



## Flight Safety Foundation and the BARS Program

FSF IASS #71 – Nov 2018  
Seattle

David Anderson  
BARS Program MD

## Agenda

- **BARS- the Context and Environment**
- **Program History**
- **Operations**
- **Program Initiatives and Achievements**
- **Partners**

# BARS Environment and Operations



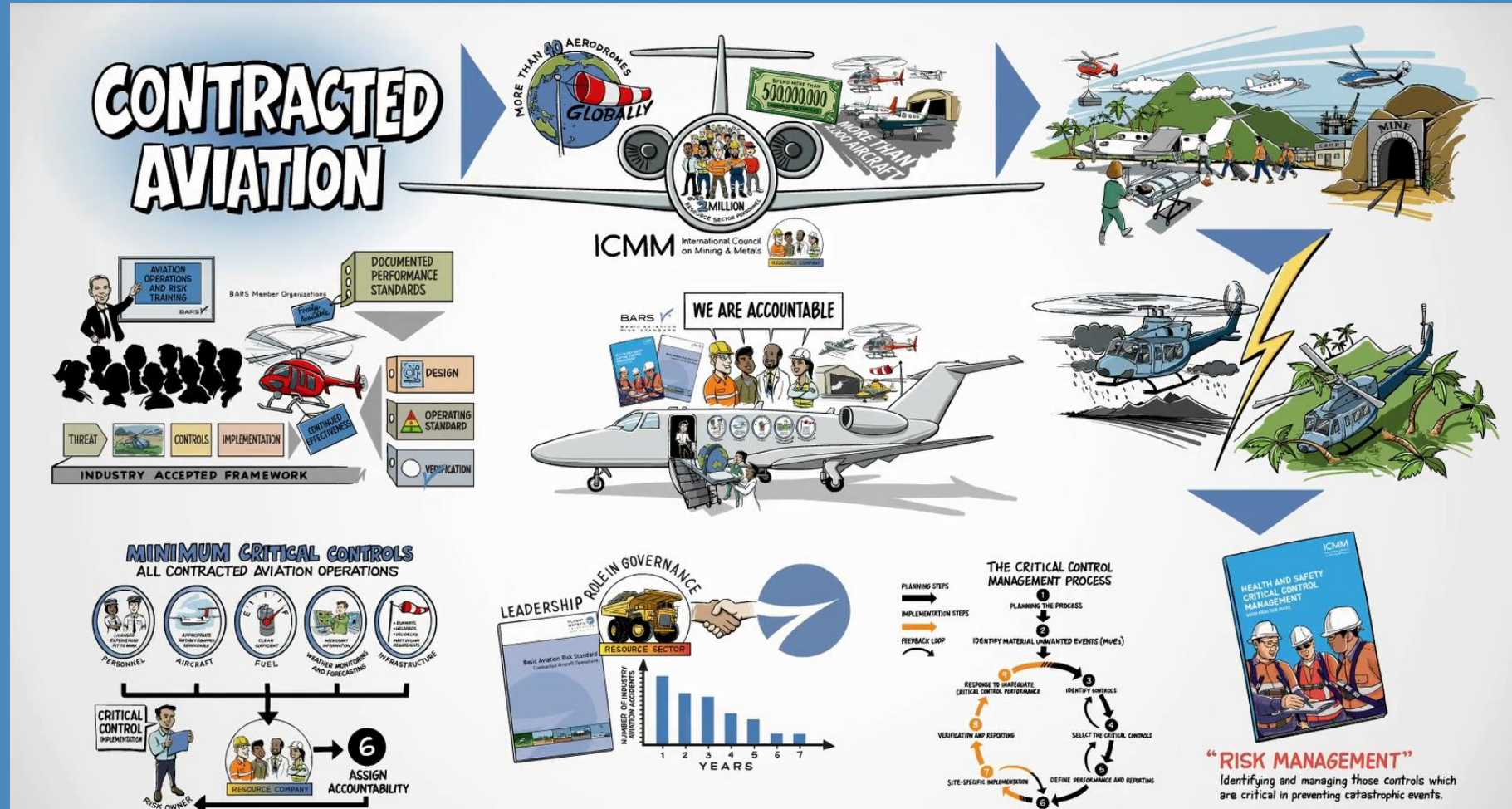


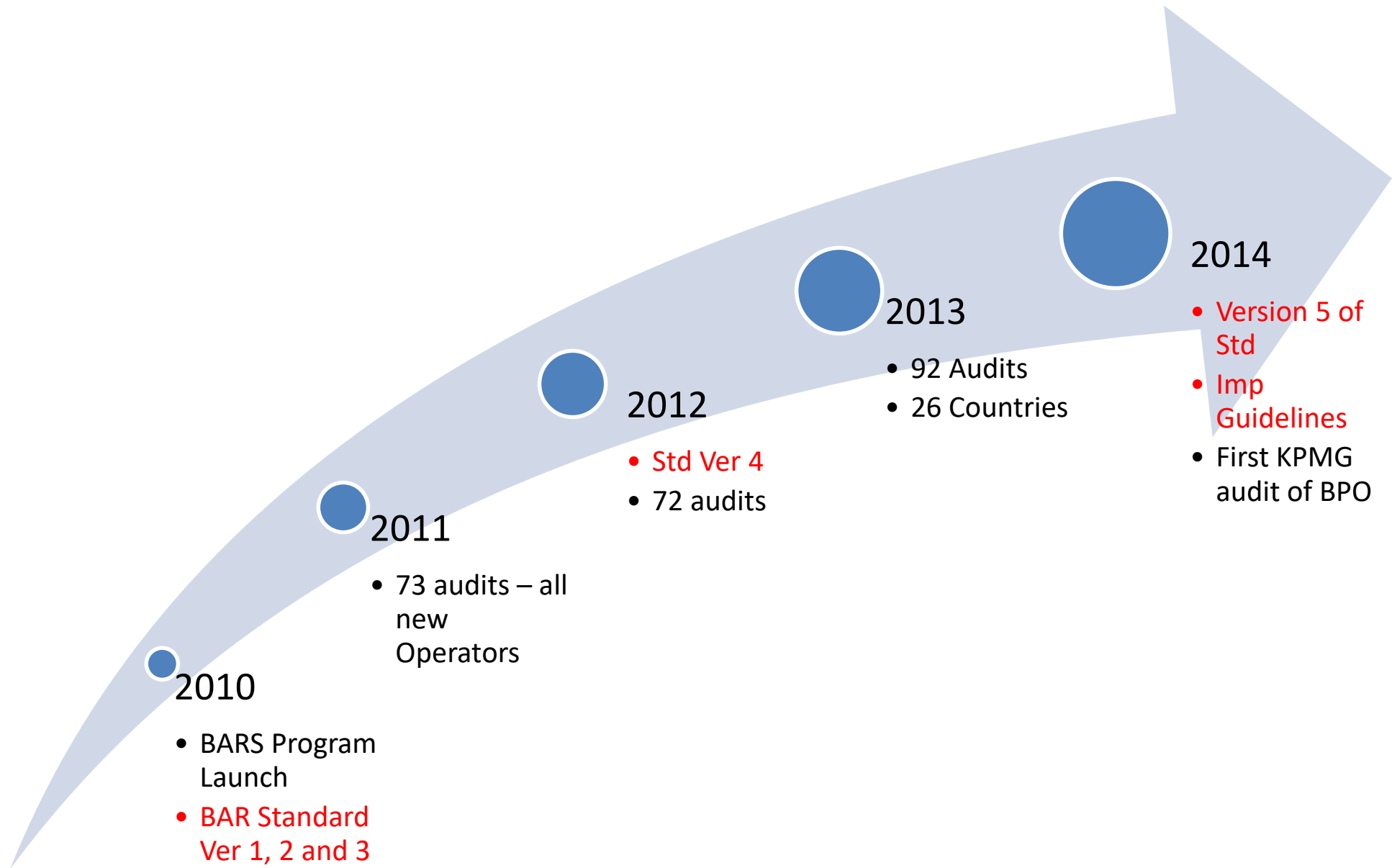
# BARS Environment and Operations

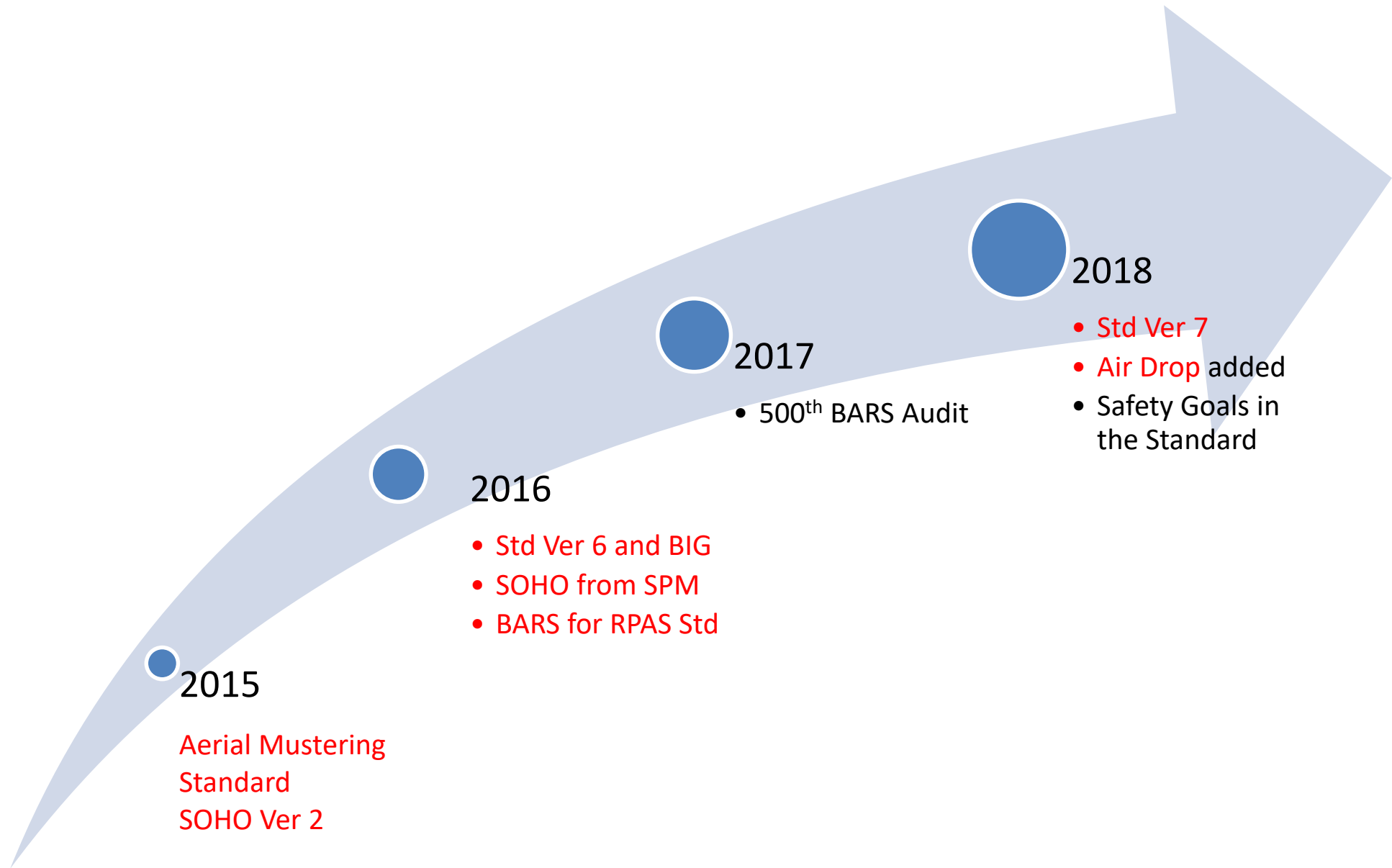




# Contract Aviation Assurance and Critical Controls







# Components of the BARS Program







From One came  
many....



# BARS Program Initiatives

## **Control 20.2: Low Level Light**

**Ensuring flight crew situational awareness with regard to available fuel reserves.**

When available for the aircraft type, a fuel low level warning light must be fitted.

## **Control 5.3: Night or IFR – Aircraft**

**Ensuring safety and redundancy for night and IFR flights.**

Flights flown at night or under IFR must be conducted in a multi-engine aircraft.

## **Control 4.5: Drummed Fuel**

**Ensuring drummed fuel is handled in a manner that will not compromise fuel quality.**

Aircraft operators who make use of drummed fuel in the course of their operations must have a procedure in place addressing the management and use of drummed fuel stock. The following performance requirements must be addressed:

## **Control 43.2: Transit Altitude**

**Eliminating the risks associated with low level operations when low level operations are not necessary.**

Transit altitude must be above 500 feet above ground level.

