

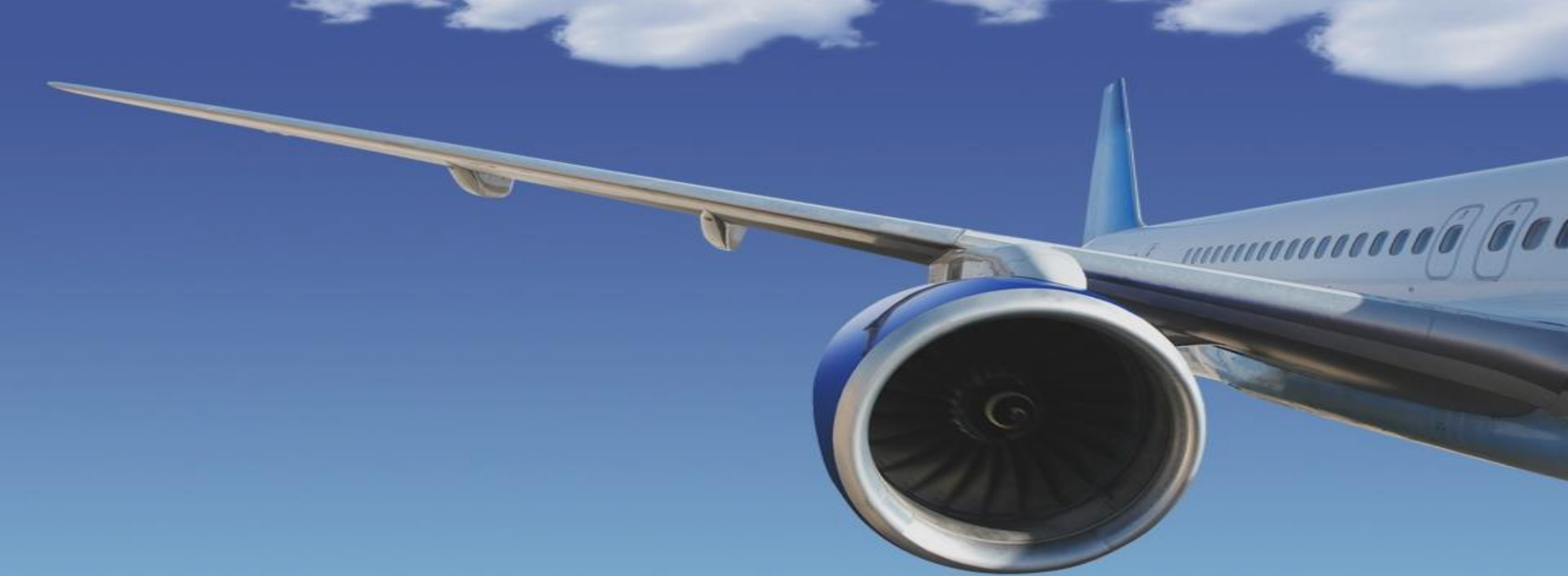
Operator Perspective: FRA Implementation

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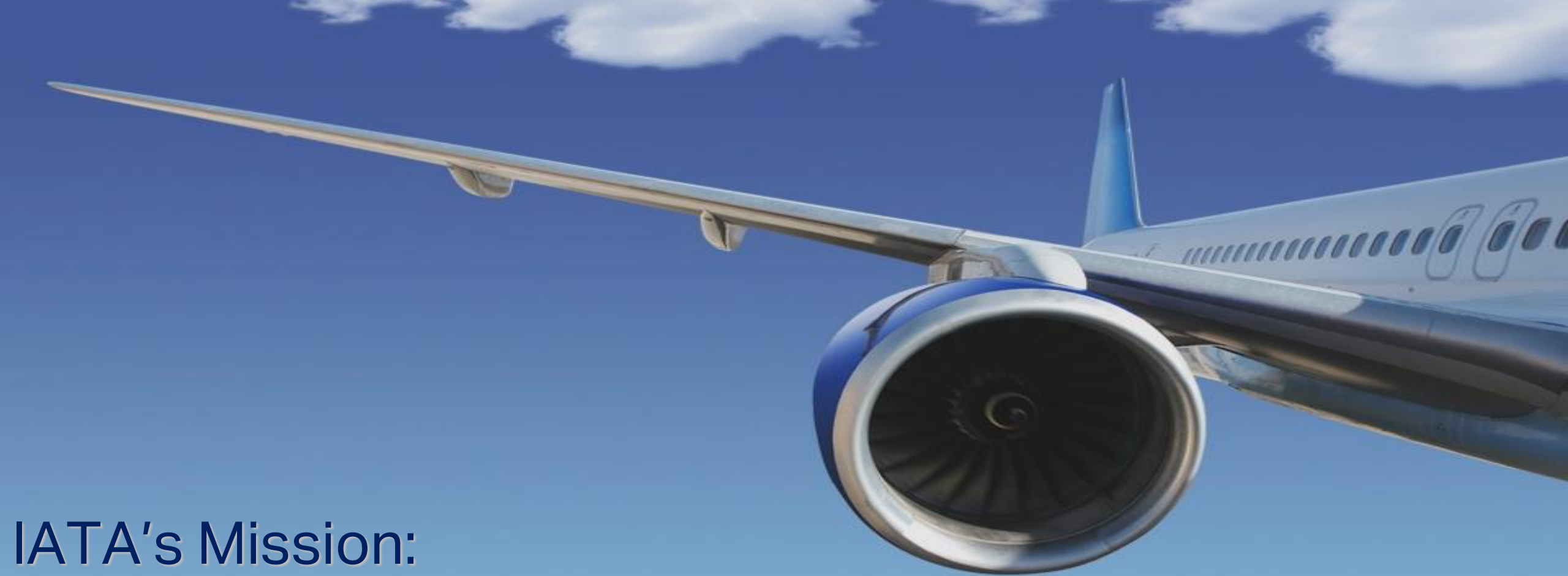
IATA Asia Pacific

