



ICAO Safety Intelligence Programme

Monday, 23 May 2016

PRESENTED BY:

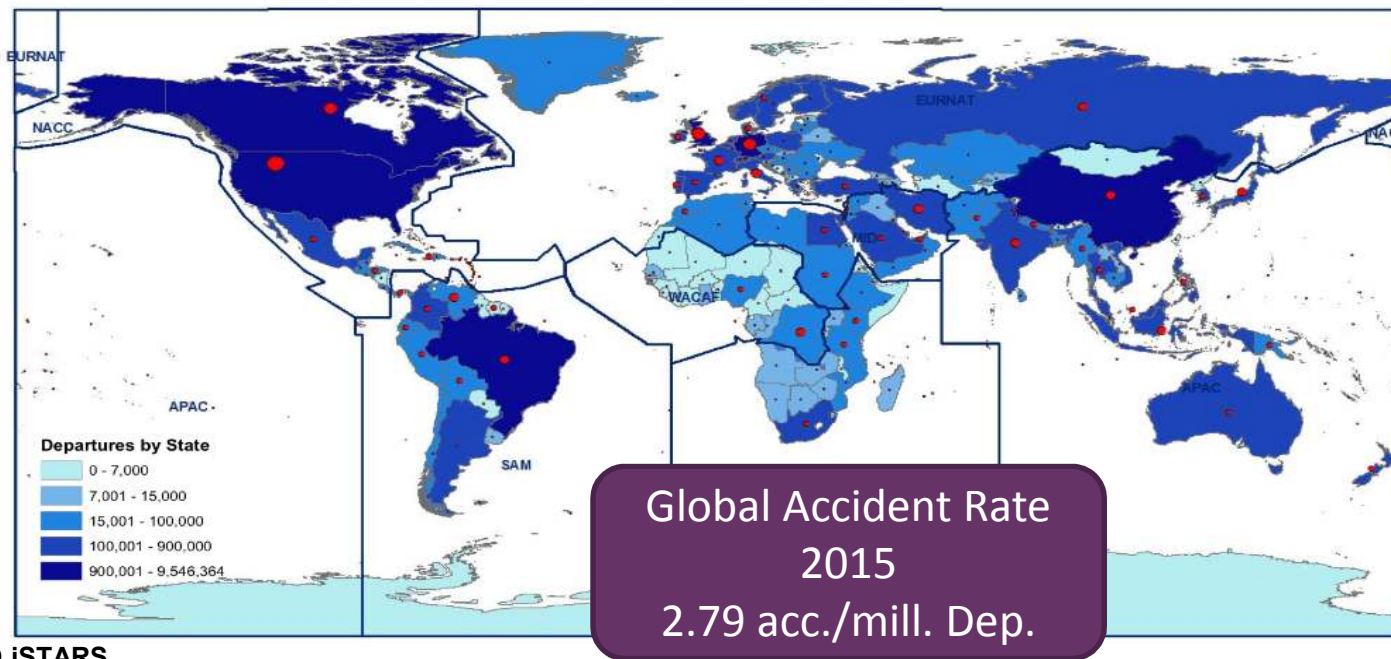
Marco MERENS

Chief, Integrated Aviation Analysis

ICAO