## **Control 24.1: Weighted Lines**

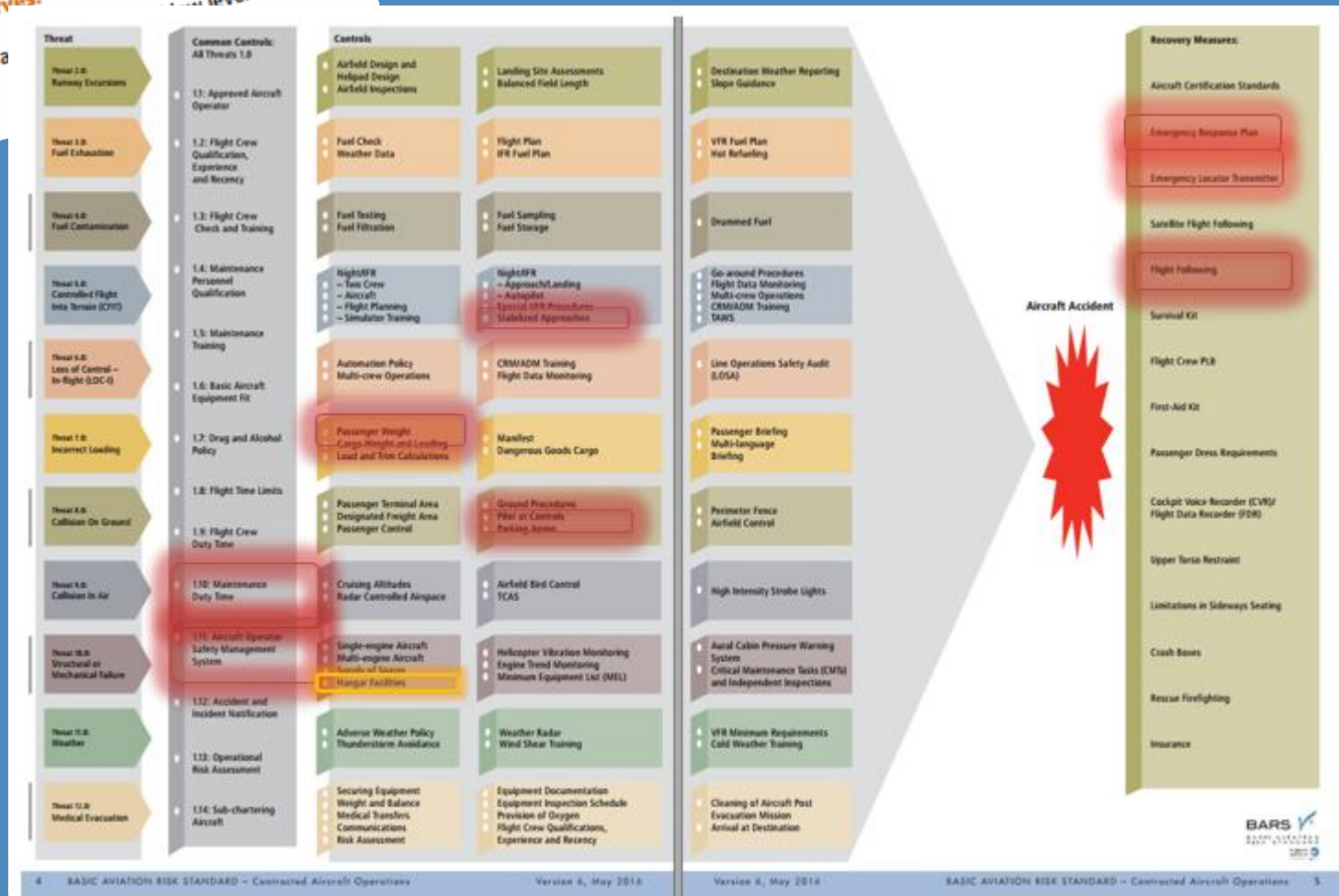
**Ensuring helicopter systems cannot be fouled by unweighted lines.**

The long-line must be suitably weighted if it is to be flown without a load attached. Implement pre takeoff checks which are designed to ensure flight crew involved in repetitive loads are aware of when the line is attached.



