



# The International Industry Initiatives of SMS – IATA Strategies

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# IATA Today

- Founded in 1945
- 250 Member airlines
- Over 100 offices around the world
- 90,000 accredited agents
- 220 industry partners



**To promote  
safe  
secure  
efficient  
economical  
air transport**





# The International Industry Initiatives of SMS – IATA Strategies

## Scope

- IATA's Safety Management Support System - the Six Point Safety Programme
- The IATA Operational Safety Audit programme (IOSA)
- SMS towards *integrated* Airline Management Systems (iAMS)
- Global Safety Management – State/Industry Implementation
- Questions and discussion

# Six Point Safety Plan –

“A Safety Management Support System”



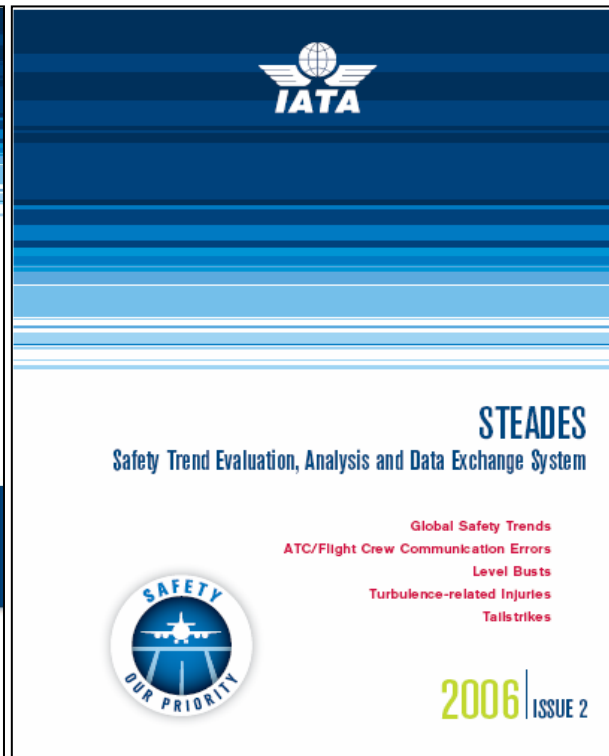
# Infrastructure (ATM) Safety

- Level busts prevention
- Work with Industry on data sharing in ATM
- IATA developed the original Global ATM Roadmap adopted by ICAO

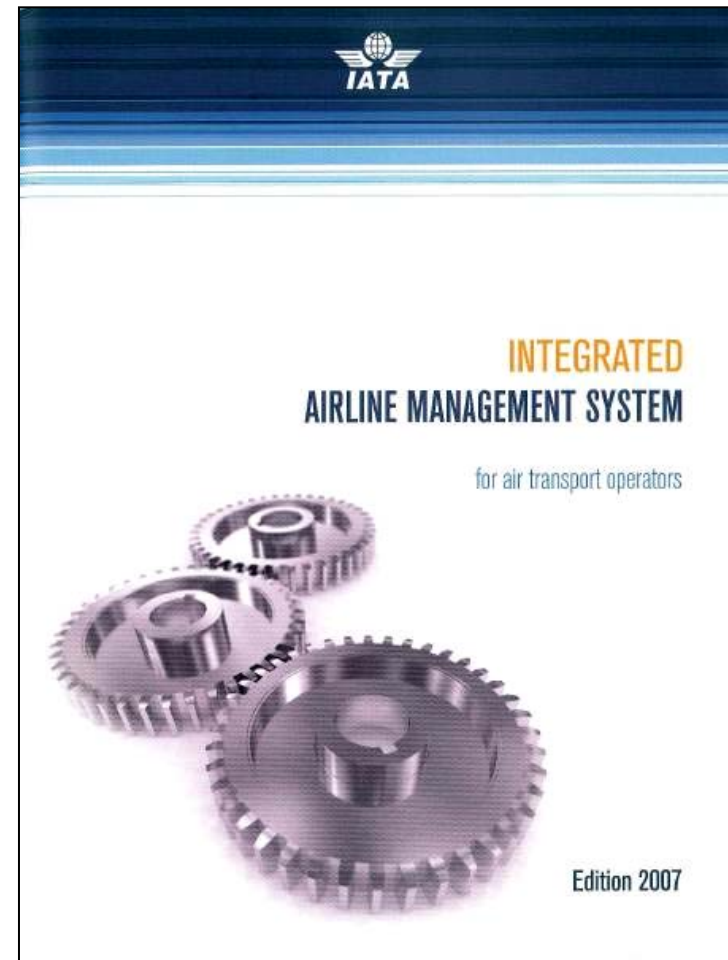




# Safety Data Analysis



*“integrated”* Airline  
Management  
Systems  
(*integrated* AMS)



