



Flight Safety Foundation and the BARS Program

GHAC

October 2017



70 years young

Achievements:

First civil aviation accident investigation workshop

Study and support of safety devices such as anti-collision lights and wx radar

First collection and distribution of mechanical malfunction reports

Initial studies for medical standards for pilots and ATC

ALAR Toolkits and 30 regional workshops

Initial study for developing FOQA in the US

CFIT Toolkit

GADME

GSIP

Go-Around Decision Making and Execution (GADME)

FINAL REPORT TO FLIGHT SAFETY FOUNDATION

Go-Around Decision-Making and Execution Project

Tzvetomir Blajev, Eurocontrol
(Co-Chair and FSF European Advisory Committee Chair)

Capt. William Curtis, The Presage Group
(Co-Chair and FSF International Advisory Committee Chair)

MARCH 2017



FSF GSIP Project



GSIP - Overview



Asia and Pacific region and the Pan American region



FAA funded project commenced 2015



12 Focus groups and 13 workshops in 2015/2016



Operators, regulators, ANSP and airports, MRO participants



3 work streams:

Assessing data collection, processing sharing and protection in place

Workshop to share concepts of effective risk management processes

Develop toolkits for best practices on safety risk management

GSIP - Overview



Toolkits

- Data Collection
- Data Analysis
- Information Sharing
- Information Protection

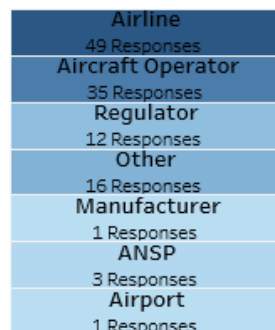
<https://flightsafety.org/gsip/>

- SPI Survey and Sharing

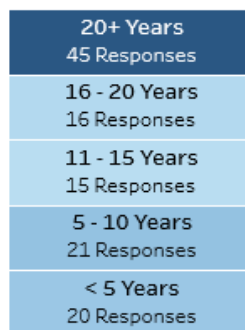
