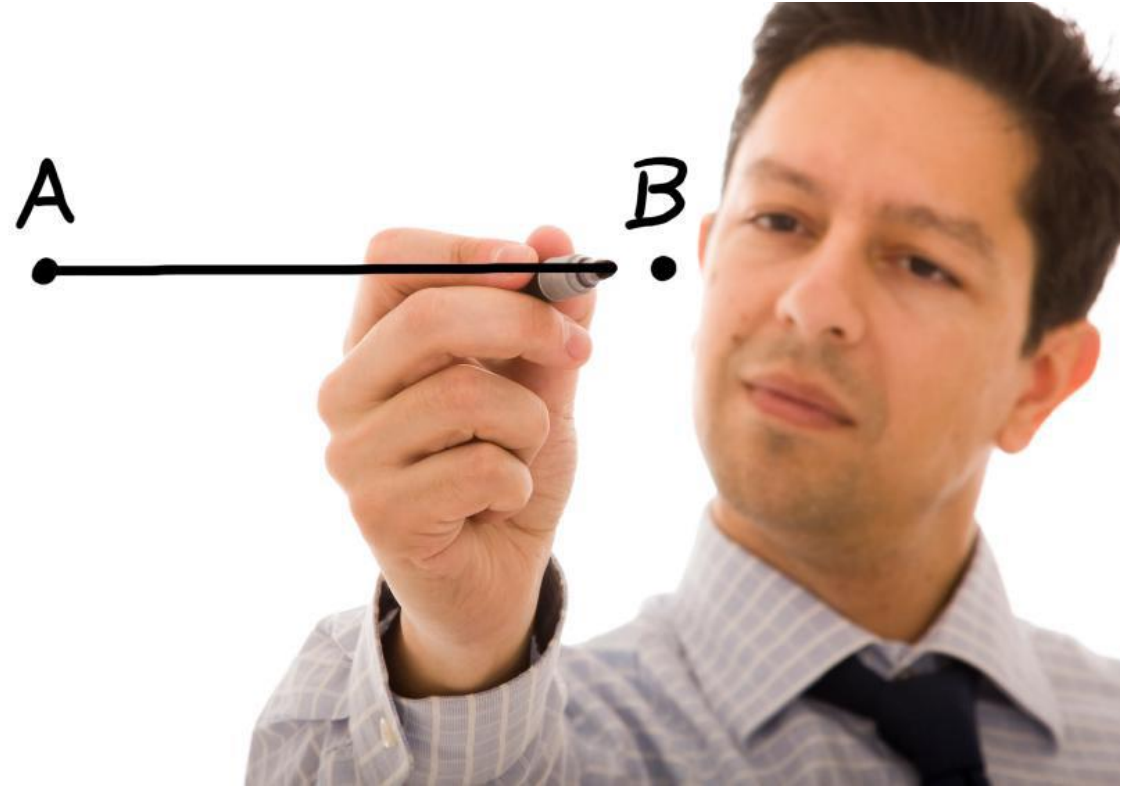


Working Together to Go Far

Dr. Hassan Shahidi
President and CEO
The Flight Safety Foundation

A Look at 2018 International Safety Performance



“Shortest path between two points is not always a straight line”

Taking Stock in the Long History of Safety Improvements

- Technology of flying aircraft
- Certification of design
- Operational procedures
- Training
- Accident investigation methods

“If the accident rate had remained the same as ten years ago, there would have been 39 fatal accidents last year. At the accident rate of the year 2000, there would have been 64 fatal accidents. This shows the enormous progress in terms of safety in the past two decades.”

