



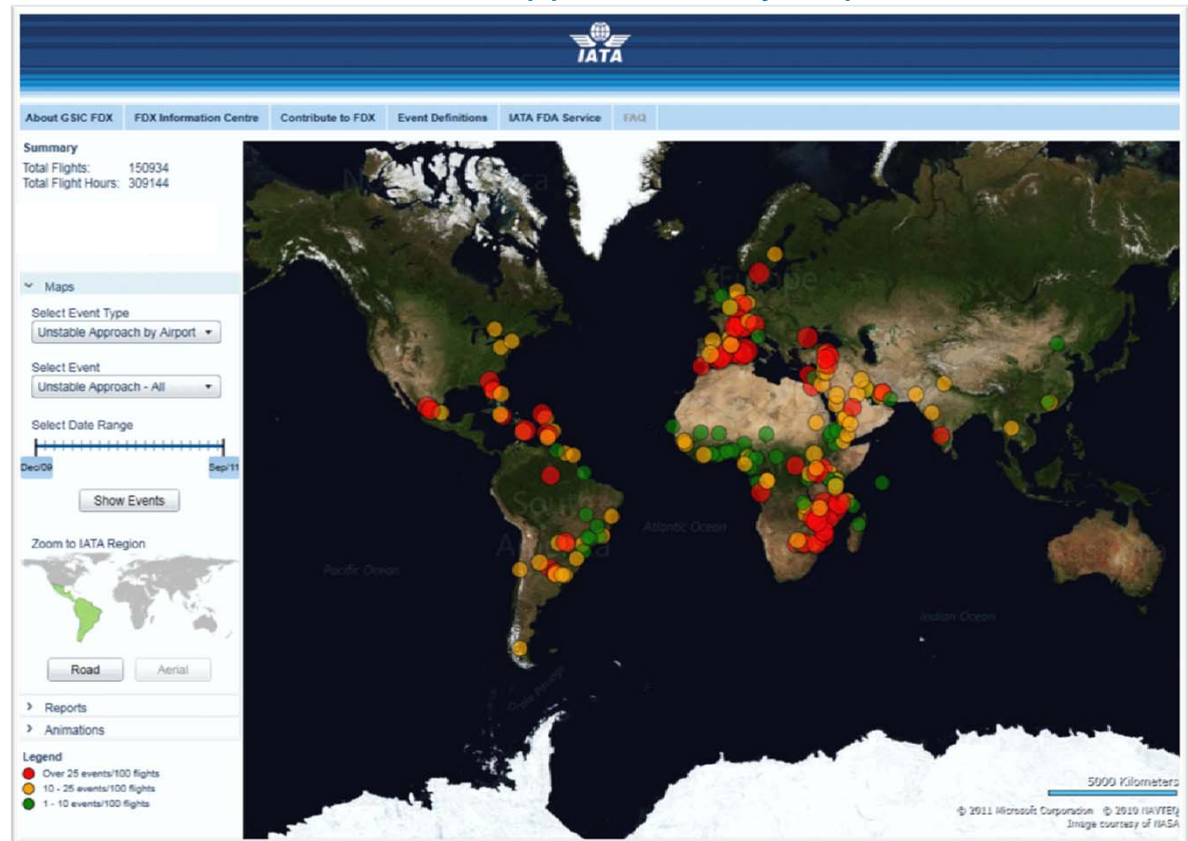
Data quality issues in Safety programs

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Example program: GSIC - FDX

- Currently: 20+ carriers
- Circa 200,000 flights as of January 2012
- IATA & ALTA Agreement
- New agreements pending