Select a Risk Type



Domain



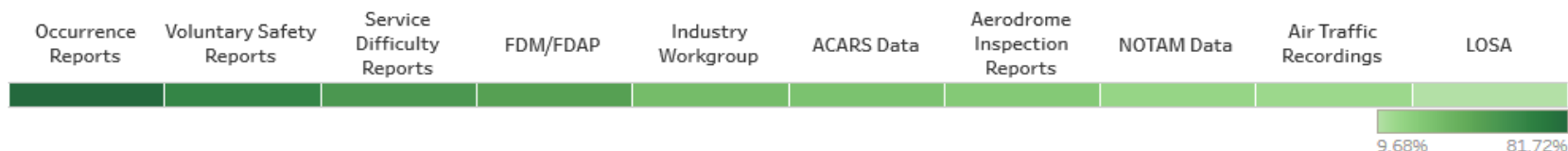
Experience



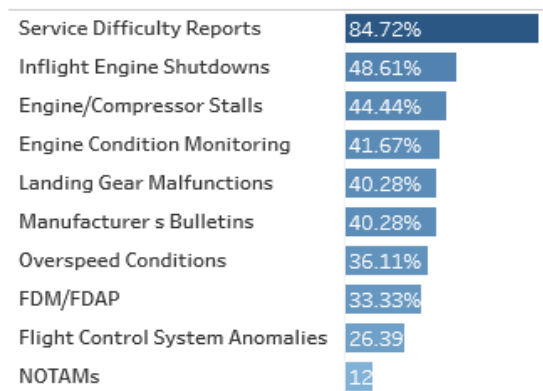
Operator Location



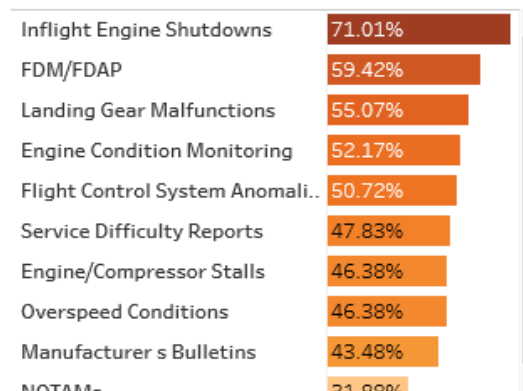
Sources of Risk Data



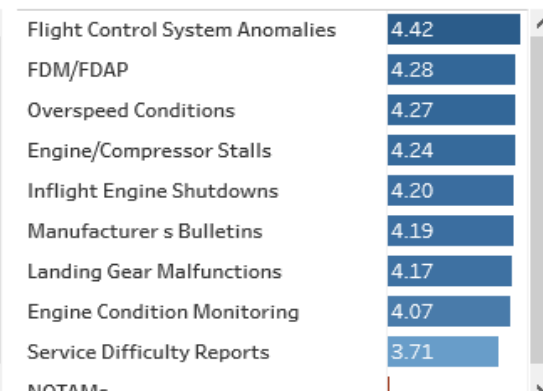
Tracked as an SPI



Tracked as a Metric



SPI Importance Rating

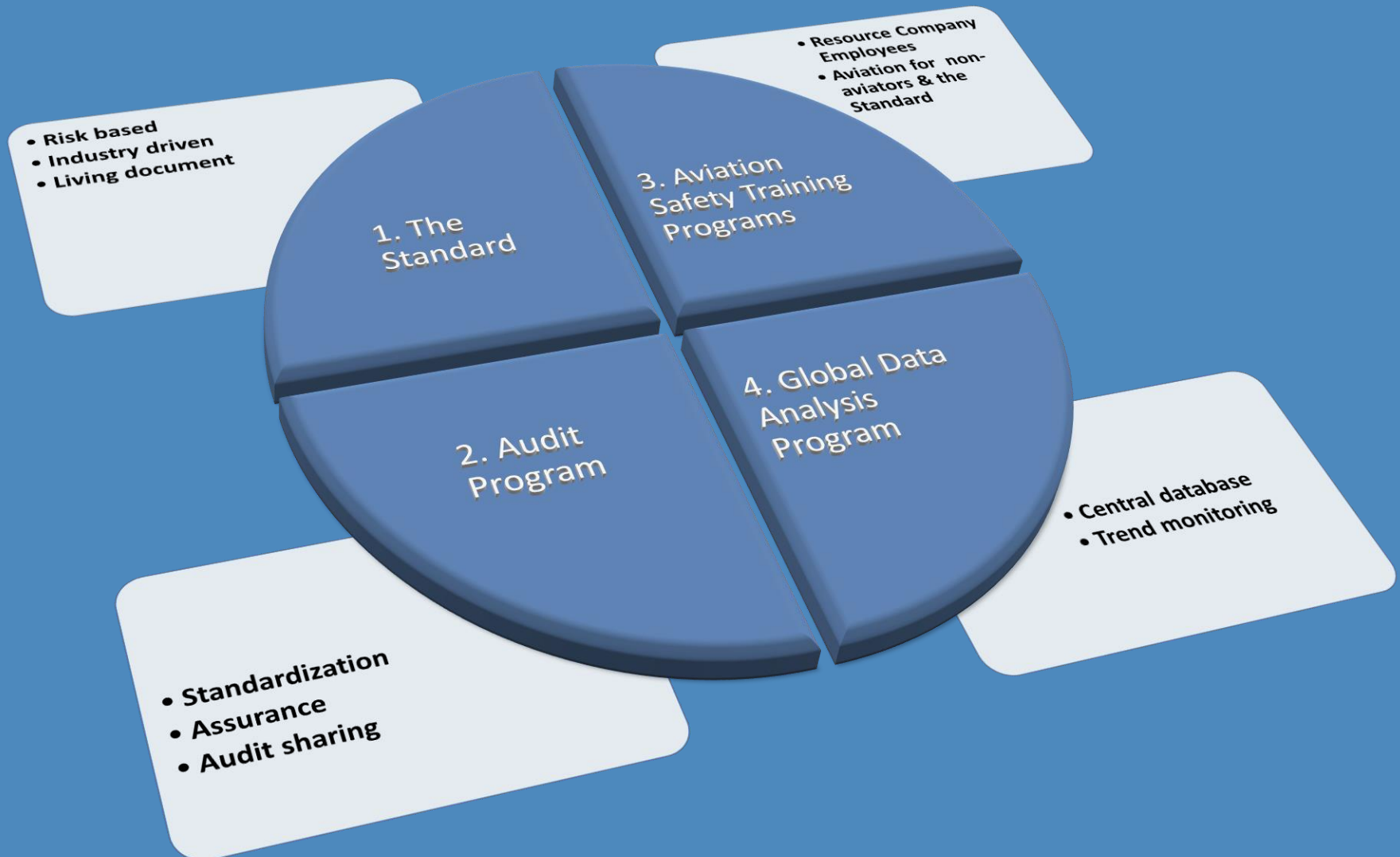


SPI Importance Rating: 1=Least 5=Most

The BARS Suite



Components of the BARS Program



What Aviation End users sought

Elimination of unnecessary multiple audits

Standardization of audits

Centralized quality assurance of the audit process

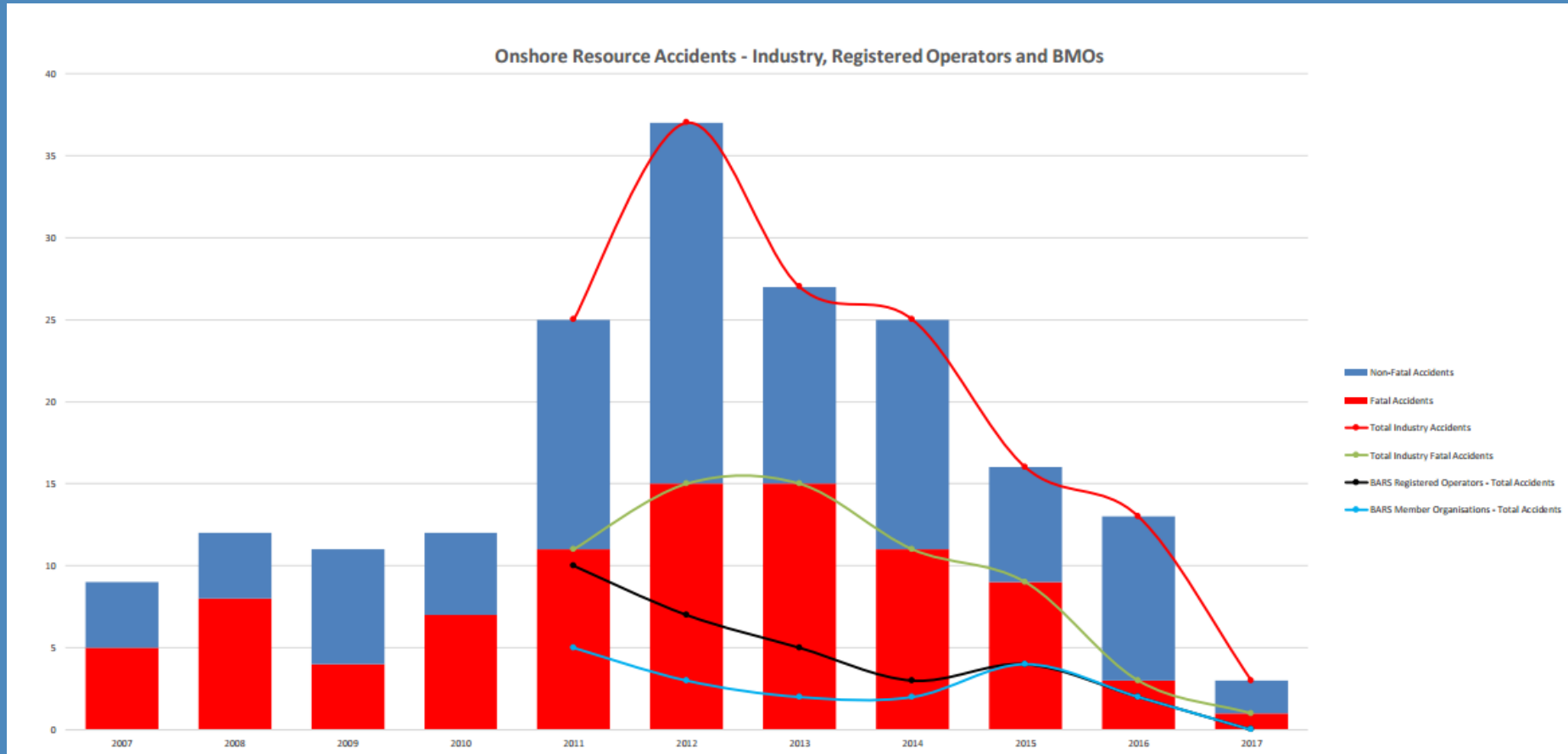
A mechanism to allow mutual acceptance of audit reports by companies in the sector

