



# Commercial Aviation Safety Evolution

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Safety & Flight Operations, IATA



**247 member airlines**

**Representing 84% of total air  
traffic**

# IATA in Brief

- Global trade association for the world's airlines
- 247 passenger and cargo carriers in 115 countries
- 84% of global air traffic
- 1500 people in 66 offices worldwide
- IATA is the industry's clearinghouse
- US \$387B of members' money (2013)



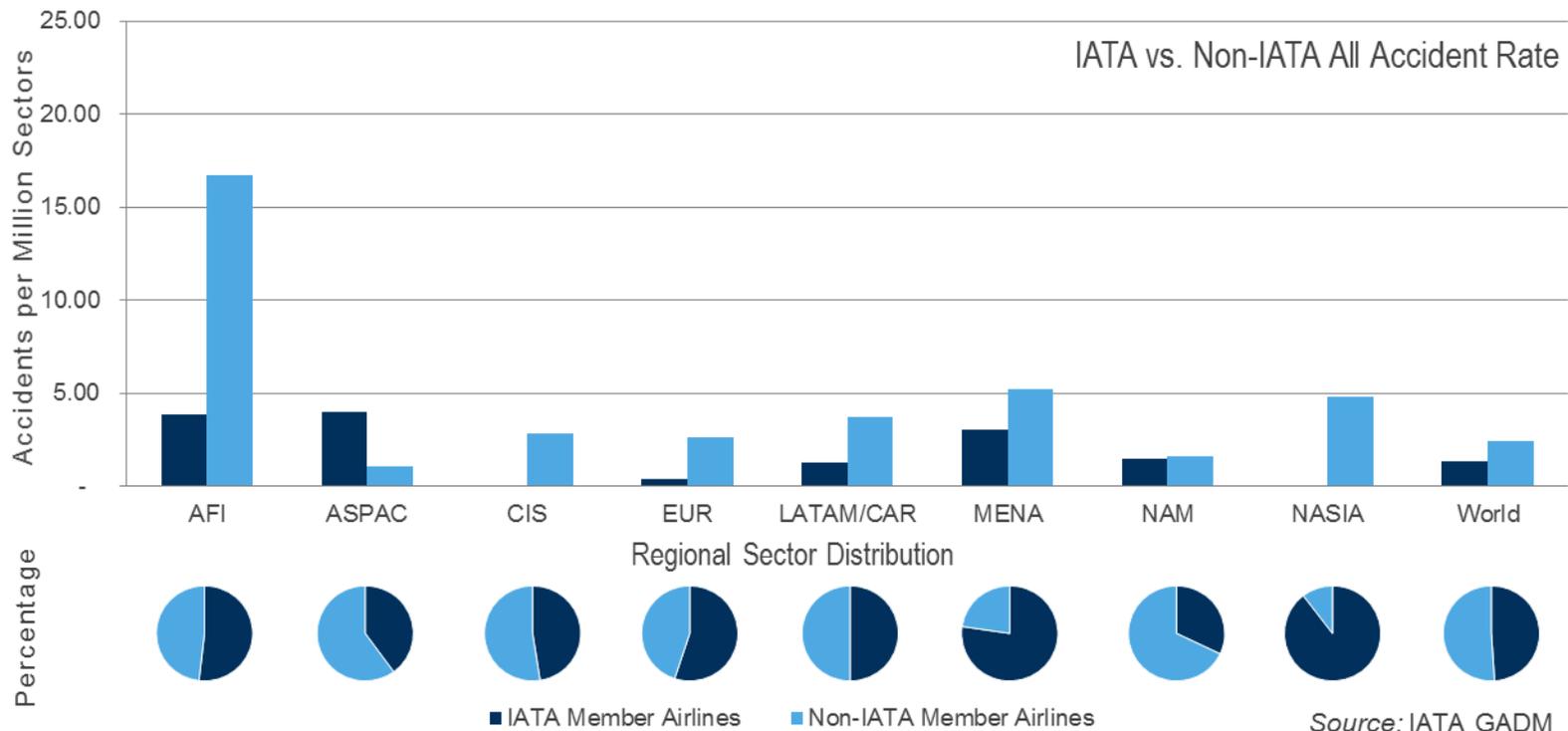


Our mission to **represent, lead**  
and **serve** the airline industry

**Safety is our #1 Priority**



# All Accident Rate for IATA Members vs. Non-Members

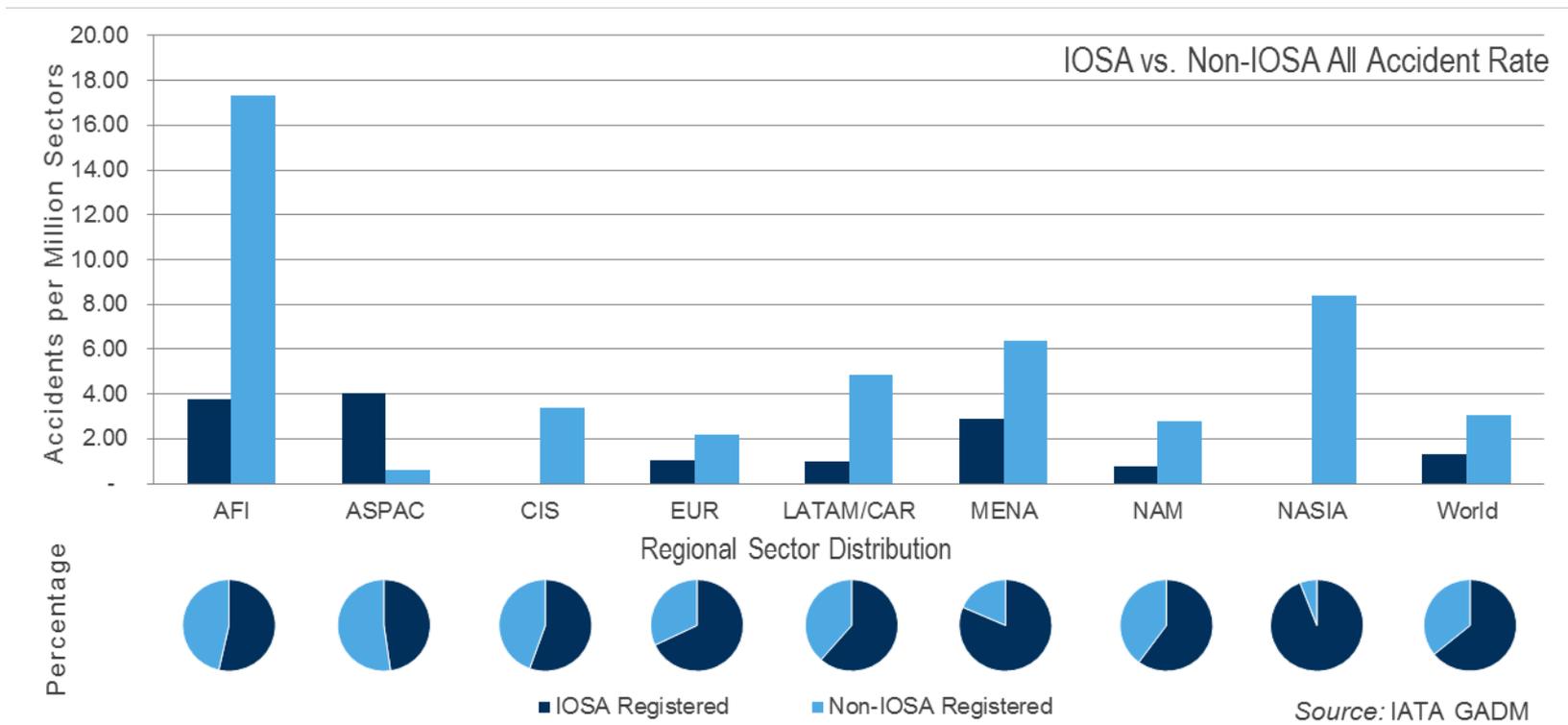


Source: IATA GADM

Accidents Update: As at 30 Jun 2014

# All Accident Rate for IOSA Operators vs. Non-IOSA

(includes Eastern & Western Jet & Turboprop aircraft)