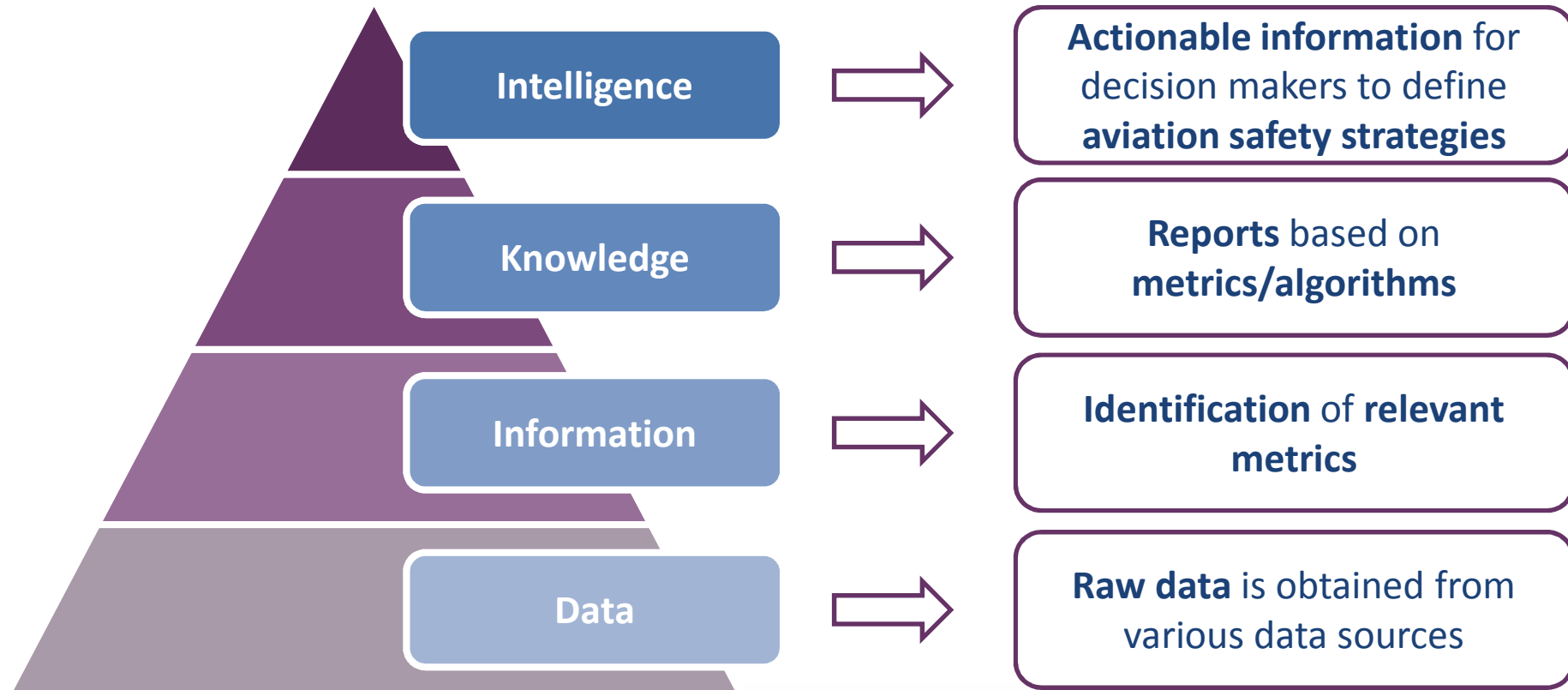


State of Global Aviation Safety



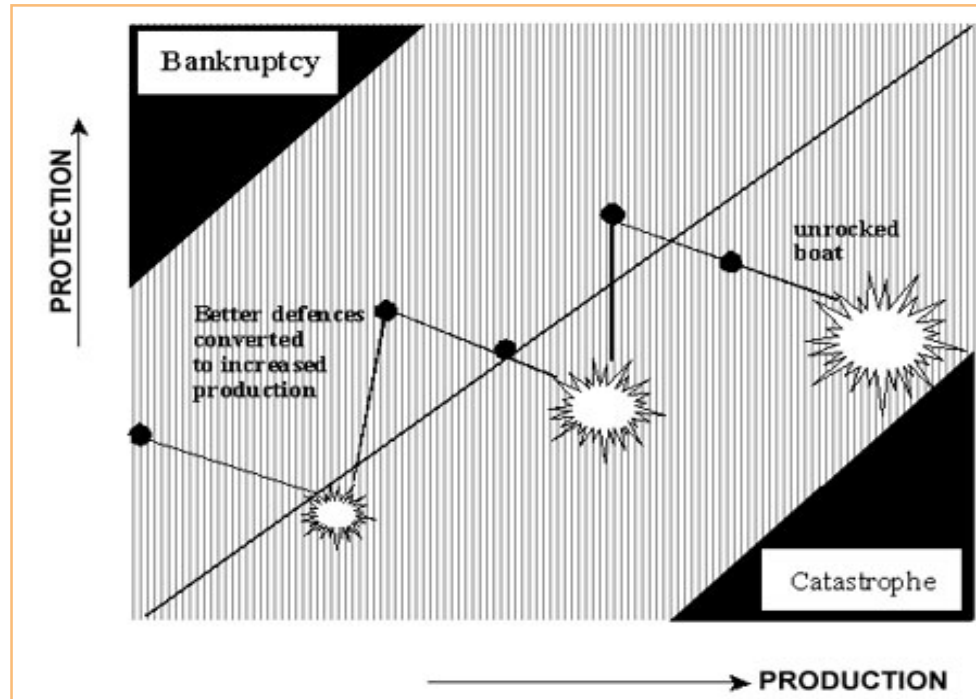
Source: ICAO iSTARS

Safety Intelligence Objectives



