



# Safety Intelligence

Analyzing large and diverse datasets to extract useful information is a major challenge. Gigabytes of data are generated each day relating to aviation, including weather reports, accident notifications, traffic departure data, fleet changes, audit programme findings and traffic flows. The key to utilizing the data is being able to identify its relevance to specific safety issues.

ICAO Safety Intelligence automatically goes through this information to deliver the content required to better manage the safety of the aviation system.

## A Wealth of Safety Information

ICAO Safety Intelligence integrates data from multiple aviation domains. By combining information provided through the normal ICAO reporting channels, along with inputs from industry partners and third-party suppliers, a holistic, multi-dimensional view of safety can be obtained:

### CERTIFICATION

USOAP  
Leasing Activity  
IOSA

### EXPOSURE

Departures  
Leasing Activity  
Overflights  
Fleet Growth

### OCCURENCES

ICAO ADREP

### TECHNOLOGY

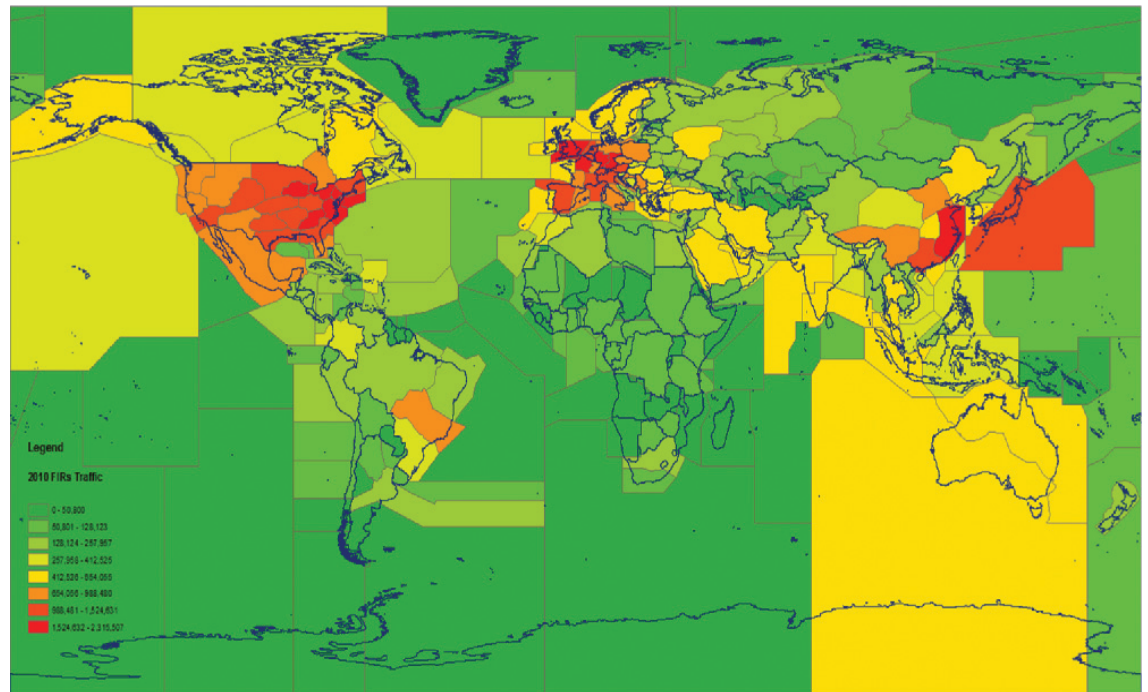
CNS Infrastructure  
PBN Implementation

### OPS ENVIRONMENT

Airspace Complexity  
Terrain  
Weather  
Remote Area Ops

Information from different sources can be seamlessly merged to produce effective safety risk assessments. ICAO has partnered with international organizations and leading universities to ensure the effectiveness and accuracy of its safety risk modeling and analysis protocols. ICAO Safety Intelligence can also offer customized solutions for unique aviation risk management challenges.

Actual ICAO Safety Intelligence visualization showing the density of traffic flows within each Flight Information Region (FIR) globally.



## Built on iSTARS

ICAO leverages its experience in building the iSTARS platform to generate Safety Intelligence that provides decision-makers with analytics and visualization tools that drive safety strategies. The iSTARS platform integrates ICAO data sources from across operational domains, including:

- Accidents
- USOAP performance
- Terrain Data
- Flight Traffic
- Fleet Composition
- Airspace Complexity
- Weather Data

For a more complete explanation of what benefits ICAO Safety Intelligence can deliver to your organization, or for a hands-on demonstration of how ICAO Safety Intelligence is taking on real-world safety management issues, please contact ICAO's Integrated Safety Management Section.



ICAO

For more information on ICAO Safety Intelligence, visit:

[www.icao.int/safetyintelligence](http://www.icao.int/safetyintelligence)

Or contact ICAO Integrated Safety Management via:

[ism@icao.int](mailto:ism@icao.int)