



*Balancing Aircraft HKP*

*VS*

*The Risk of Collision in RVSM  
Airspace*









*Maokane Hb.  
Manala*



*MasterClass*



*Balancing Aircraft HKP*

*VS*

*The Risk of Collision in RVSM  
Airspace*



flightradar24  
LIVE AIR TRAFFIC



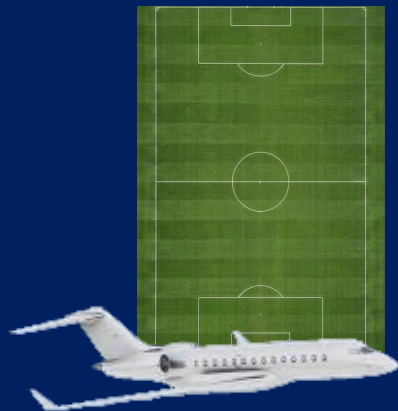
# VERTICAL



1000 Feet

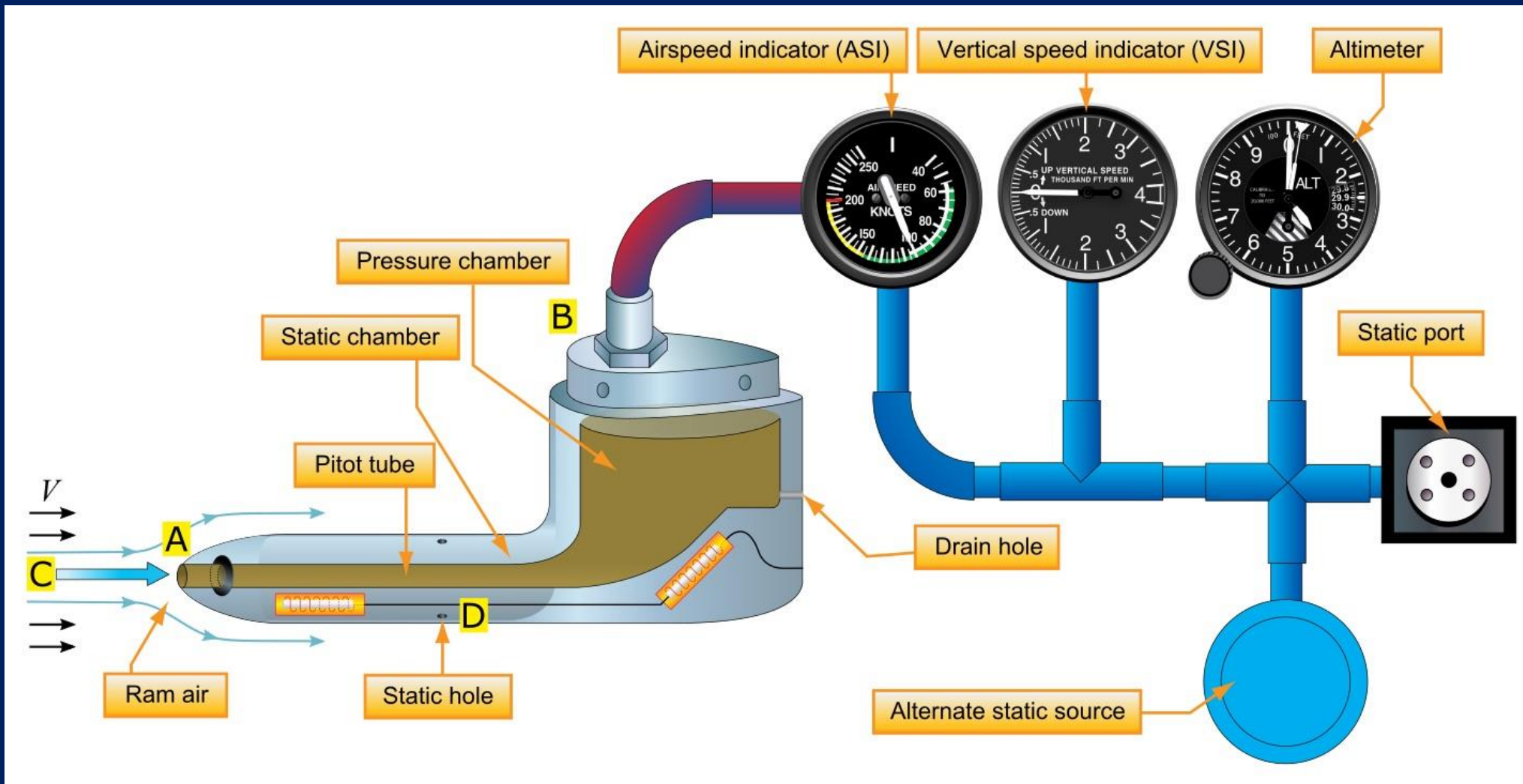








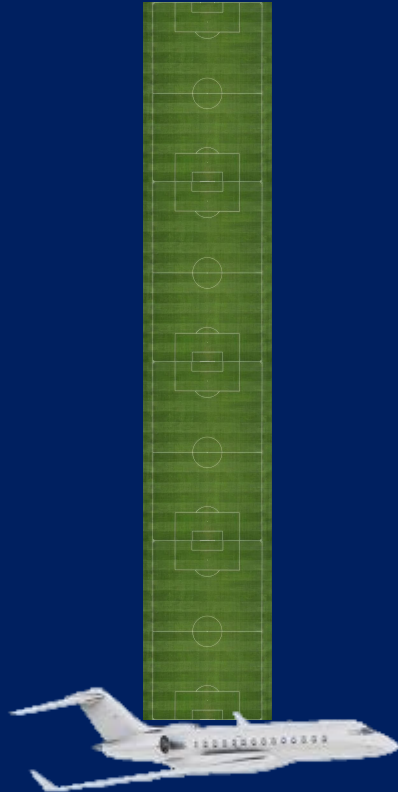


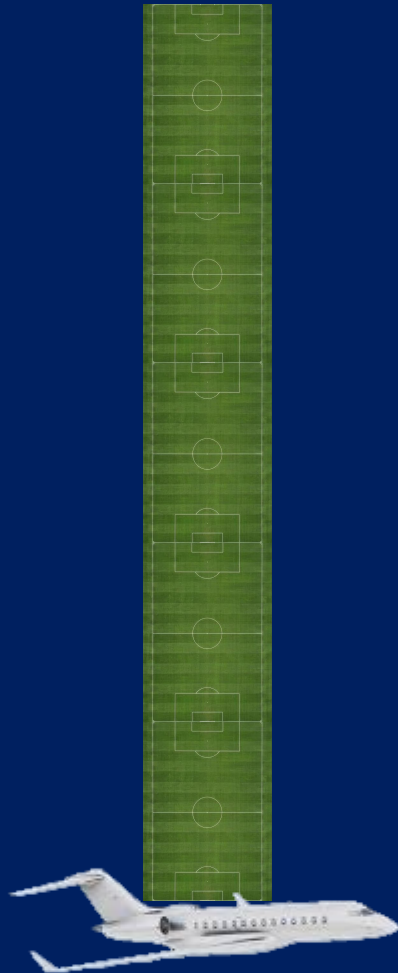


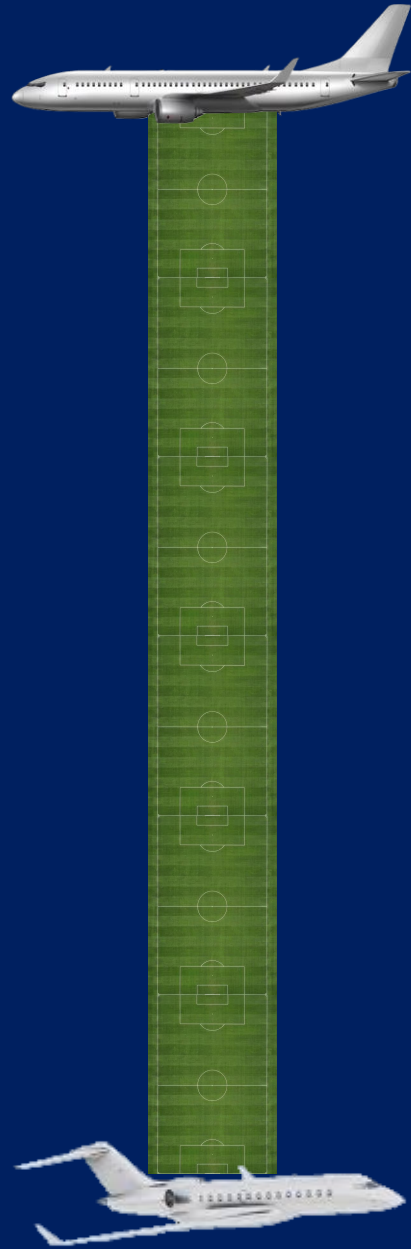








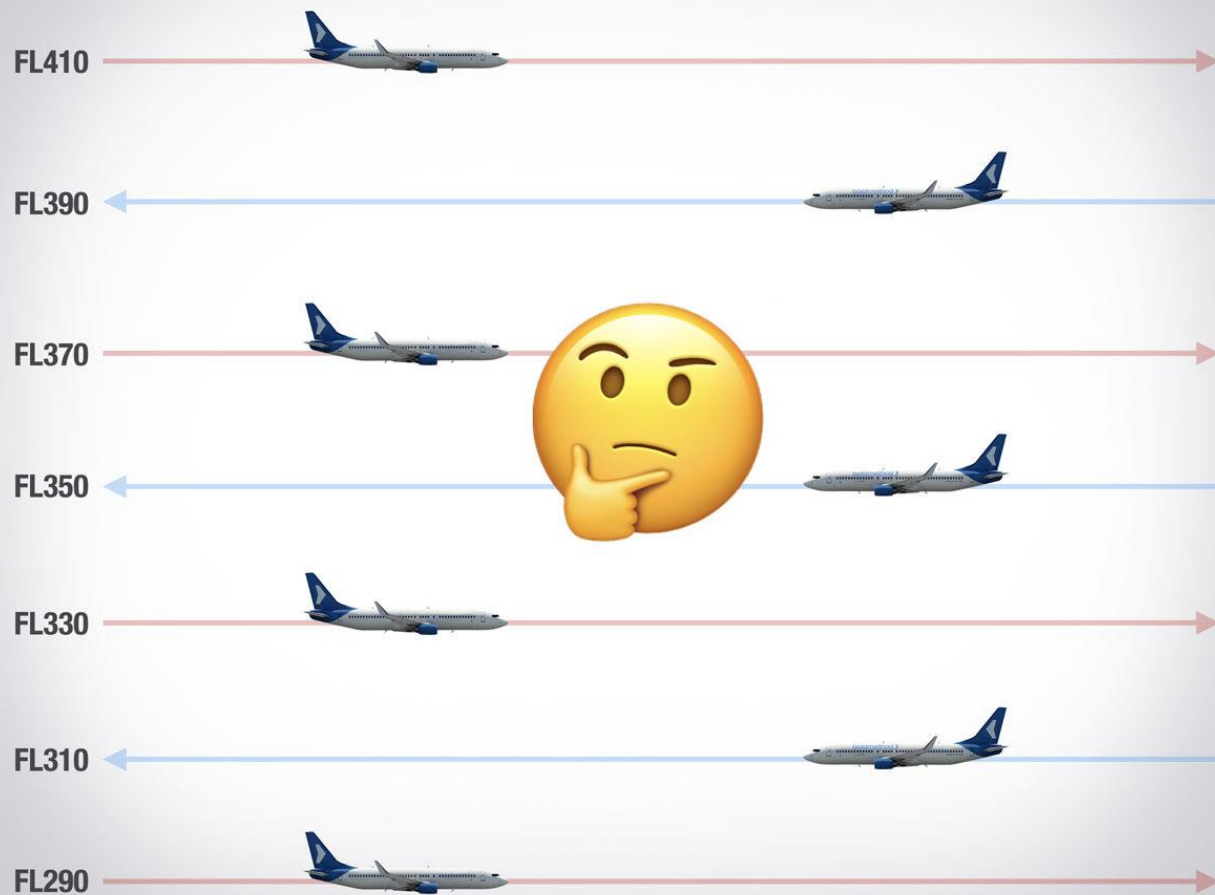






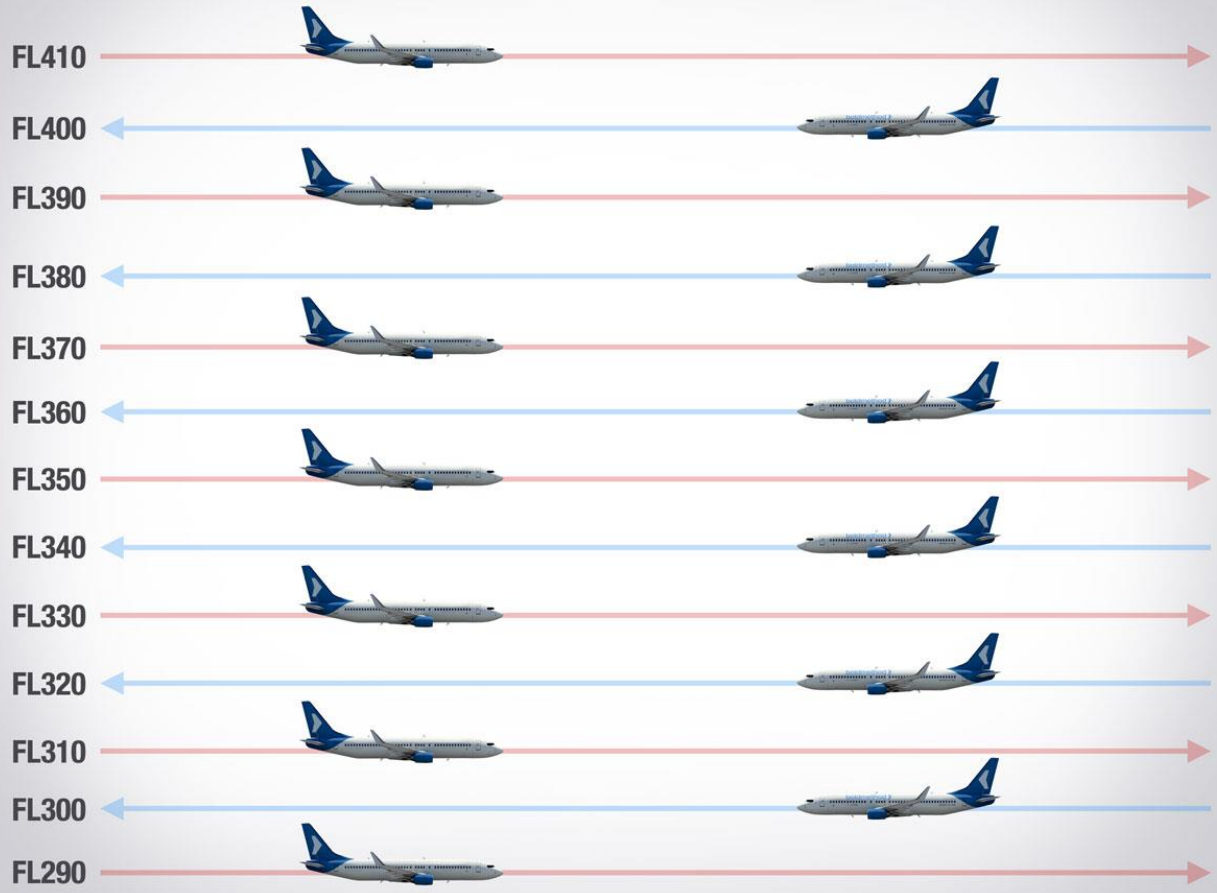