Harro Ranter, Aviation Safety Network (ASN)

2018 Safety Performance (All Airlines)

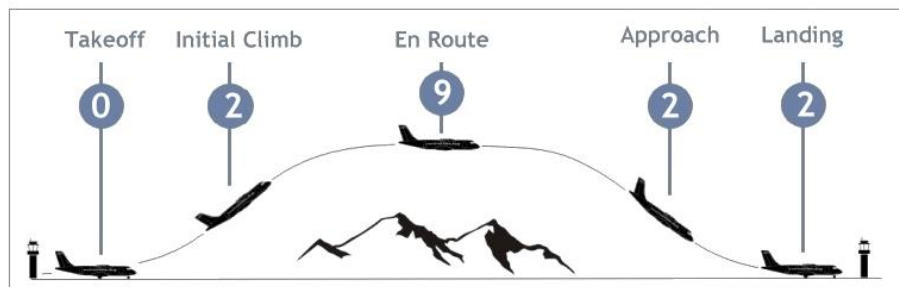
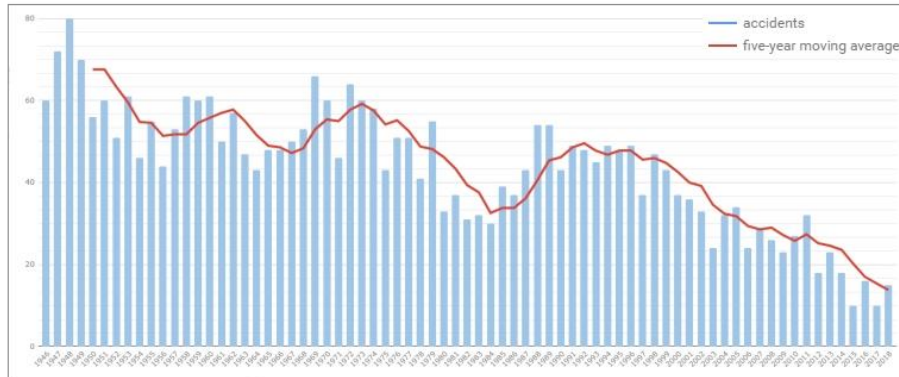
Airline Accident Statistics 2018

556

fatalities

15

fatal accidents



Aviation**SafetyNetwork**

Statistics are based on all worldwide commercial (cargo and passenger) fatal accidents involving civil aircraft with a minimum capacity of 14 passengers, from the ASN Safety Database <https://aviation-safety.net>.



 11 February Russia 71	 18 February Iran 66	 12 March Nepal 51	 17 April USA 1	 16 May Nepal 2
 18 May Cuba 112	 5 June Kenya 10	 24 June Guinea 4	 10 July South Africa 1	 4 August Switzerland 20
 9 September South Sudan 20	 28 September Micronesia 1	 29 October Indonesia 189	 9 November Guyana 1	 20 December D.R. Congo 7

So What Should Our Goal Be?

