



canoso

civil air navigation services organisation

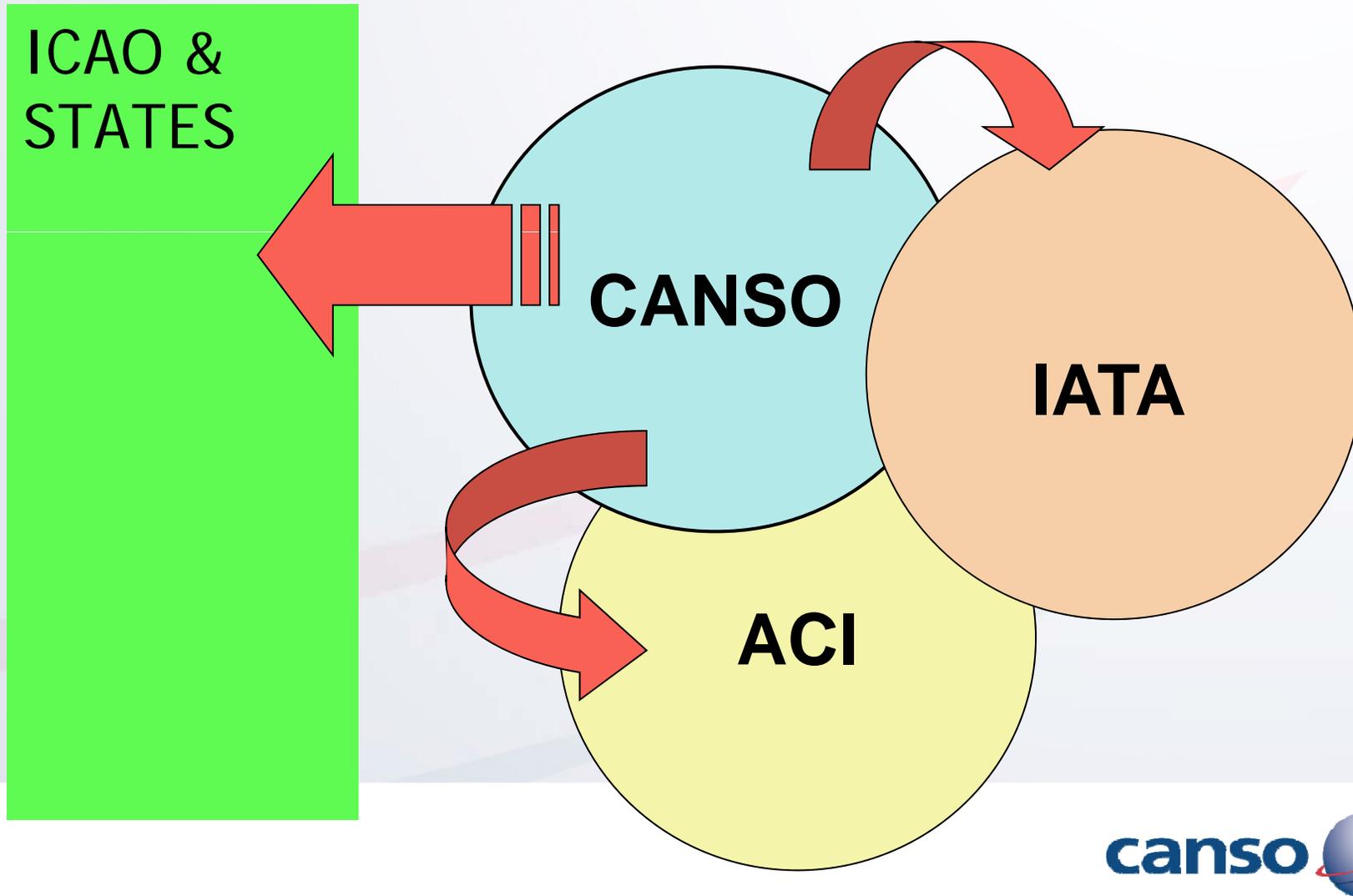
The Global Voice of ATM

**Air Navigation Services –
a critical part of the value chain**

Quick introduction to CANSO

- The Global Trade Association of Air Navigation Service Providers (ANSP)
- Members control over 80% of world's air traffic and more than 70% of the world's airspace
- HQ in Amsterdam with offices in Brussels, Montreal, Singapore and Jeddah.

PARTNERS IN THE VALUE CHAIN



The Challenge.....