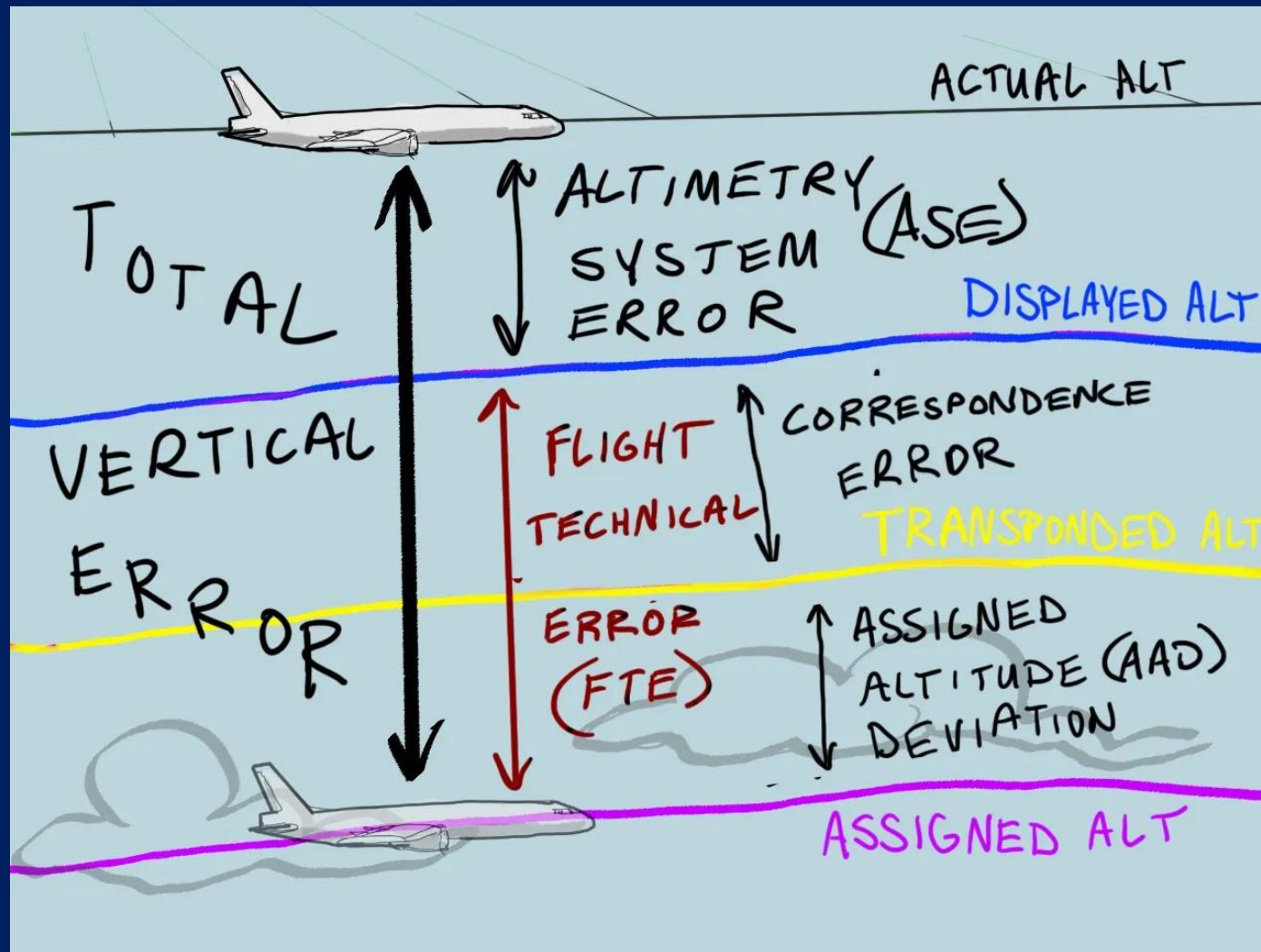
## Non-RVSM Airspace





## RVSM Airspace







Airspeed Indicator



Artificial Horizon



Altimeter



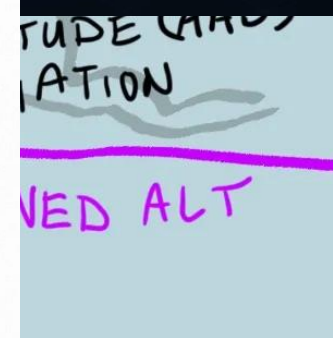
Turn & Bank Indicator

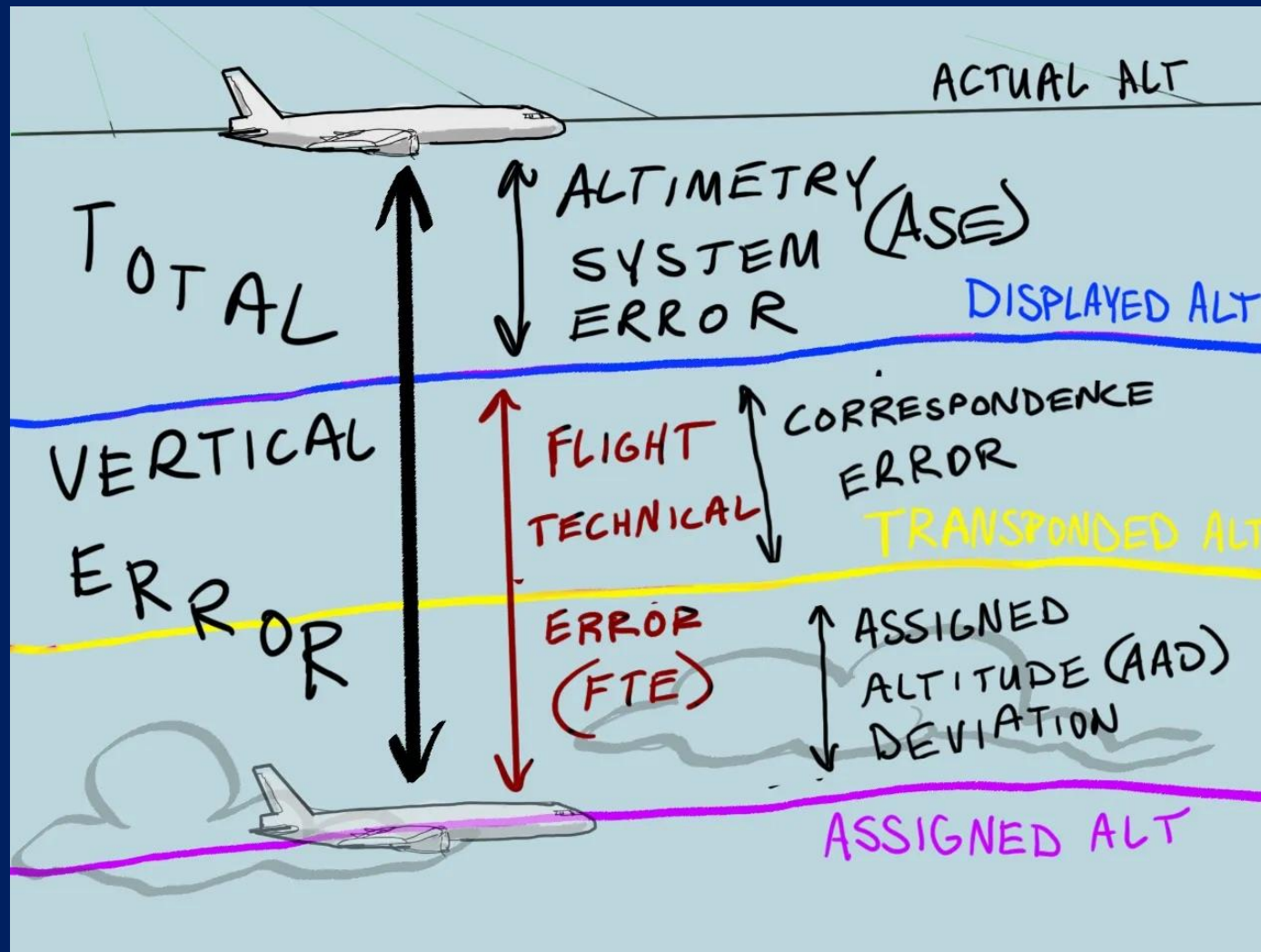


Heading Indicator

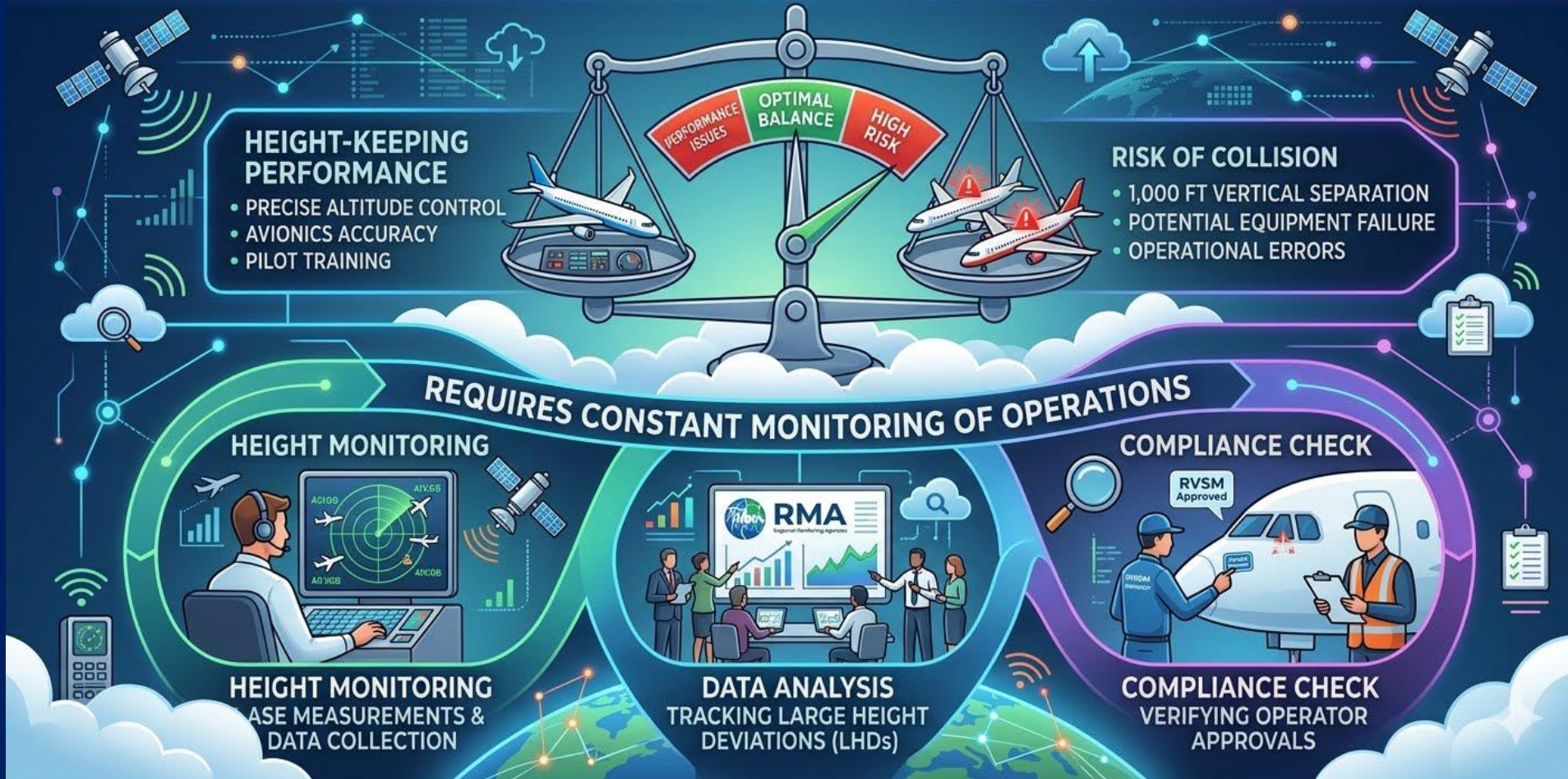