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IATA: Trade Association of Airlines

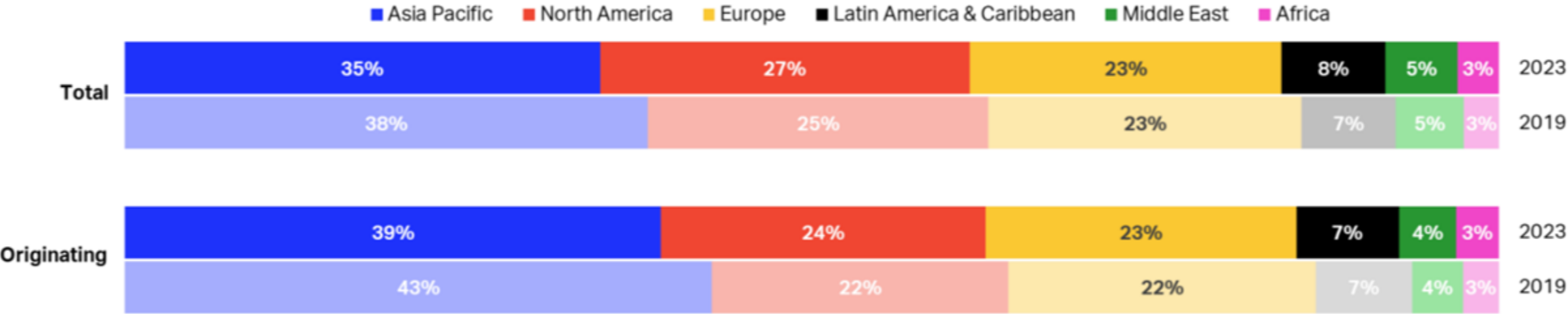
- 300 Member Airlines in over 120 countries
- Carrying 83% of the world's air traffic



IATA's Mission:

- To represent, lead and serve the airline industry
- Represent airlines' interests to governments & international organisations
 - Assist the airlines in developing solutions to the issues affecting efficient operations

Regional Perspective: Asia Pacific



Source: IATA Sustainability and Economics, using data from DDS.

Operator Perspective: FRA Implementation



User Expectations:

*"Imagine there's no airways, No fixed routes to fly
No VOR or NDBs, above us only sky
Imagine all the planes filing and flying way they like*

*Imagine there's no H24 SUA, it isn't hard to do
No reason we can't fly wherever and how we want to
Imagine all the airspace users living life in peace*

*You may say I'm a dreamer but I'm not the only one !
I hope someday you'll join us and the industry will work as one "*

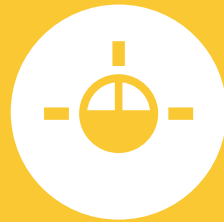
WHY FRA may going to be the Future of Air Traffic Management?

Benefits



Airspace Capacity, Efficiency

- More availability of routes
- Higher traffic volumes flying OPT FLs
- Optimises Routes
- Delay reduction



CO2 Emissions

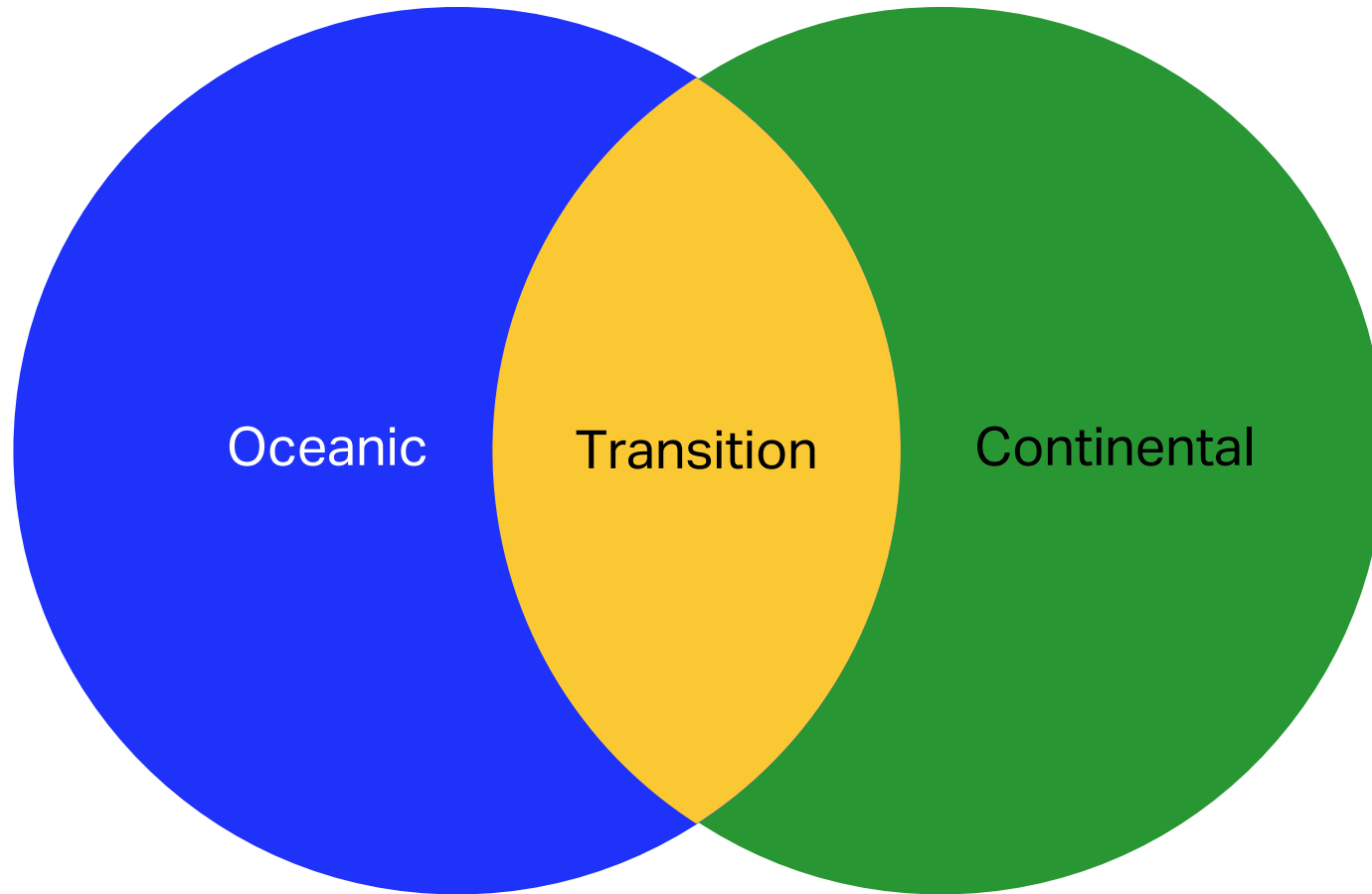
- Reduces flight distance, Flying time
- Reduces Fuel consumption means reduction in CO2 Emissions
- Reduces Operating costs for airlines



