



International Civil Aviation Organization

Runway Safety: The Big Picture

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ICAO 37th Assembly *October 2010* Resolution A37-6 (1/2)



The Assembly:

1. *Urges* States to take measures to enhance runway safety, including the **establishment of runway safety programmes** using a **multidisciplinary approach**, that include at least regulators, aircraft operators, air navigation services providers, aerodrome operators and aircraft manufacturers to prevent and mitigate the effects of runway excursions, runway incursions and other occurrences related to runway safety;
2. *Resolves* that ICAO shall actively **pursue runway safety using a multidisciplinary approach**; and
(...)



Associated practice no. 1:

- The runway safety programmes should be based on **inter-organizational safety management** including the **creation of local runway safety teams that address prevention and mitigation of runway excursions, runway incursions and other occurrences related to runway safety.**

ICAOs Runway Safety Programme

→ Outcomes of GRSS:

- Identification of hazards requires **collaboration** of all stakeholders
- Solutions need to be standardized to international standards and harmonized to facilitate efficient international operations
- **Runway Safety Teams** – should be established locally and hosted by the airports
- RSP partners have committed to work together to compile and promote proven solutions and endorse best practices

→ Regional Runway Safety Seminars (RRSSs):

- Promote and enhance implementation of solutions through multidisciplinary RSTs

→ Runway Safety Website www.icao.int/RunwaySafety :

- Easy access to information on public website
- Development of RST Action Plan Tool
- Share documents and toolkits from RSP Partners