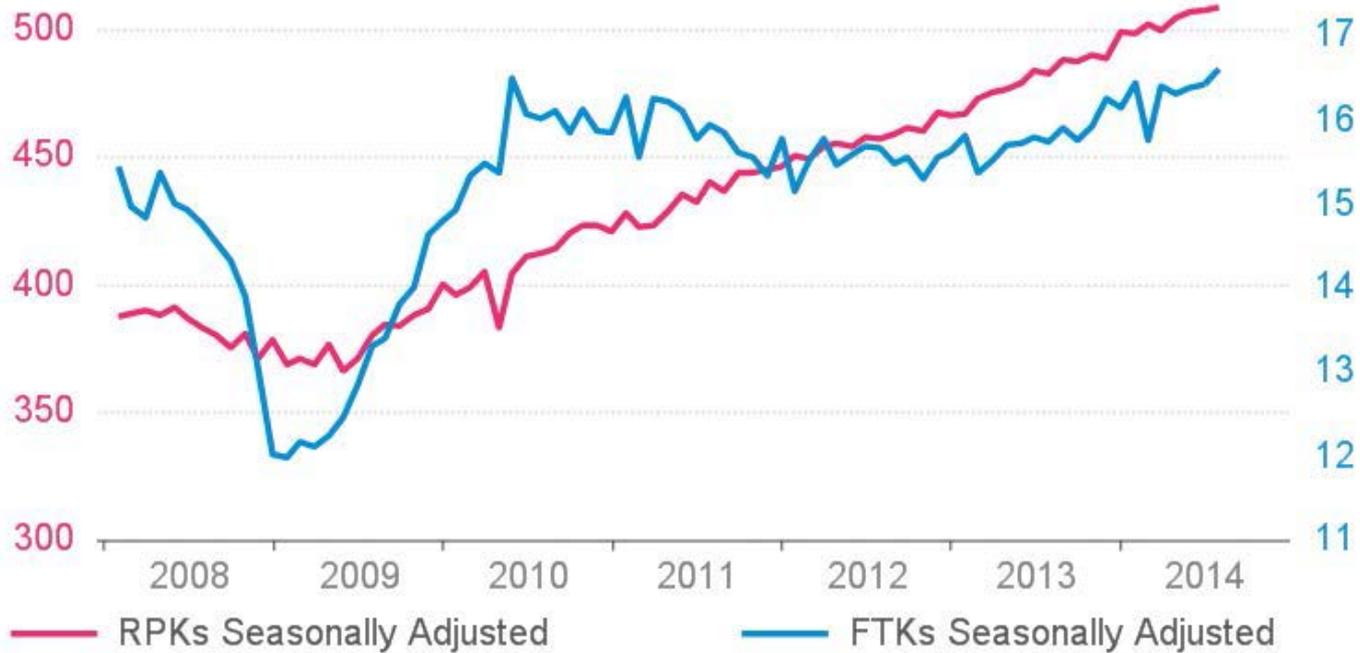


# Economic Forecast

## Total Air Travel and Air Freight Volumes

RPKs per month, billion

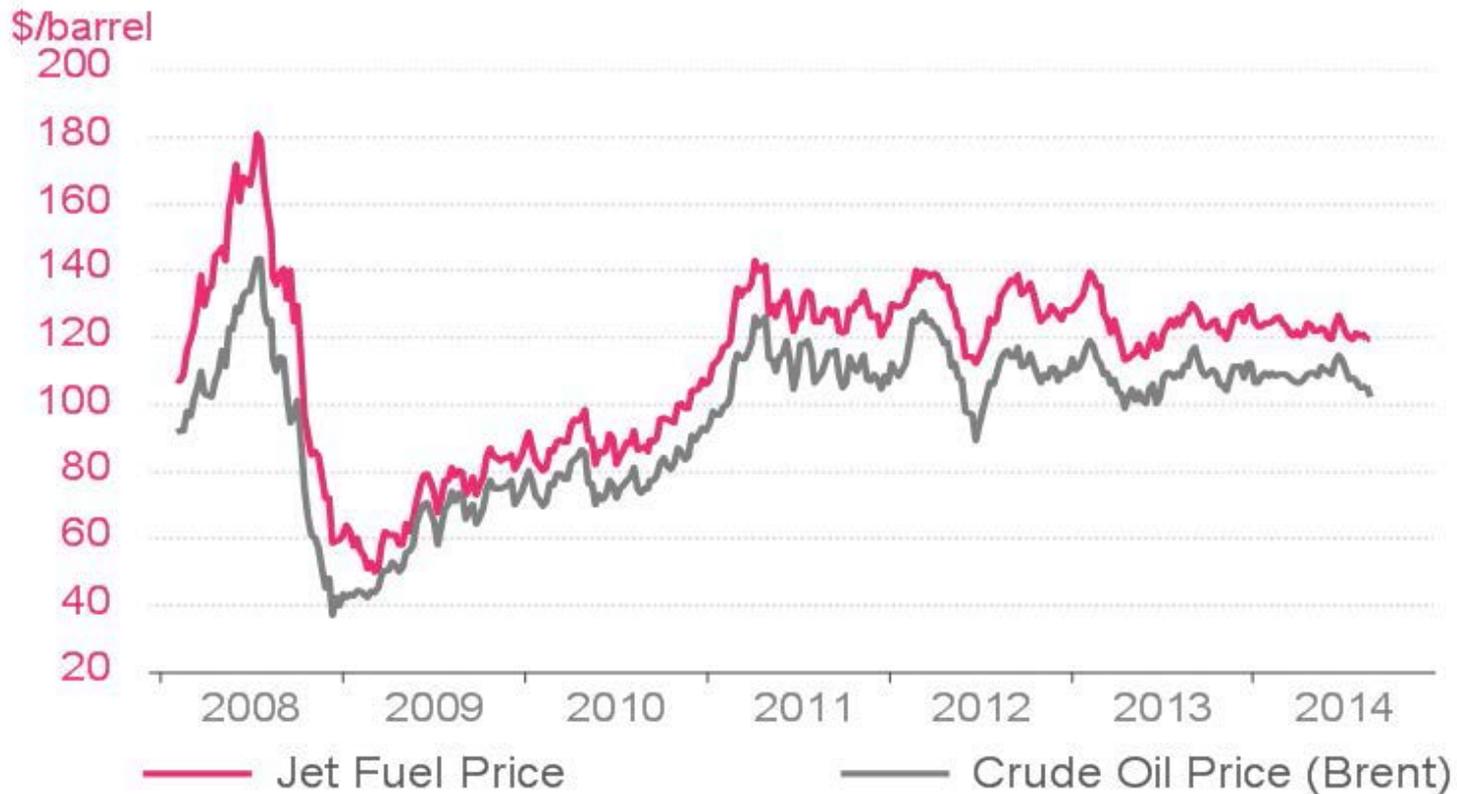
FTKs per month, billion



Source: IATA

# Economic Forecast

## Jet Fuel and Crude Oil Price



Source: Thomson Reuters Datastream, Platts, RBS

# Economic Forecast

## Total Passenger and Freight Capacity

ASKs per month, billion

AFTKs per month, billion



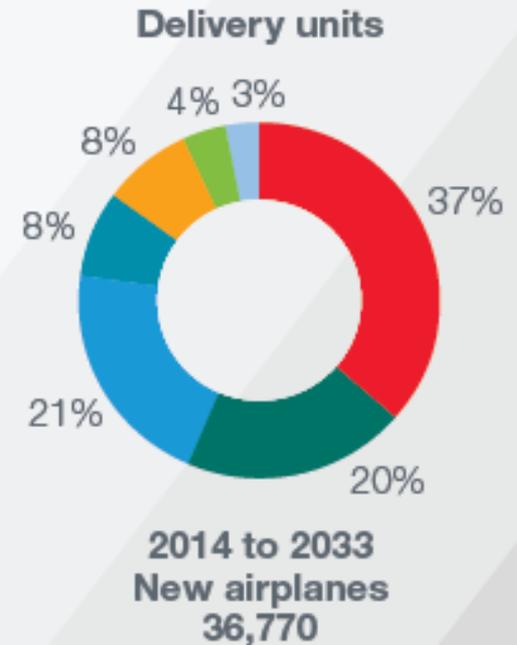
Source: IATA

# Fleet Growth Projections by Boeing

## Traffic and market outlook

Delivery demand is becoming more diversified

Region	New airplanes
● Asia Pacific	13,460
● Europe	7,450