Cost efficiency

A centralized incident/accident database for the sector

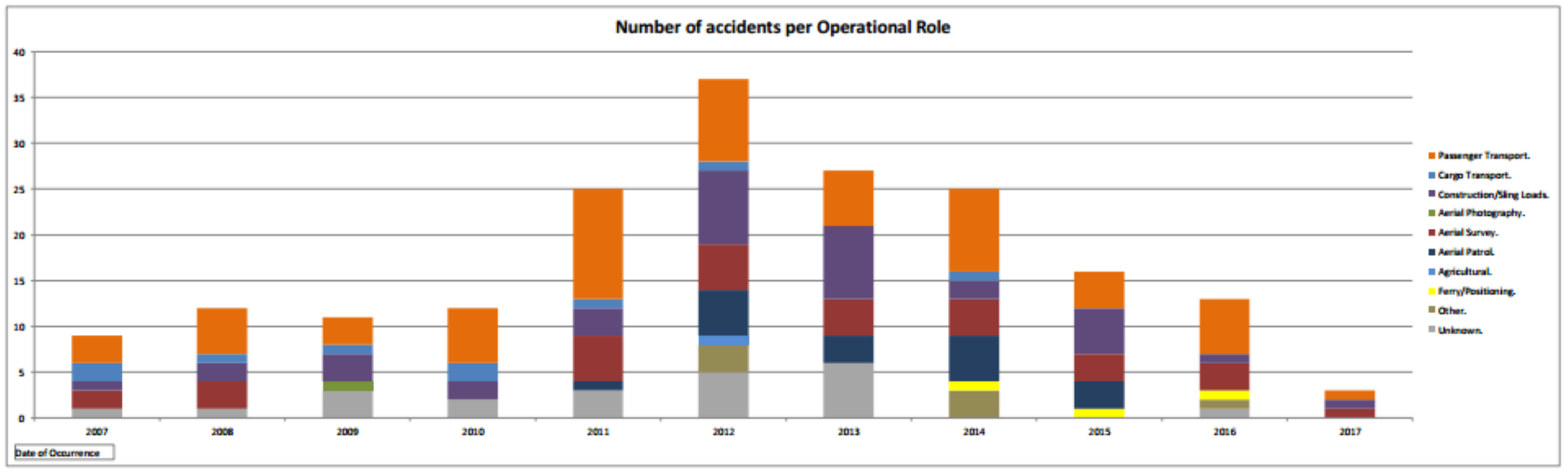
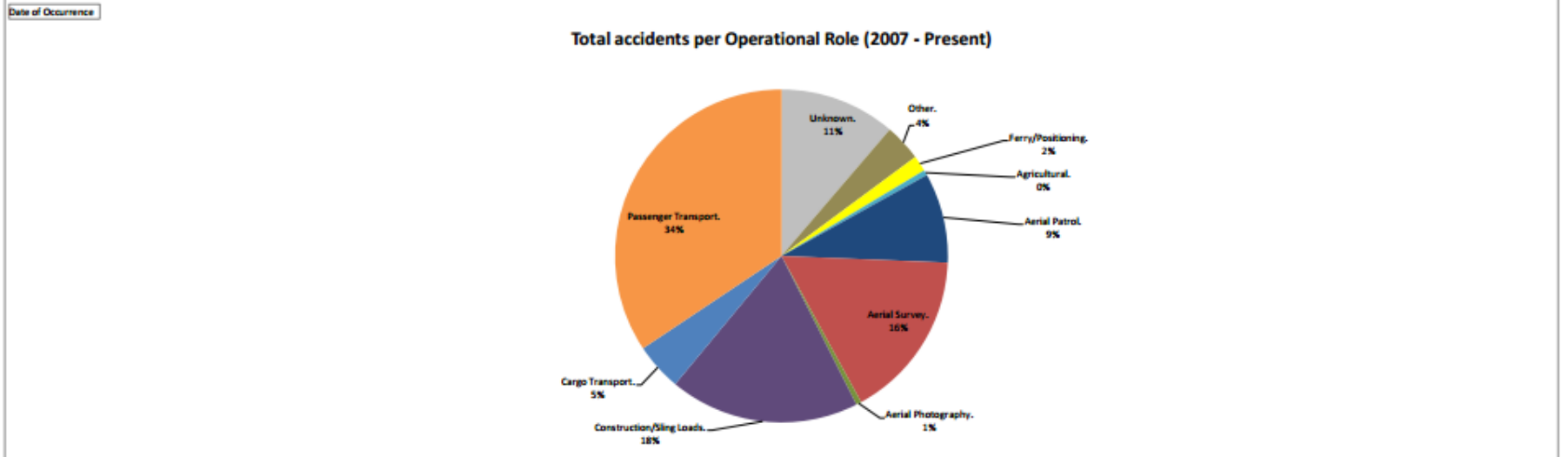
A process to ensure that the industry standard reflects the evolution of the sector

Onshore Resource Sector Accidents



World Wide Accident Stats

Onshore Resource Sector Accidents



Operational Role

Program Output – Reports and Analysis



Data Analysis Reports

Quality Reports (QA/QC)

Program Assurance Model

Aircraft Operator:

Demonstrates their ability to meet the requirements of the BAR Standard to the independent Audit Company.