Vertical Speed Indicator



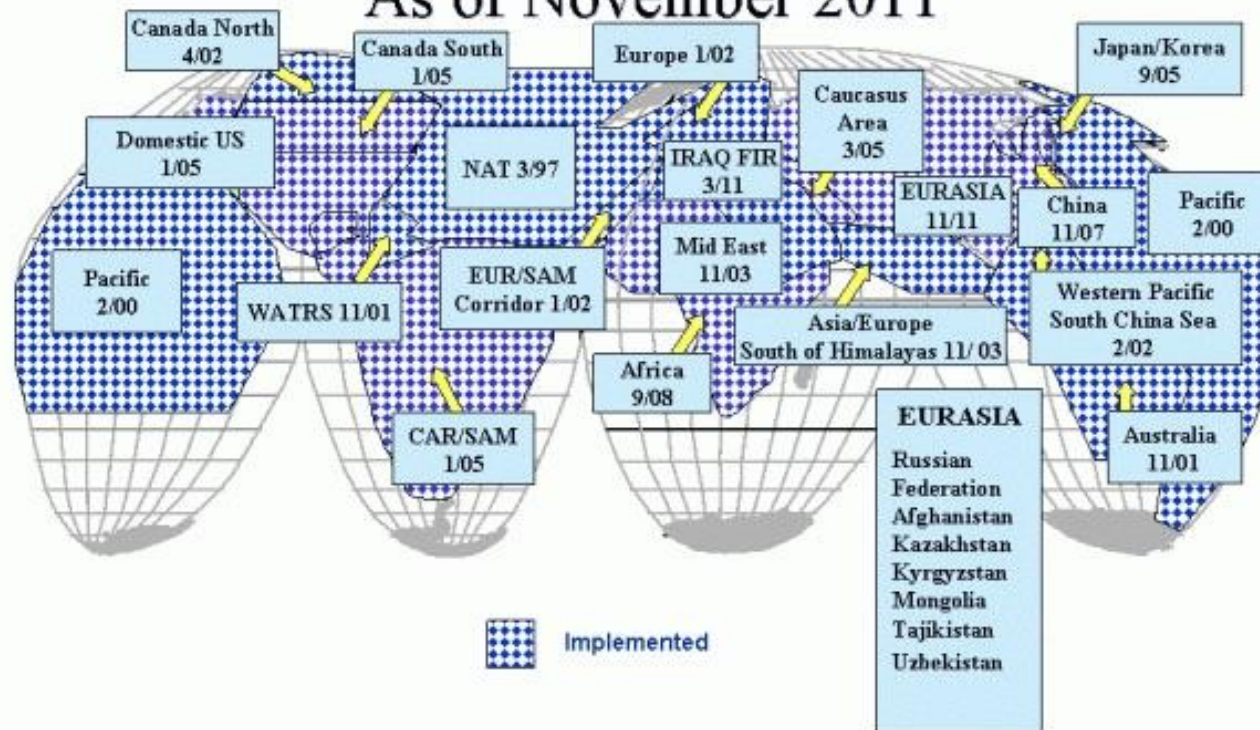


# BALANCING AIRCRAFT HEIGHT-KEEPING & COLLISION RISK IN RVSM AIRSPACE





# RVSM Worldwide - Implemented As of November 2011

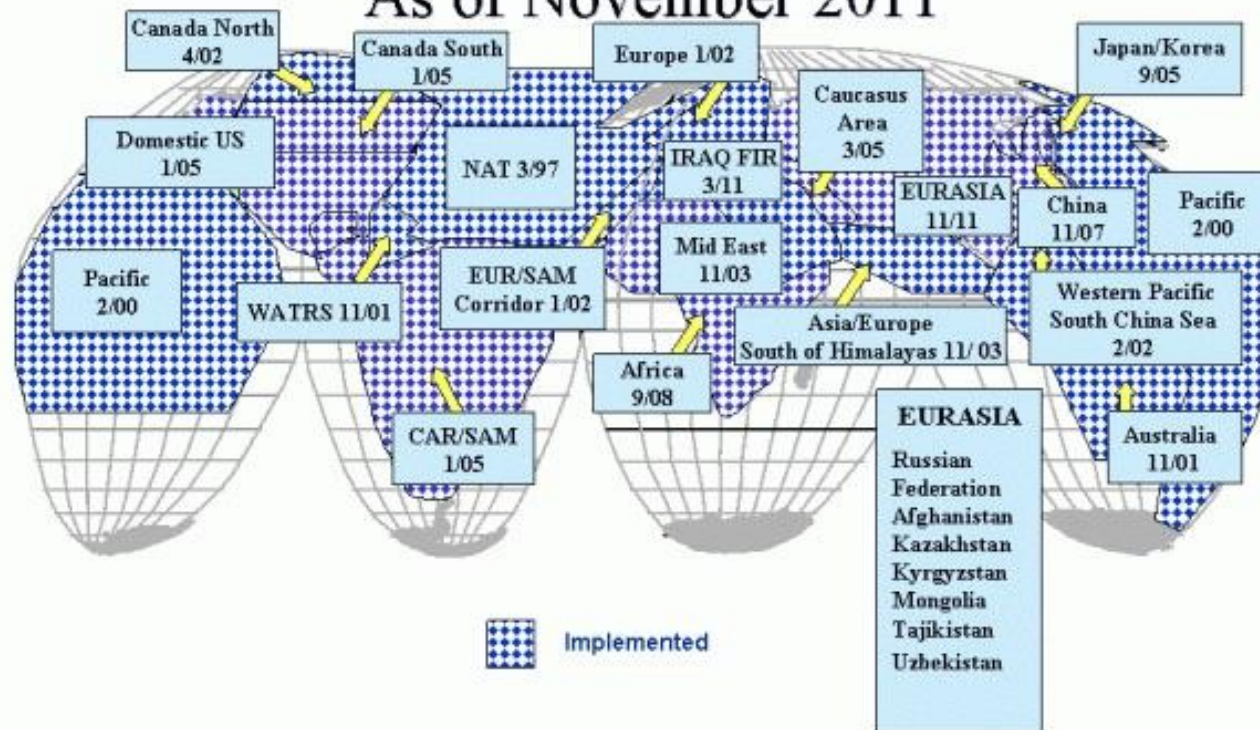


*Global RMAs*

V11-11 1.0

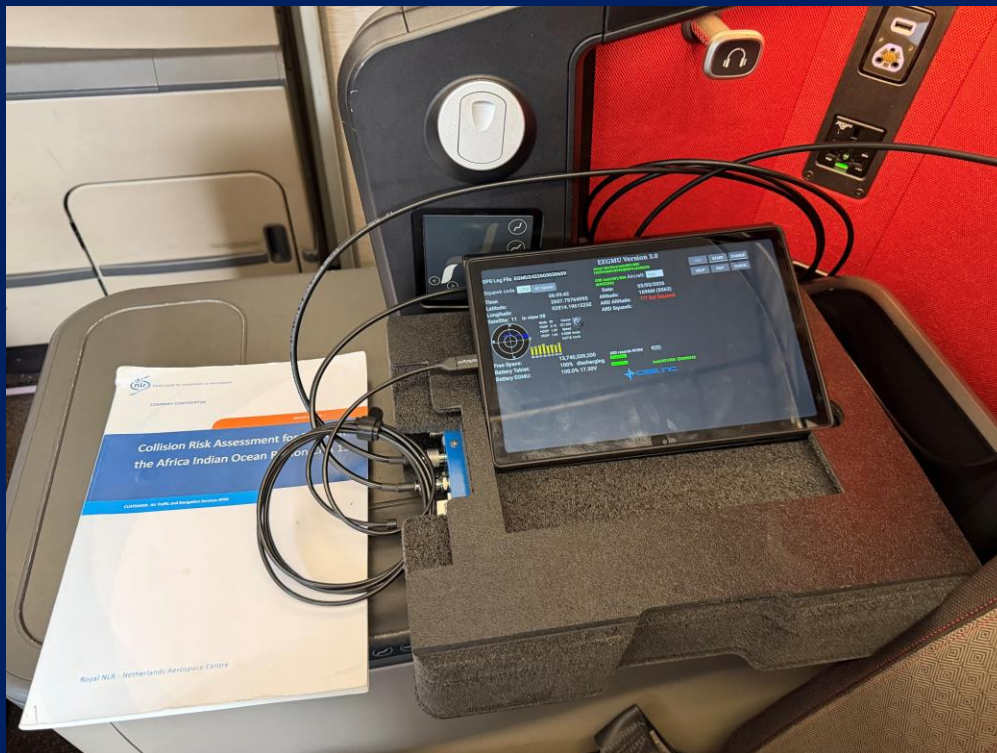