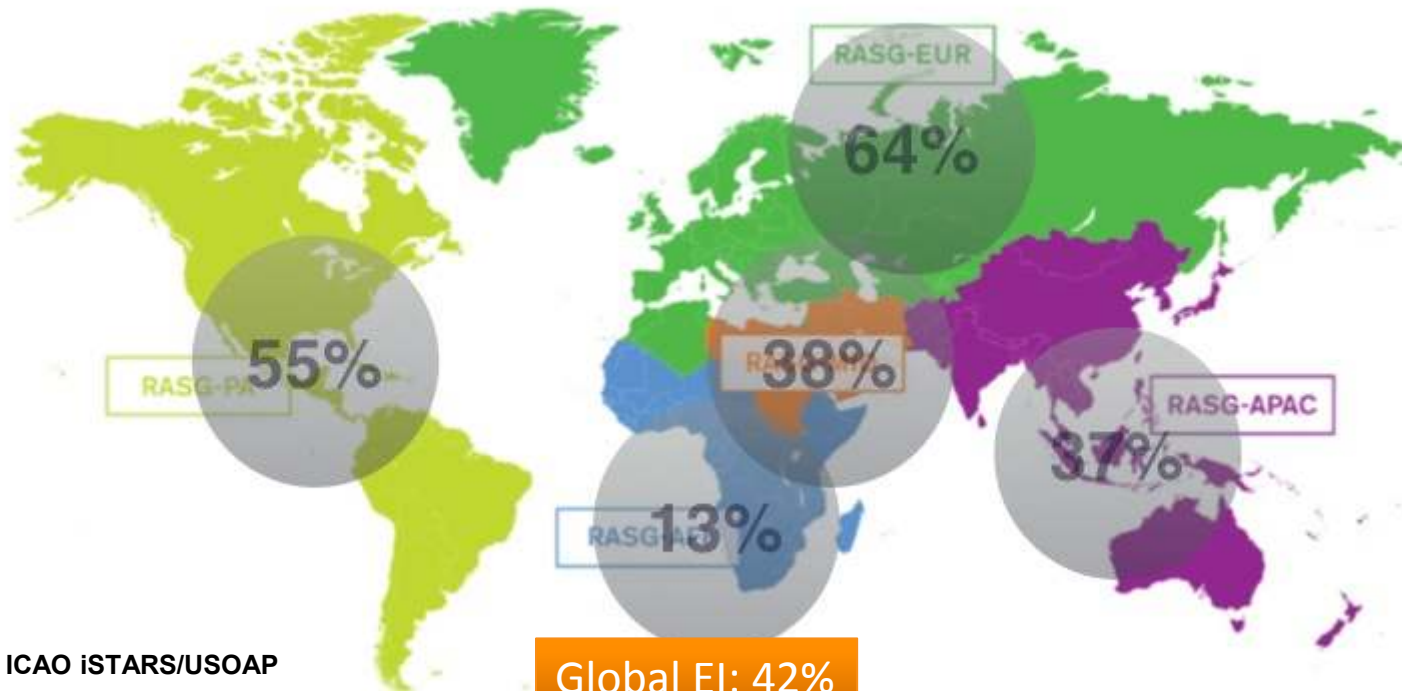
The Safety Model

- **Protection**
 - Procedures
 - Training
 - Legislation/Standards
 - Controls
- **Production**
 - Flights
 - In-service time
 - Usage



