



ICAO SAFETY

# *Runway Safety*

## BIG PICTURE

Mohamed Elamiri, ICAO  
Dubai, UAE - 2 to 4 June 2014





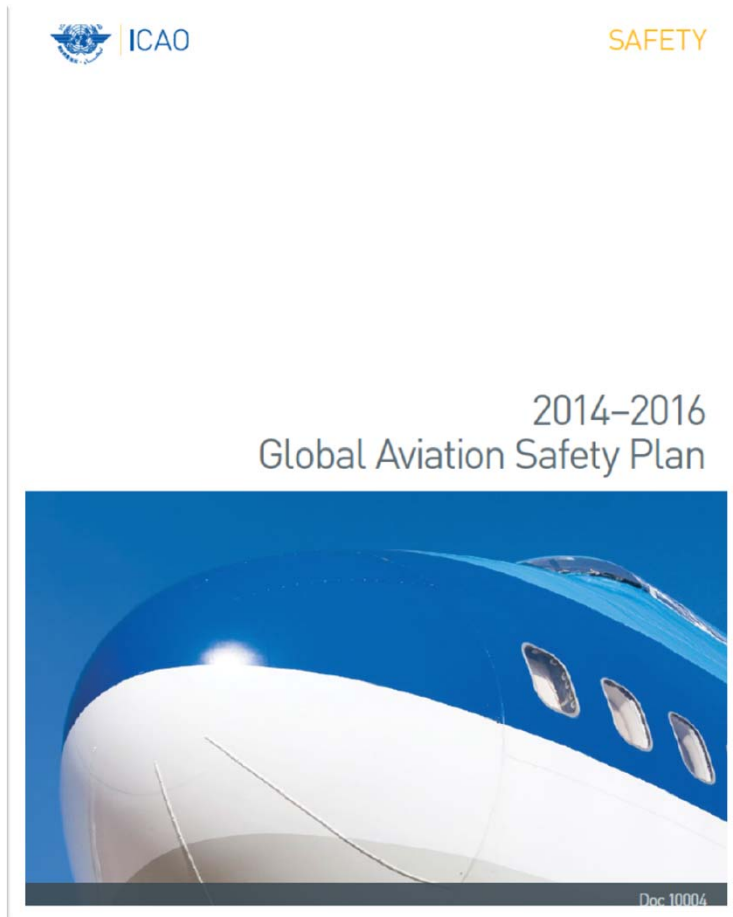
# A Strategic Approach to Safety



- ➔ Recognition of the differences among Member States including:
  - Safety oversight maturity
  - Traffic volume and growth
  - Operational safety issues
- ➔ The need to prioritize safety initiatives



# A Strategic Approach to Safety



- ➔ Reaffirms that Aviation safety is the highest priority
- ➔ Supports the implementation of defined safety objectives and safety performance areas
- ➔ Provides a framework for Regional and State safety priorities including safety management principles
- ➔ Takes into account cost benefit and financial issues



# A Strategic Approach to Safety

## *State of Global Aviation* SAFETY





# A Strategic Approach to Safety

- ICAO constantly strives to improve aviation safety outcomes through the following coordinated activities:
  - Monitoring of key safety trends and indicators
  - Safety Analysis
  - Policy and Standardization initiatives
  - Implementation of programmes to address safety issues