# BARS Program Initiatives

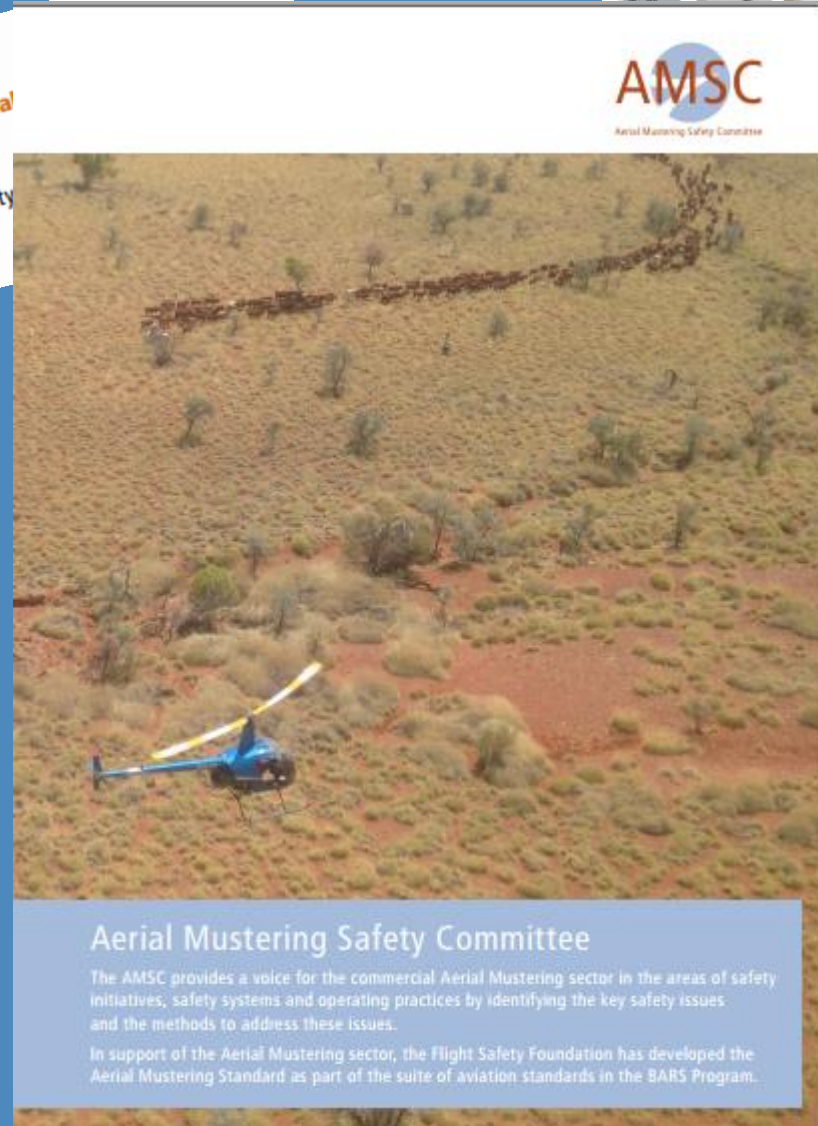
**Control 20.2: Low Level Light**  
**Ensuring flight crew situational awareness with regard to available fuel reserves.**  
When available for the aircraft, a low level light must be fitted.





# BARS Program Initiatives

**Control 20.2: Low Level Light**  
**Ensuring flight crew situational awareness of available fuel reserves.**  
 When available for the aircraft type, low level light must be fitted.



# BARS Program Initiatives

**Control 20.2: Low Level Light**  
**Ensuring flight crew situations**  
**to available fuel reserves.**  
When available for the aircraft  
light must be fitted.



BARS Data Analysis Report  
Geophysical Survey – April 2017

Drafted: Peter Ayre

*"Pursuing the continuous improvement of global aviation safety and the prevention of accidents"*



The image shows the front cover of a report titled 'Basic Aviation Risk Standard' for 'Remotely Piloted Aircraft Systems'. The top right corner features the 'FLIGHT SAFETY FOUNDATION' logo, which includes a stylized blue circular icon with a white swoosh, and the text 'independent • impartial • international' below it. The main title is centered in a large, white, sans-serif font. The background is a solid dark grey with a large, faint, light grey circular graphic element. At the bottom, there is a horizontal strip of five small images: a fixed-wing aircraft in flight, a fixed-wing aircraft on a runway, a fixed-wing aircraft at night, a fixed-wing aircraft in flight, and a fixed-wing aircraft on a runway.

