



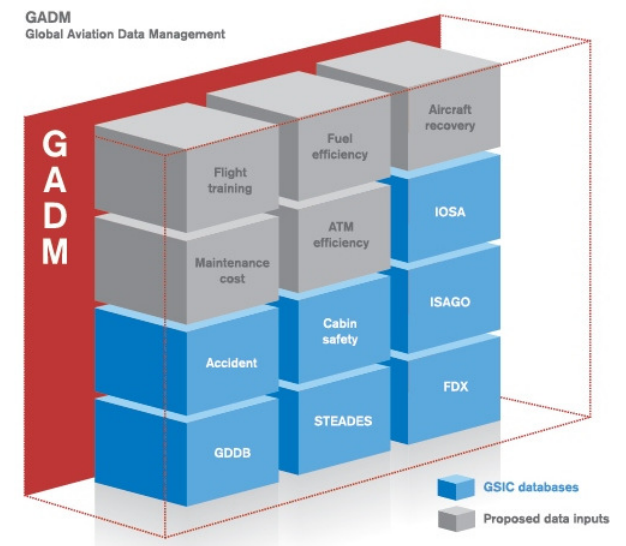
Leveraging Shared Data for Safer Operations

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Global Aviation Data Management

Overview

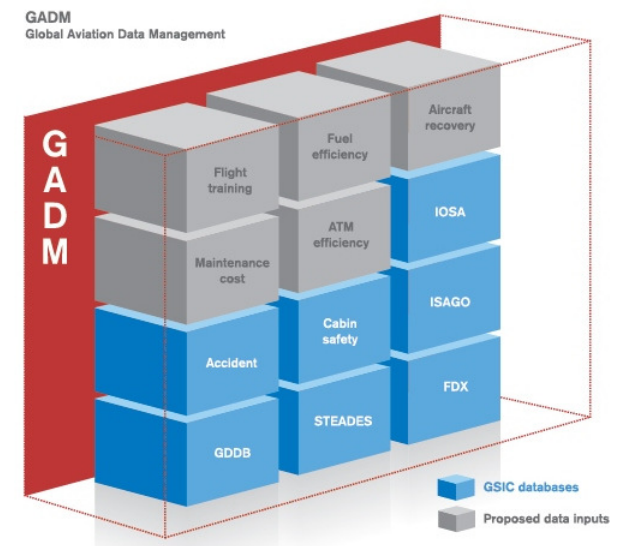
- GADM integrates data from more than 600 different sources
- GADM data warehouse provides information for:
 - Accident analysis
 - Incident analysis
 - Aircraft ground damage
 - Flight Data eXchange
 - Safety Audit Trend analysis
 - Flight Operations Training (EBT/MPL)
 - Maintenance Cost



Global Aviation Data Management

Overview

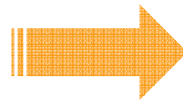
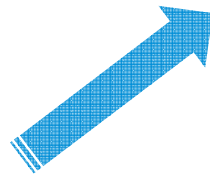
- GADM integrates data from more than 600 different sources
- GADM data warehouse provides information for:
 - Incident analysis (**STEADES**) **Over 1 Million Reports!**
 - Flight Data eXchange (**FDX**) **Over 1.6 Million Flights!**
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Raw data from the aircraft is downloaded routinely for FOQA/FDM/FDA

Data processed internally by the airline or its service provider for FOQA/FDM/FDA

How it works...



In FDX, flight data is also sent to IATA where it is processed using a common event set including:

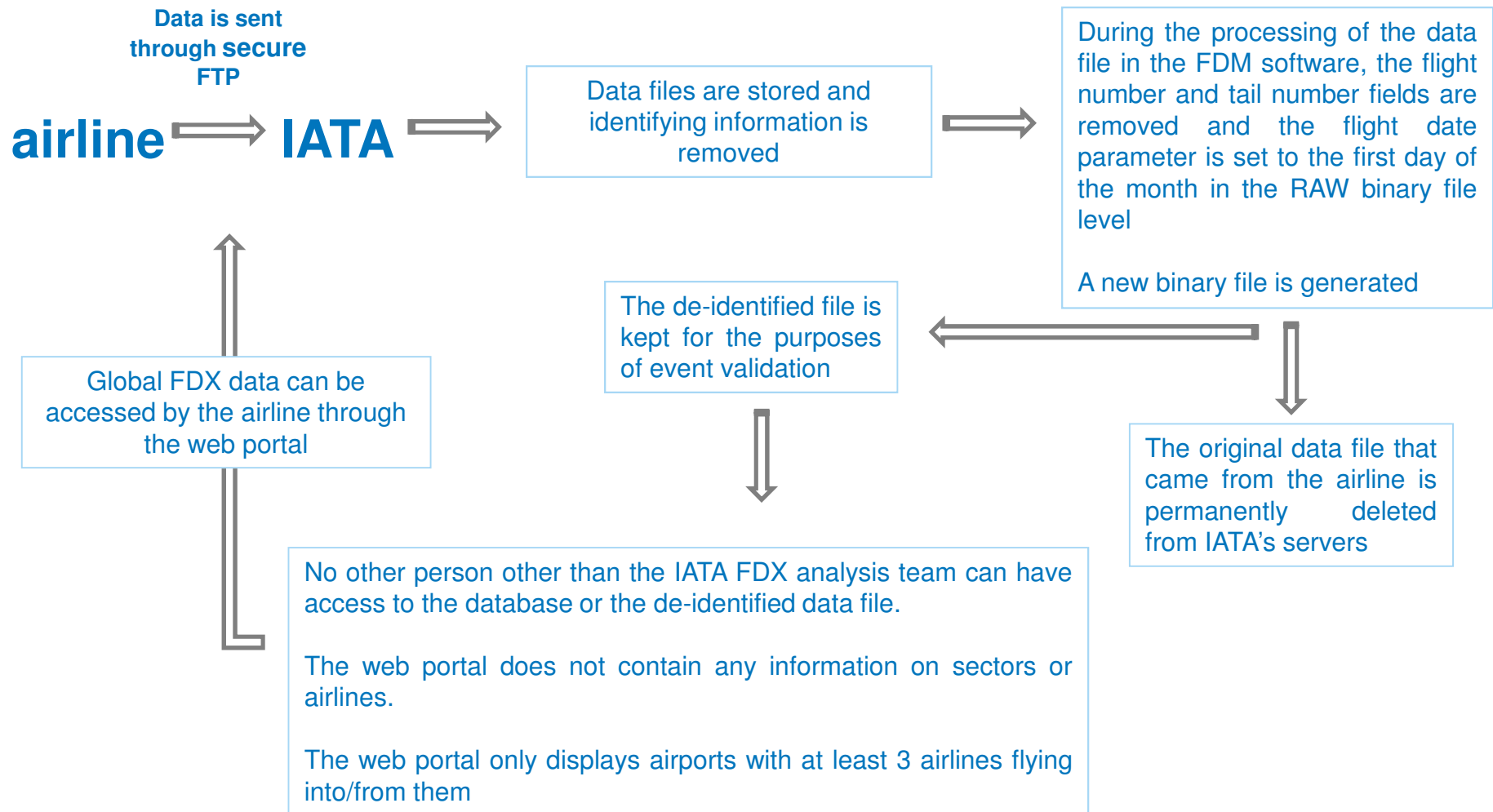
- ↗ Unstable approaches
- ↗ GPWS
- ↗ Tailwind on landing
- ↗ TCAS
- ↗ Hard landing
- ↗ Rejected Takeoffs
- ↗ Go-Arounds



