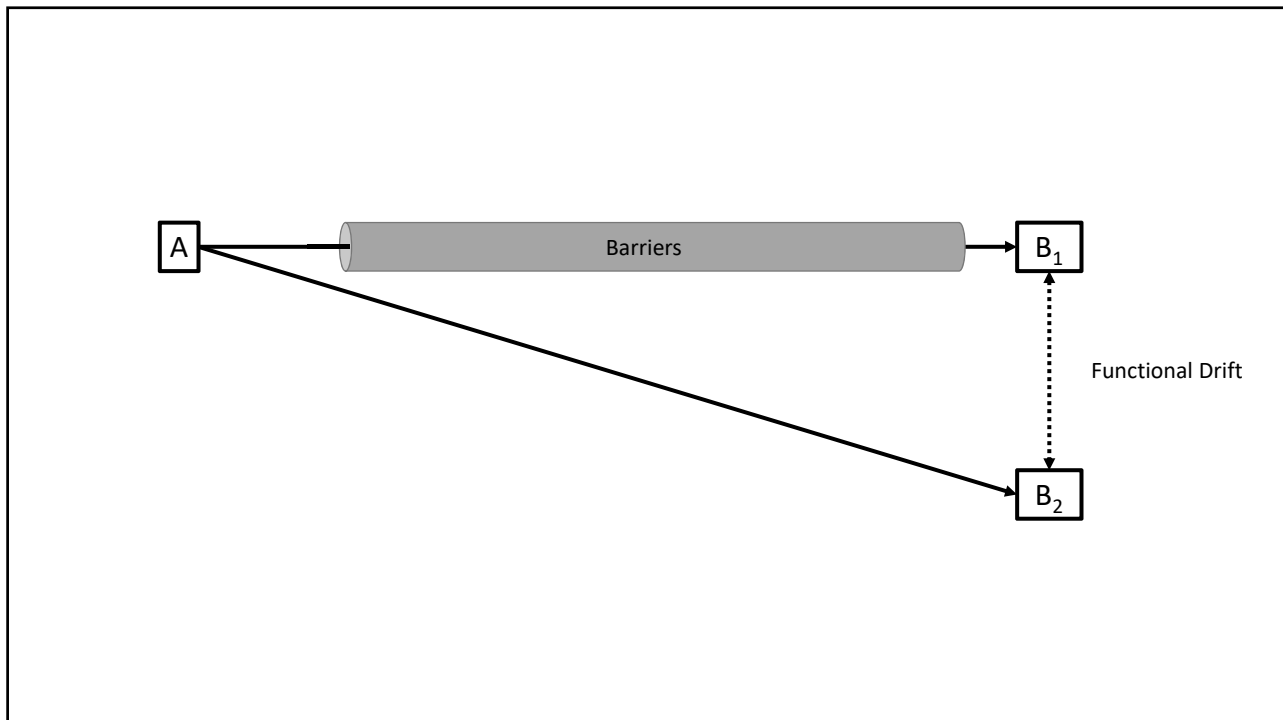
Figure 1: BARS Bow Tie Risk Model – Schematic of Aviation Risk Management Controls and Recovery Measures.



(S)Management System

Conduct active bird control at all company owned and operated airfields when required and record the presence of birds periodically. Where possible, birds must be dispersed or removed in accordance with local wildlife regulations. Seeding grass, open waste disposal and water ponds must be restricted to remove attractions for birds.





Barrier-based Audits



Use of extinguisher		
Q-01		n=2
Q-02		n=2
Q-03		n=2

Q01: (Maintenance)

"Are the extinguishers well maintained and filled?"

Q02: (Training)

"Is the personnel capable of using the equipment?"

Q03: (Procedures)

"Is the personnel aware of where to find the device?"

Question design

Universally applicable

One question that applies to all barriers regardless of context

"Is this barrier present?"

"How effective do you think this barrier is?"

Common Barrier KPI's

A limited set of performance indicators that should be applicable to all barriers

"How effective is the training component of this barrier?"

"How effective is the maintenance component of this barrier?"

"Do people know who is responsible for this barrier?"

