

## **Proactive Use Of Data**

### **Global Aviation Data Management**

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# Role of IATA

- Provide individual support where requested
- Collect data from various sources
- Complete coverage of all aircraft operational areas
- ↗ Establish integral data warehouse to allow comprehensive analyses
- Produce global, regional or individual reports and studies
- Collaborate with all industry stakeholders on safety initiatives
- Global Aviation Data Management = GADM



# Challenges

- Individual privacy versus learning from experience
- ↗ Just culture pro-active reporting
- Complete and real-time data and information collection
- ↗ Analysis of different sources, generating different vintage points
- Performance benchmarking, learning from others
- ↗ Transforming from pro-active to predictive measures



## Status: Integral data warehouse

Input Data	Source	Data Warehouse
Incident Reports	189 Airlines	1 000 000 Reports
Accident Reports	200 Industry Reports	800 Accident Analyses
Recorded Flight Data	90 Airlines	2.5m recorded Flights*
Audit Data	389 Airlines	1300 Audit Reports
Maintenance Cost Data	62 Airlines	700 MC Reports
Ground Damage	35 Airlines & 4 GSPs	2300 GDDB Reports

\* 3 years history



## **Enhanced Safety Report**

#### **Event Analysis**

#### Accident

- Incident
- Damage
- **Fatalities**

#### **Contributing Factors**

- Weather
- Traffic Density
- Region/Løcation
- Length of Flight
- Flight phase
- **AC Category**
- Approach
- Procedure

#### **Pro-Active Measures**

- Audits
- Regulatory
- Training

#### Predictive Information

- **Risk Assessment**
- Hazard Identification

Projection

Accidents DB Incidents STEADES GDDB FDA/FDX Data

Weather Actual flights/DDS FDA/FDX DATA

IOSA SAFA ITQI/EBT/MPL **Training Syllabus** 

Scheduled Flights SSIM / DDS Data Risk Assessment Module



# Information sharing benefits

- Establish a comprehensive data base
- Conduct analysis from different vintage points
- ↗ Share experience made to
- Develop proactive measures, improve auditing
- ↗ Develop and implement predictive analysis
- Develop Safety Performance Indicators
- Support individual Safety Management Systems
- Collaborate on regional or global safety issues