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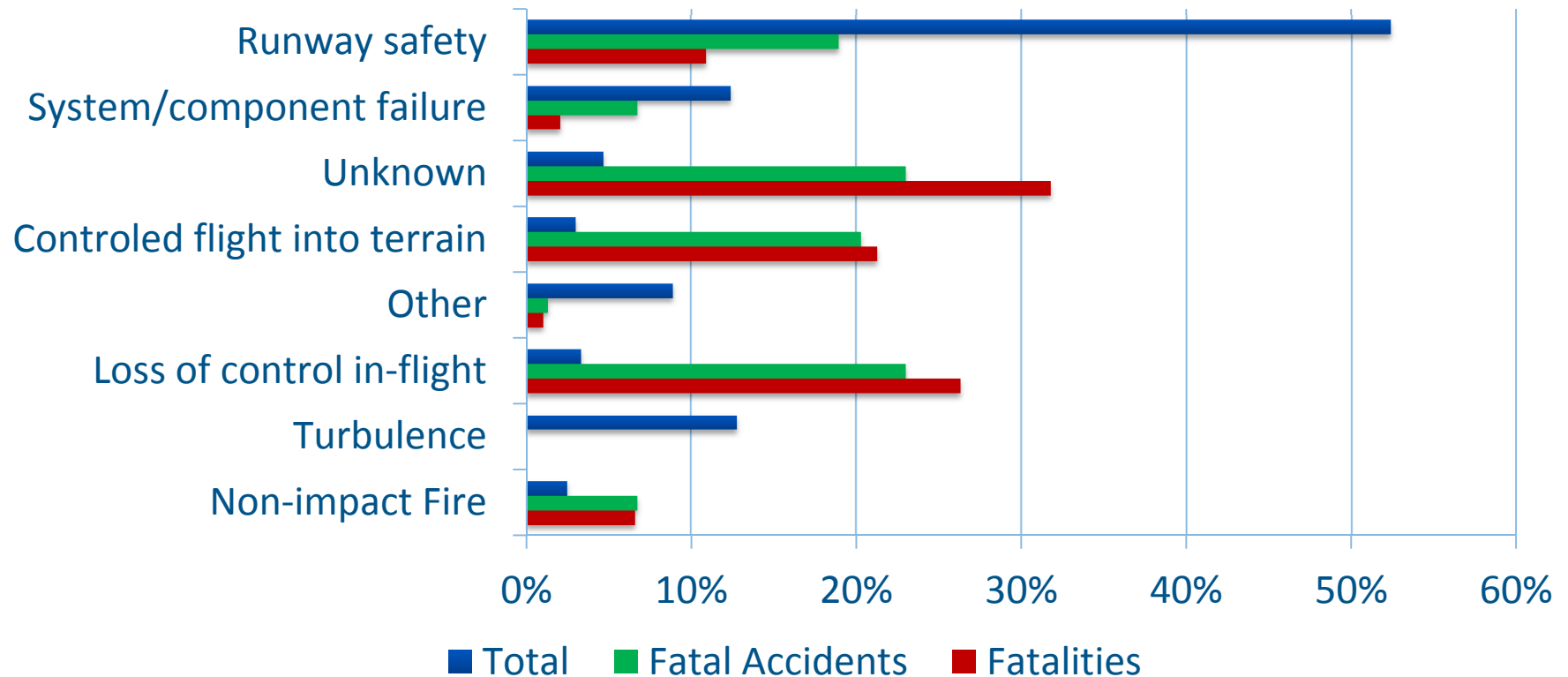
# *Monitoring* SAFETY