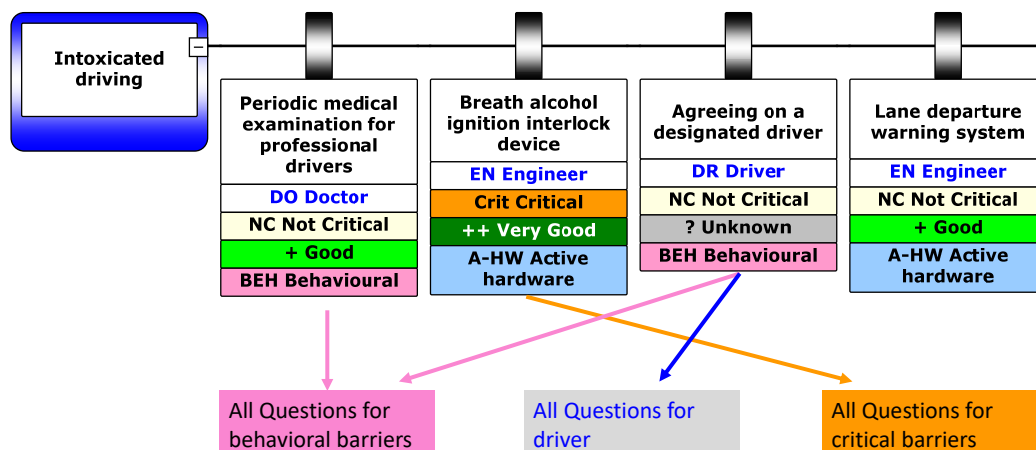
Barrier specific (unique)

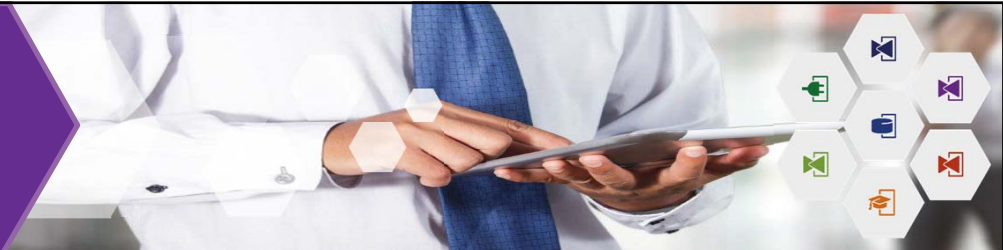
Questions specifically designed to be applied to a single barrier

"Is the second line to the BOP in working order?"

"Can personnel demonstrate how to put out a fire with this extinguisher?"

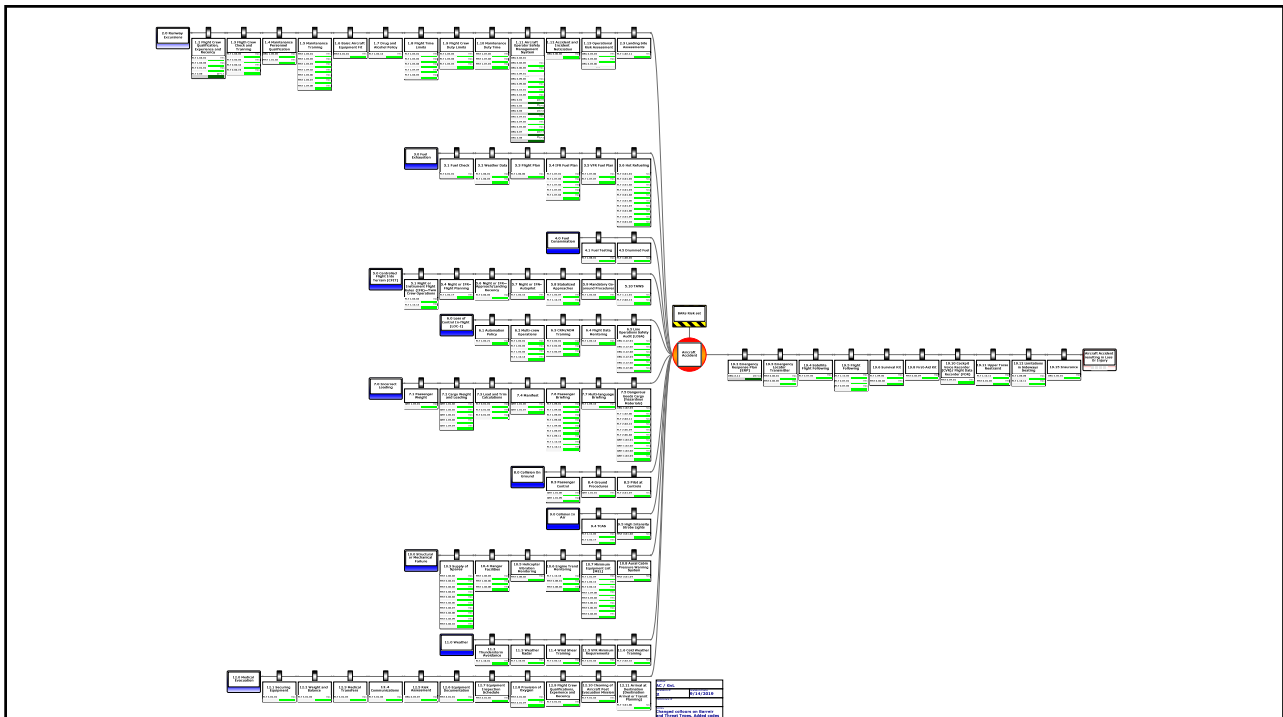
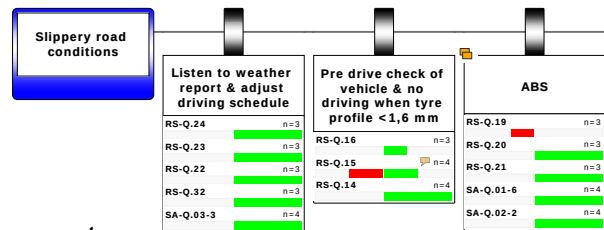
Survey design