# RVSM Worldwide - Implemented As of November 2011



*Every 1000 flight hours or  
24 months*

V11-11 1.0



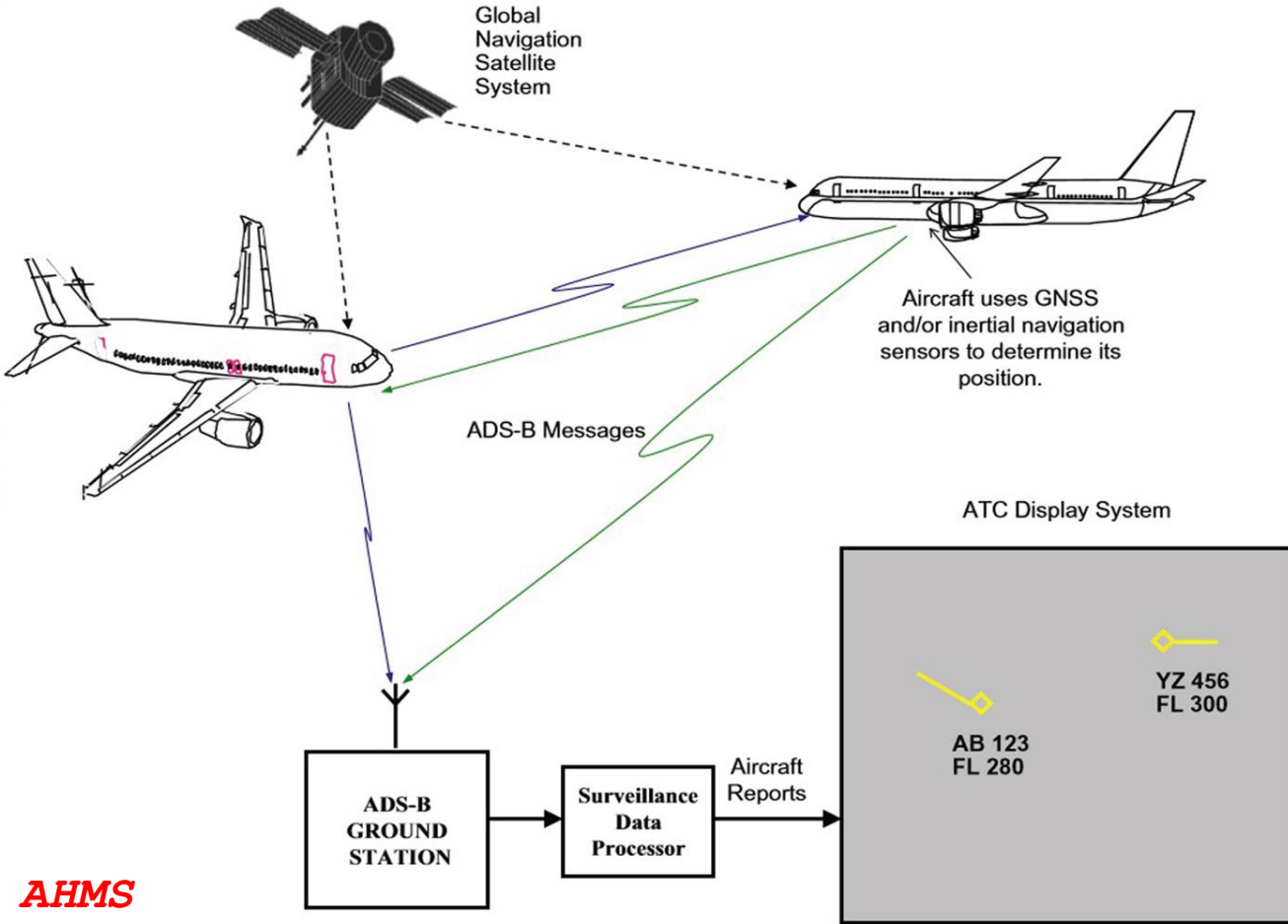
lwide -





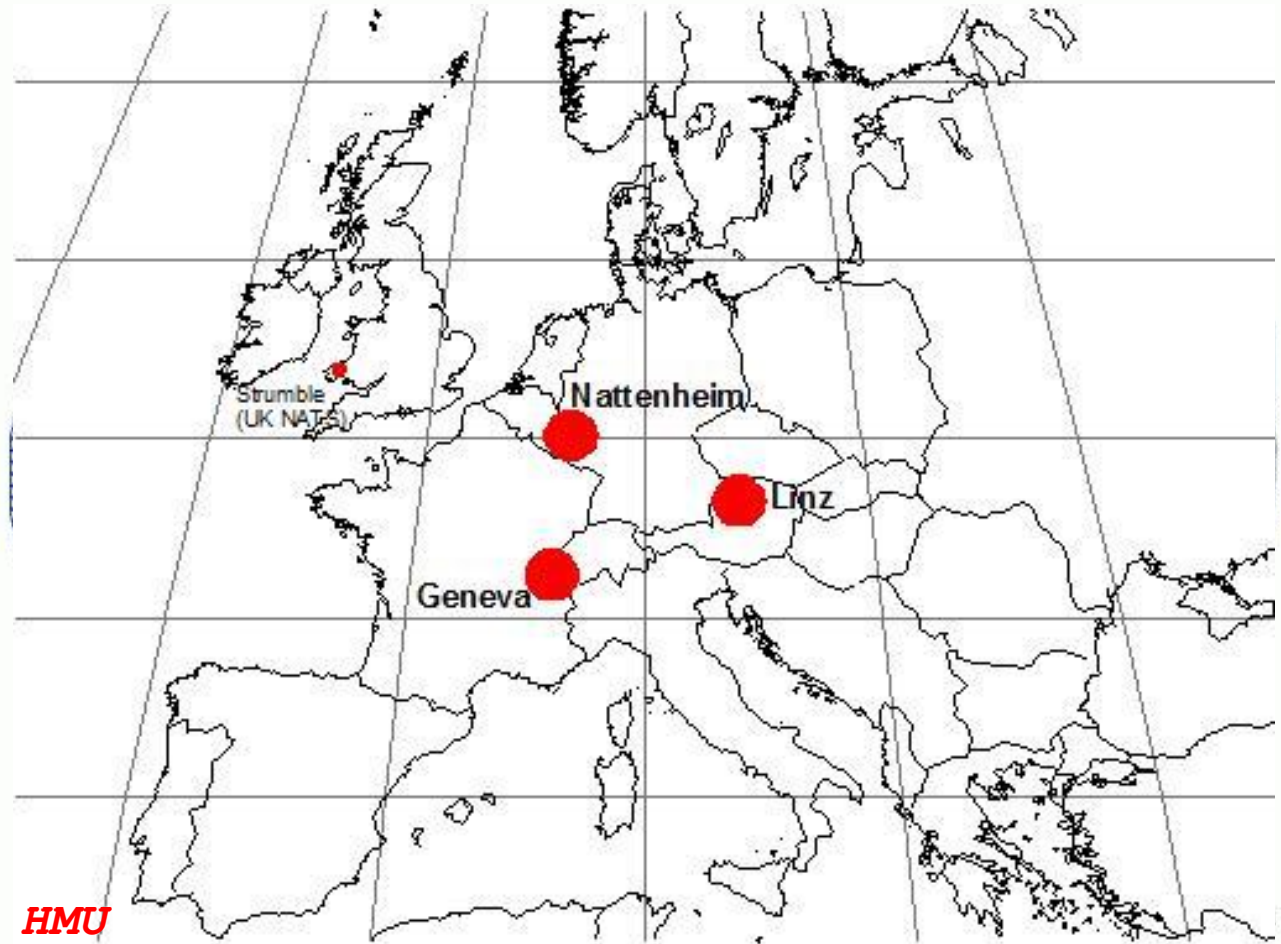
# RVSM Worldwide -



**AHMS**



# RVSM Worldwide -

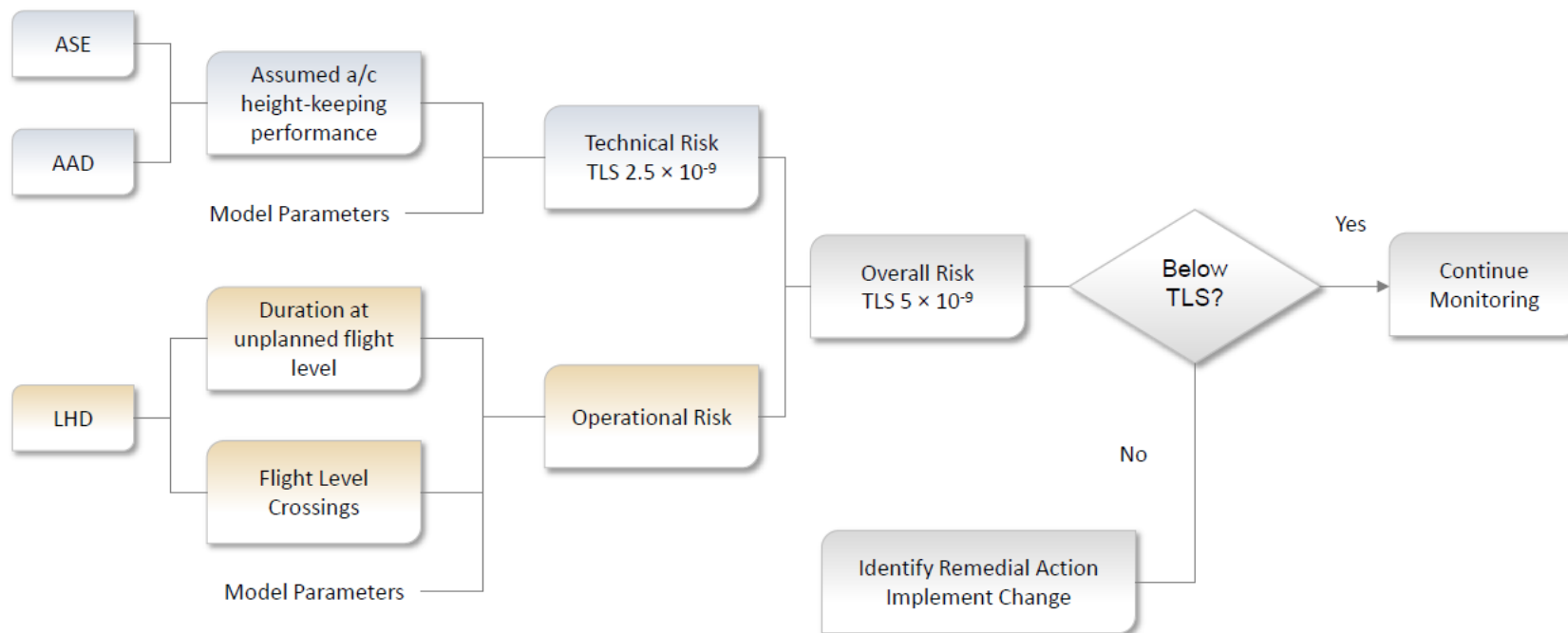