**FDX
global
rates
and
trends**



De-Identification Protocol



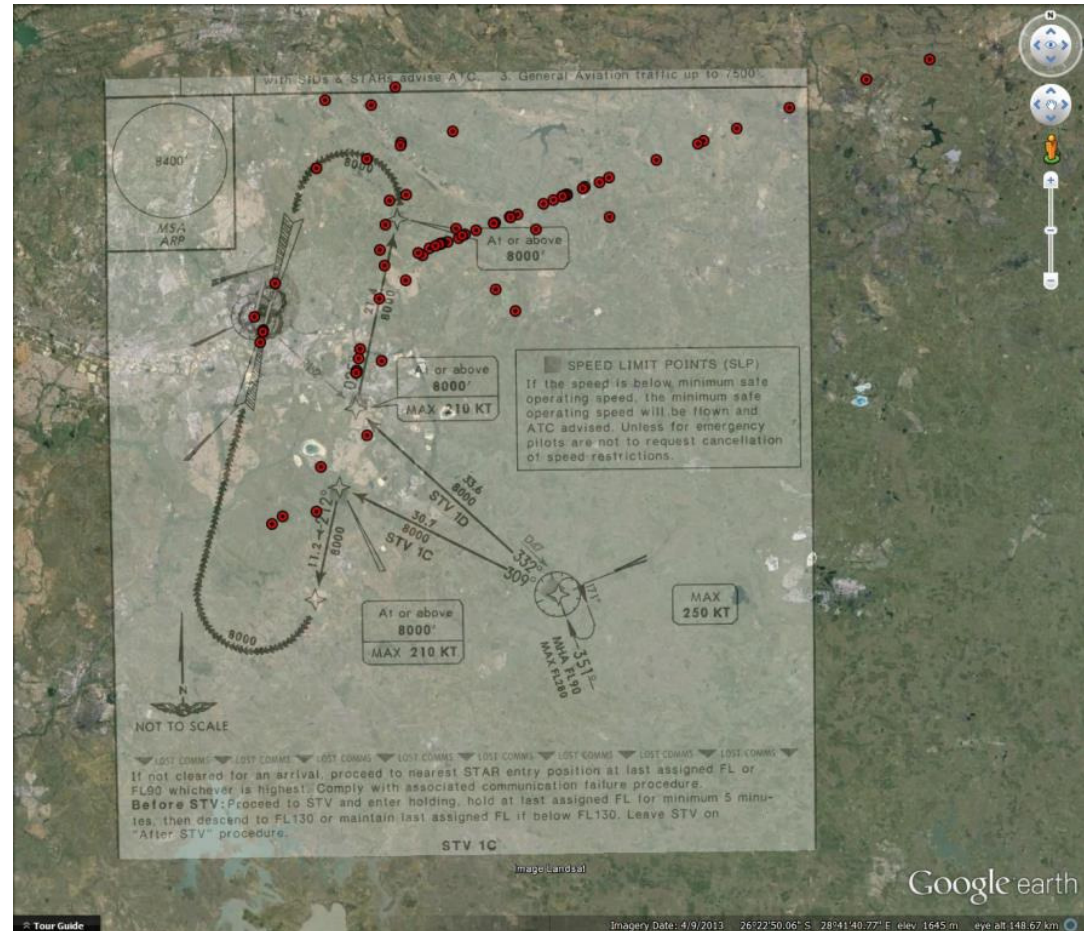
Example: Data at Work

- GADM-FDX allows identification of TCAS hotspots
- GADM-STEADES analysis provides the pilot's perspective of the TCAS encounter