# Flying Operations Safety

- Task Force analysis of Approach and Landing events
- Focus on areas posing the highest threat
- Develop data- driven strategies to improve training standards for flight crews with particular emphasis on go-around decision making



# Safety Auditing

# IOSA

IATA OPERATIONAL SAFETY AUDIT

# Cargo Operations Safety



- 23% of accidents 2006
- Advancing IOSA programme for cargo operators
- Integrated-AMS for cargo ops

# Where does IOSA fit?



# IOSA Programme

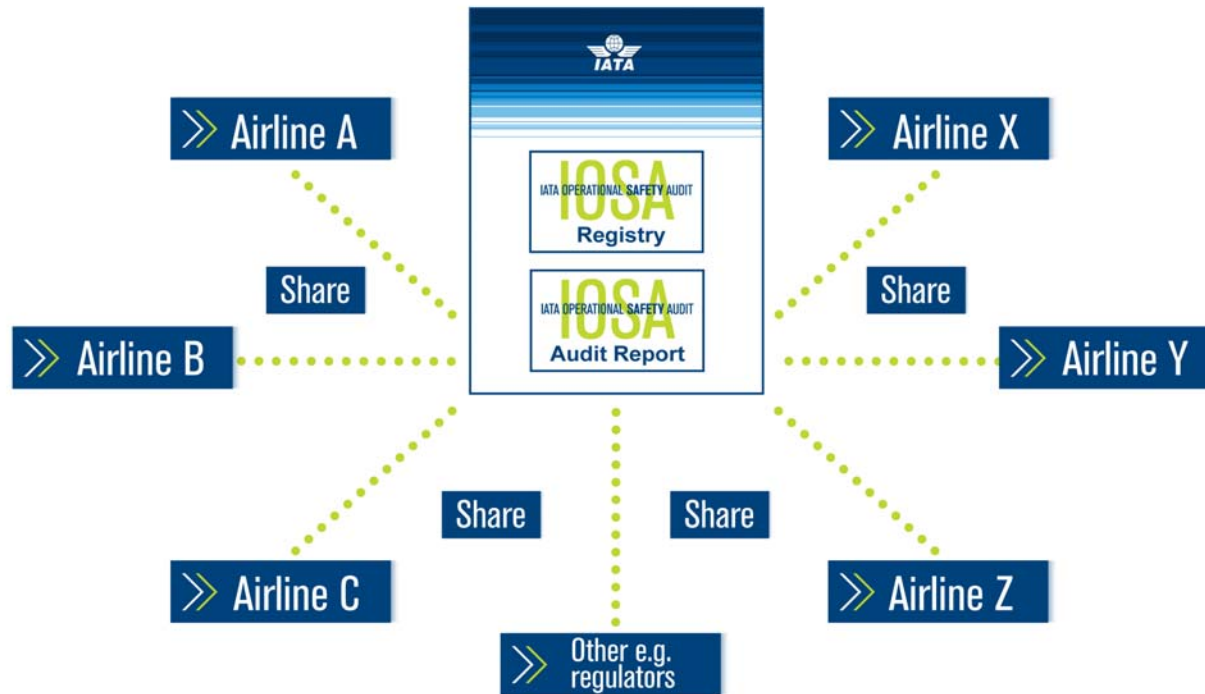
- Global programme, built on ICAO standards and industry best practices;
- Internationally recognized and accepted evaluation system implemented consistently

Goal :

- Improve Safety worldwide
- Reduce Number of audits

# Audit Sharing Model

One Audit per Airline  
(24-month Interval)





# What are the IOSA Audit Standards?

- Approximately 900 published operational standards and recommended practices in the ISM E2 (up from 735 in E1)
- Focus: operational quality/safety management and oversight
- Applicable to audits only; not regulations
- Include requirements from ICAO and industry best practices
- Bottom line: A well managed airline will meet IOSA Standards

# What is the Audit Scope?

- Organization & Management System
- Flight Operations
- Operational Control/Flight Dispatch
- Engineering & Maintenance
- Cabin Operations
- Ground Handling
- Cargo Operations
- Operational Security



# Who Conducts Audits & Training?

- Audit Organizations (AOs) accredited by IATA
  - Organizations must meet strict accreditation standards
  - Auditors must meet qualification and training standards
  - Eight AOs have been accredited
  