Audit Companies:

Overseen by the BPO in their ability to meet the requirements of the BARS Program.

BARS Program Office (FSF):

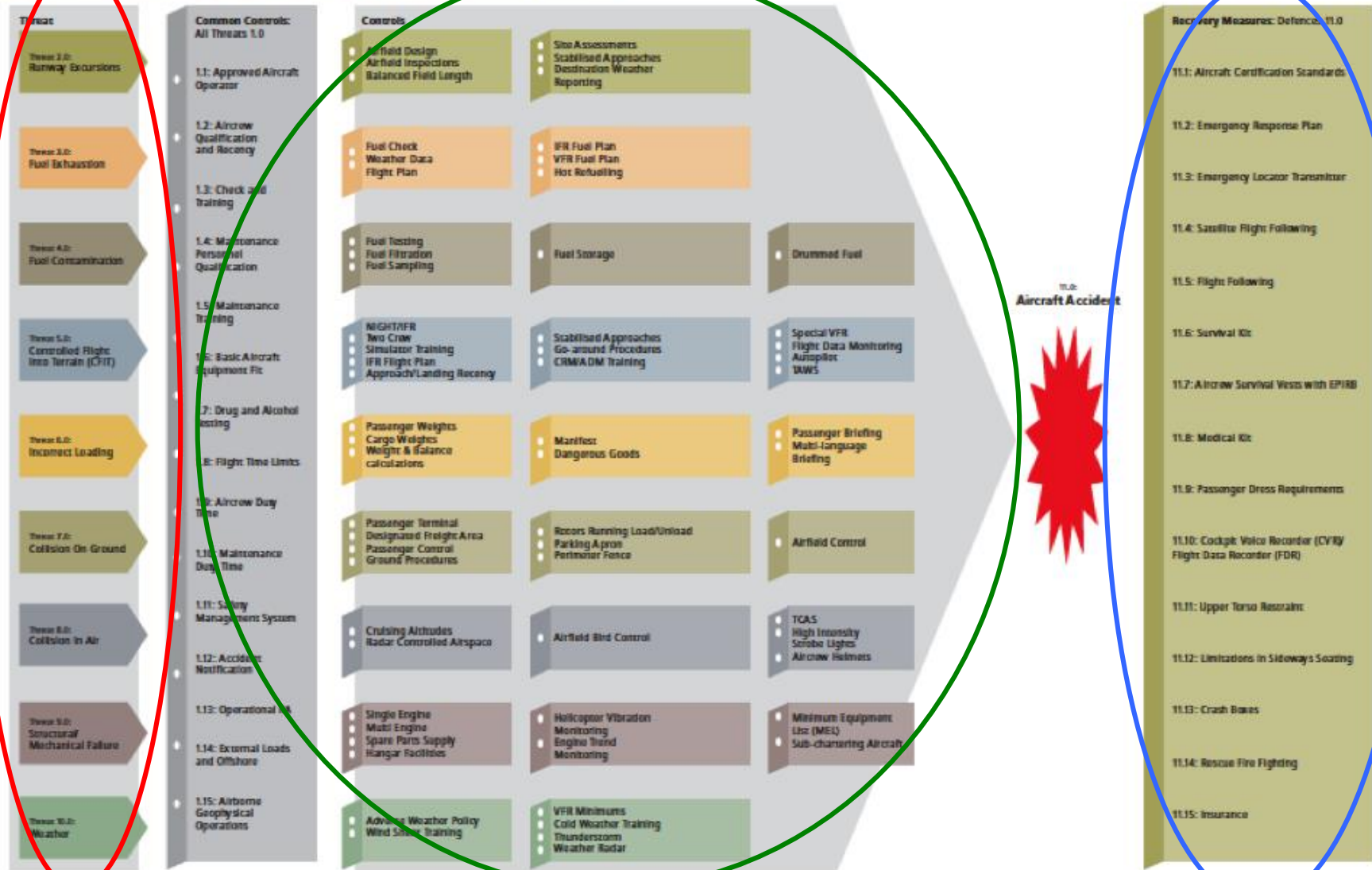
Independent management of the Program,
Independent quality checking of auditing and audit report production.