# Accidents by Category - Previous

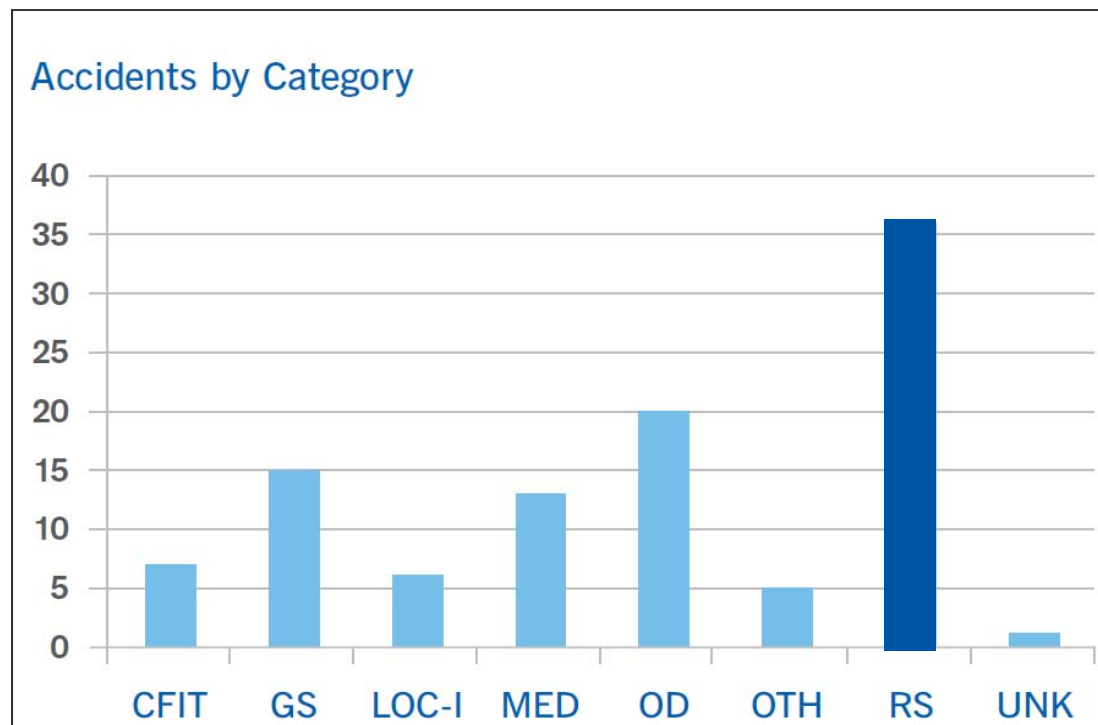
## Accidents and Related Fatalities by Occurrence Categories

Scheduled Commercial Traffic – MTOW > 2 250 kg (2006 - 2012)





# Accidents by Category - 2013



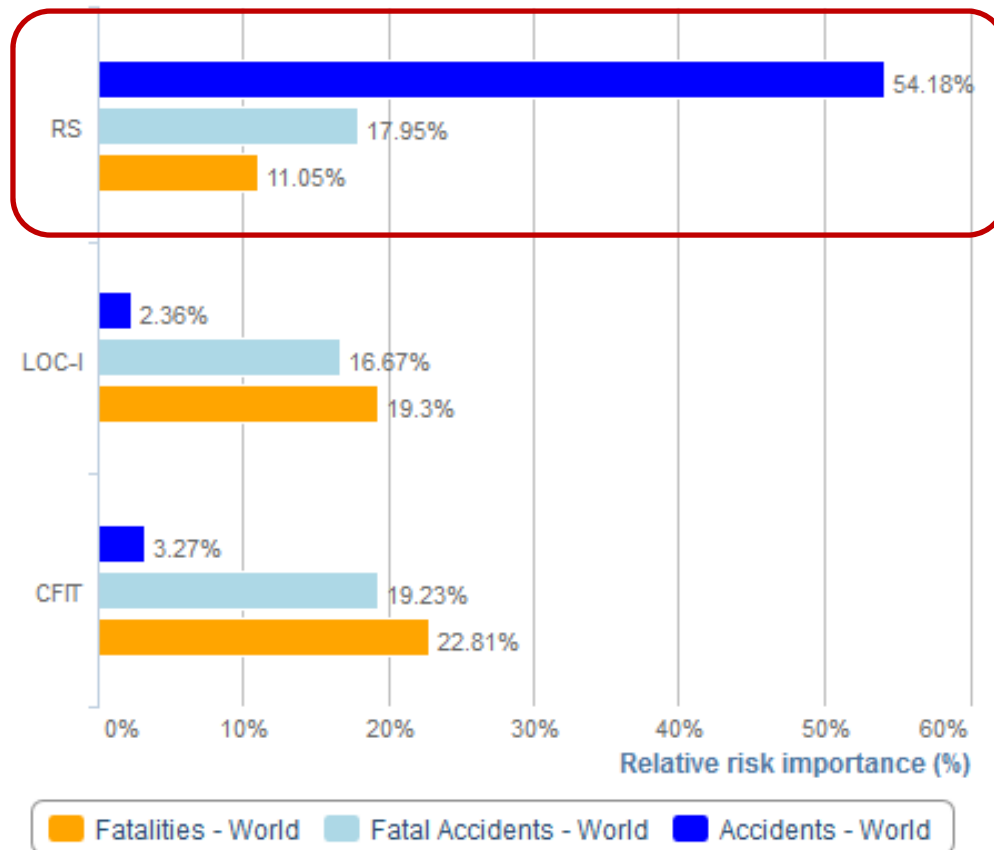




# Runway Safety Overview

## Accidents and Related Fatalities by Occurrence Categories

Scheduled Commercial Traffic – MTOW > 5700 kg (2009 - 2013)