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Safety possible only if
capacity keeps pace
with growth



Track Record

Accidents (Hull losses) per million flights (2008)

Europe	0.42
N America	0.58
Asia Pacific	0.58
Middle East	1.89
Africa	2.12
Latin America	2.55

Source IATA

Capacity building:

- ATM investments
- Qualified people
- International collaboration
- Well managed ANSPs

Investing in ANS

- Investments in airports and aircraft must be matched by investments in ANS
- Matching ATM and aircraft automation
- Customer focused and performance driven systems
- Interoperable technology - coordinated on a regional basis

Plan ahead and invest in human capital....



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Increased Demand for Qualified and Experienced People

- Last year IFATCA reported a shortage of 3000 controllers world-wide
- Demand not only for controllers but airspace planners, engineers and technicians
- Long lead time to train and produce qualified personnel

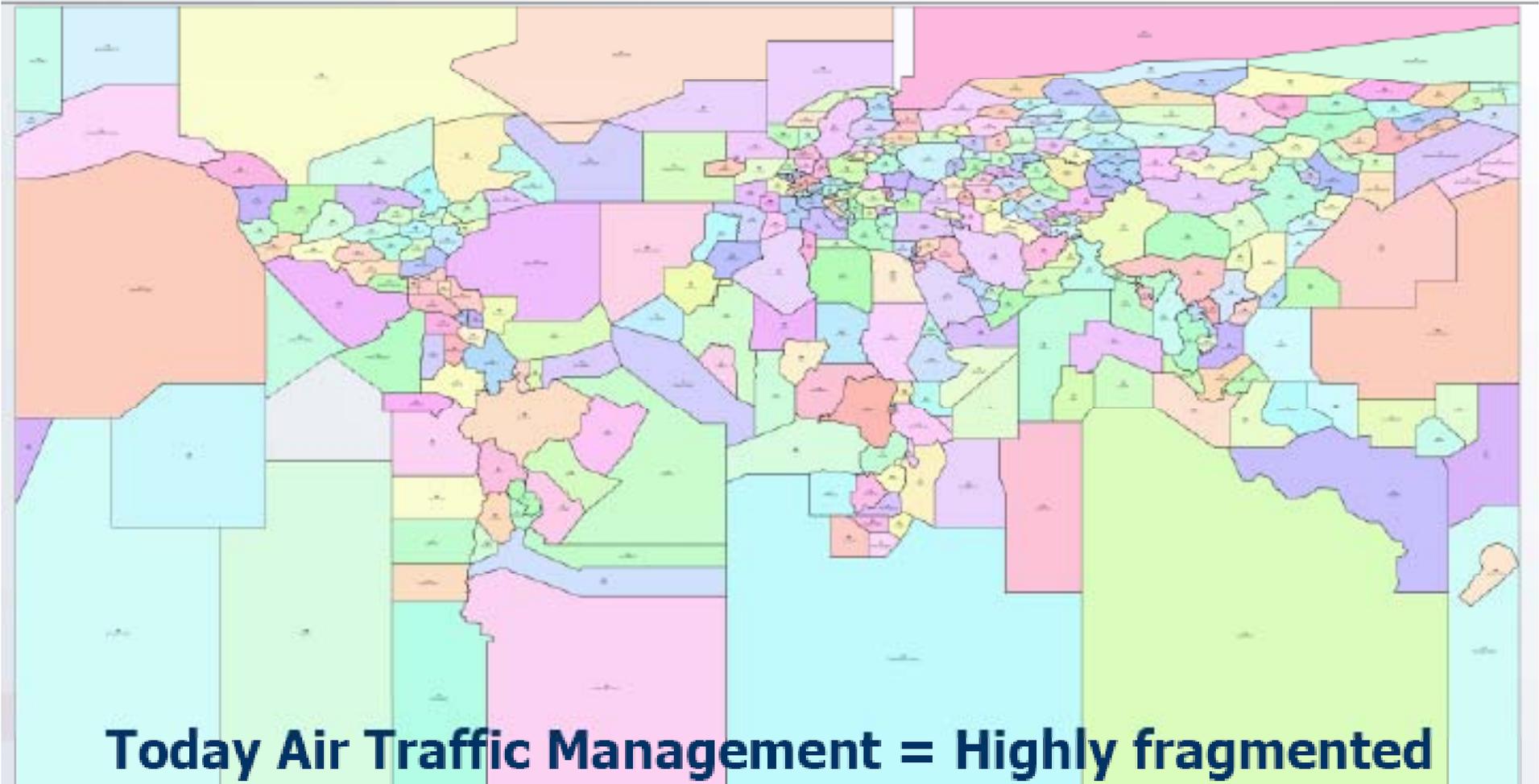
International Collaboration



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Global Flight Information Regions



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Fragmented airspace coupled with growing traffic demand.....