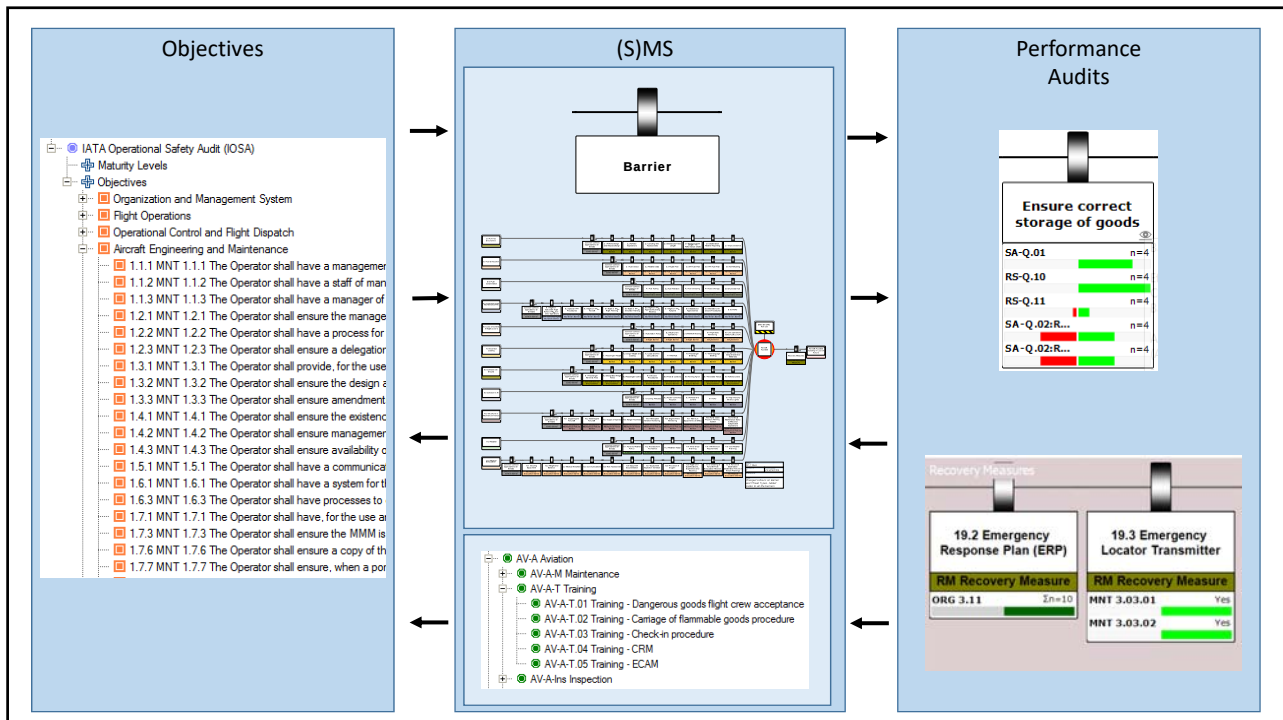




Focus audits and inspections on what matters most: the barriers!
Barrier specific questions | Focused surveys | Compliance framework integration