**AMSC**  
Aerial Mustering Safety Committee

**Aerial Mustering Safety Committee**

The AMSC provides a voice for the commercial aerial mustering sector in innovations, safety systems and operating practices by identifying the best and the methods to address these issues.

In support of the Aerial Mustering sector, the Flight Safety Foundation Aerial Mustering Standard is part of the suite of aviation standards



**FLIGHT SAFETY FOUNDATION**  
Independent • Impartial • International

**BARS Data Analysis Report**  
Geophysical Survey – April 2017

# Air Drop Bow-Tie – BARS Ver. 7 Appendix 7

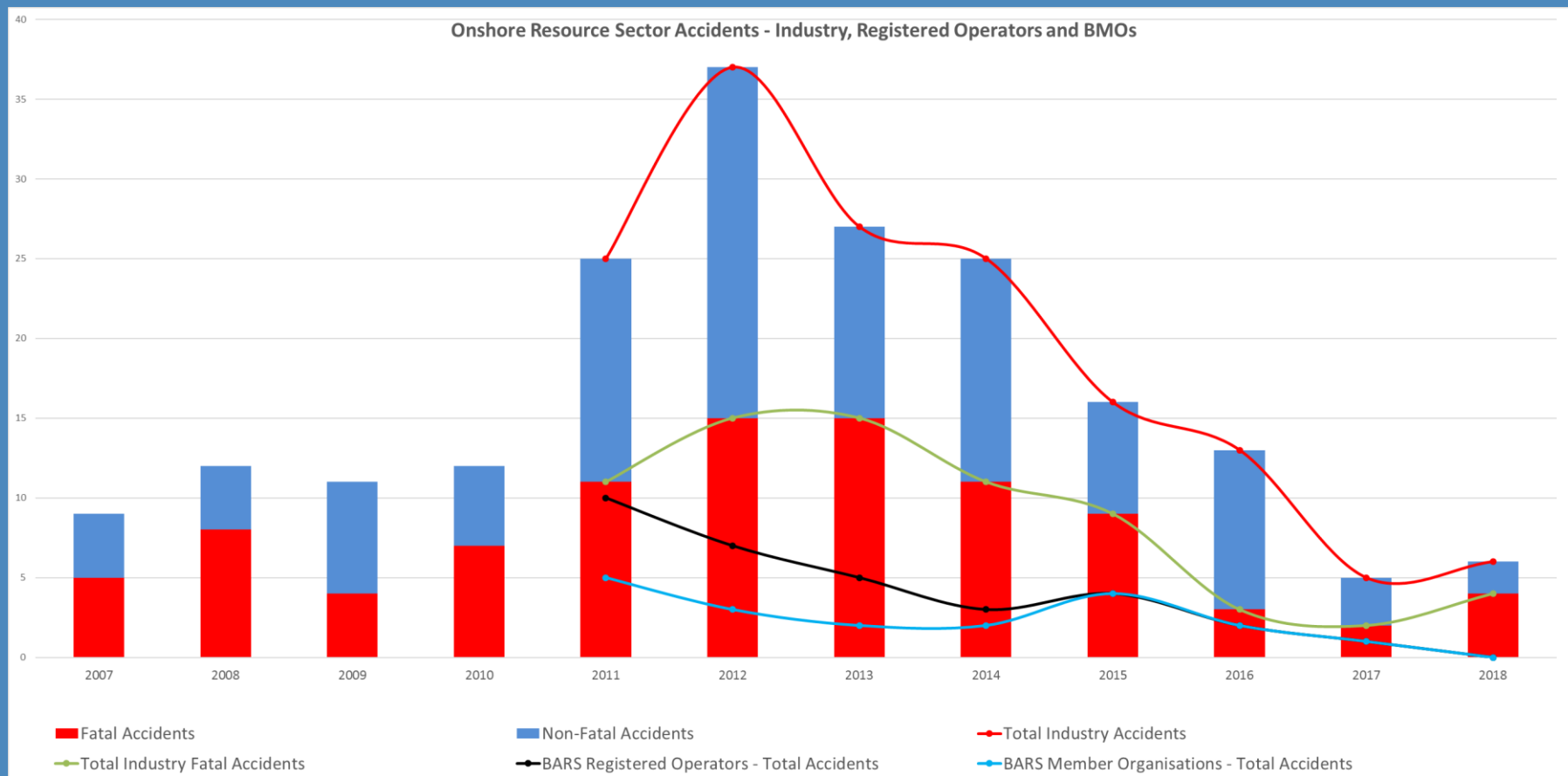