Safety

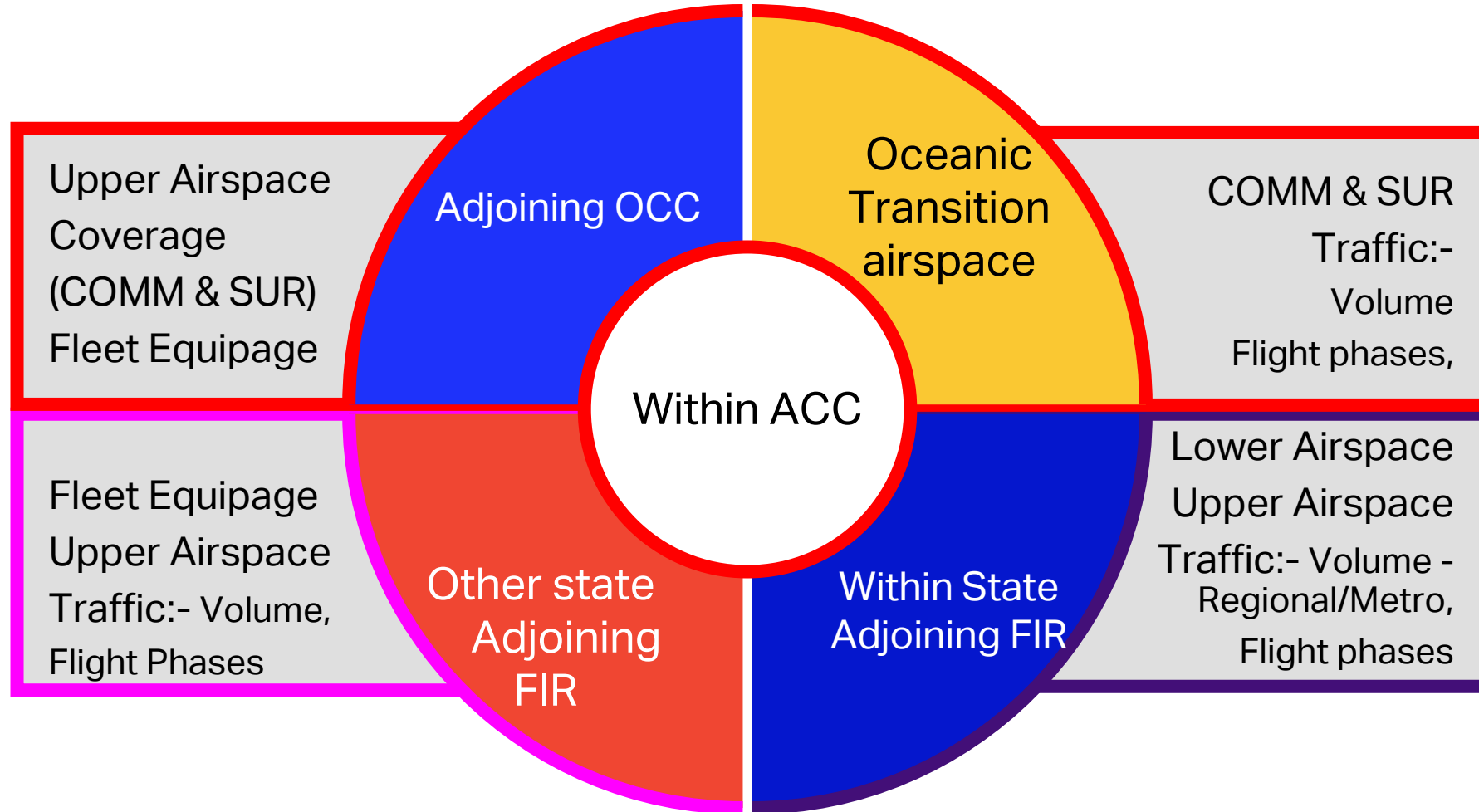
- Reduced complexity and error-prone manual intervention in the flight planning process
- Improved and predictable operations accounting for Adv Weather avoidance