- Auditor training is conducted by Endorsed Training Organizations (ETOs) accredited by IATA

# Who are the AOs?

- In order of accreditation:
  - Aviation Quality Services GmbH, Germany
  - ARG/US Pros, USA
  - Aviation Compliance Solutions Pty Ltd, Australia
  - Wake (QA) Ltd, UK
  - SH&E, USA
  - Morton Beyer & Agnew Inc, USA
  - Parc Aviation Ltd., Ireland
  - Quali-audit, France
  
- All AOs offer a global service

# What does the Audit look like?

- The audit itself typically has six experienced auditors on site for five days;
- The audit includes line and simulator observations;
- The auditors use simple checklists which have the text of the standard embedded within;
- The audit is often preceded by a pre-audit visit, to check for preparedness;

## What are the results?

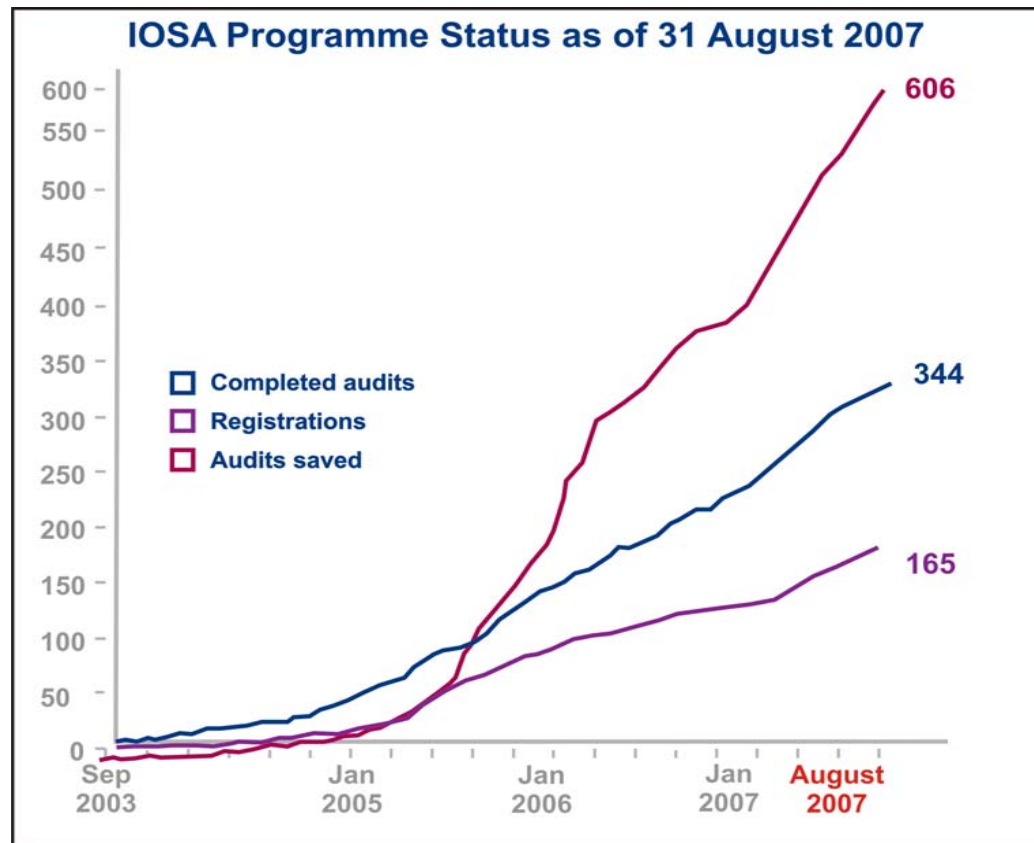
- At the conclusion of the audit, there will be a list of findings and observations;
- The airline then develops a Corrective Action Plan to address these findings;
  - The airline has up to one year to correct the findings
- When all the findings are corrected, the airline is placed on the IOSA Registry



# What is the Oversight Committee?

- Up to 25 member airlines and 10 regulatory authorities
- Interested observers
- Participants include:
  - Airlines
  - US DoD
  - US FAA
  - Scandinavian CAA
  - ICAO
  - UK CAA
  - Transport Canada
  - CASA Australia
  - DGAC France

# Audits Completed & Saved



# Benefits from IOSA - Airlines

- Capability for safer operations
- Improved internal efficiency
- Reduced numbers of audits
- Codeshare and wet-lease opportunities
- Reduced Insurance Premiums



