



Runway Safety Initiatives

Singapore Aviation Safety Seminar
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Gerardo Hueto
Assistant Director, Safety and Flight Operations - ASPAC

➤ Safety Statistics

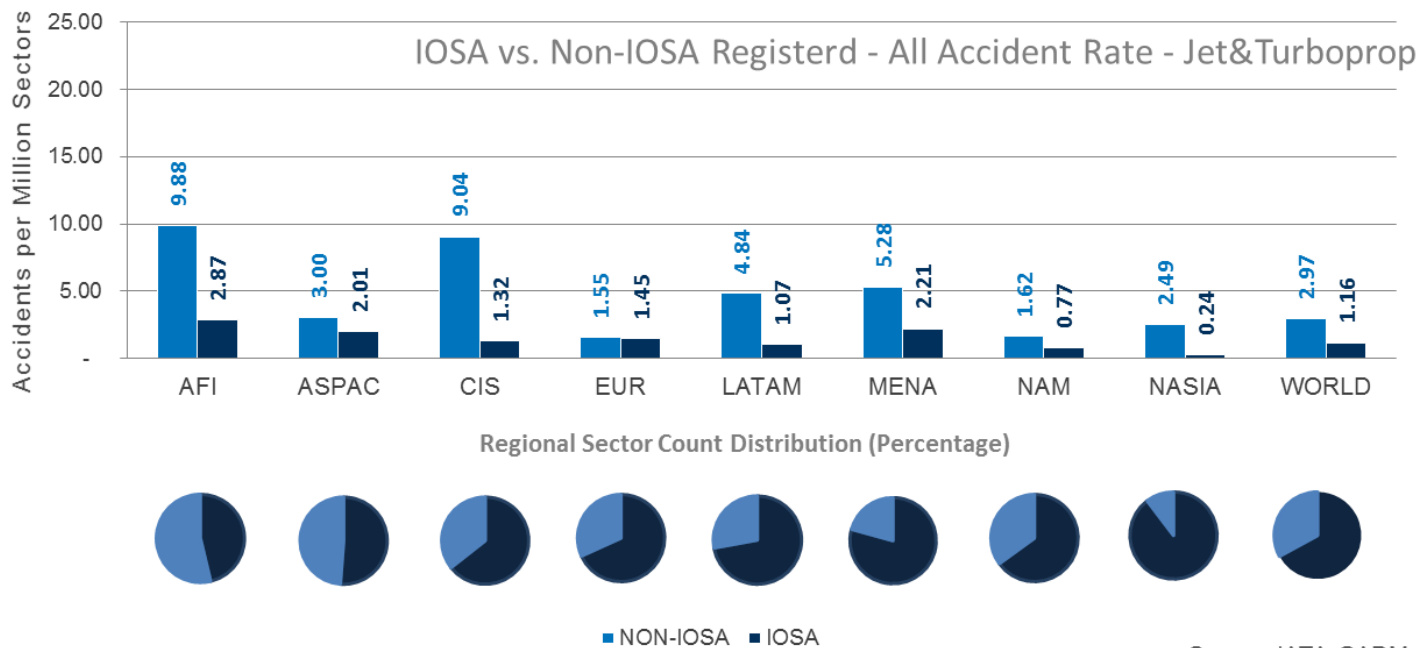