Sources: Reason, James. Managing the Risks of Organizational Accidents, 1997

Effective implementation of occurrence databases

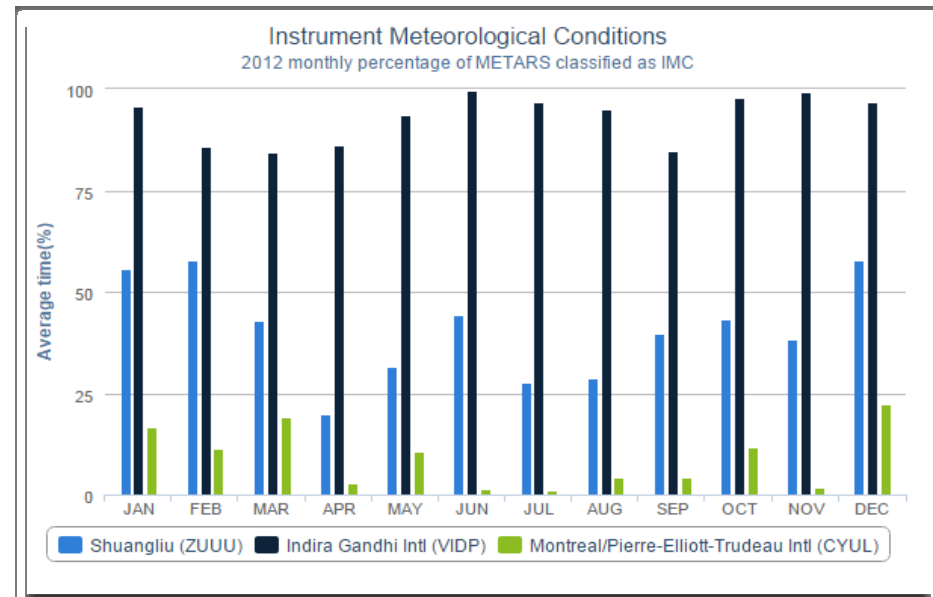


Source: ICAO iSTARS/USOAP

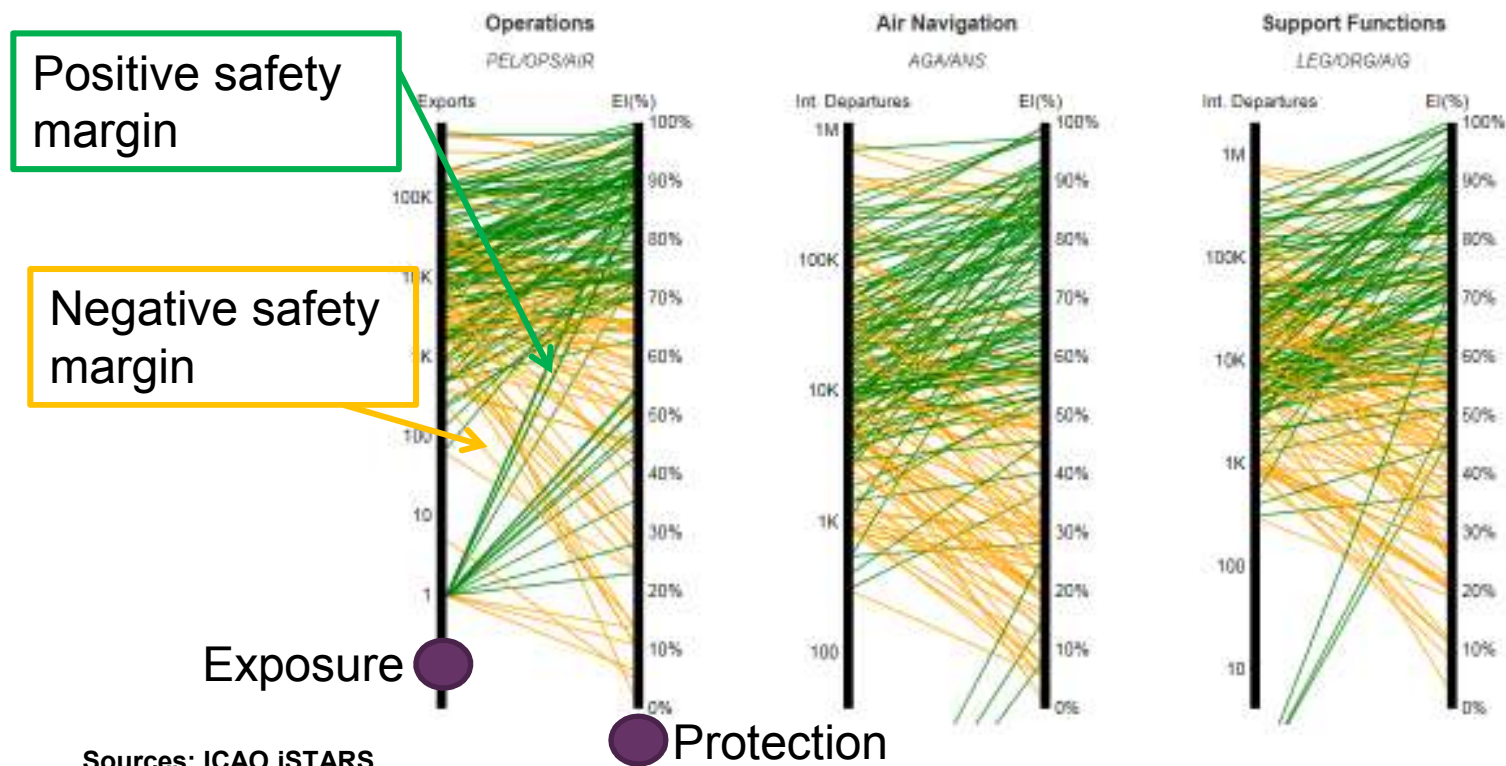