Zero Fatalities

First, We Must Understand the Future Aviation Context



Security and Trust Frameworks



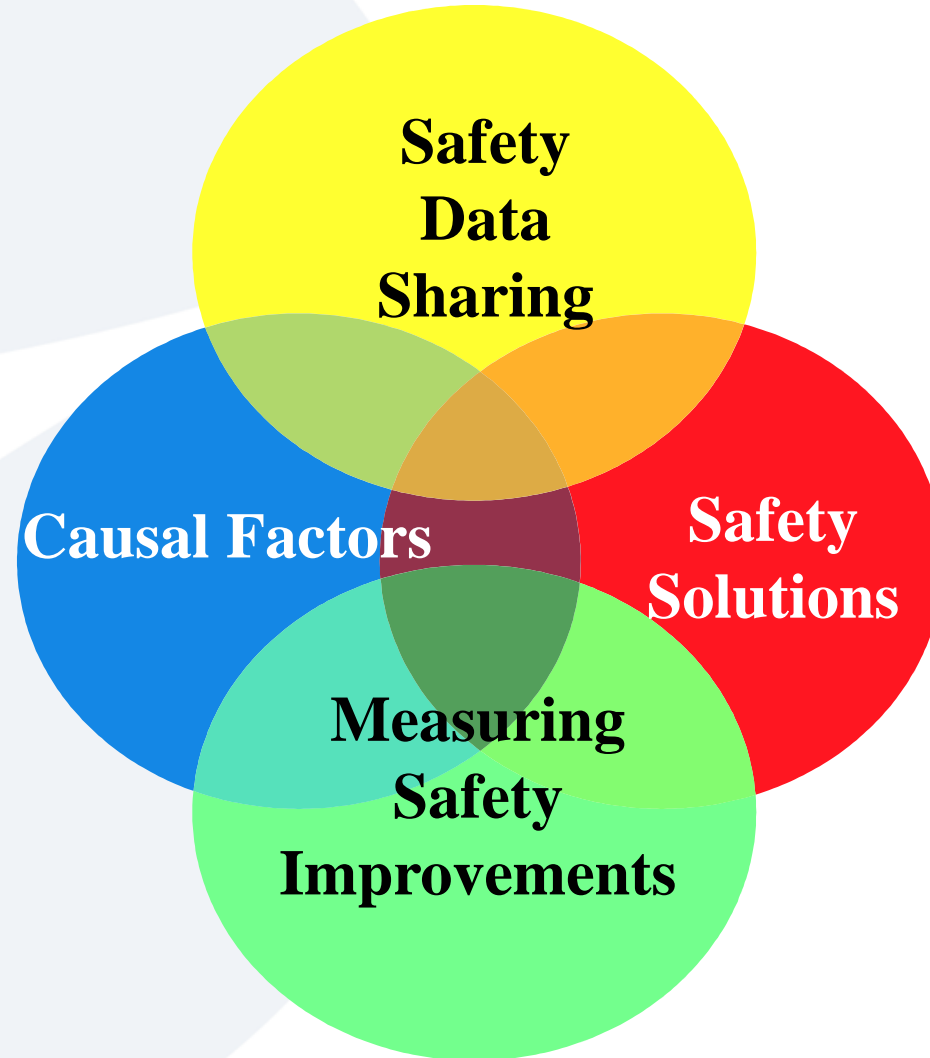
Disruptive Technologies

What Should We Do Together to Go Far?