Threat Analysis

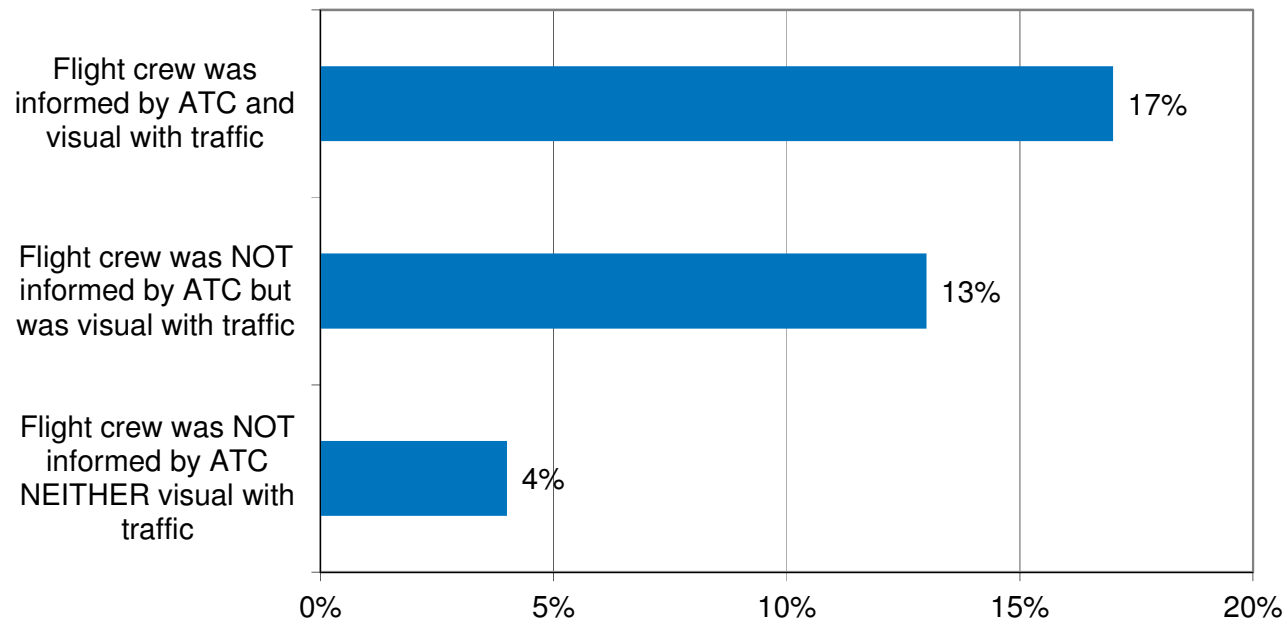
- GADM-FDX allows identification of TCAS hotspots
- Various readily available tools are used to analyze identified issues





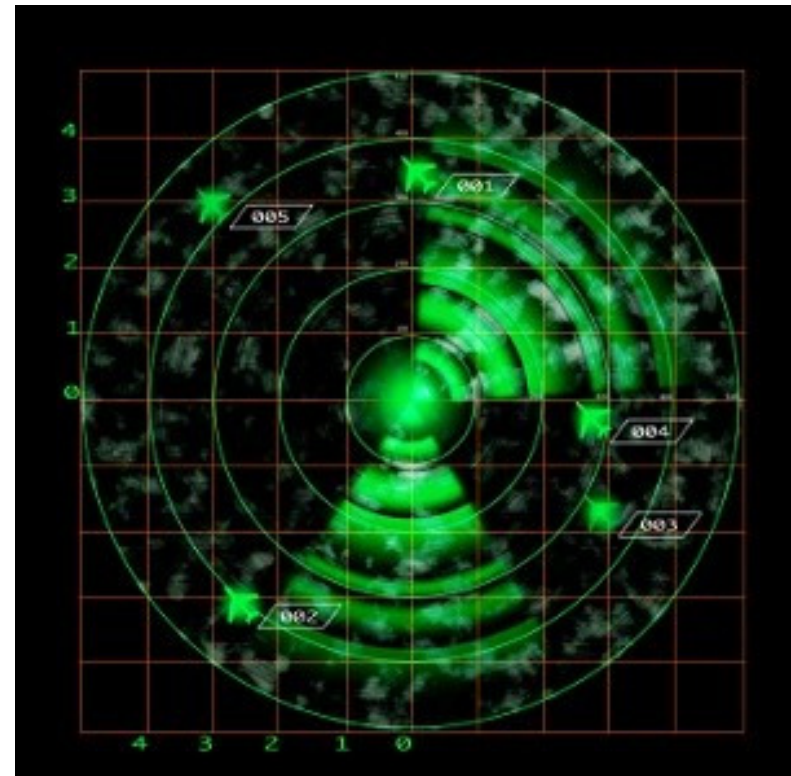
STEADES Provides Perspectives

TCAS RA Reports - Correlations



TCAS example cont'd

- VFR/IFR interactions and military/IFR interactions as potential causes of TCAS RAs
 - Many of the highest risk TCAS incidents involved situations where there were no military threats and where no rules of the air were broken