**HMU**

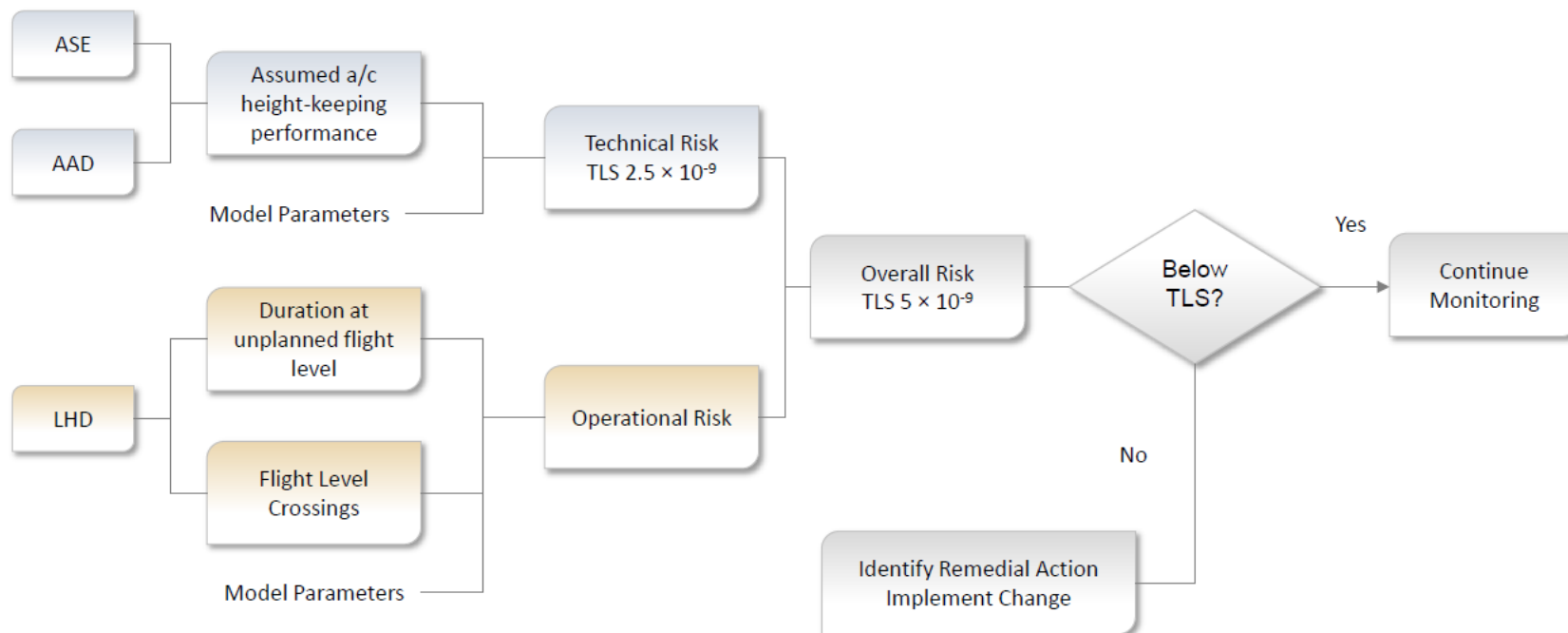
1.0



## Vertical Collision Risk



## Vertical Collision Risk

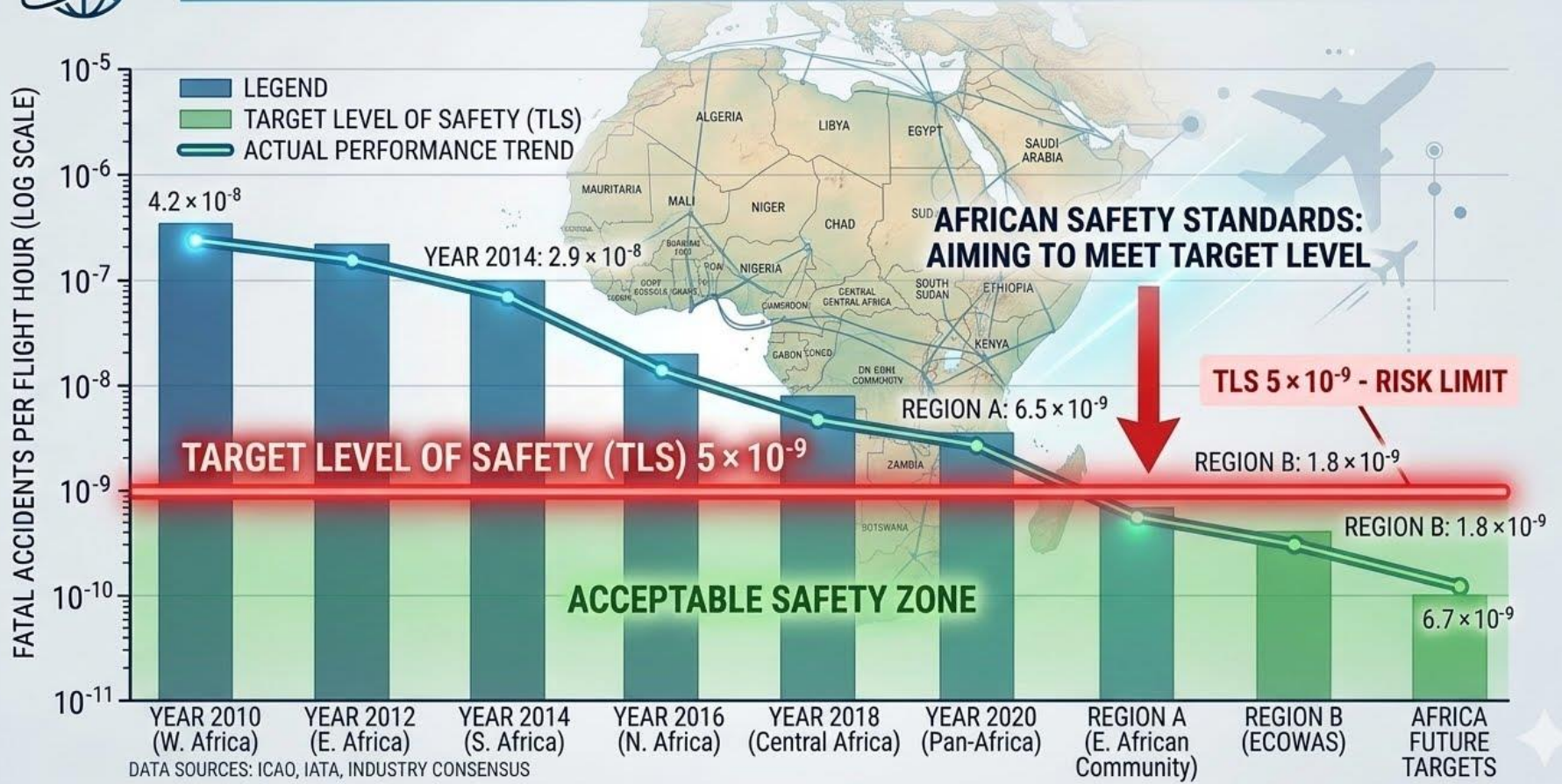


***FLYING IS A RISK!!!***



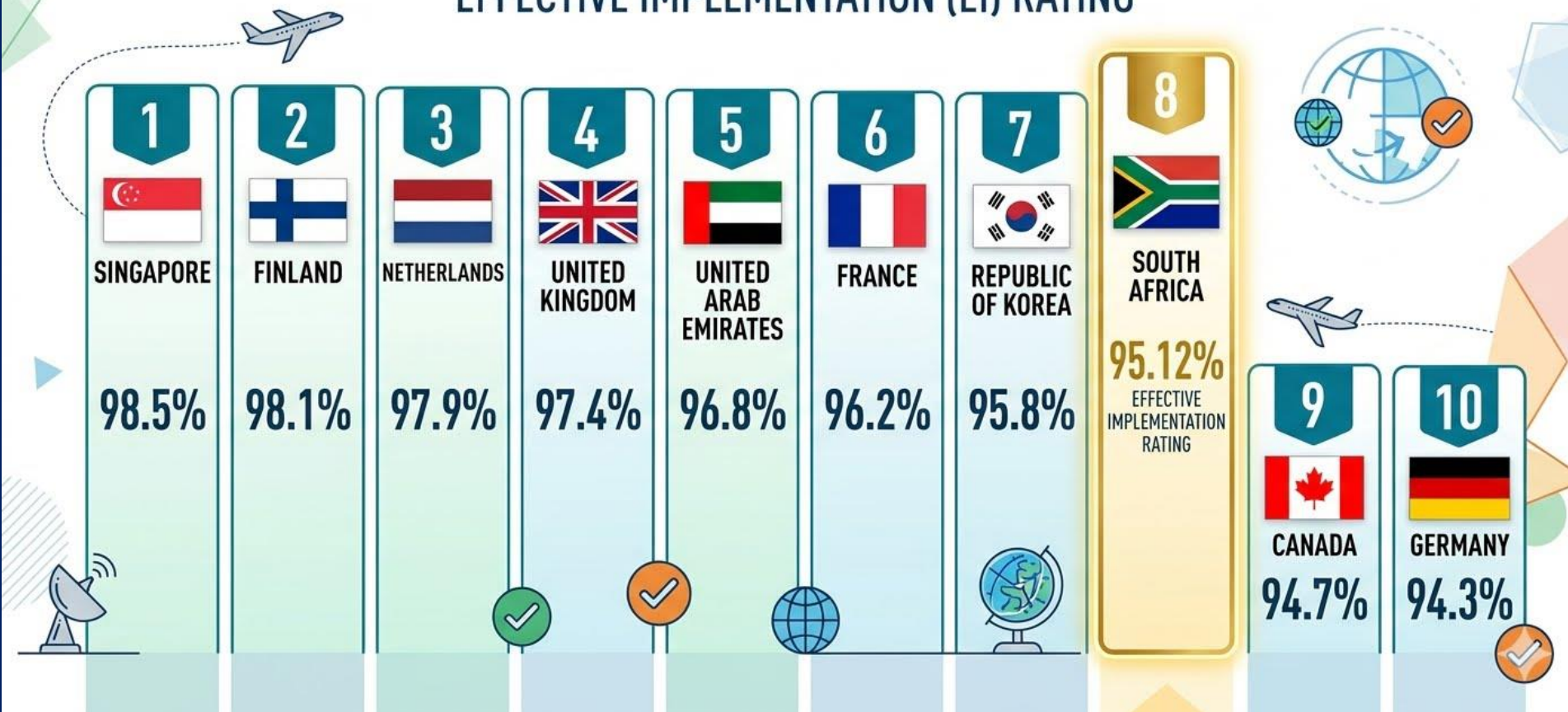


# AFRICAN AVIATION SAFETY PERFORMANCE TRENDS

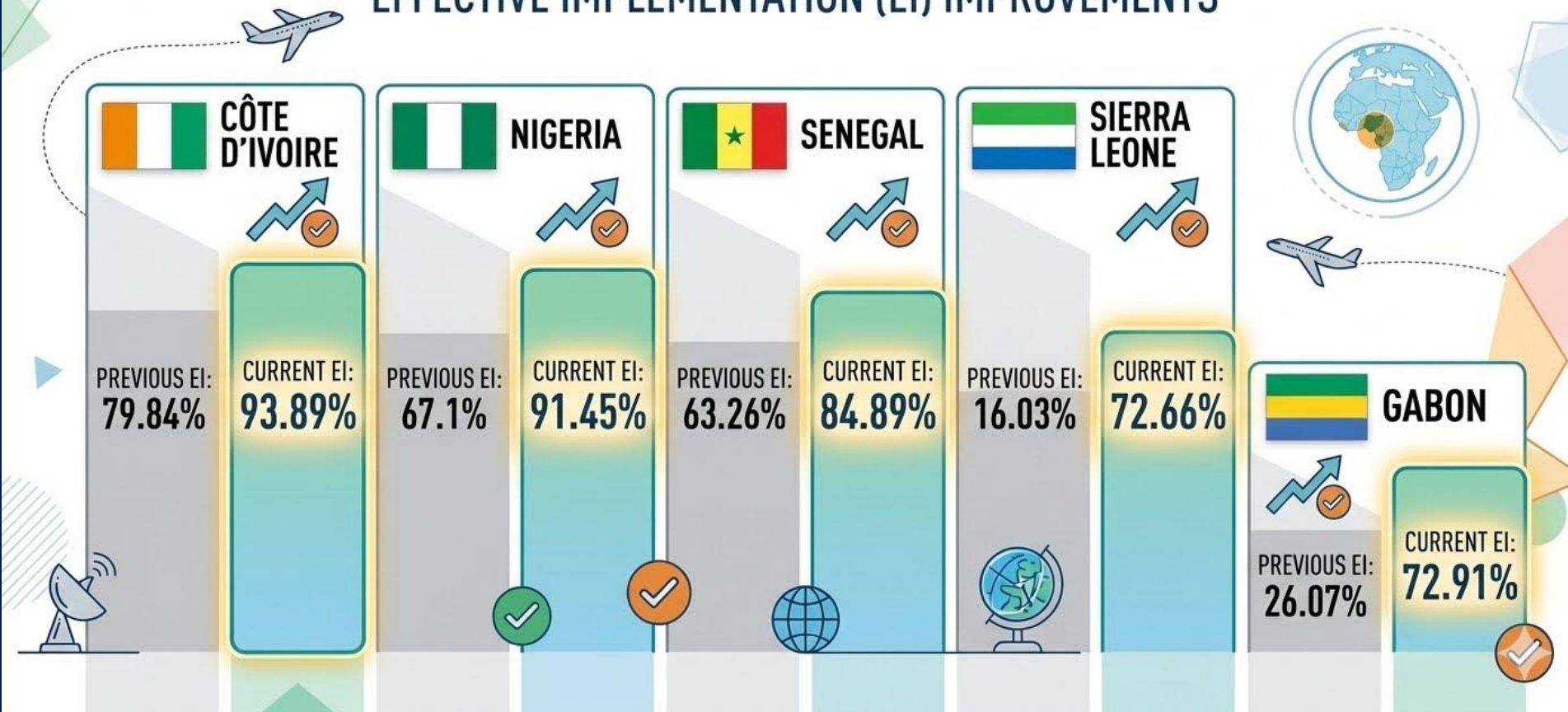