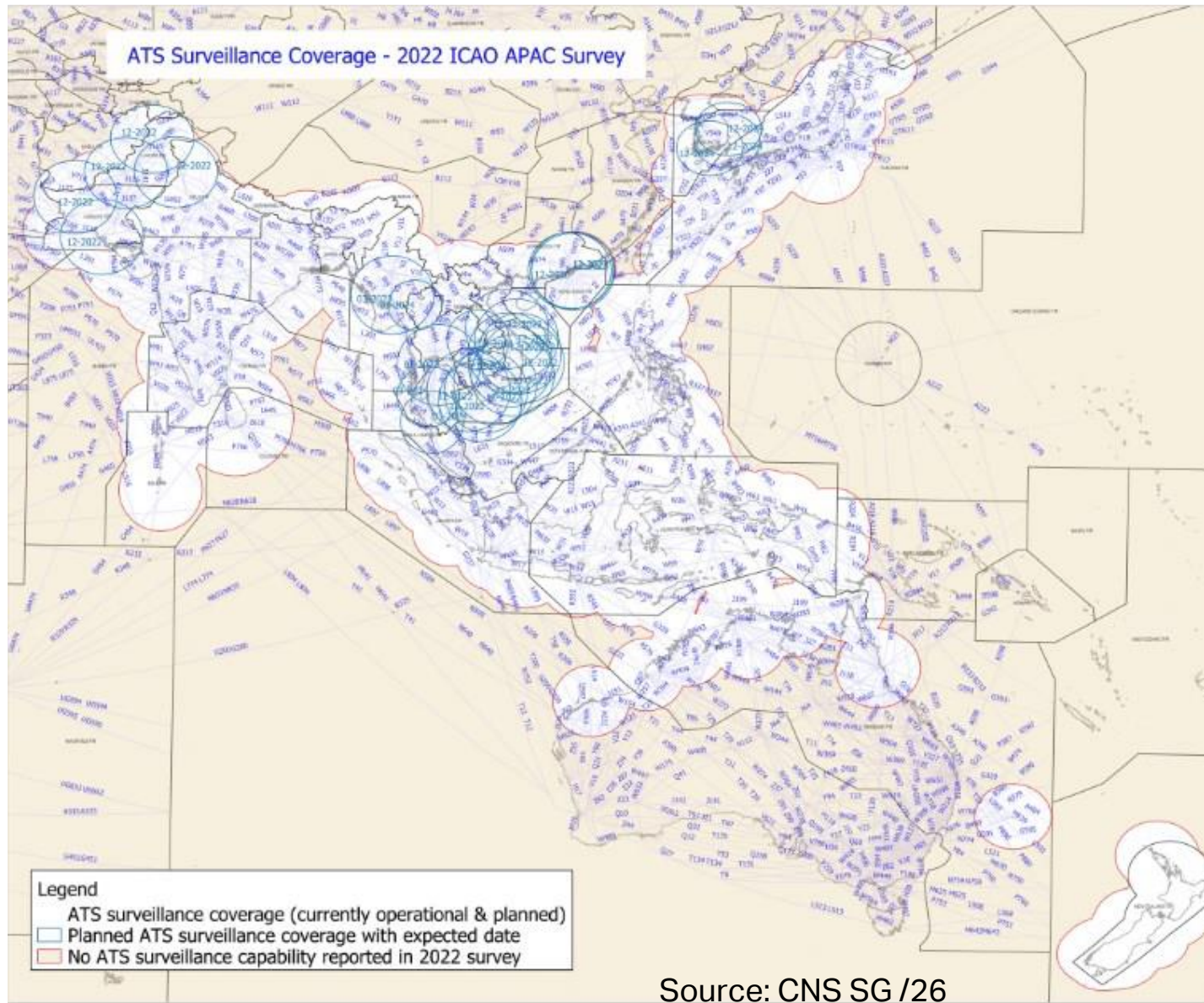
FRA Strategies: Airspace



- ✓ SUR & COMM Coverage
- ✓ ATM Automation system
- ✓ Traffic Density and Patterns
 - ✓ Day of the week
 - ✓ Time of the day
- ✓ Aircraft Equipage
- ✓ Collaboration with adjacent FIR