# Benefits from IOSA - States

- States can access IOSA Audit Reports
  - enhance and focus their own oversight activities
  - use IOSA in Foreign AOC and wet-lease determinations
  
- Some States are mandating IOSA
  - Turkey, Chile, Egypt, Madagascar, and the Arab Civil Aviation Commission
  - Nigeria, Jordan, Tunis, Mexico, Hungary and others are actively planning



# Ground Handling - ISAGO

## IATA Safety Audit for Ground Operations



# ISAGO

- Two fundamental aims:
  - Improving operational safety
  - Driving down number of redundant audits
- Modelled on IOSA's structure. Launch in early 2008.
- ISAGO will establish a worldwide benchmark and standard for ground operations. Standards Manual end of this year

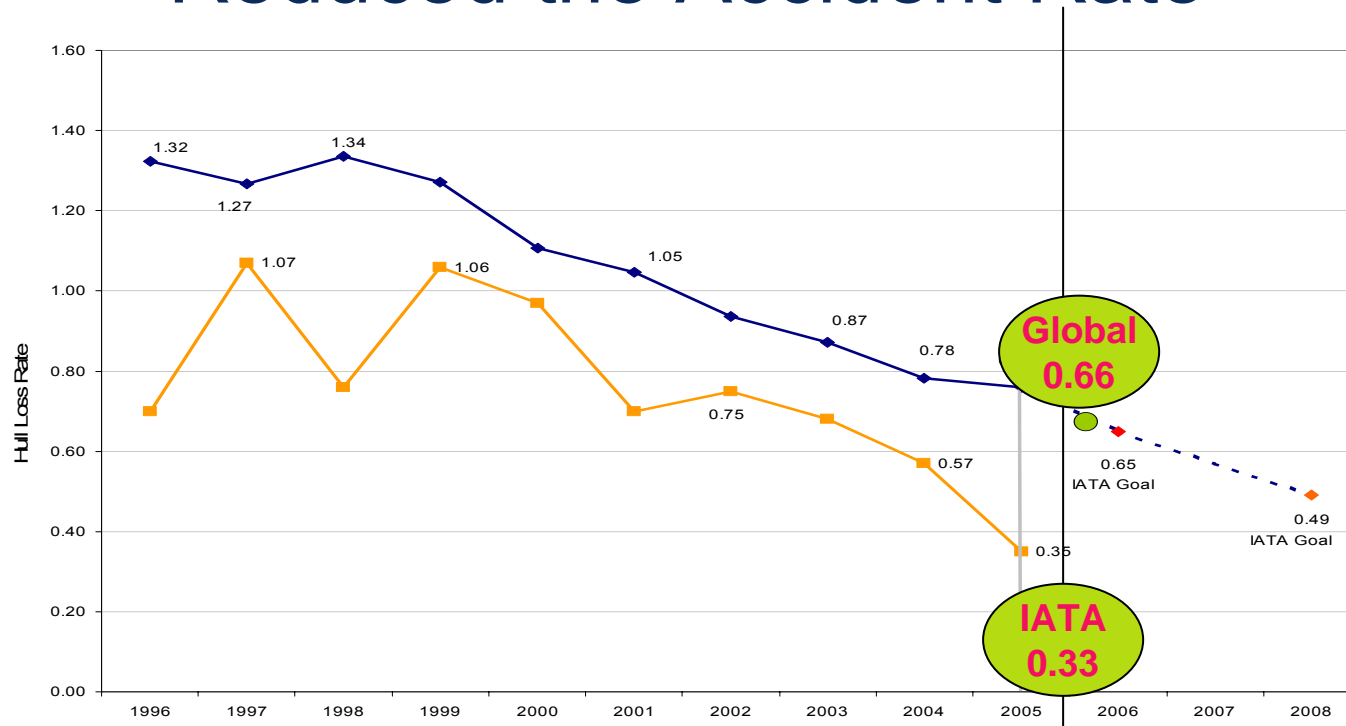


# Partnership for Safety (*PfS*) – Main Focus

- Airlines lacking expertise, knowledge, resources to adopt IOS
- Airlines facing hurdles to upgrade operational capabilities
- Airlines in need of guidance and support
- Airlines committed to operate in accordance with IOSA Standards