Independent External Audit:

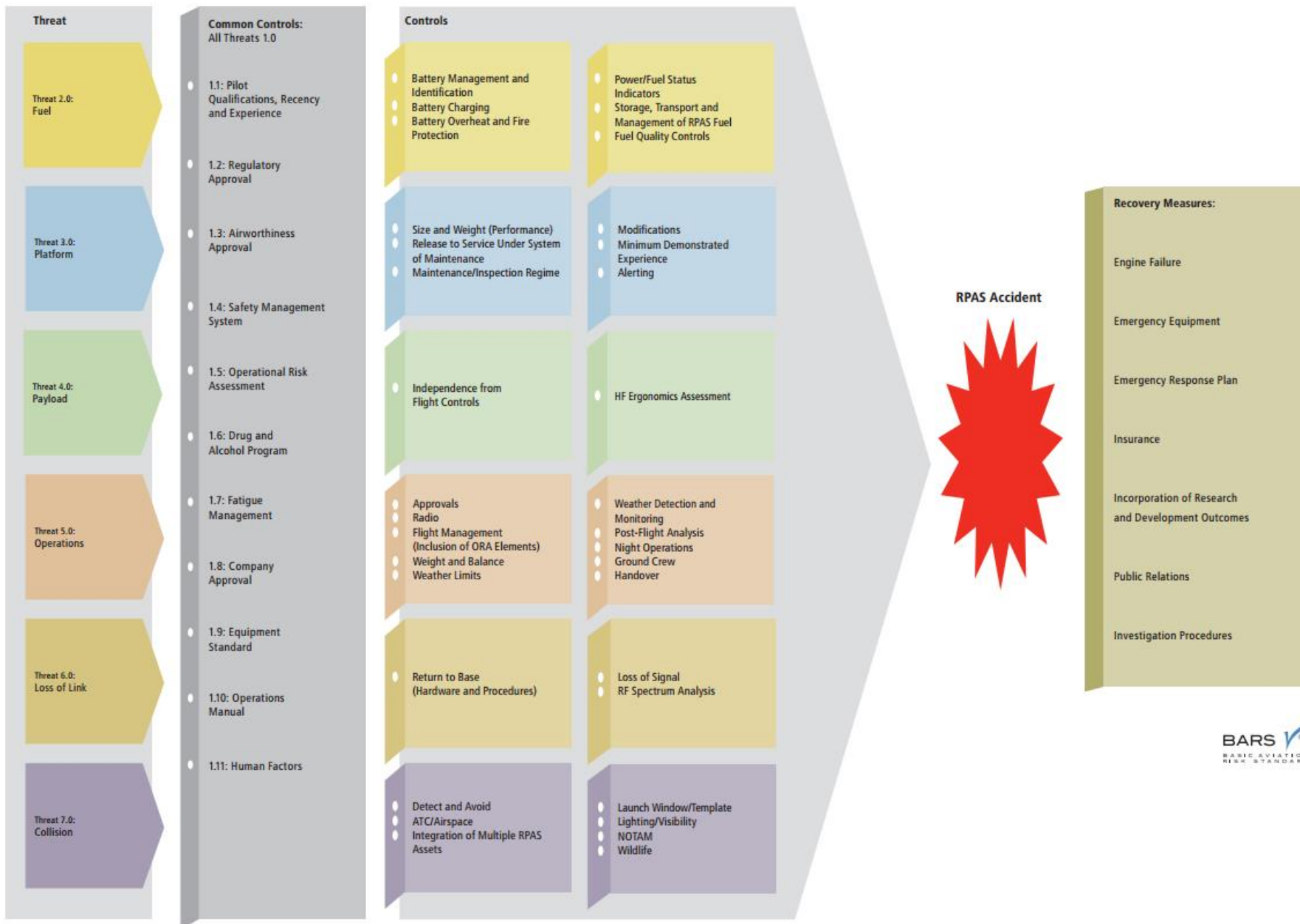
Independent evaluation of the BPO to deliver customer needs of the Program.