● North America	7,550
● Middle East	2,950
● Latin America	2,950
● CIS	1,330
● Africa	1,080
<b>Total</b>	<b>36,770</b>



# Continually Improve Aviation Safety

## IATA Six-Point Safety Strategy



REDUCE  
OPERATIONAL  
RISK



ENHANCE QUALITY  
AND  
COMPLIANCE



ADVOCATE FOR  
IMPROVED  
AVIATION  
INFRASTRUCTURE



SUPPORT  
CONSISTENT  
IMPLEMENTATION  
OF SMS



SUPPORT  
EFFECTIVE  
RECRUITMENT  
AND TRAINING



IDENTIFY AND  
ADDRESS  
EMERGING  
SAFETY ISSUES

# Collaboration with ICAO, Regulators and Partners



香港特別行政區政府  
民航處  
**Civil Aviation Department**  
The Government of the Hong Kong Special Administrative Region



# Partnerships and Agreements

- Information sharing agreements
  - ICAO & FSF – Joint Data Study
  - CAST – Information Sharing
  - AITSP: ALTA-IATA Trend Sharing
- Partner
  - TUM – Predictive Analysis
  - Cranfield – Incident Analysis
  - MITRE – Efficiency Analysis



# Partnerships and Agreements

## IATA - EASA Agreement on Information Sharing

- Safety Assessment of Foreign Aircraft (SAFA)
- IATA Operational Safety Audit (IOSA)



# Current Collaboration

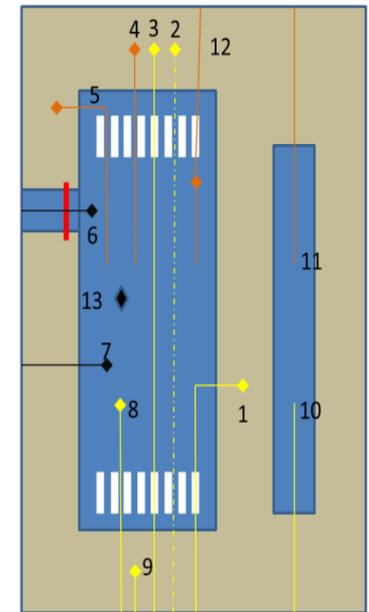
## ➤ Runway Safety

➤ Collaborative group to establish means to effectively share information to measure and ultimately improve runway safety performance