### 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



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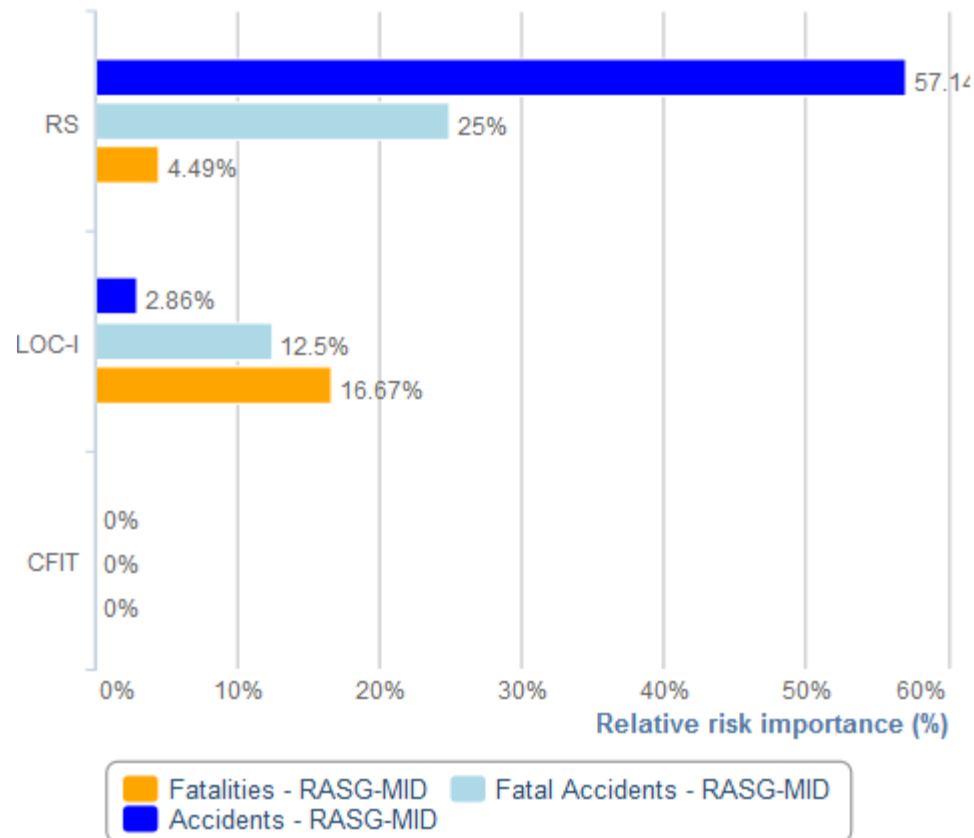
# *Focus* MID



# Runway Safety Overview

## Accidents and Related Fatalities by Occurrence Categories

Scheduled Commercial Traffic – MTOW > 5700kg (2009 - 2013)





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# *Policy and Standardization* Safety



## ICAO 37<sup>th</sup> 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  
(...)



# ICAO 37<sup>th</sup> Assembly *(October 2010)*

## Resolution A37-6 *(2/2)*

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.