Figure 6: BARS Bow Tie Risk Model – Schematic of Aviation Risk and Recovery Measures for Air Drop.



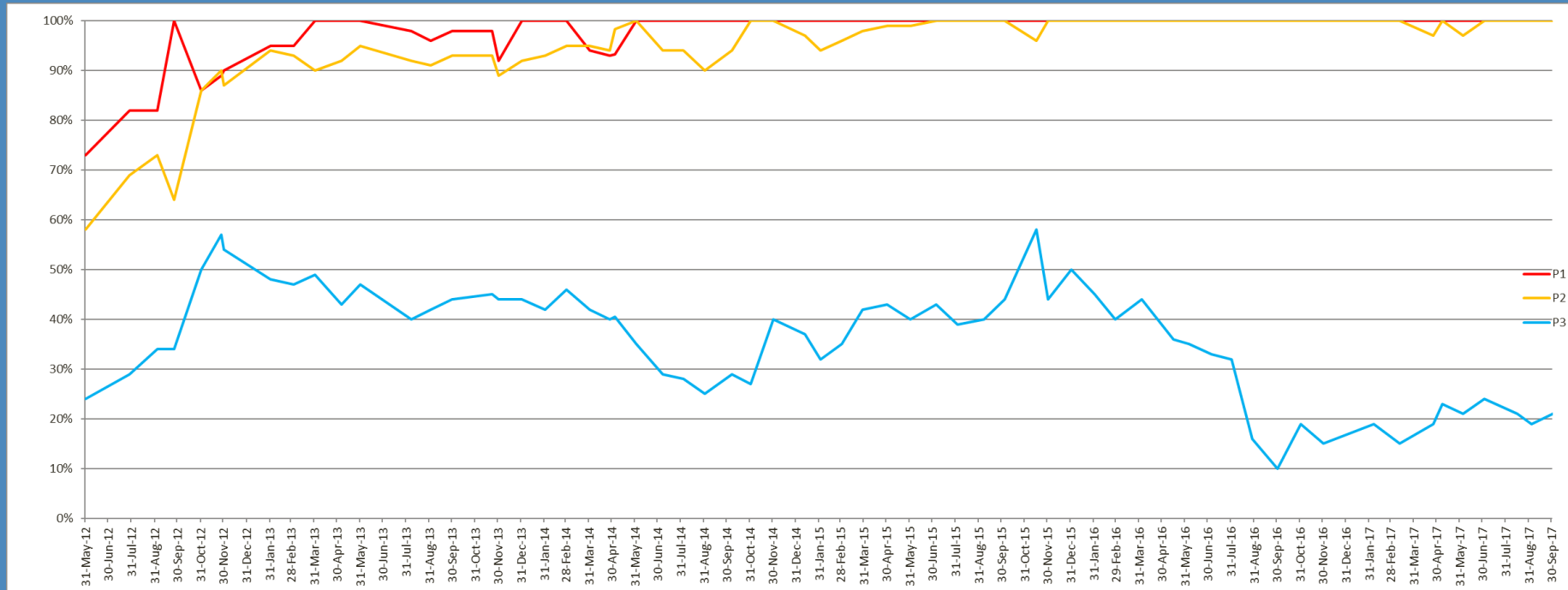


# Onshore Resource Sector Accidents



World Wide Accident Stats

# BARS Success Measurement



Close Out Rate Performance

## Partners and Collaborators



**HeliOffshore**  
*Safety Through Collaboration*

BARS  
Aircraft  
Operators



United Nations  
**World Food  
Programme**

Audit Companies

**ICMM**

International Council  
on Mining & Metals

BARS  
Member  
Organisations



# BARS

BASIC AVIATION  
RISK STANDARD



Thank you!