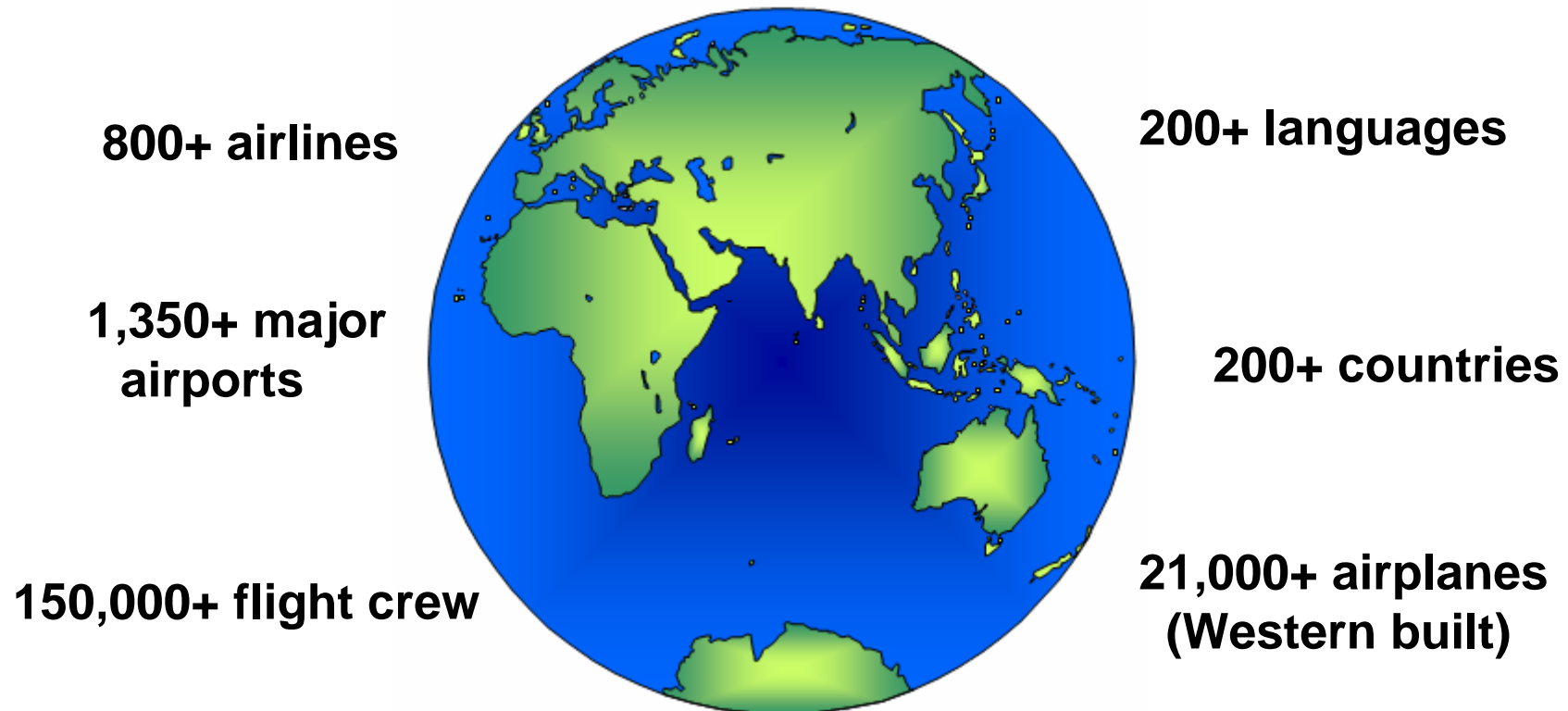


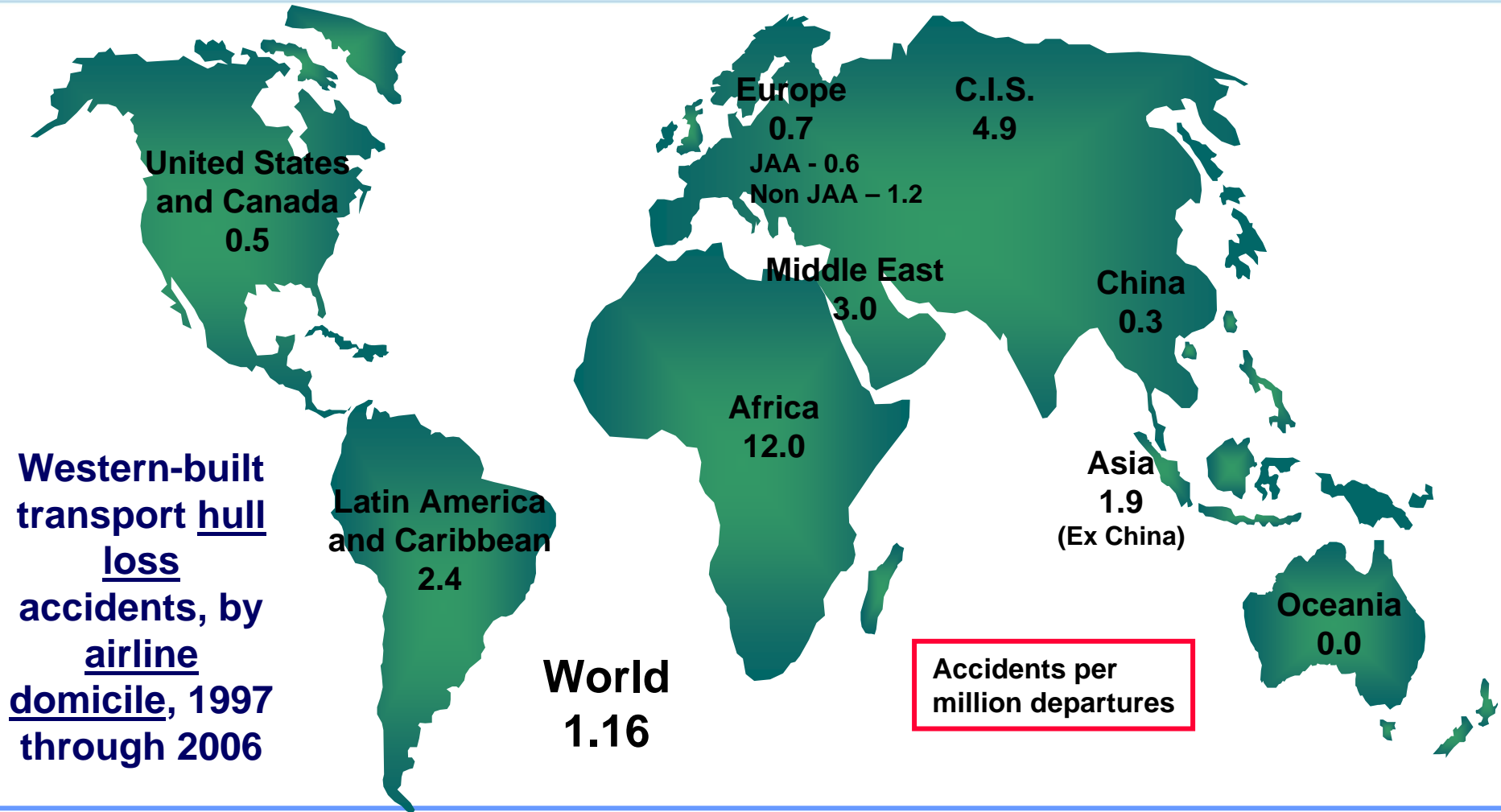
# Industry Co-operative Efforts