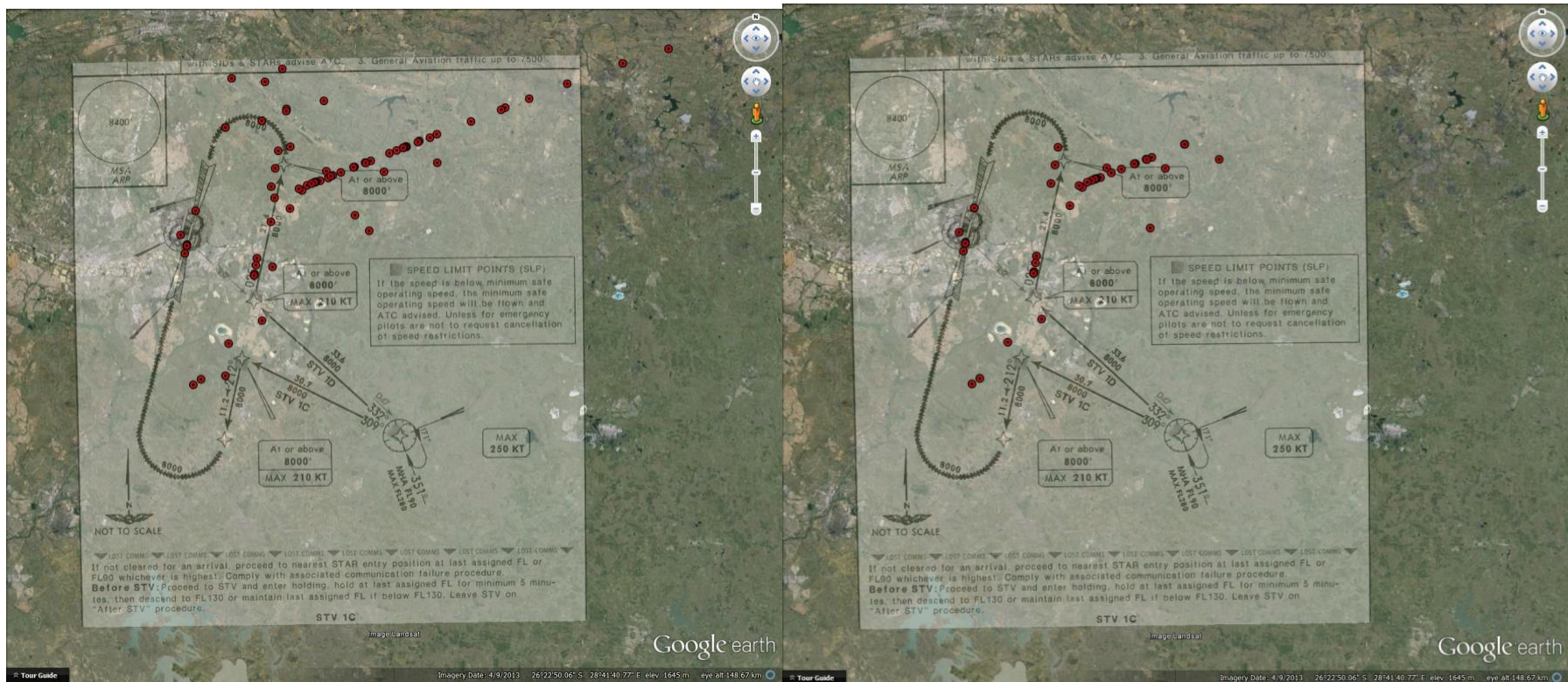


Working Solutions

- Work with the stakeholders to further understand causes and seek possible solutions
- Mitigations are monitored ensure effectiveness



Verification Through Data





There are 100,000 take-offs and landings every day worldwide





THANK YOU!