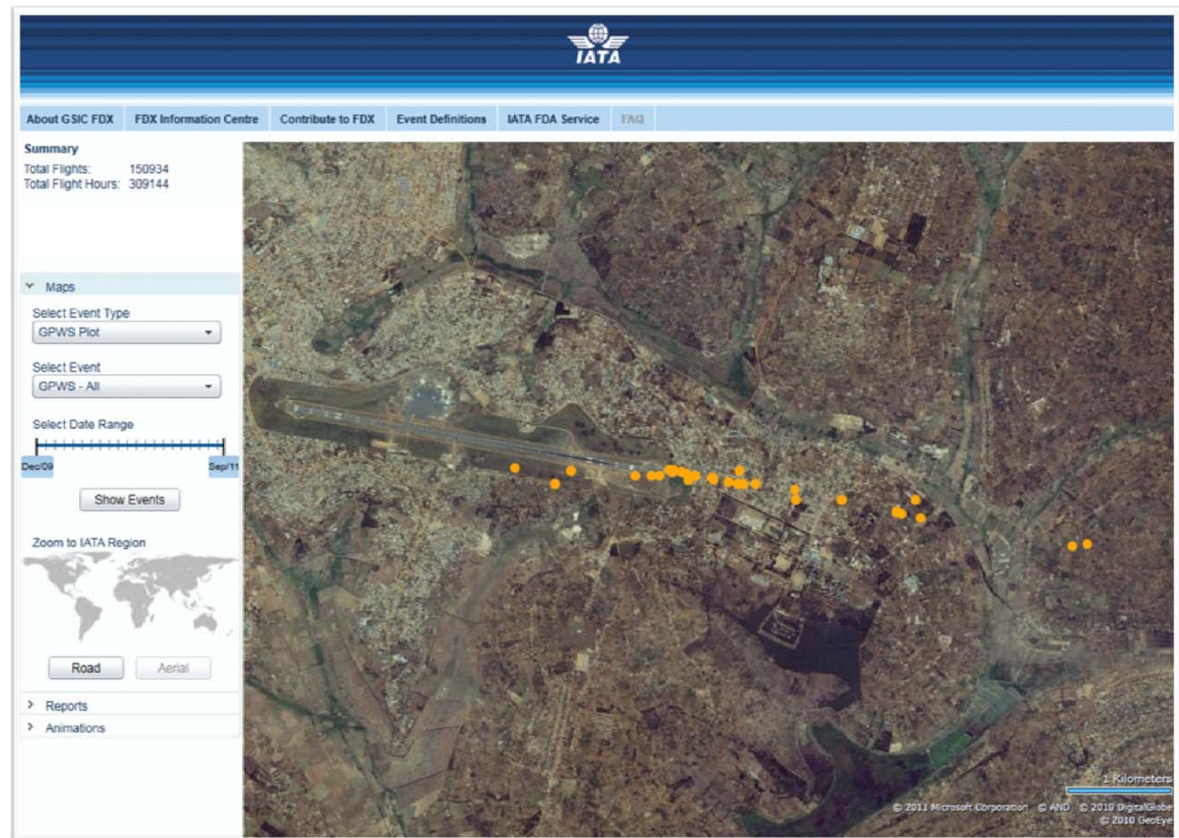
Unstable Approaches by Airport



GSIC - FDX

- GPW Terrain warnings are shown
- Data without mode information cannot be used

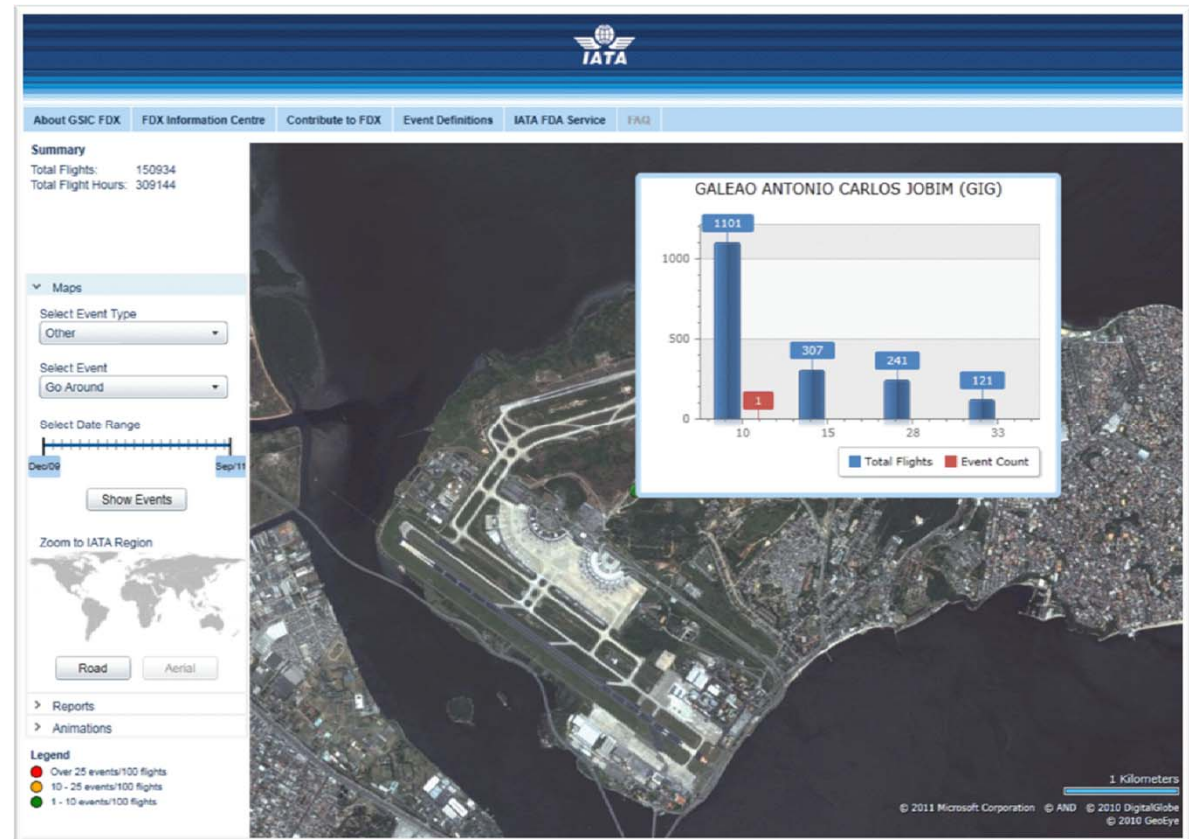
GPWS Geo-referenced Points