have Reduced the Accident Rate



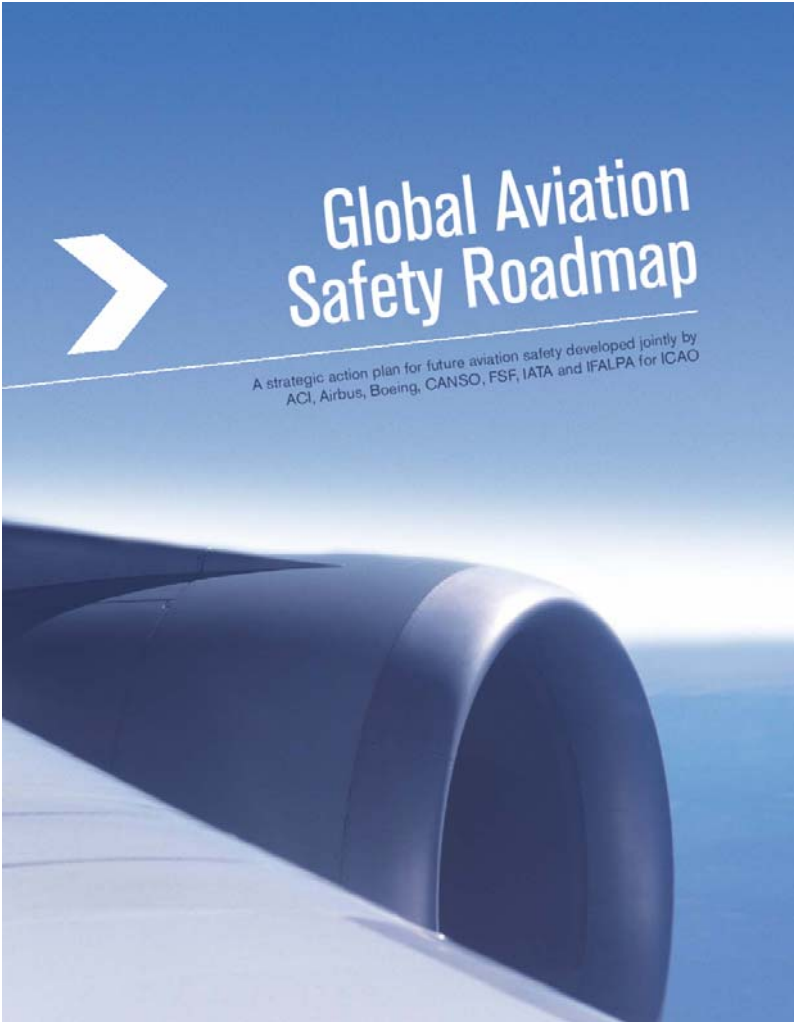
**Global Rate: 0.66    IATA Rate: 0.33**