Safety Analysis Backbone

1. Identify Hazard
2. Quantify Hazard
3. Quantify Exposure
4. Identify Safety Margin

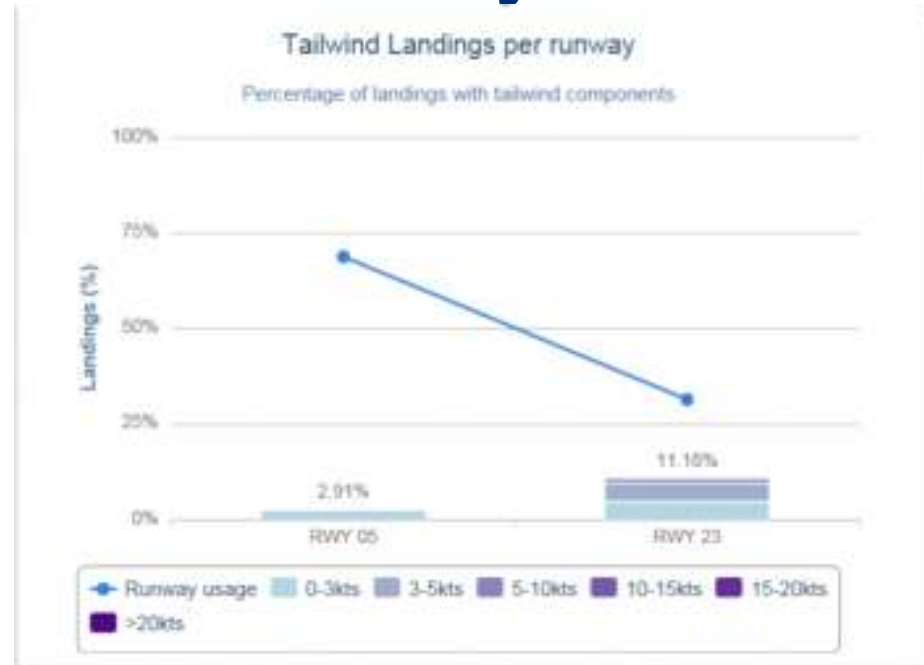
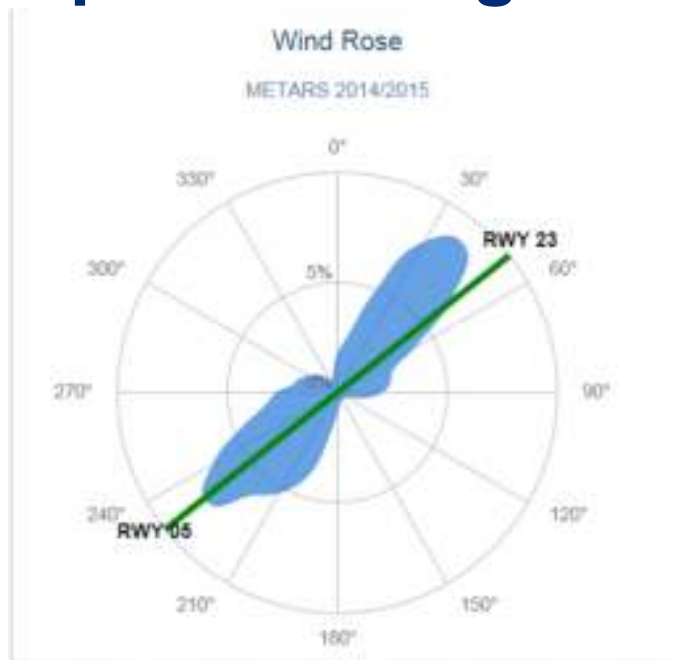
**EXPOSURE
VS
HAZARD/PROTECTION**