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Fragmented Airspace

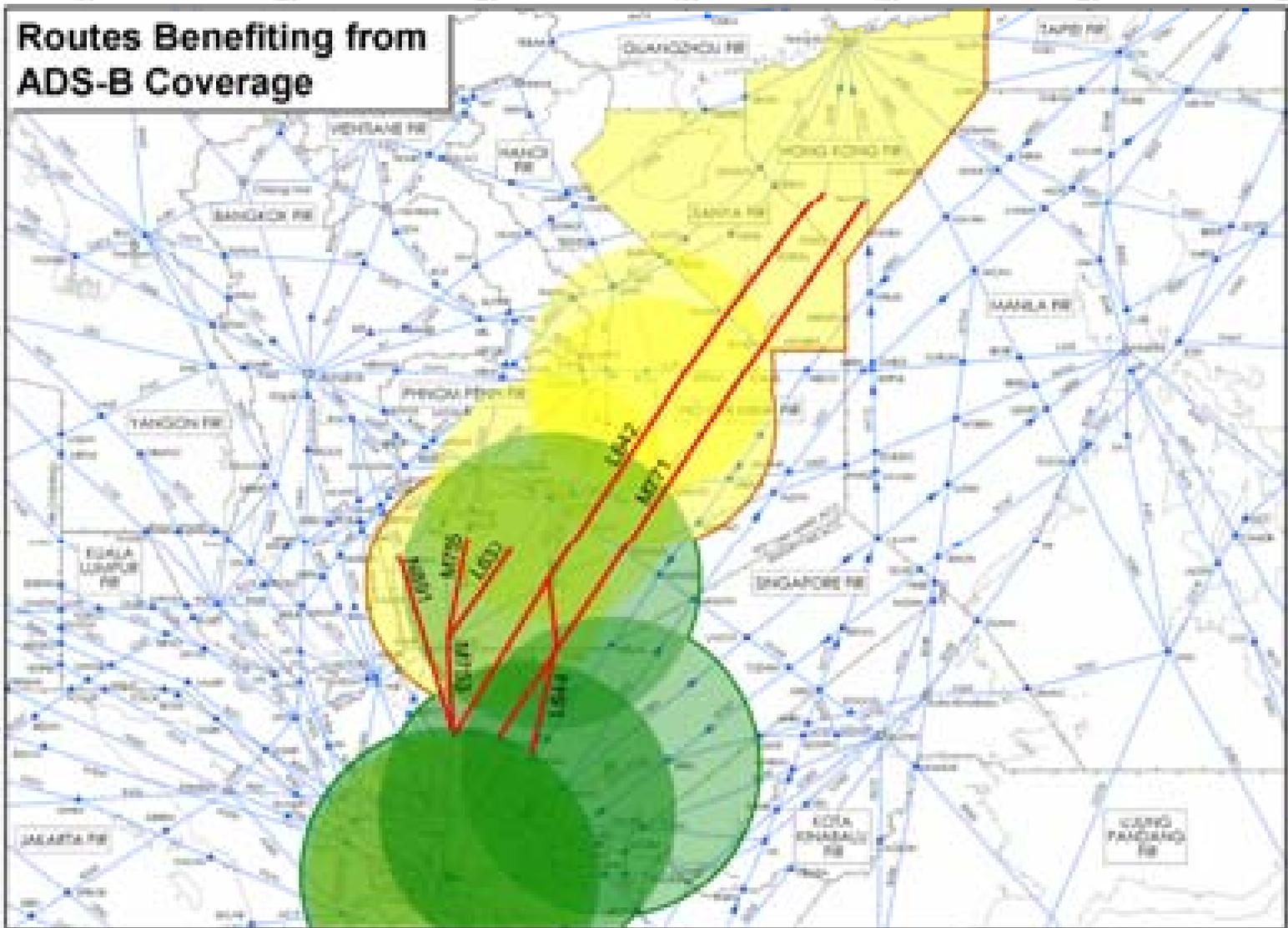
- Flights cross multiple FIRs controlled by different ANSPs
- ANSPs and all stakeholders need to work towards a harmonised globally interoperable ATM system

Example of ANSPs working together to harness technology

- CANSO and IATA collaborating with regional ANSPs under the auspices of ICAO to provide full ADS-B coverage over the South China Sea
- Safety, capacity and efficiency will be greatly enhanced resulting in lower fuel burn and emissions

Project Scope

Routes Benefiting from ADS-B Coverage



ANSP Development



Conclusion

- Continuous growth in air traffic will force the pace of change in technology and the transformation of ANSPs
- But ANSPs by themselves cannot solve regional and global airspace problems
- Only close collaboration can deliver efficient, cost effective and seamless airspace to users

A safe and seamless airspace experience



seamless airspace

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