## Aviation System Is Complex, Industry and Governments Must Work Together





# Global Aviation Safety Stakeholders

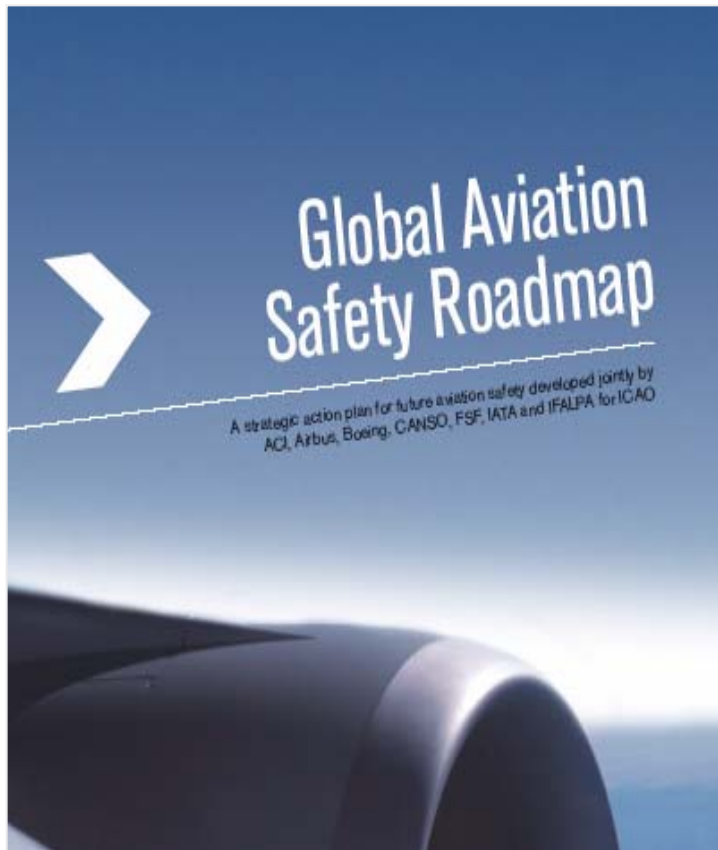


# Global Aviation Safety Roadmap

## - Reduction in the Global Accident Risk

- Part 1
  - Describes rationale and a general approach
  - Objectives described for each focus area for near and mid-term
  - Points to safety Enablers in developing regions
- Part 2
  - Detailed plan for implementation
  - Best practices for each Objective
  - Metrics for each Best Practice
  - A 4-level Maturity Model for each objective based on implementation of Best Practices
  - Process described to assess Gaps that need to be addressed

## Global Roadmap's 12 Focus Areas: “The Roads”



*Enable, Implement, Confirm, Integrate and Share*

### Focus Areas

#### ➤ States

- Consistent implementation of international standards
- Consistent regulatory oversight
- No impediments to reporting errors/ incidents
- Effective incident and accident investigation