➤ IATA, ICAO, EASA, FAA, ACI, CANSO

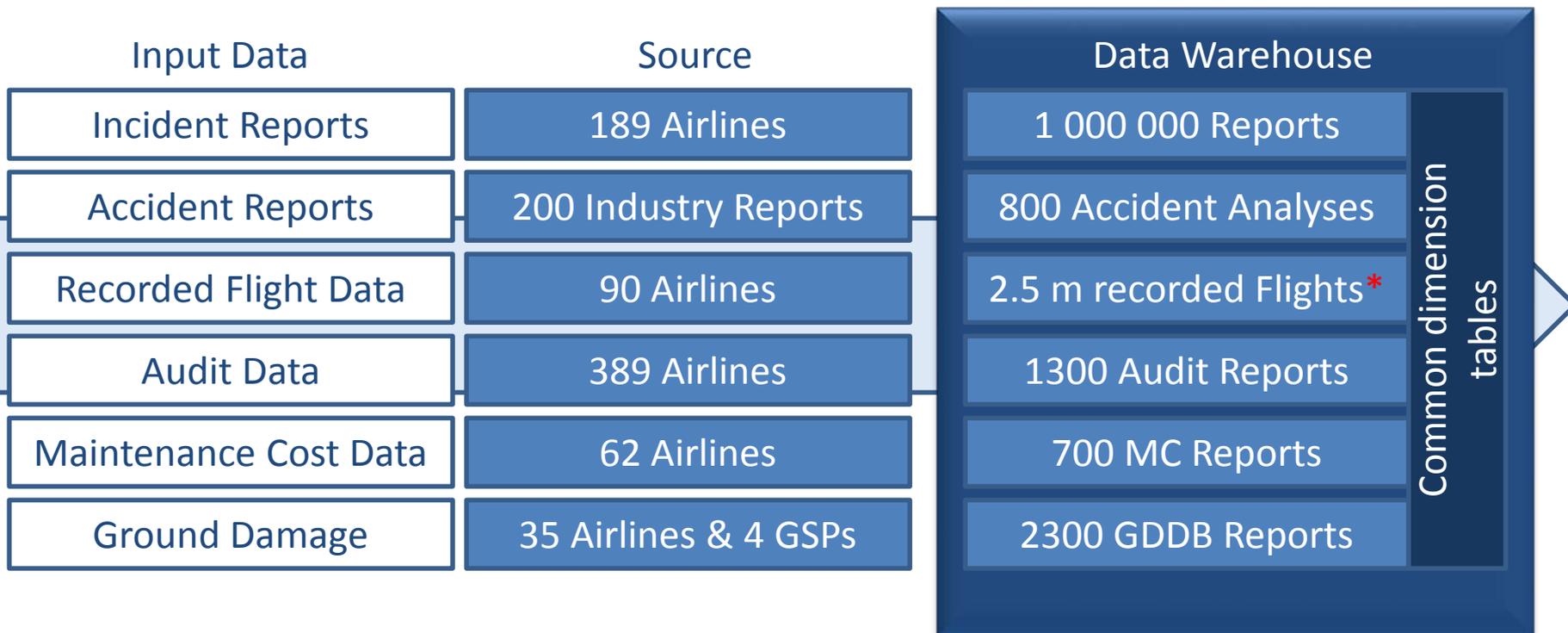
➤ Identifying Runway Safety Performance

Indicators (SPIs), including taxonomy and definitions



Yellow line: landing, Orange line: takeoff, Black line: ground movement

# GADM Integral Data Warehouse



\* 3 years history

# (Enhanced)E-IOSA Benefits

- Increased continuity of conformance with IOSA standards
- Improved levels of implementation of IOSA standards and consequently of the applicable ICAO requirements
- Global standardization of auditing techniques and methodology
- Increased reliability of QA programs
- Improved auditing skills
- Improved regulatory confidence in airlines' internal oversight

# IATA Standard Safety Assessment (ISSA)

The ISSA program will address:

- Commercial passenger and/or cargo operations
- Aircraft with one or more turbine powered or multiple reciprocating engines
- Two-pilot operations
- IFR and/or VFR operations
- Operators with aircraft with MTOW above 5.7t will be allowed on ISSA Registry for one term (2 years) after which an IOSA Audit must be pursued

# Aircraft Tracking Task Force “ATTF”

- The Aircraft Tracking Task Force (ATTF) met just after the ICAO Special Multi-disciplinary Meeting on Global Flight Tracking that was held on May 12-13th in Montreal.

# ATTF Objectives and Scope

- Examine available options for tracking commercial aircraft
- Consider: Implementation, Time, Complexity and Cost Efficiency
- Assess the responses to the ICAO vendor survey
- Examine existing capabilities
- Provide potential recommendations

# ATTF Timeline

- Initial draft completed and currently under review
- Accepted draft presented to the IATA Board of Directors – December 4, 2014
- Upon acceptance the report will be presented to ICAO before December 31, 2014
- Release to the public thereafter

**Thank you !**



-to represent, lead and serve the airline industry-