Quantifying Safety Margin for States

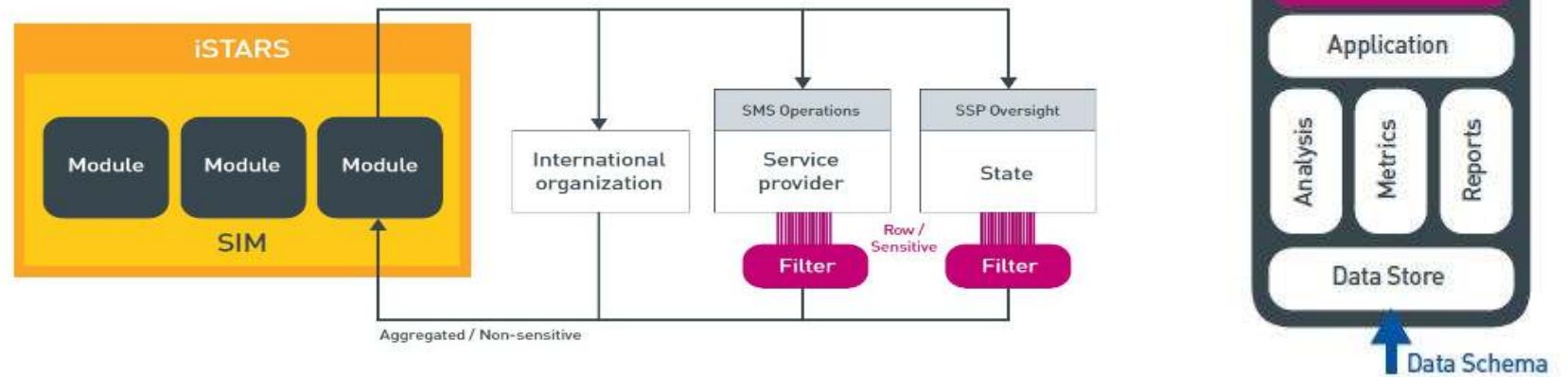


Airport Briefings with tail wind analysis



Source: ICAO iSTARS Airport Briefing App for Geneva airport

Safety Information Monitoring Service



The ICAO Safety Information Monitoring Service (SIMS) supports States and service providers in the process of **collecting, monitoring, visualizing** and thus, sharing progress of their State Safety Programme (SSP) and Safety Management System (SMS).

Source: <http://www.icao.int/safety/Pages/Safety-Information-Monitoring-Service.aspx>

Safety Intelligence Frameworks



<http://www.icao.int/safety/istars>

- Accident, traffic, fleet and USOAP Audit Data
- Integrated safety analysis results



<http://gis.icao.int>

- Georeferenced Data visualization maps
- Routes, traffic and airspace maps

EBACE

24-26 MAY 2016 | GENEVA