➤ Safety Strategy

➤ Focus on ALAR and Runway Safety

➤ Safety Monitoring and Information Sharing

All Accident Rate for IOSA Operators vs. Non-IOSA

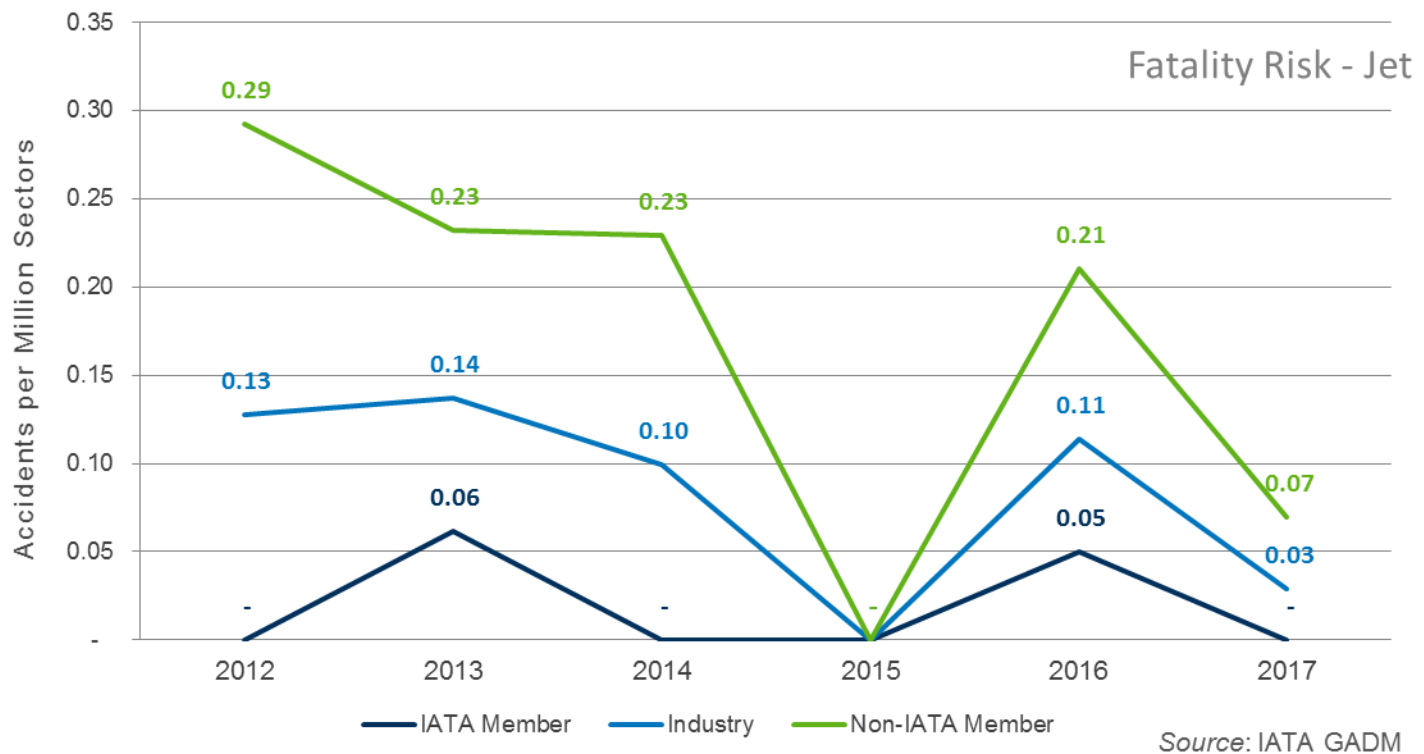
(includes Jet & Turboprop aircraft)
Period: 2013 to 2017