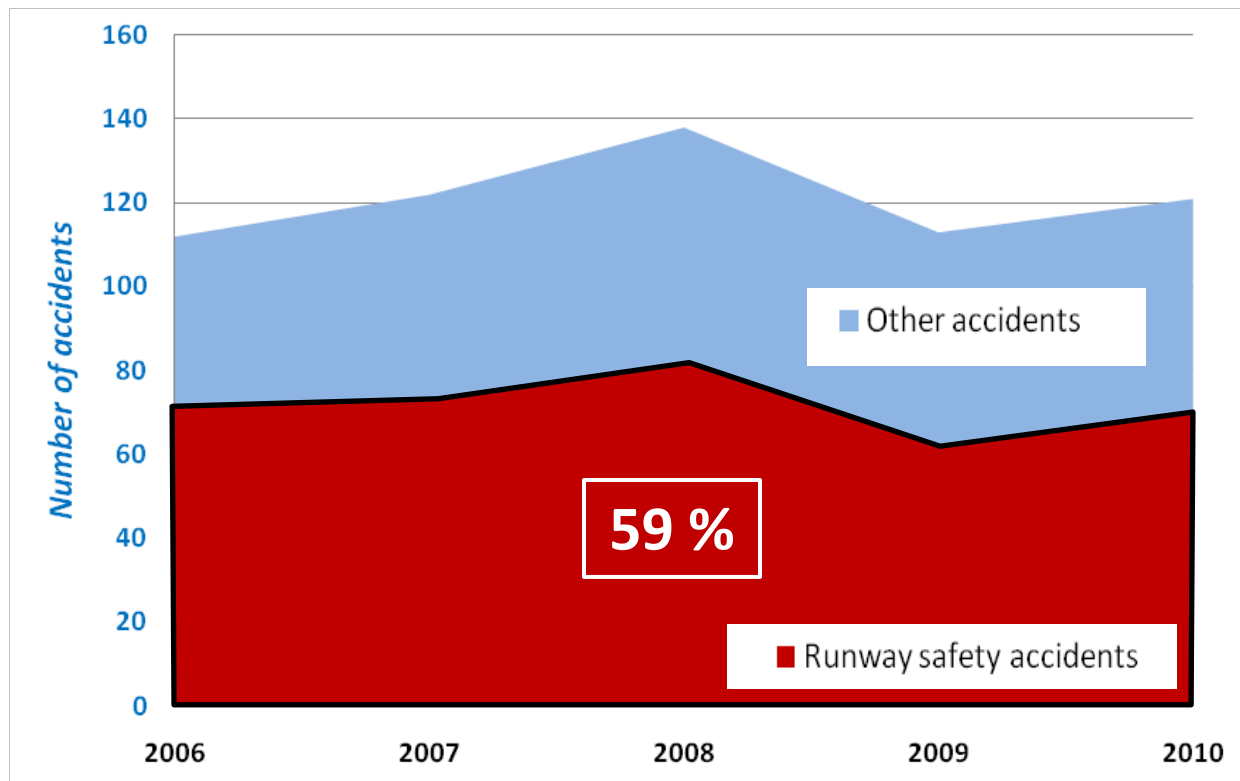
Objectives of this RRSS

- Improve runway safety outcomes
- The establishment of RSTs
- Provide tools for use by RSTs
- Develop a regional strategy to establish, promote and provide ongoing support to RSTs

Runway Safety Overview

Runway Safety Accidents

Scheduled Commercial Traffic – MTOW > 2 250 kg (Yrs 2006- 2010)



Runway Safety Accidents

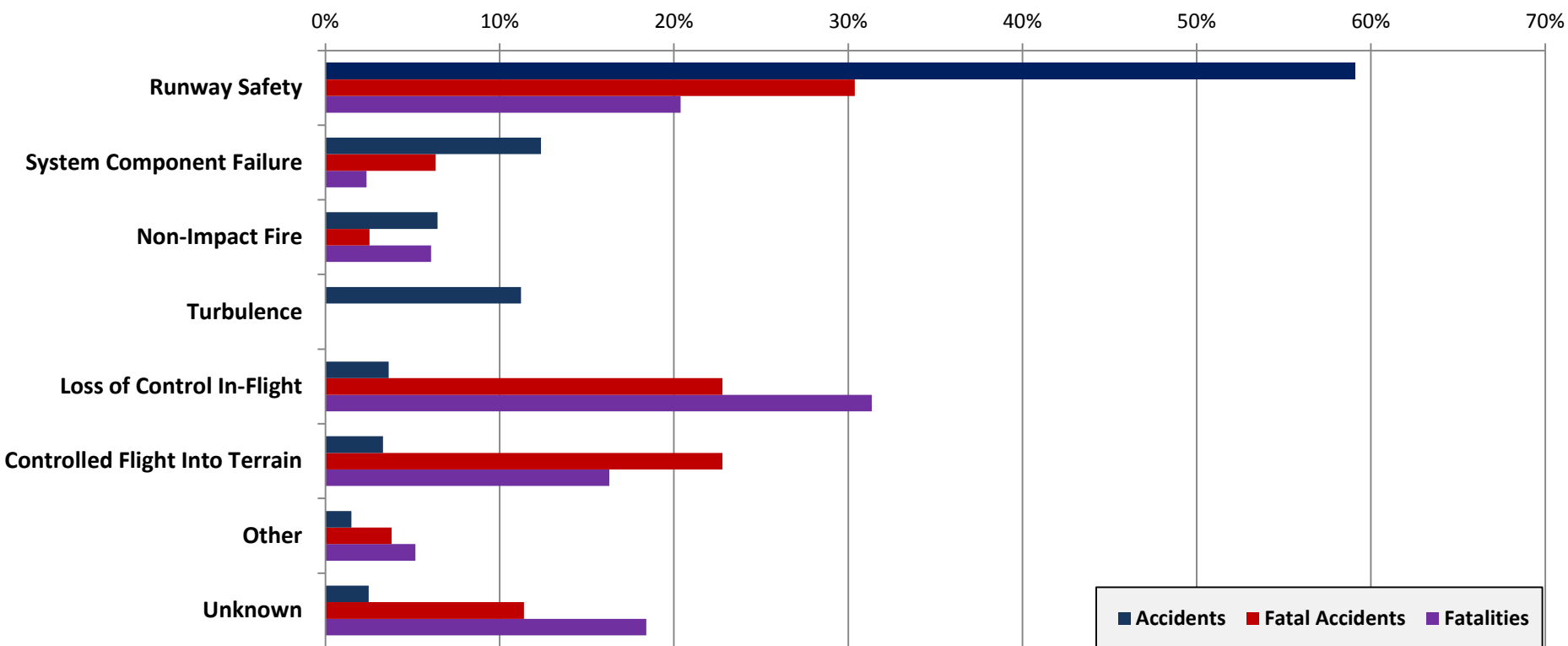
- Abnormal Runway Contact
- Bird strike
- Ground Collision
- Ground Handling
- Runway Excursion
- Runway Incursion
- Loss of Control on Ground
- Collision with obstacle(s)
- Undershoot / Overshoot
- Aerodrome