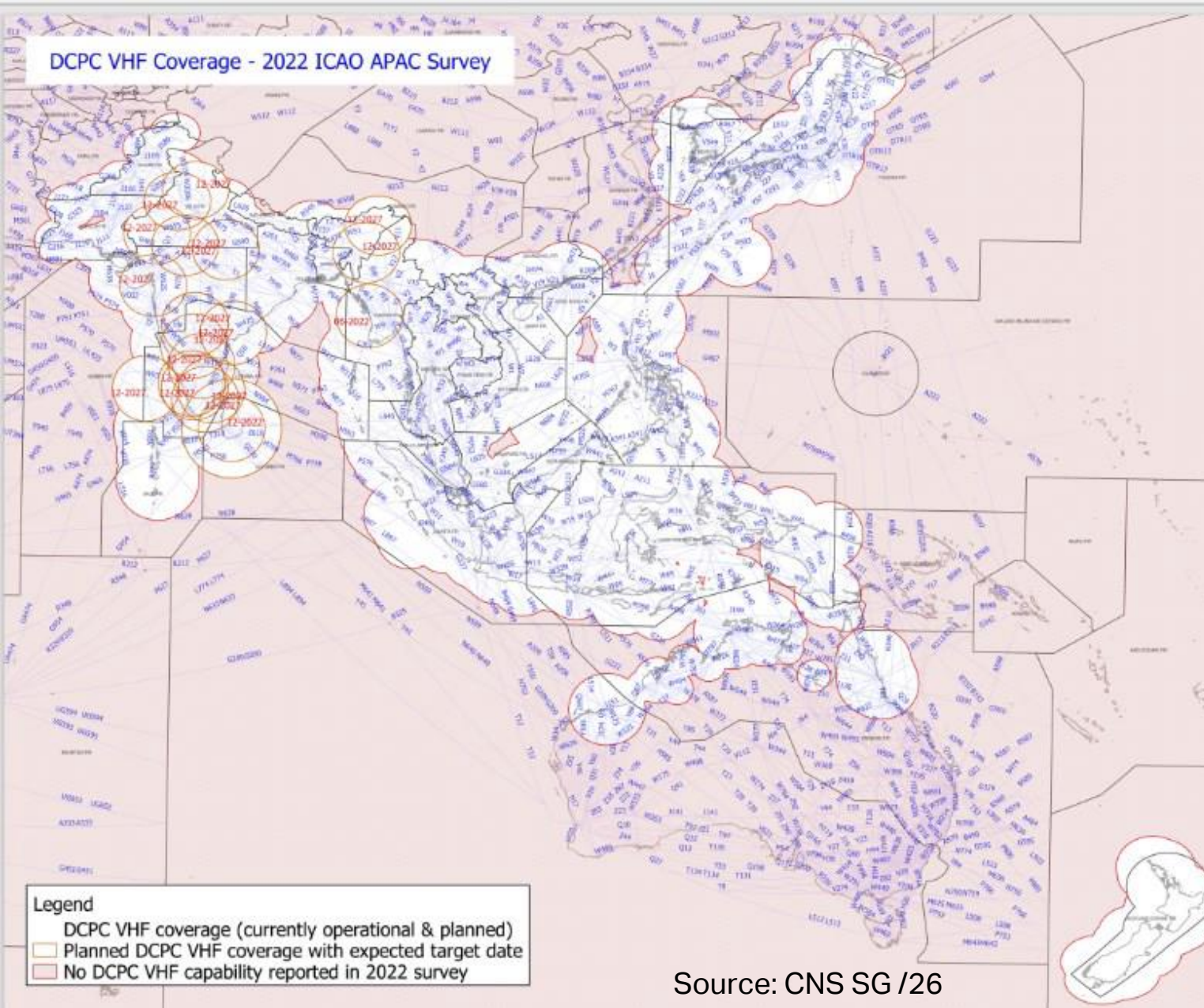
FRA Strategies: Airspace





FRA Strategies:

ATM Automation and Coverage: SUR



FRA Strategies:

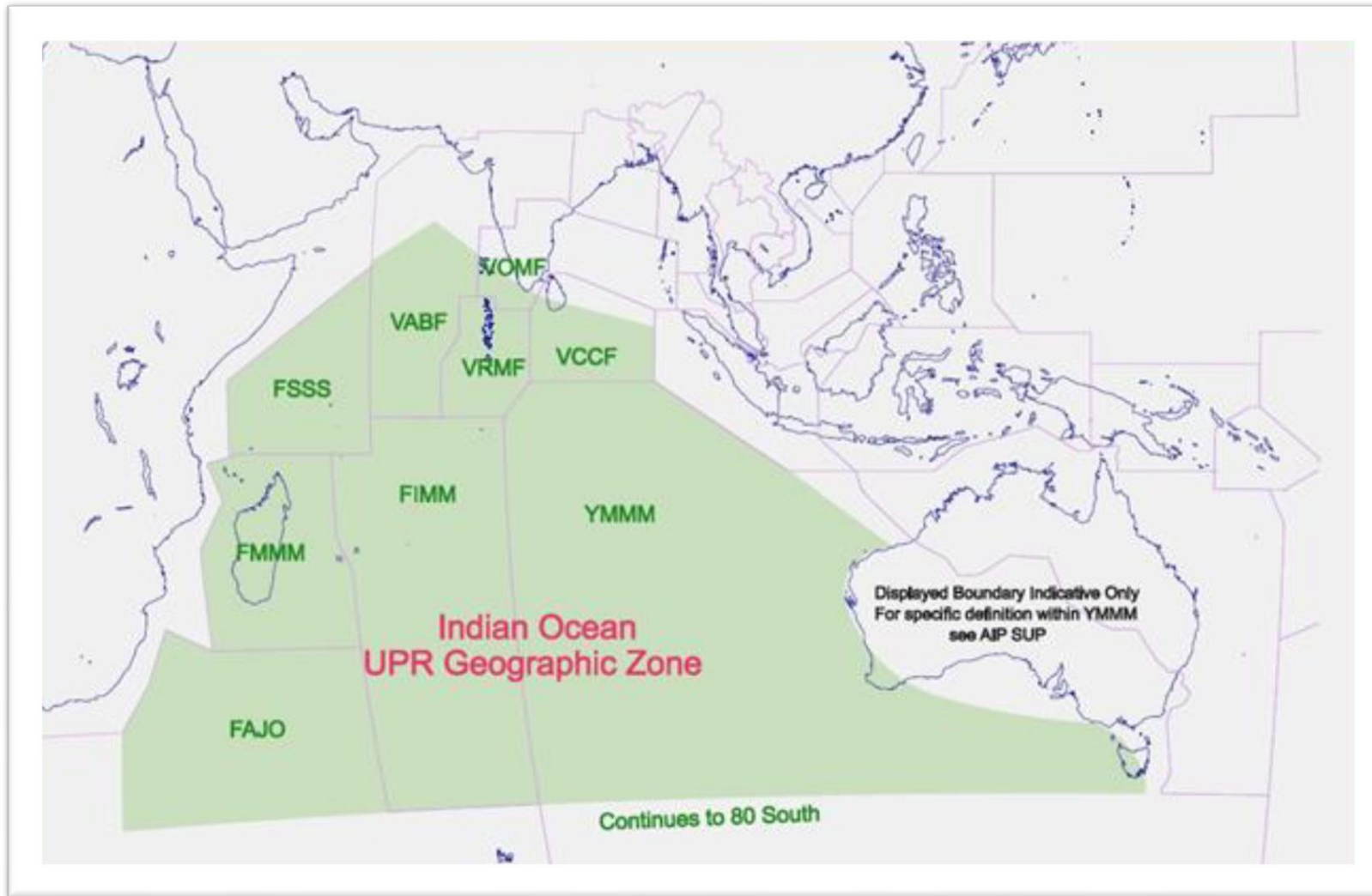
Coverage: COM

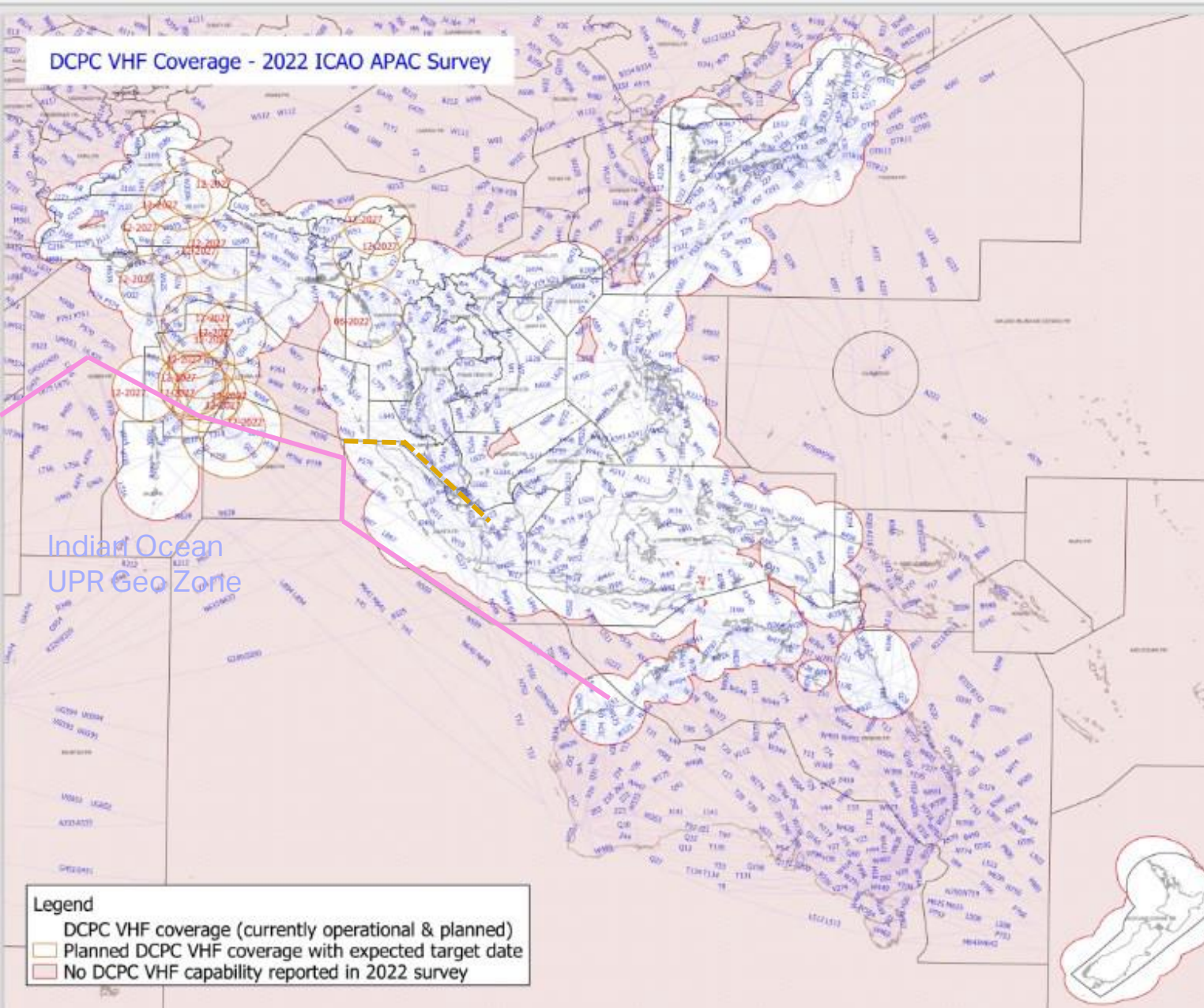
Case Study – South Asia

Upper wind patterns in Asia Pacific



UPR Geo Zone: INSPIRE, Oct 2013





FRA