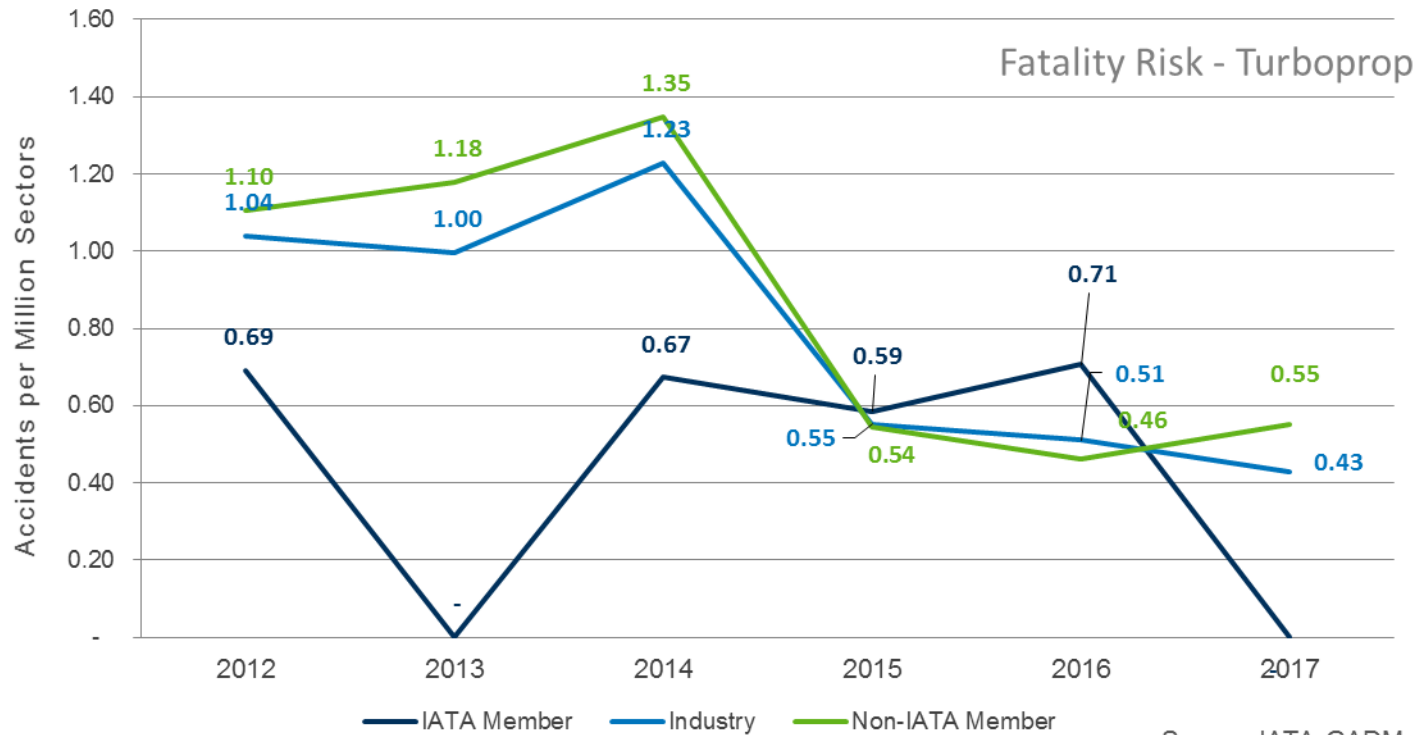
Source: IATA GADM

Jet Safety Performance:

Fatality Risk (Full-Loss Equivalents per Million Sectors)

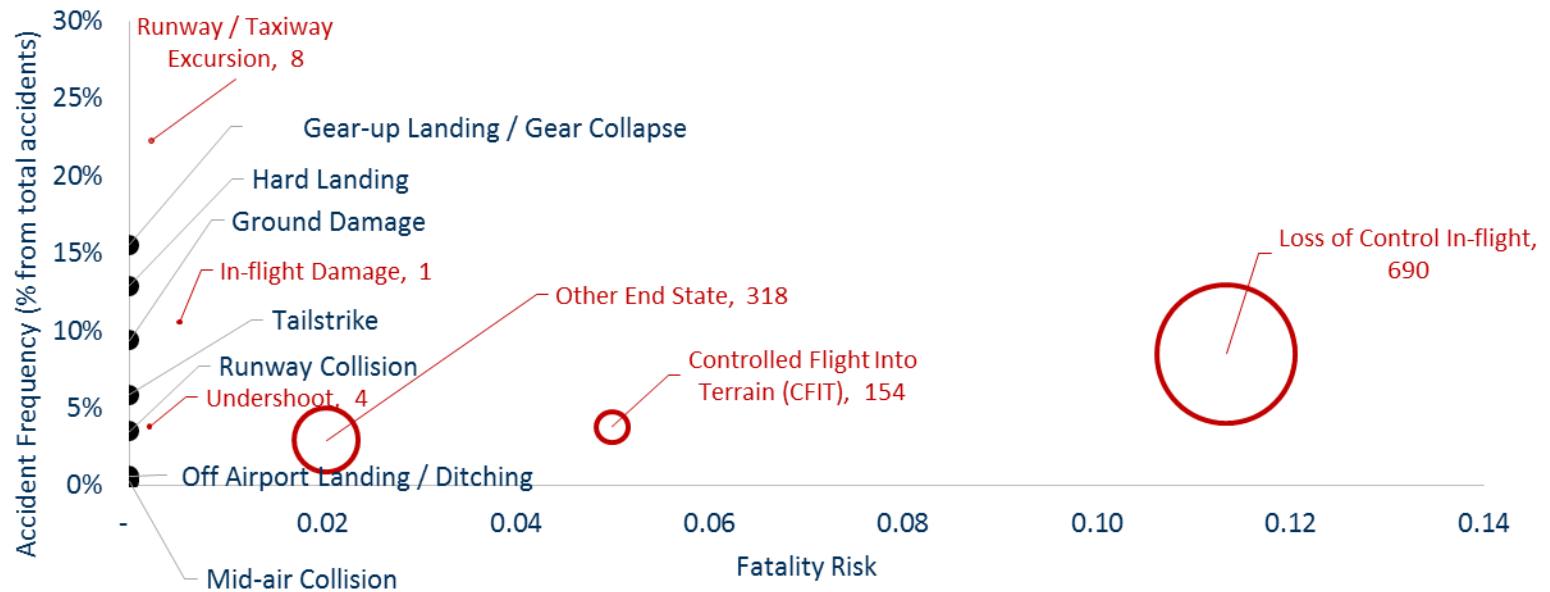


Turboprop Safety Performance: Fatality Risk (Full-Loss Equivalents per Million Sectors)