BARS Bow-Tie

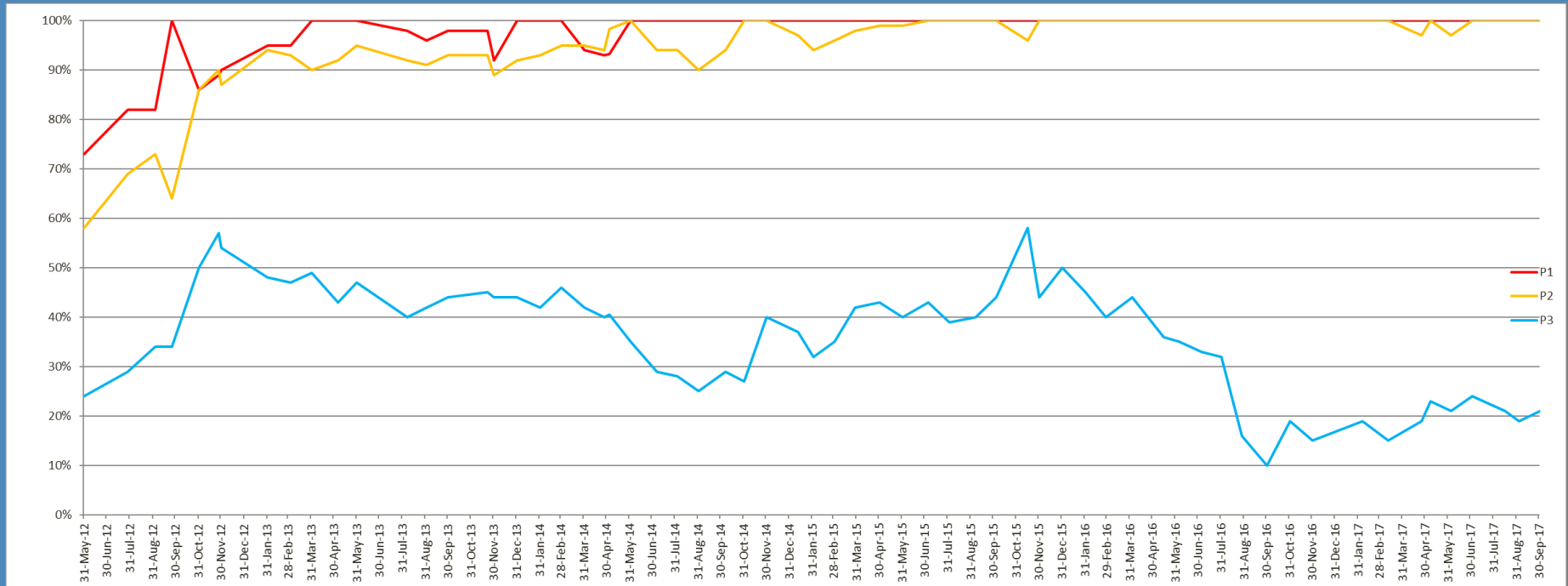
Figure 1: Schematic of Aviation Risk Management Controls and Recovery Measures