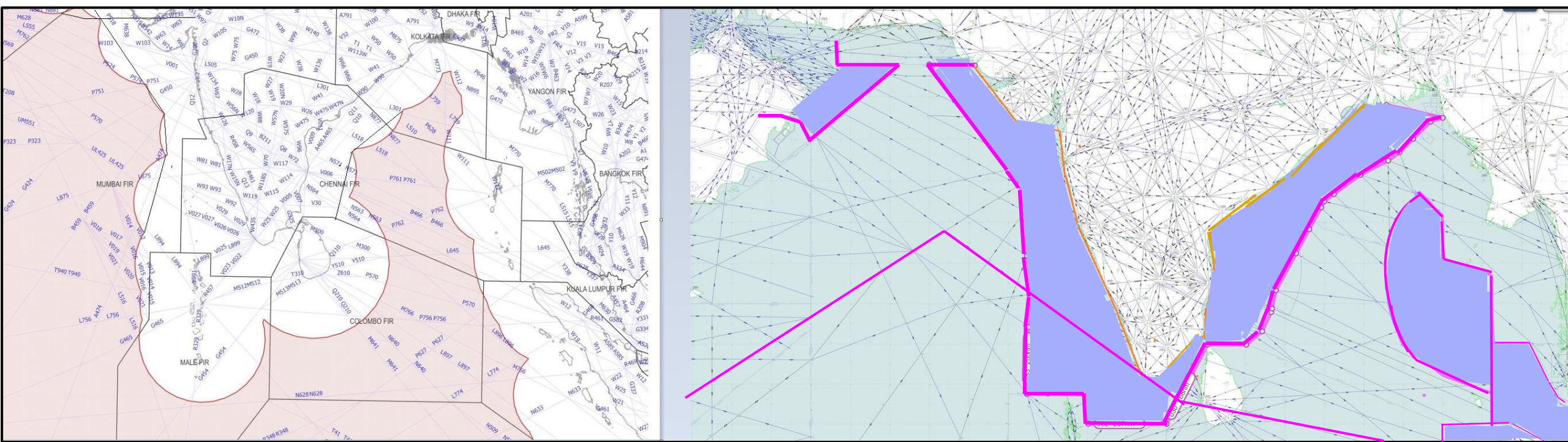
Exploring Possibilities

Example:
Oceanic Transition Airspace

- ✓ Upgrading airspace class
- ✓ Allow Changing FL
- ✓ Allow Changing over to different airways
- ✓ Collaboration with neighboring FIR