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# *Support and Implementation* Safety



# ICAO Runway Safety Programme

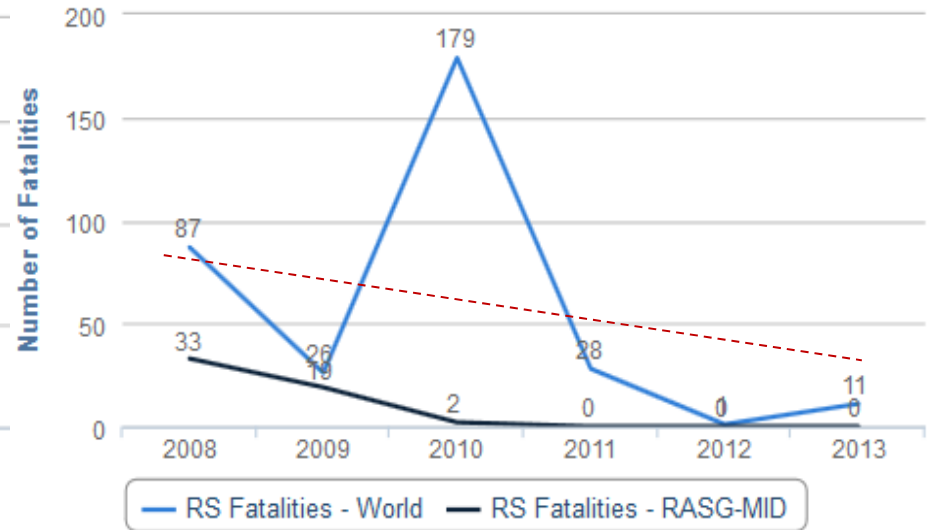
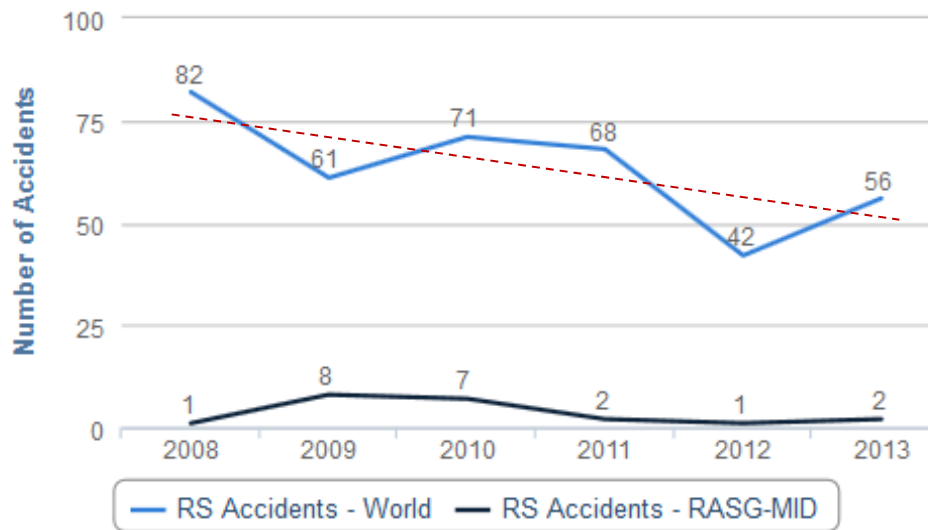
- **Outcomes of GRSS:**
  - Identification of hazards requires **collaboration** of all stakeholders
  - Solutions need to be standardized to international standards and harmonized to facilitate efficient international operations
  - **Runway Safety Teams** – should be established locally and hosted by the airports
  - RSP partners have committed to work together to compile and promote proven solutions and endorse best practices
- **Regional Runway Safety Seminars (RRSS):**
  - Promote and enhance implementation of solutions through multidisciplinary RSTs
- **Runway Safety Website** [www.icao.int/RunwaySafety](http://www.icao.int/RunwaySafety) :
  - Easy access to information on public website







# Efforts are paying off...





# Objectives of this RRSS

- ➔ Highlight main runway safety risks and mitigation options
- ➔ Hear from existing RSTs and runway safety programmes
- ➔ Contribute to regional initiatives to support the promotion, establishment and operation of RSTs
- ➔ Facilitate the formation of RSTs at individual airports and most of all offer you opportunities to share, learn and network



## Role of Runway Safety Teams in the Region

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



# ICAO

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THANK YOU