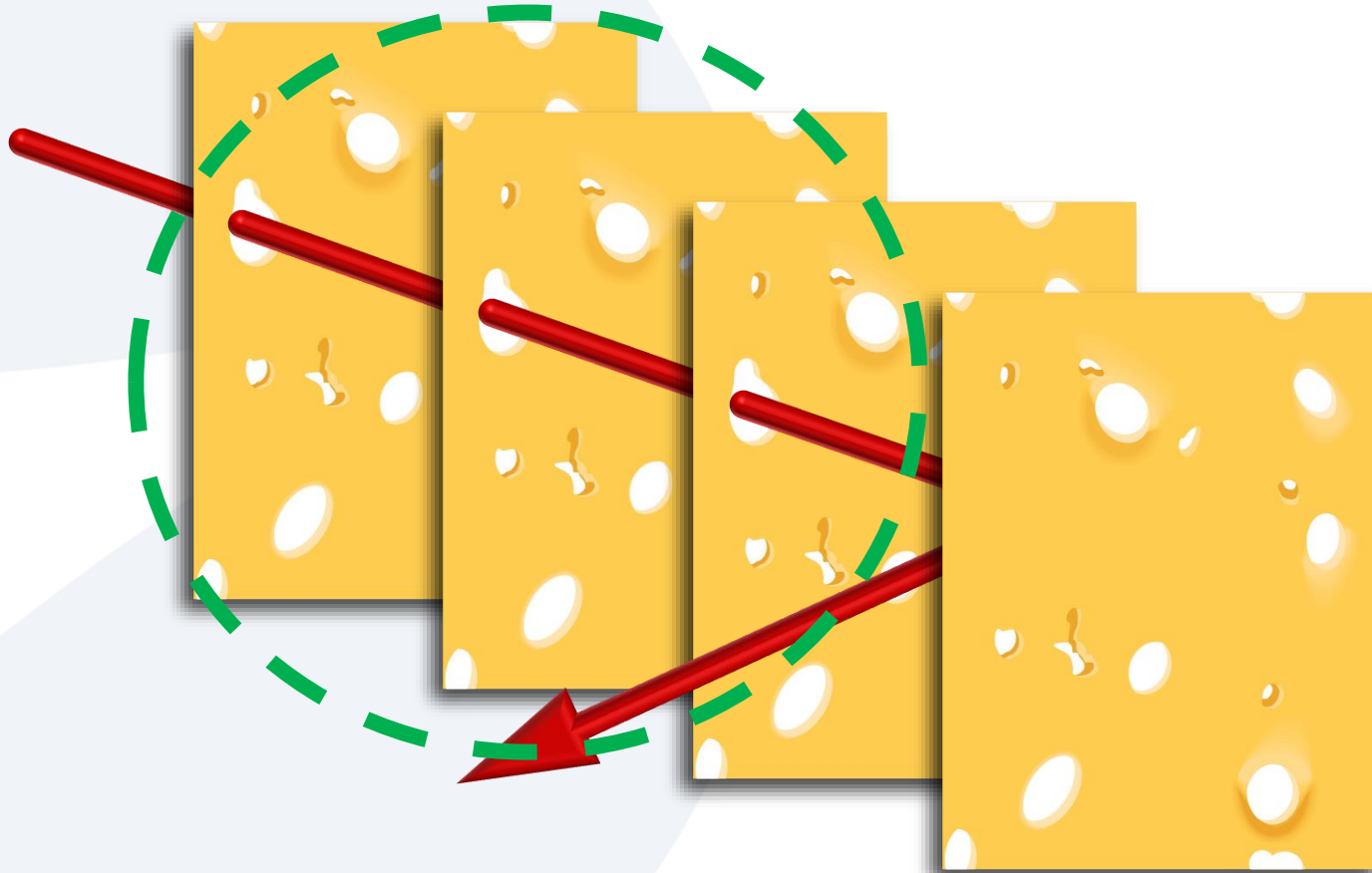
Looking Back &
Looking Forward

*Leading Voice of
Safety for the
Global Aviation
Community*

Reinforcing the SMS Framework



Identifying Systemic Issues that Break the “Causation Chain”



*Much of this data is collected, but remain
confidential and disparate*

Big Data Analytics

Climbing the “Summit of Just Culture”

- Outreach and education
- Safety reporting culture
- Data protection
- Data sharing



Driving for a Holistic Approach

[illegible]

Seminar Roadmap



This Afternoon's Plenary Session:

What's making a difference in safety?

2018 Safety Performance



4.3 billion

passengers flew safely on

46.1 million flights

The all accident rate was **1.35** per 1 million flights.

That is one accident for every

740,000 flights



There was one major jet accident for every

5.4 million flights

This was better than 2013-2017 which
was one accident for every

3.4 million flights



All accident rate
for IOSA airlines
was more than

2X

better than
non-IOSA
airlines.

Four Criteria

for accident classification
(Validated by the Accident Classification
Technical Group)

- People on board
- Commercial flight
- Turbine powered aircraft, MTOW \geq 5,700kg
- Aircraft sustained major structural damage