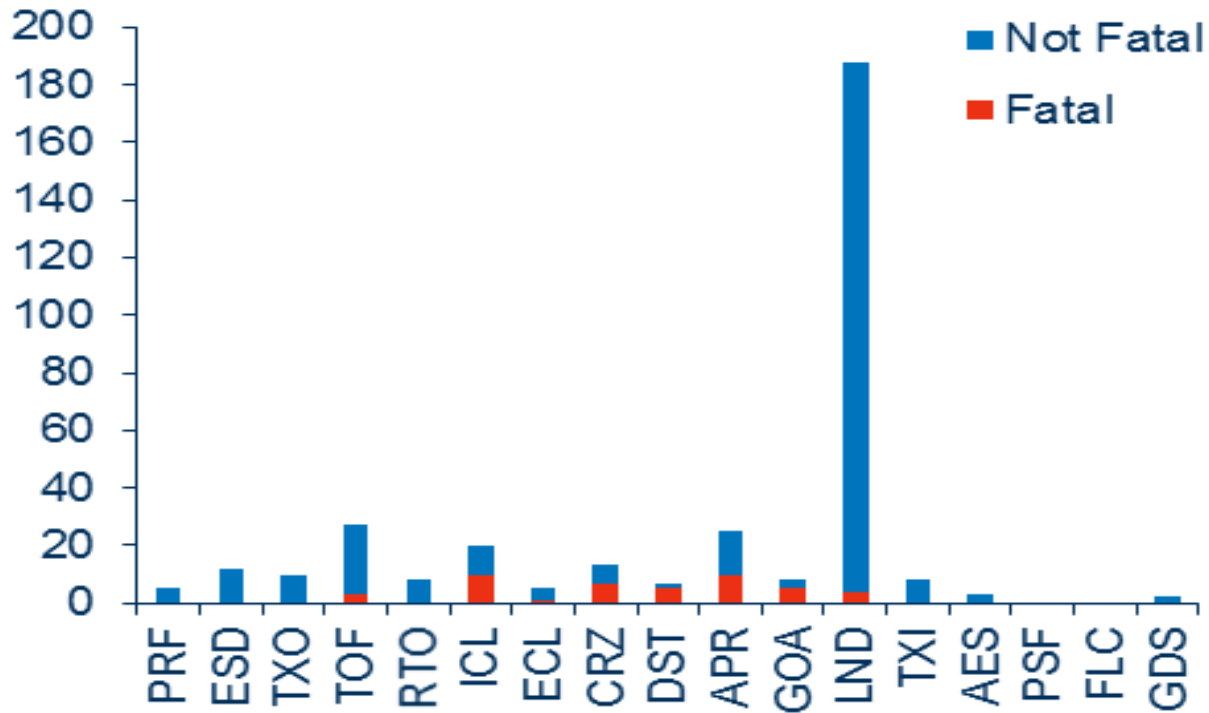
Fatality Risk

2013 - 2017



- Note:
- (1) The area of the bubble indicates the number of fatalities associated with the particular accident category, the value is displayed
 - (2) Fatality Risk: number of full-loss equivalents per 1 million flights
 - (3) Accidents not involving fatalities are displayed on this graph as black circles

Accident Counts 2013-2017



Regional Safety Strategy: Focus on Top Risks

➤ Reactive:

- Asia Pacific Regional Aviation Safety Team (APRAST) focused on **ALAR**, CFIT, LOC-I
- Mid Air Collision (MID) seen as emerging risk
- APRAST continues to develop SEIs on Top 3 Risks

➤ Proactive:

- Using Global Aviation Data Management (GADM) at APRAST to focus on top risks
- Using GADM to monitor performance – **Unstable Approaches (FDX)**

➤ Predictive:

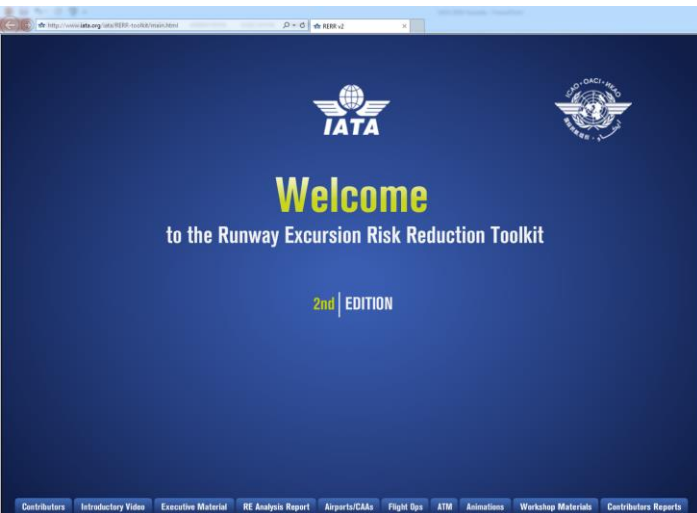
- Safety Predictive Analysis Research Centre (SPARC – Singapore)
 - **Prediction of RE Risk**

IATA Action: Unstable Approaches – 3rd Edition 11/2017



- In collaboration with IFALPA, IFATCA, CANSO
- Contains Risk Mitigation
 - Policies
 - Procedures
 - Best Practices
- Letter to All Member Airlines
 - From SVP Safety

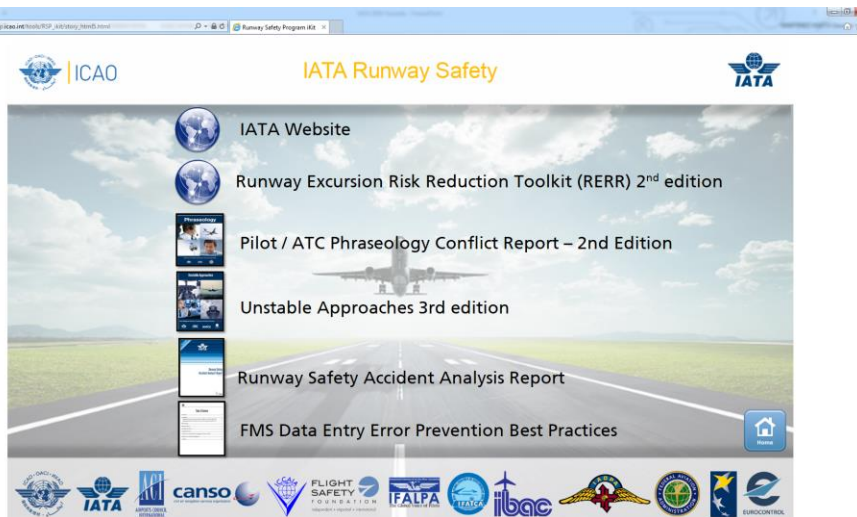
IATA Action: Runway Excursion Risk Reduction Toolkit – 2nd Edition



- In collaboration with ICAO
- Contains
 - RE Analysis Report
 - Material for:
 - Airports
 - CAAs
 - Flight Operations
 - ATM

<http://www.iata.org/iata/RERR-toolkit/main.html>

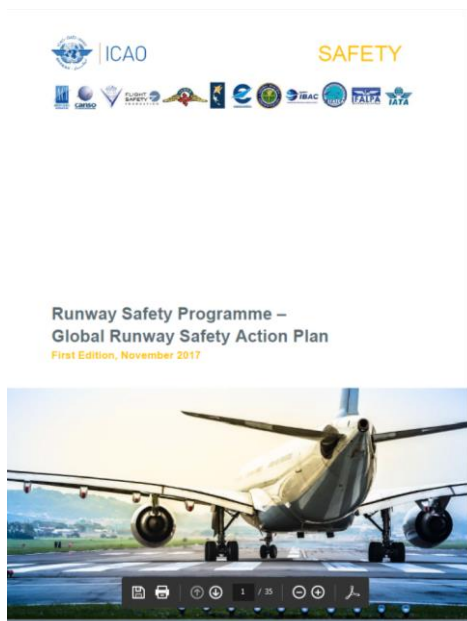
IATA Action: Runway Safety Toolkit



- Online Toolkit
- Consolidates Available Guidance

https://cfapp.icao.int/tools/RSP_ikit/story_html5.html

IATA Action: Contribution to ICAO Global RS Action Plan



- Contains Guidance for:
 - State CAAs
 - Aircraft Operators
 - Air Navigation Service Providers
 - Aerodrome Operators
 - Aerospace Industry

https://www.icao.int/safety/RunwaySafety/Documents%20and%20Toolkits/GRSAP_Final_Edition01_2017-11-27.pdf

Next Steps

- Implement
- Continue to Monitor
- Predict

Thank You