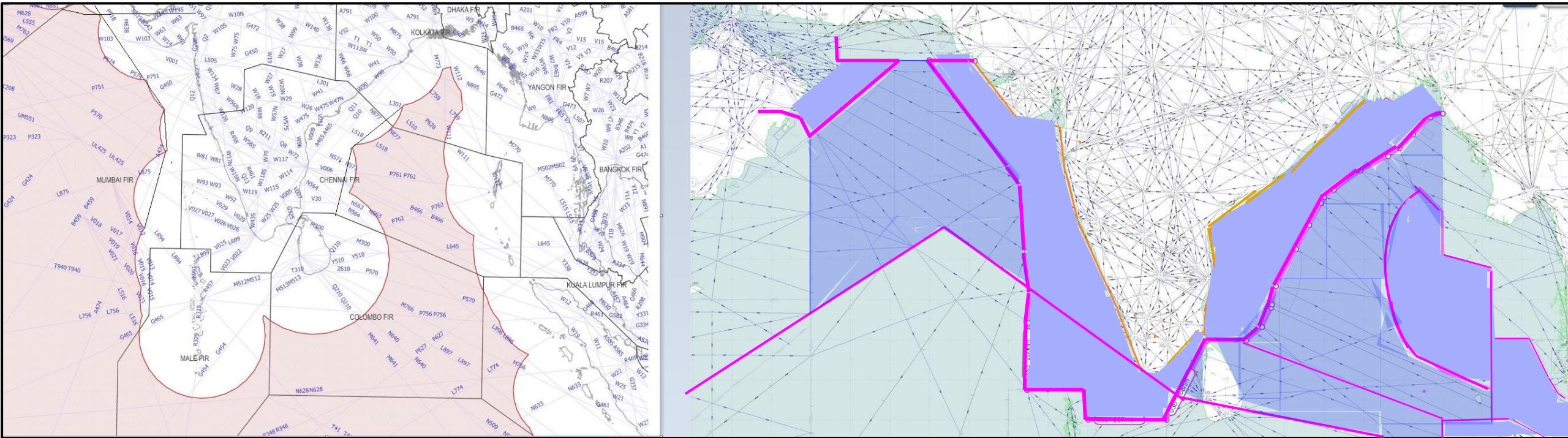
FRA Exploring Possibilities

Case Study – BoB-AS-IO: Oceanic Transition

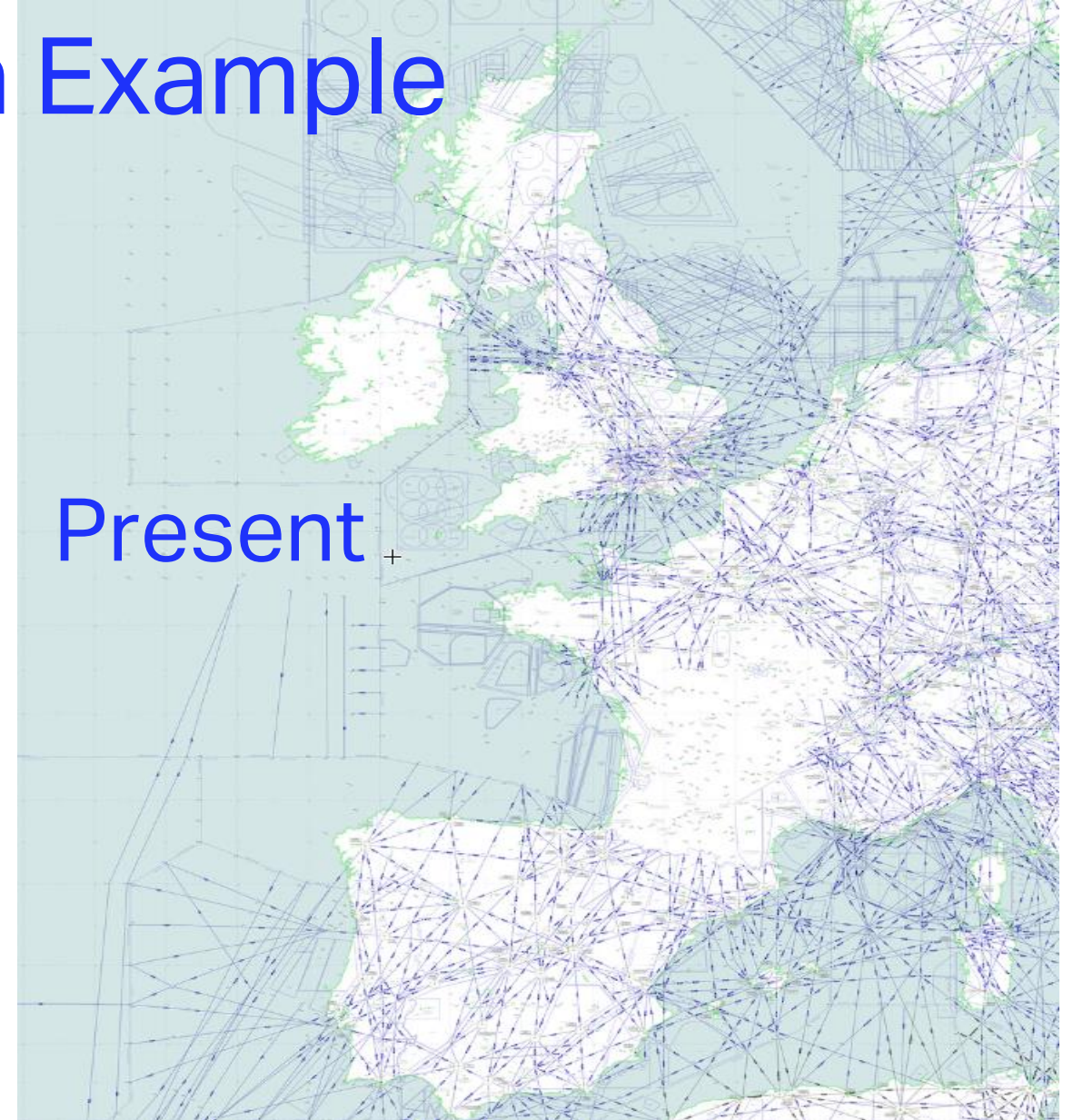
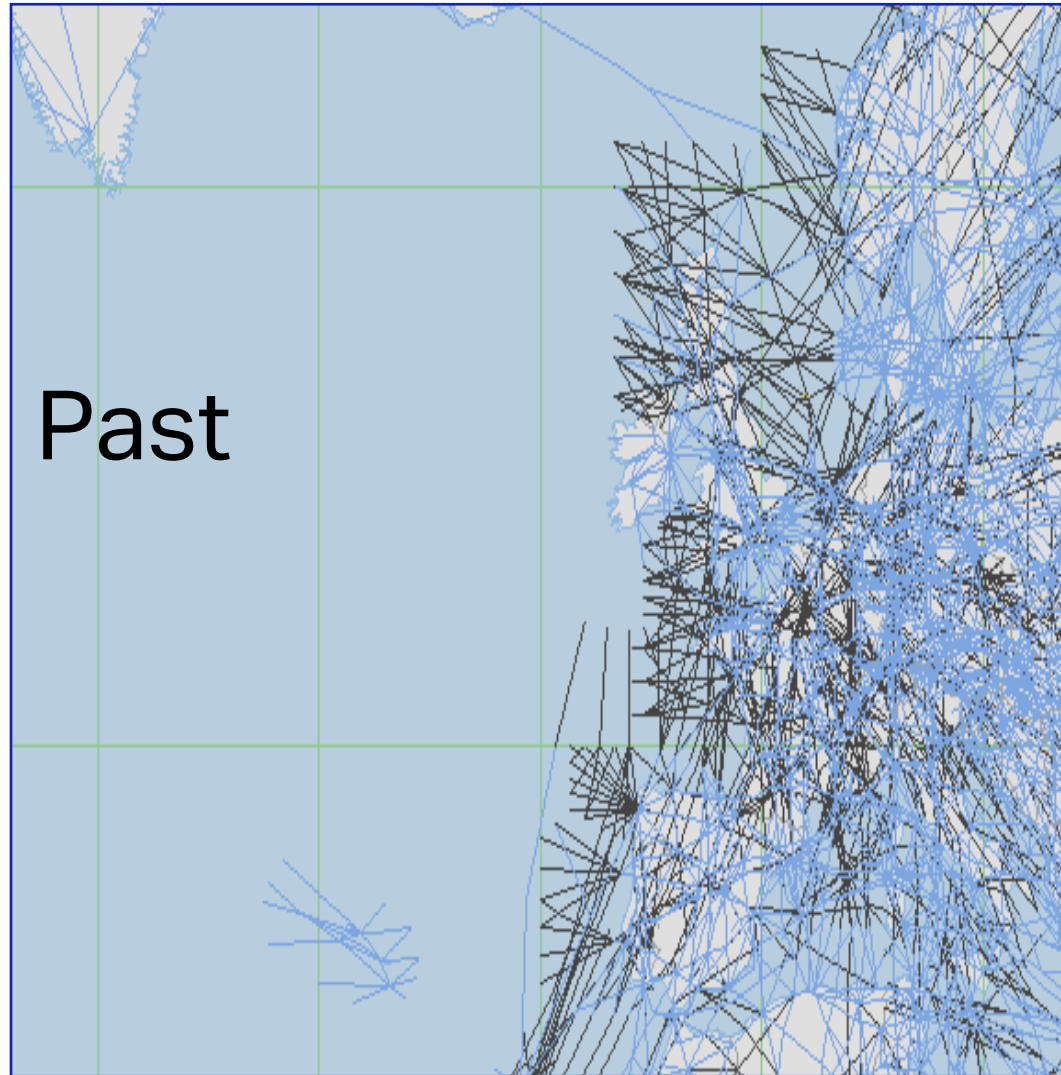


FRA Exploring Further Possibilities

Case Study – BOB-AS-IO: Oceanic



FRA Transformation Example



Operator Perspective: FRA Implementation

Summary

- Much can be done today
- Consider FRA Strategies
- Explore possibilities
 - What can be done
 - All the time or Some of the time
 - All the airspace or some of the airspace
 - All the FLs or some of the FLs
- Any saving is a benefit
- The savings are accumulative!