RPAS Bow-Tie

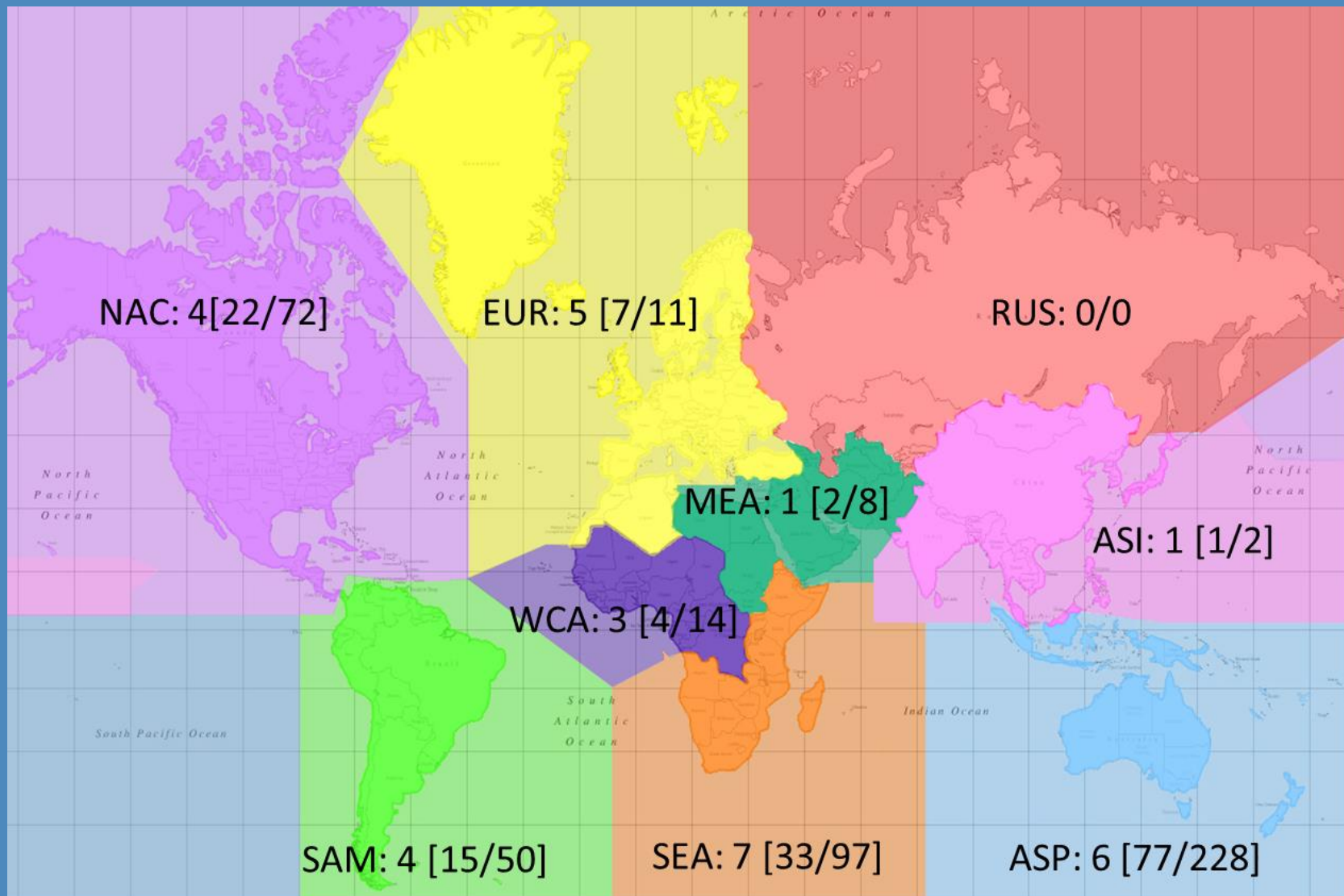


BARS Success Measurement



Close Out Rate Performance

BARS Geographic Performance



Geographic Spread
(Countries: [#Operators/#Audits])

* As at 01 July 2017

BARS Program Data/Stats



150 aircraft operators have been audited since Nov 2010

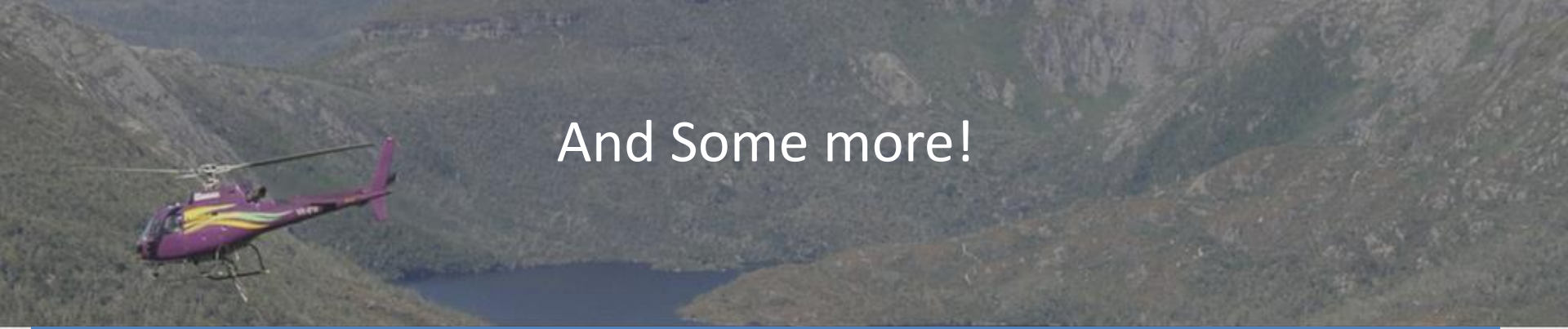
29 different countries represented

147 539 audit questions asked to see 10 602 non-conformities raised

6 data analysis reports completed on the data from the Program including external loads, geophysical operations, off shore helicopter operations and the repeat finding analysis

10 quality reports generated looking at quality control and assurance aspects of the Program





And Some more!

100% close out rate on the non-conformities in the last 18 months

50 active auditors in the Program

Across the current 108 operators listed in BARSoft we touch 62 000 employees.

Of the operators who have been audited in BARSoft there are 1003 fixed wing aircraft and 557 rotary wing aircraft listed for use on a BMO contract

17 Technical Advisory Meetings and 13 Audit Company review meetings have been conducted in the system of governance for the Program



BARS

BASIC AVIATION
RISK STANDARD