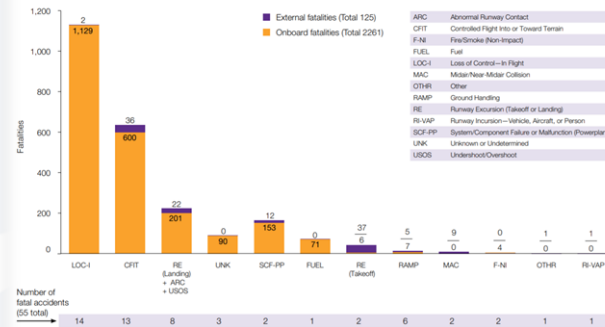
Wednesday



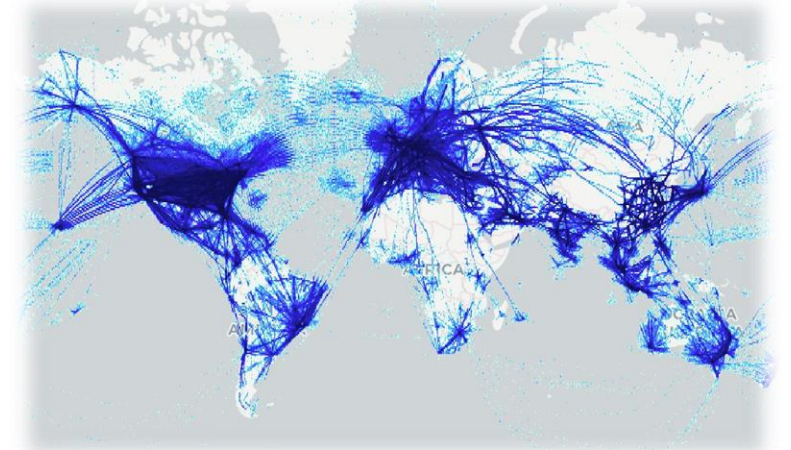
Performance in APAC

Fatalities by CICTT Aviation Occurrence Categories

Fatal Accidents | Worldwide Commercial Jet Fleet | 2008 through 2017



Note: Principal categories as assigned by CAST.
For a complete description of CAST/CAO Common Taxonomy Team (CICTT) Aviation Occurrence Categories, go to www.intaviationstandards.org.
22 | 2017 STATISTICAL SUMMARY, OCTOBER 2018