Runway Safety Overview

Worldwide

Accidents & Related Fatalities by Occurrence Categories

Scheduled Commercial Traffic – MTOW > 2 250 kg (Yrs 2006- 2010)



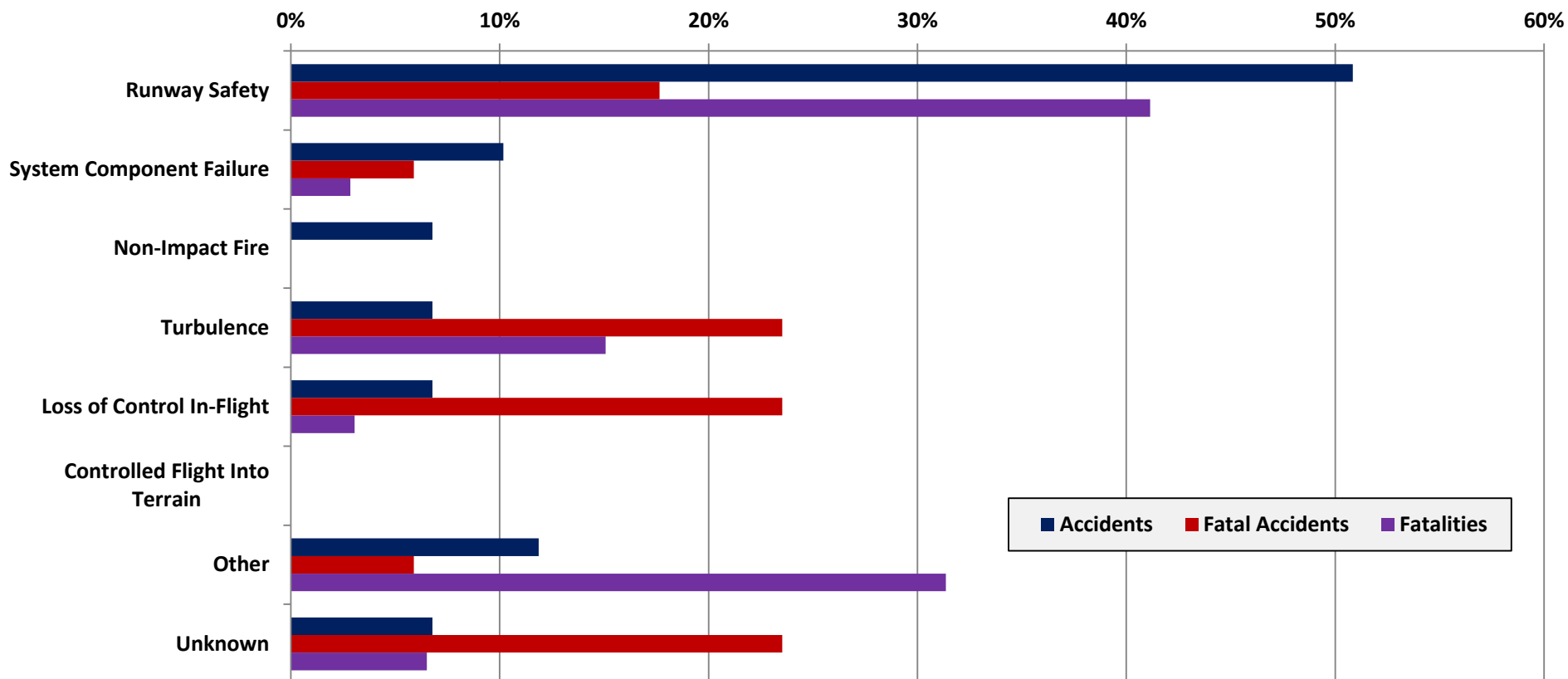
Focus on SAM Region

Runway Safety Overview

Focus on SAM Region

Accidents & Related Fatalities by Occurrence Categories