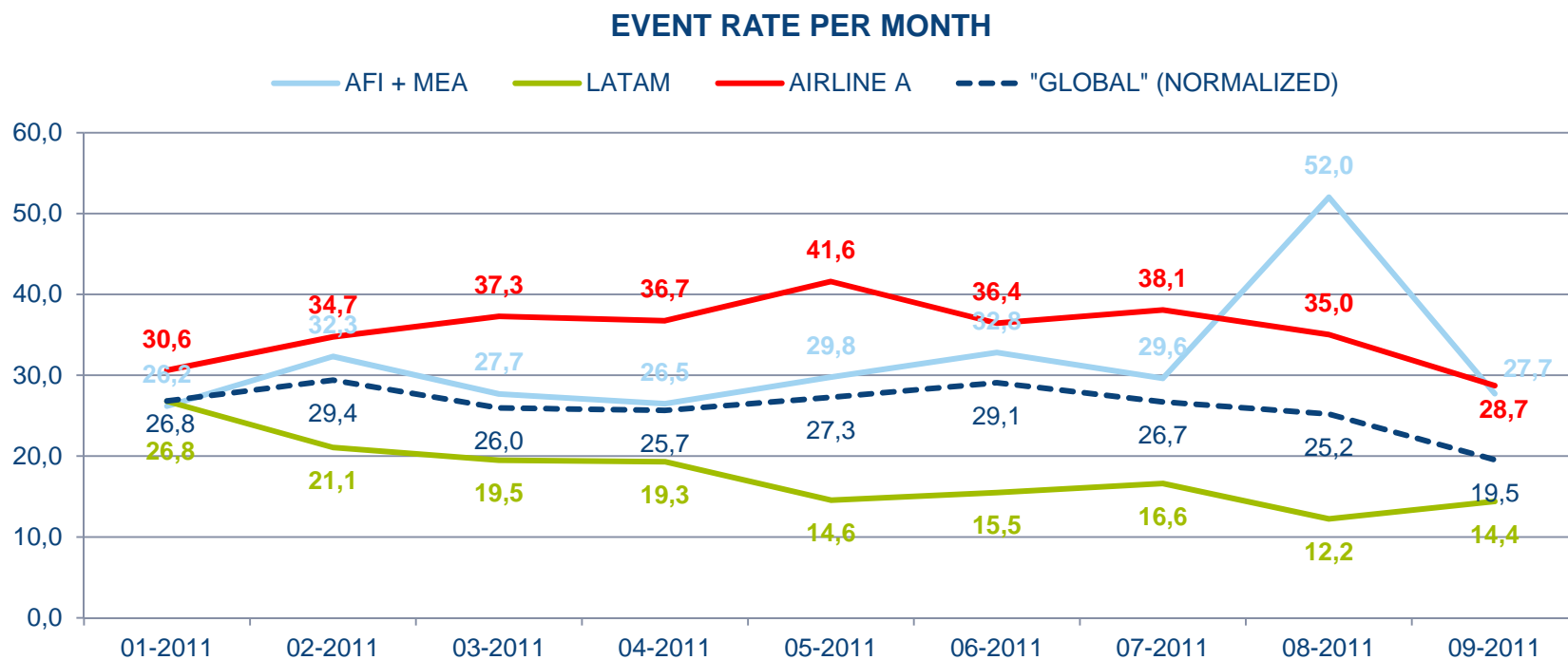
GSIC - FDX

- Dynamic Snapshot reports per airport
- Trend Analysis Reporting capability: existing & under development
- Comparative analysis amongst regions
- Identification of common issues