- Audit safety barriers
- Verify performance and integrity
- Link back to the bowtie diagrams
- Visualize results in the context of risks
- Find non conformities and initiate improvement







BowTie Server
enterprise barrier management

API53 API Standard 53

Home / Reports / Compliance Frameworks / API53 API Standard 53

Audits Module

BARS Basic Aviation Risk Standard

Home / Reports / Compliance Frameworks / BARS Basic Aviation Risk Standard

Search

Objective

▼ 4.3 B...

4.3

4.3

4.3

▼ 4.9 Wetted Elastomeric Sealing Components

4.9.3 BOP PM - Sealing compound must be specced

BARS Basic Aviation Risk Standard

Coverage

151 Barrier Links

0 Activity Links

0 Objectives

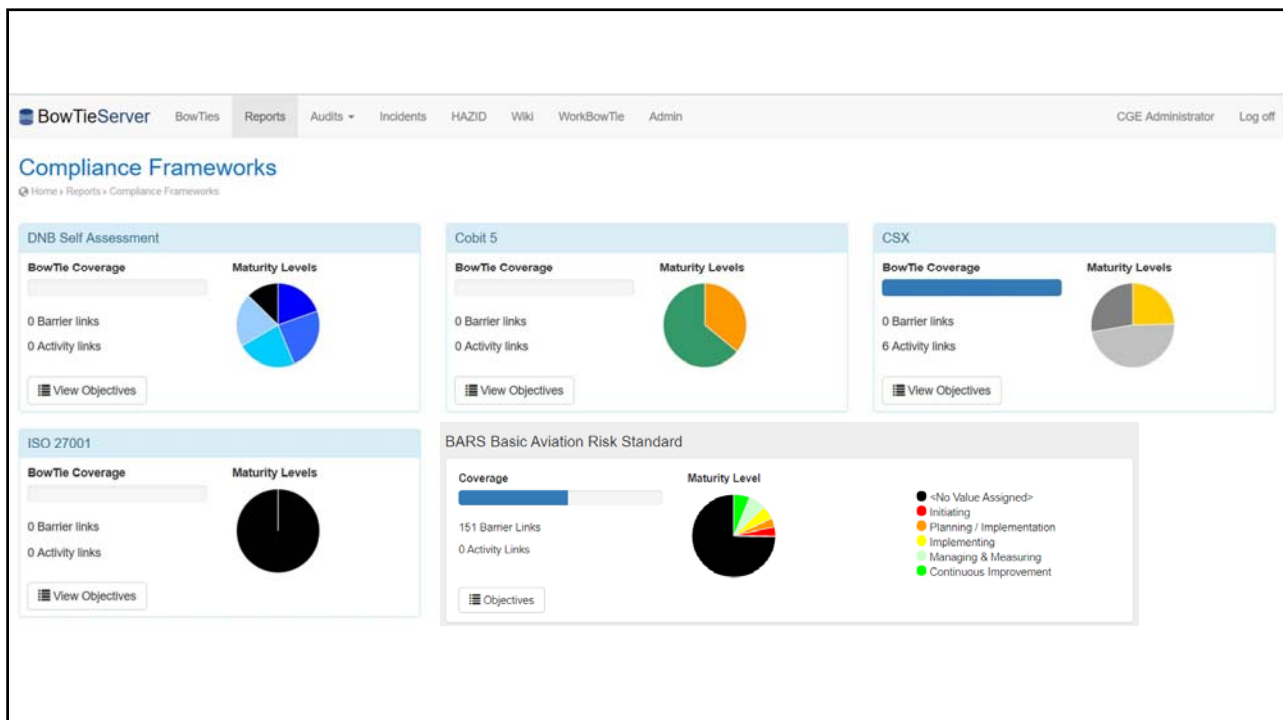
Maturity Level



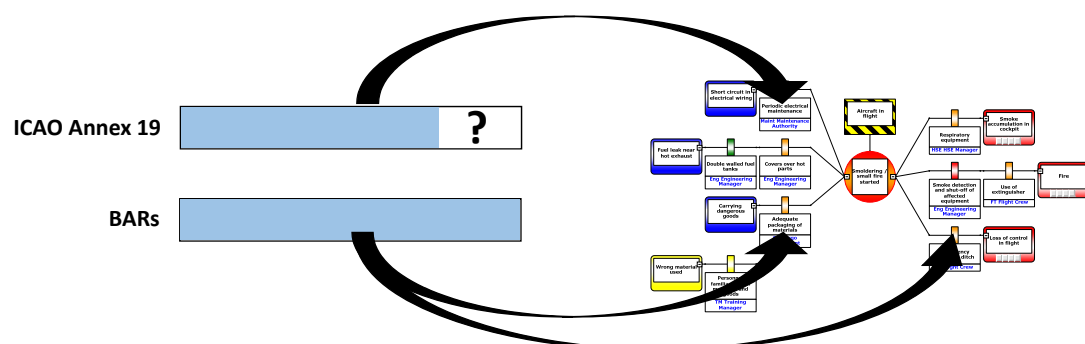
Legend:

- <No Value Assigned>
- Initiating
- Planning / Implementation
- Implementing
- Managing & Measuring
- Continuous Improvement

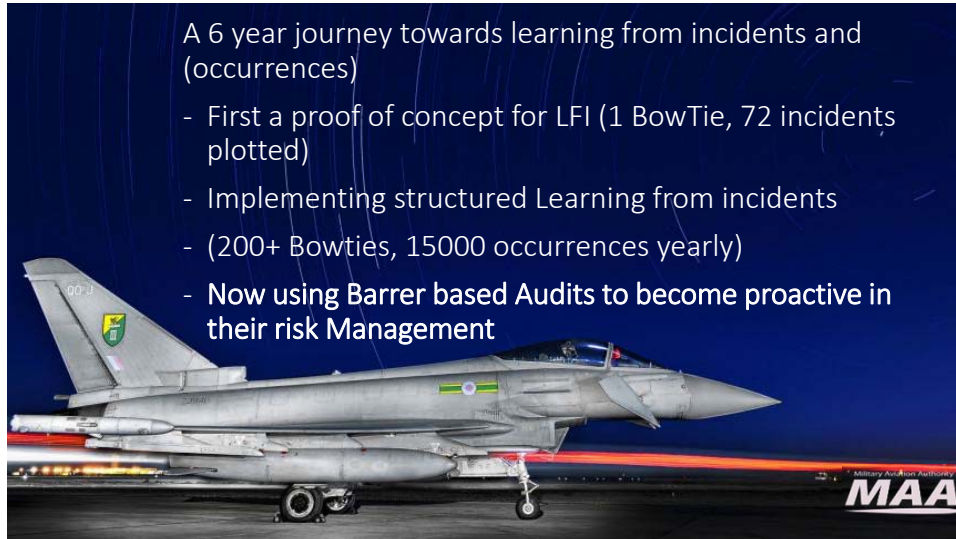
Objective	Maturity Level	Barriers	Activities	Last Answers
▼ BARS.001 Introduction		0	0	
BARS.001.001 Purpose		0	0	
BARS.001.002 Document Structure		0	0	
BARS.001.003 Basic Aviation Risk Standard (BARS) Control Title		0	0	
▼ BARS.002 1.0: All Threats: Common Controls		0	0	
BARS.002.001 1.1: Approved Aircraft Operator		1	0	
BARS.002.002 1.2: Flight Crew Qualifications, Experience and Recency	Managing & Measuring	1	0	
▼ BARS.002.003 1.3: Flight Crew Check and Training		1	0	
BARS.002.003.001 Flight Check and Training - Personnel	Initiating	0	0	



BowTie Coverage



Military Aviation Authority UK



A 6 year journey towards learning from incidents and (occurrences)

- First a proof of concept for LFI (1 BowTie, 72 incidents plotted)
- Implementing structured Learning from incidents
- (200+ Bowties, 15000 occurrences yearly)
- Now using Barrer based Audits to become proactive in their risk Management



So, let's make Audits FUN

THANK YOU

Advanced Barrier Management Solutions

For more information about our vision, products and services: contact us via:

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