# ICAO GLOBAL AVIATION SAFETY AUDIT: TOP 10 COUNTRIES

## EFFECTIVE IMPLEMENTATION (EI) RATING



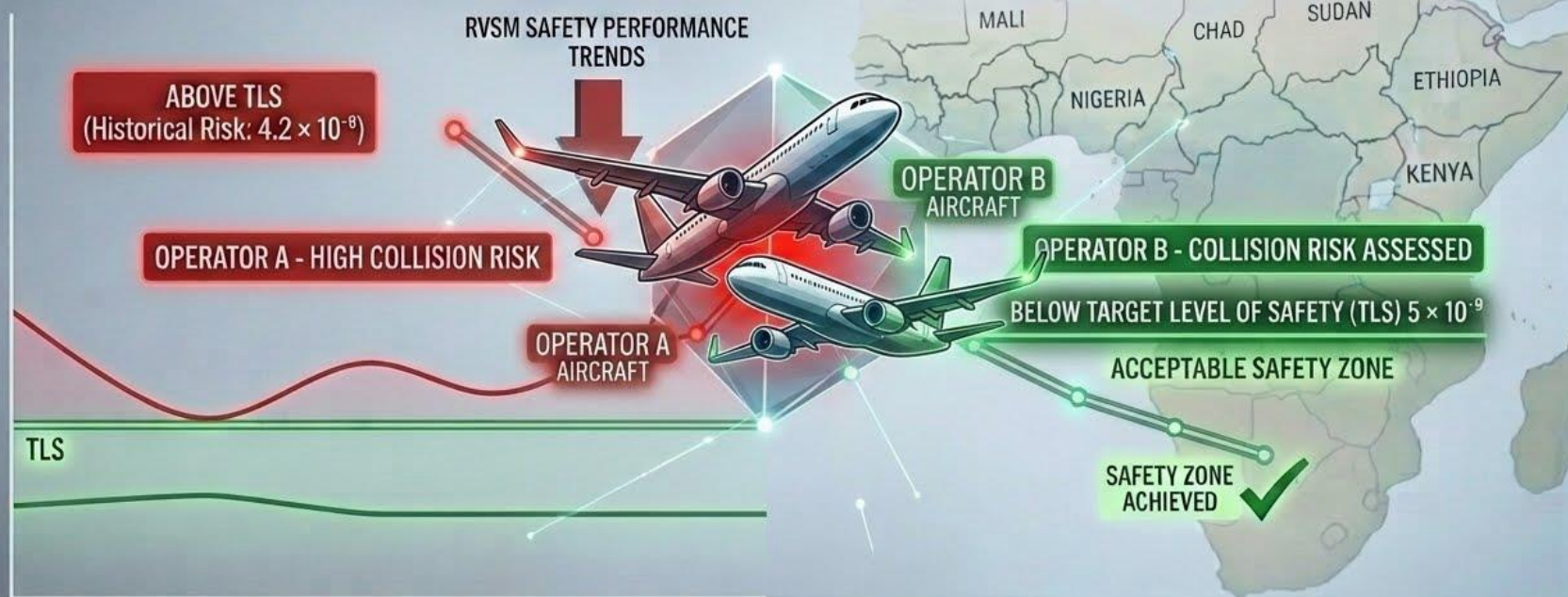
# ICAO USOAP SAFETY AUDIT RESULTS: COMPARISON OF EFFECTIVE IMPLEMENTATION (EI) IMPROVEMENTS





# "WE ARE NOT SAFE UNTIL EVERYONE IS SAFE"

Meaning every aircraft operator in RVSM airspace must keep the collision risk assessment below the Target Level of Safety





**ARMA**

**Thank  
You!**

**SCAN ME:**



**Contact Details:**

- [Afirma@atns.co.za](mailto:Afirma@atns.co.za)
- <https://www.arma.africa>
- +27 11 928 6506
- +27 83 520 9579