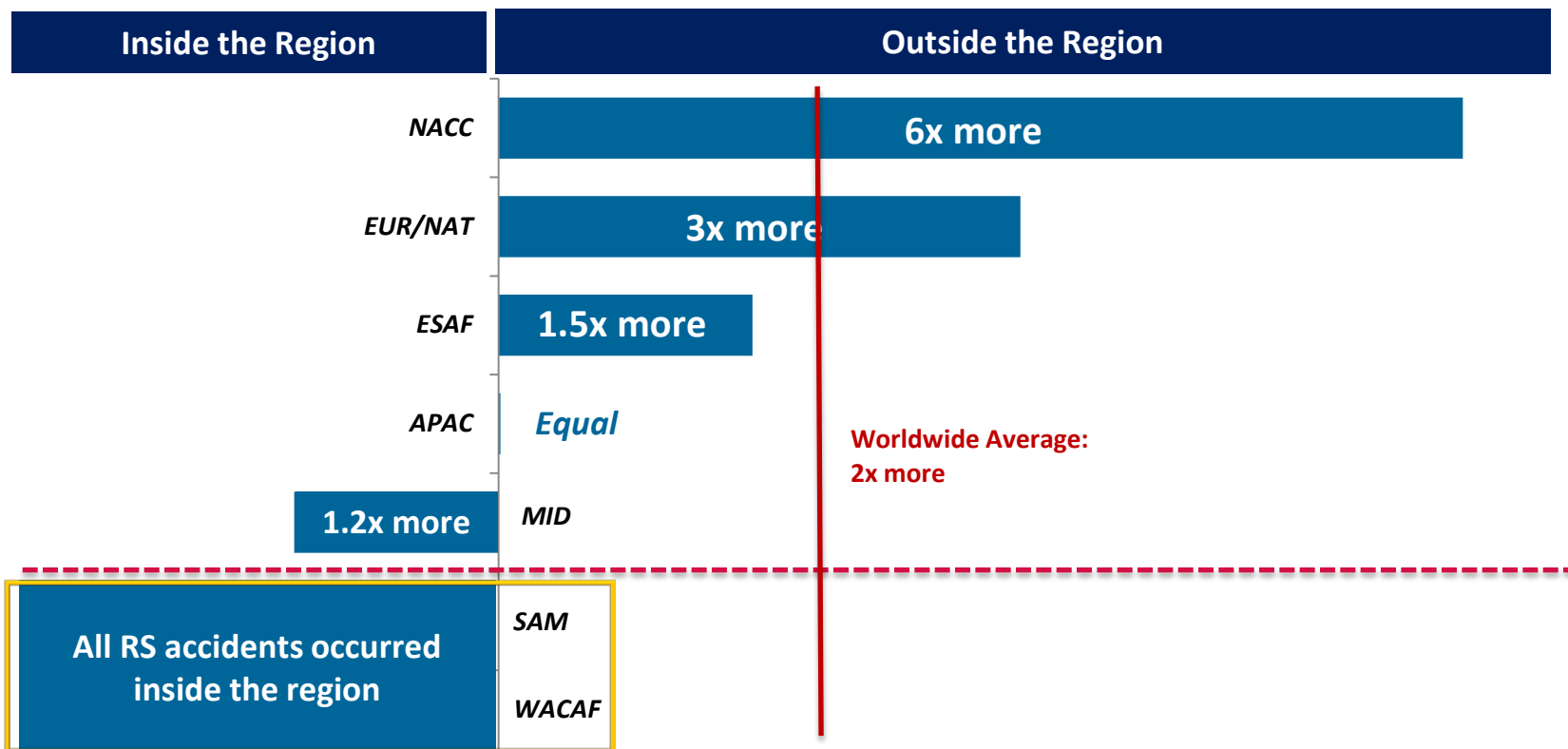
Scheduled Commercial Traffic – MTOW > 2 250 kg (Yrs 2006- 2010)



Focus on Runway Excursions / Incursions

Focus on SAM Region

Probability of air carriers experiencing an Excursion or Incursion Accident Inside or Outside their Region