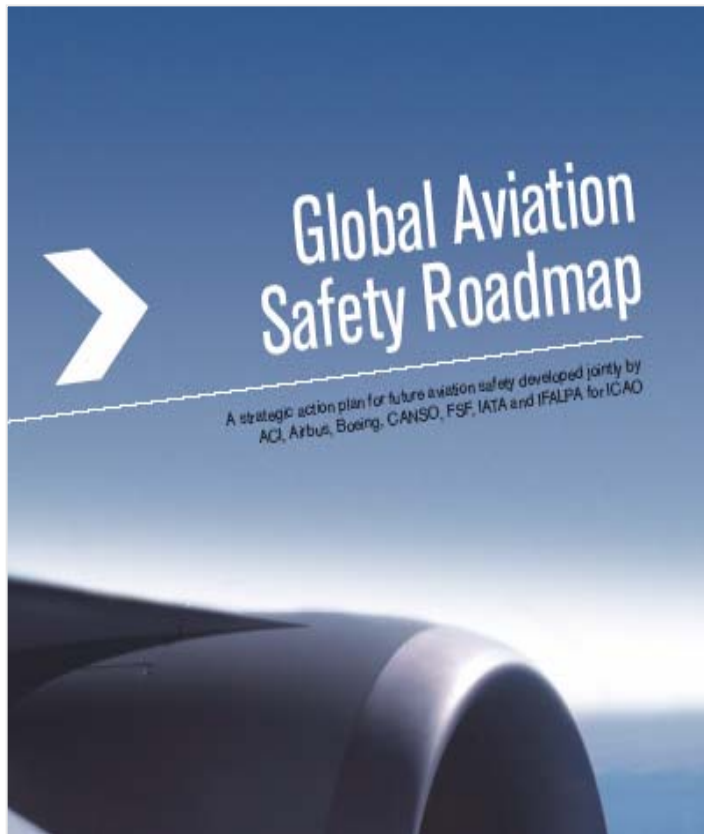
#### ➤ Regions

- Consistent coordination of regional programmes

#### ➤ Industry

- No impediments to reporting and analyzing errors/ incidents
- **Consistent use of Safety Management Systems**
- Consistent compliance with regulatory requirements
- Consistent adoption of industry best practices
- Alignment of global industry safety strategies
- Sufficient number of qualified personnel
- No gaps in use of technology to enhance safety

# Global Aviation Safety Roadmap



## ➤ Documentation

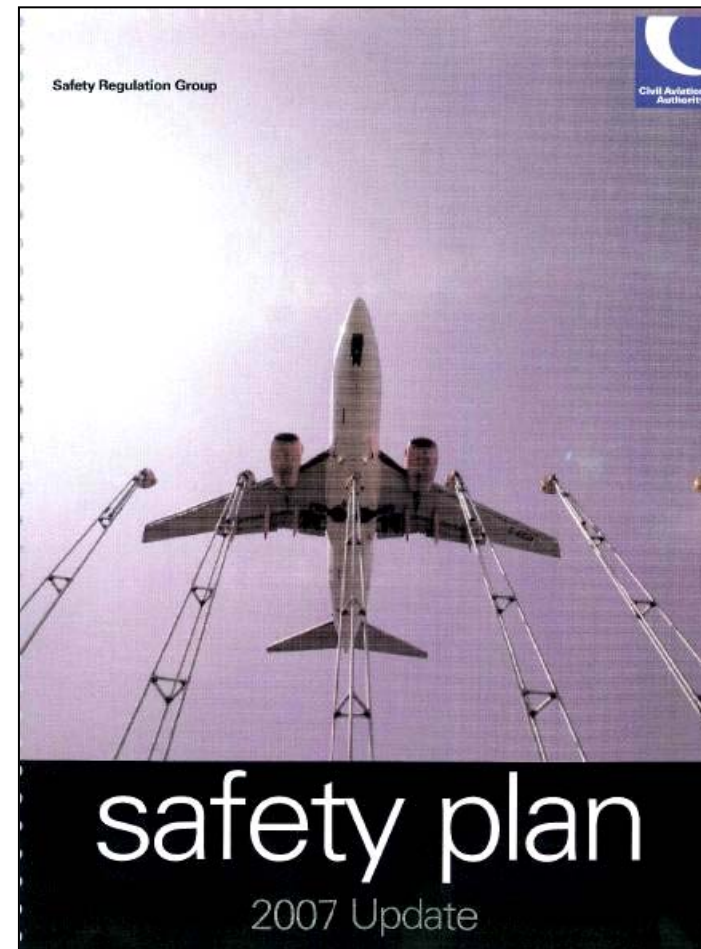
Refer IATA Safety Report (CD-ROM) 2006 for detailed exposition (also IATA, ICAO, FSF website)



# The ICAO Global Aviation Safety Plan



# Regulators Plans





to represent, lead and serve the airline industry

# SMS towards *integrated* AMS

Presentation 2-7





## **IATA - supporting Governments, Authorities and Airlines in Safety Initiatives**