Global Aircraft Tracking



Cargo Safety

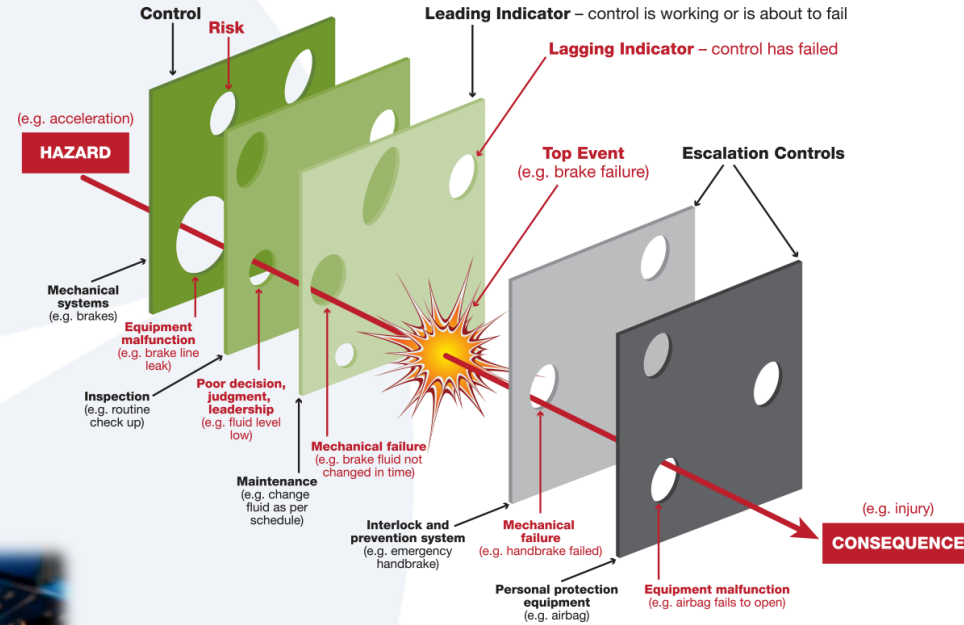


Cabin Safety

Thursday



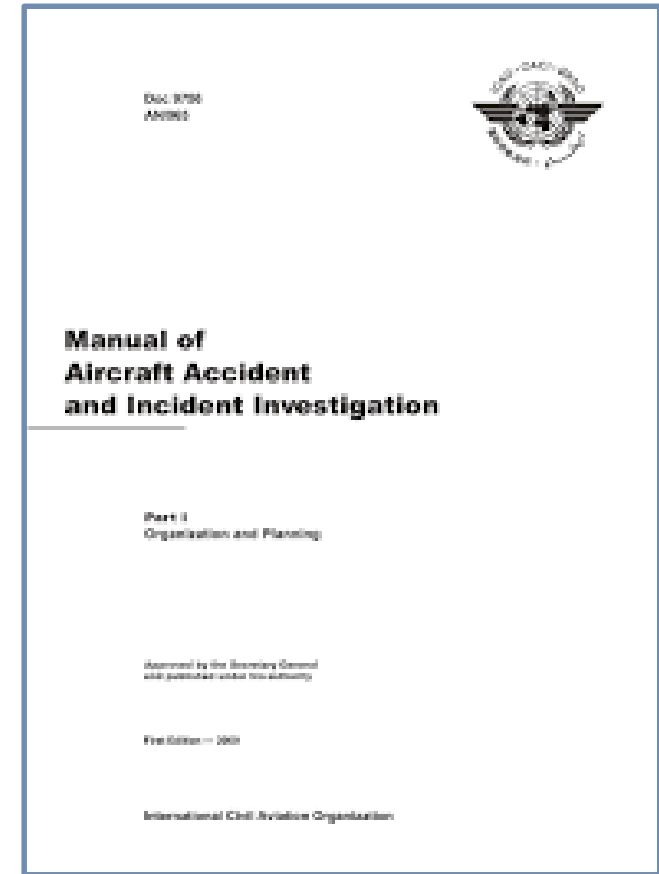
Runway Safety



**Proactive & Predictive
Risk Management**



Front Line Training



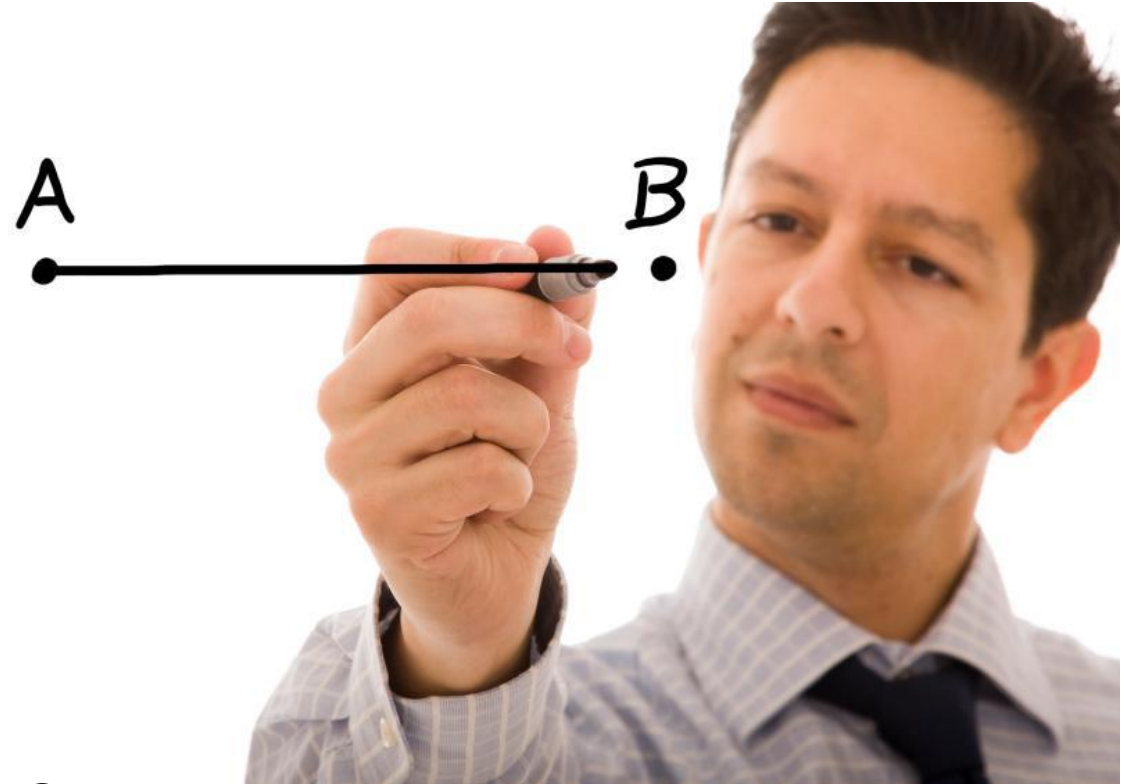
**Accident/Incident
Investigation**

Friday



Dynamic Risk Assessment: FORAS

Let's Work Together to Go Far . . .



*“We can work alone to go fast . . . or
we can work together to go far”*

Wishing You a Successful Conference



SINGAPORE AVIATION SAFETY SEMINAR
SASS 2019
March 5–7 | Singapore

Jointly Organized By:

**FLIGHT
SAFETY**
FOUNDATION


**SINGAPORE
AVIATION
ACADEMY**
A Division of the Civil Aviation Authority of Singapore

THANK YOU