Go Around

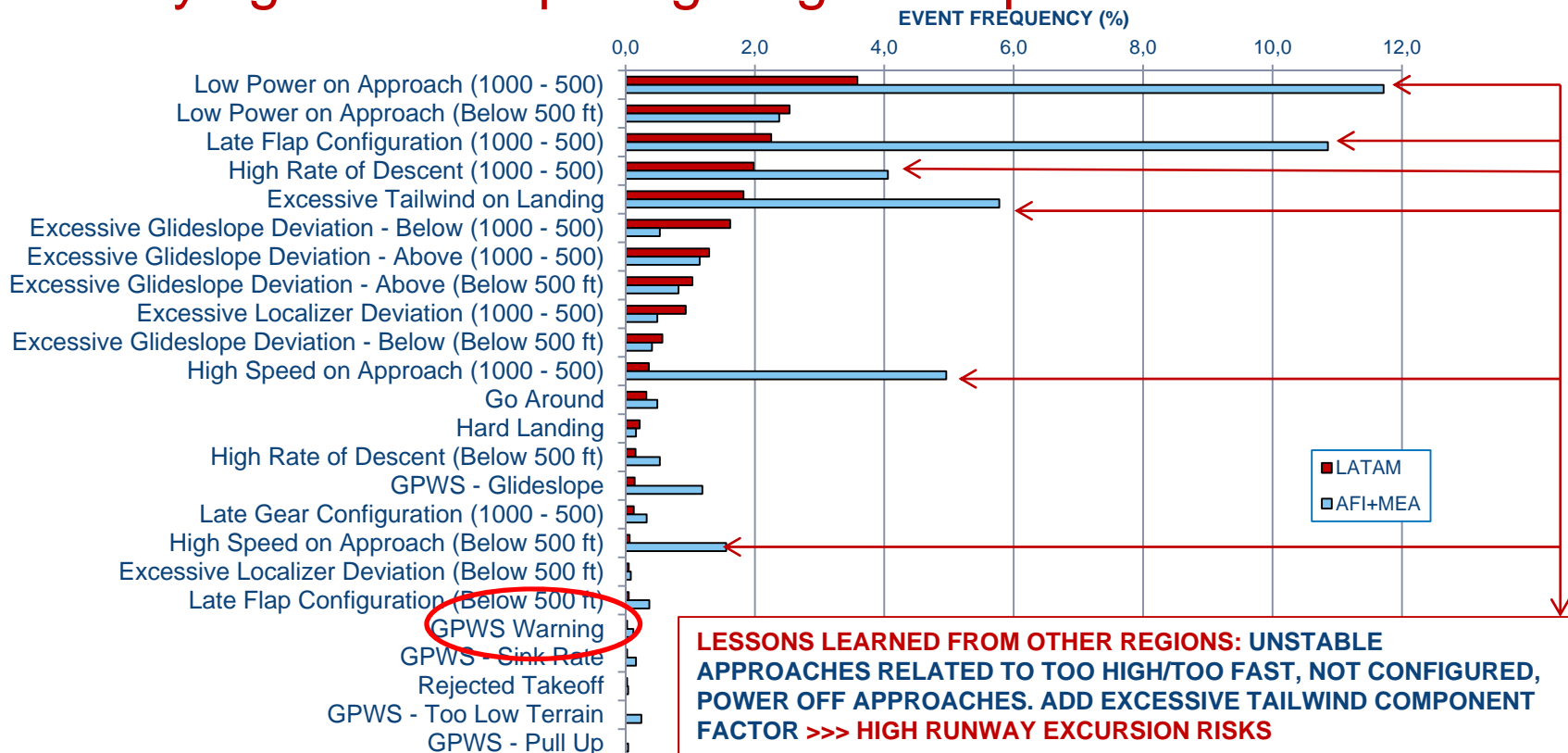


Comparing Airline vs Global/Regional Performance



The same event set must be used on all data analysed

Identifying and Comparing Regional-specific Events



GPWS without mode is of no use



Benefits to Airlines

- **Benchmark themselves against Regional and Global statistics**
- **Airport Risk Analysis – identify adverse event trends**
- **Assists in airport familiarisation for crews**
- **Global Animation Archive - training aids for safety awareness and training**
- **Specific studies on events and trends**
- **Closing the Loop – compare results with STEADES or in-house programs**

Data quality issues

- Missing parameters (weight, time, date.....)
 - Operators inevitably ask for information from a specific flight
- Numerous frame formats for the same aircraft type
- Data resolution and sample rates differ between aircraft types
 - Some parameters are once per second; sometimes two, four or eight
- Incorrect data frame documentation
 - Decode information is not always correct

GPWS and TCAS

- ↗ **Missing modes (GPWS, glideslope, terrain...)**
 - **Unable to use results without specific mode information**

- ↗ **TCAS RA's not recorded**
 - **Up/Down RA's not recorded**



Objectives (for discussion)

- Minimise number of data formats (e.g. B737-800 – **one format**)
- Key parameters to become standard (same word locations and decodes)
- All GPWS/TCAS modes to be recorded
- Standardise parameter resolution on key parameters
- IATA proposes a meeting to discuss these topics

Thank you