SAM carriers experienced all Runway Excursion inside the SAM region

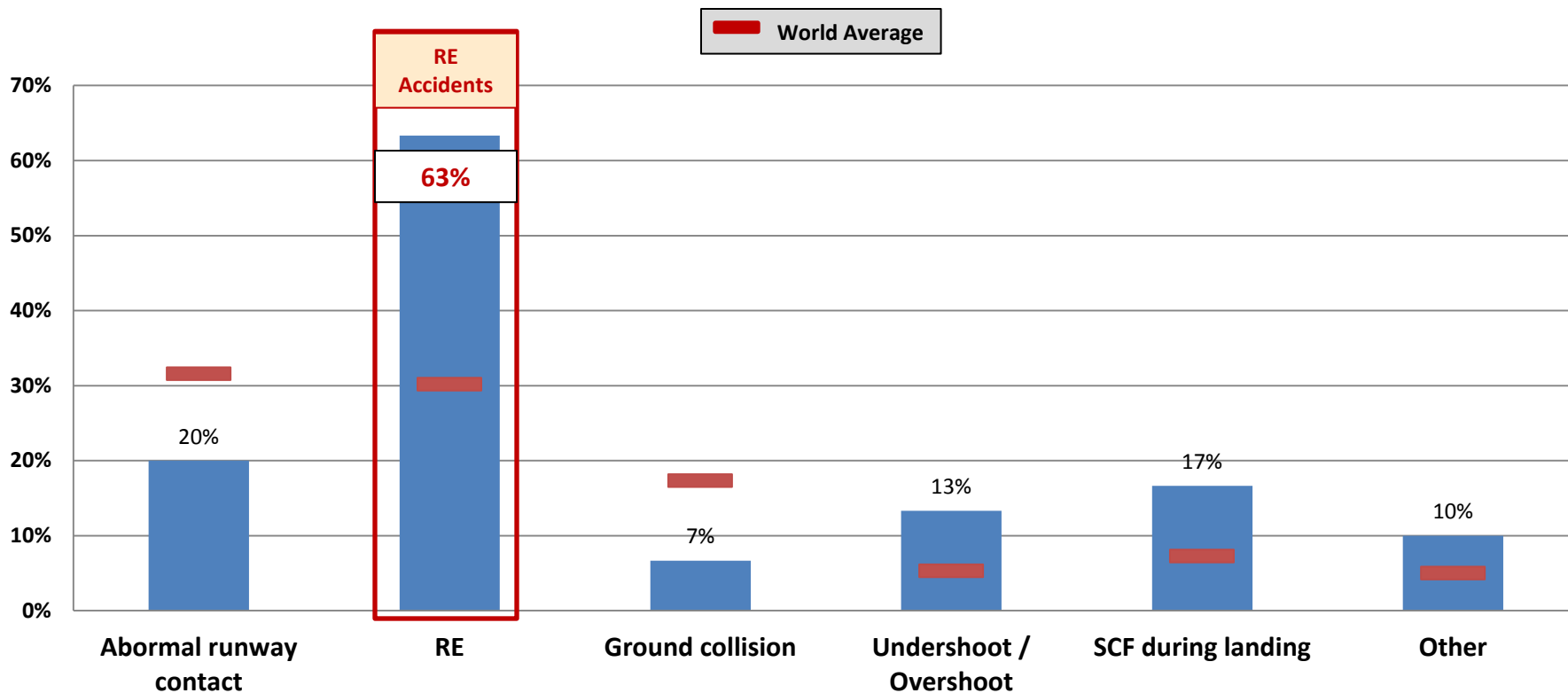
Focus on Runway Safety Related Accidents

Focus on SAM Region

Accidents & Related Fatalities by Occurrence Categories

Scheduled Commercial Traffic – MTOW > 2 250 kg (Yrs 2006- 2010)

30 accidents by occurrence category



Role of Runway Safety Teams in the SAM Region



- Identify and develop mitigation options to:
 1. **Reduce** the number of runway safety related Accidents at individual airports
 2. **Improve** the survivability after a runway excursion

This seminar is designed to facilitate the formation of runway safety teams at individual airports