



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

Thirteenth North American, Central American and Caribbean Directors of Civil Aviation Meeting
(NACC/DCA/13)

P/11 Agenda Item 5

**Navigation Services (ANS) Implementation Updates: Regional
Progress on Airspace Optimization, ATFM, and Environmental
Impact through FRA Initiatives**

Presented by the Secretariat

CIIFRA Initiative

Harmonizing Free Route Airspace in the NAM/CAR Regions

Environmental

Efficiency Gains

FRA Route Examples:

CO₂ & Economic Impact

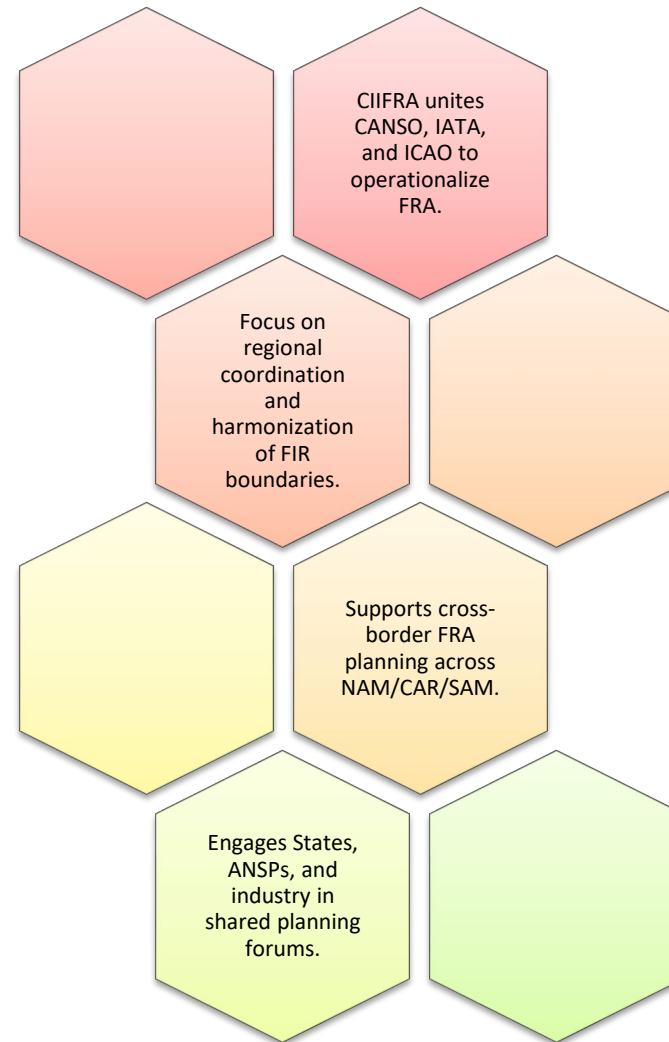
Mexico's FRA Trial

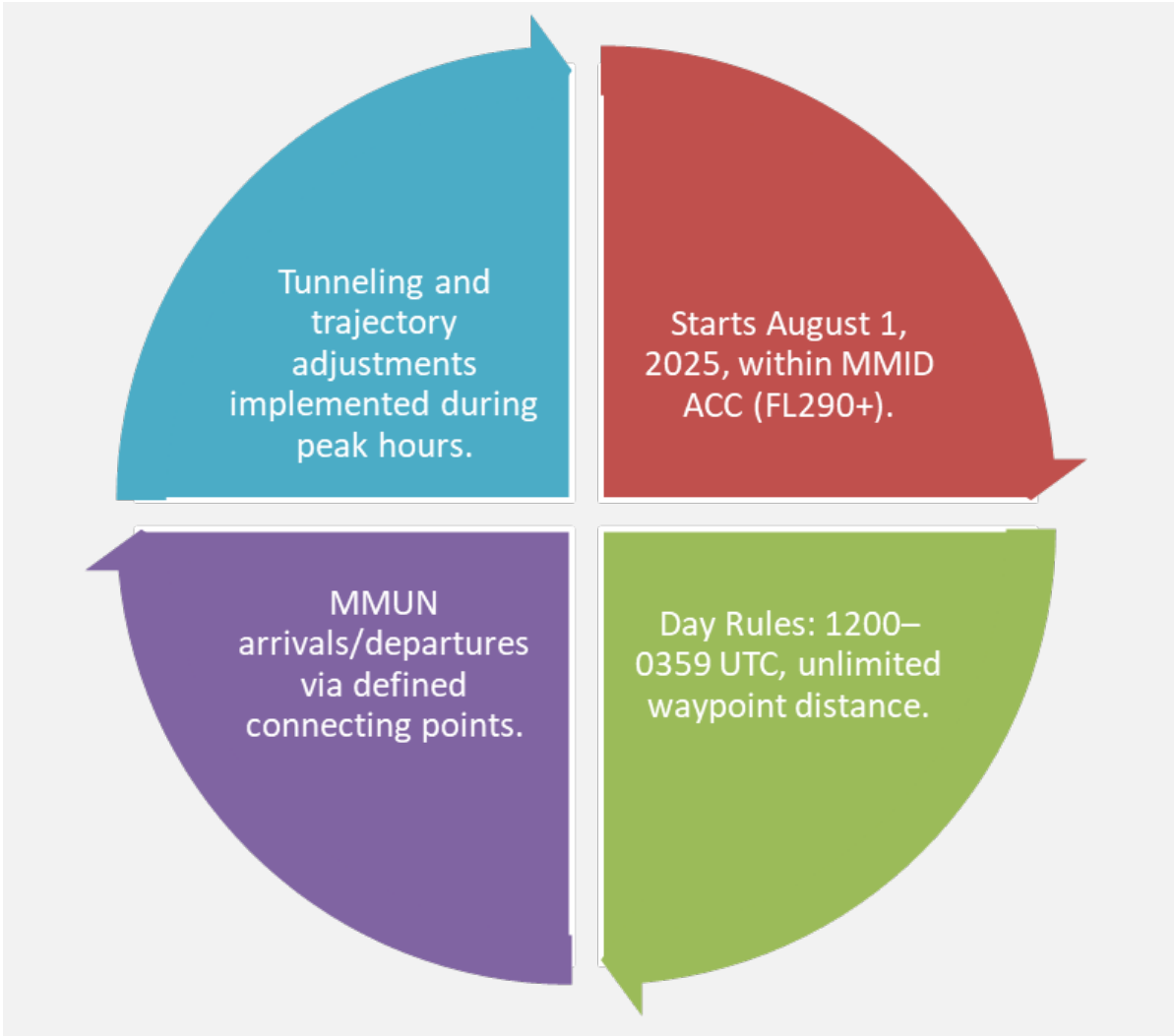
MMID ACC Launch (Aug 2025)

Mérida FIR

Strategic Alignment & Forward Action

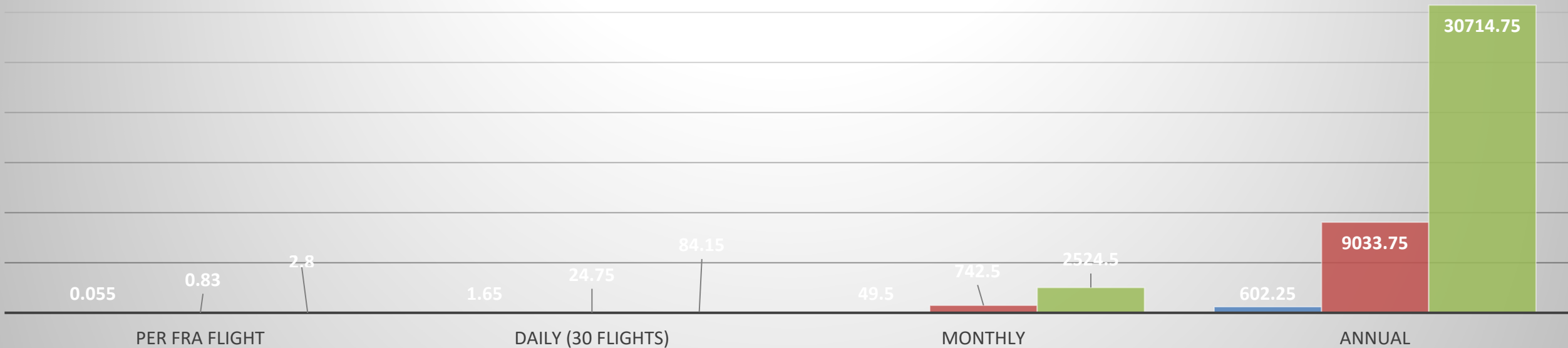
CIIFRA Initiative – Harmonizing Free Route Airspace in the NAM/CAR Regions





Mexico’s FRA Trial – MMID ACC Launch (Aug 2025)

CO₂ Savings and Economic Impact



Environmental

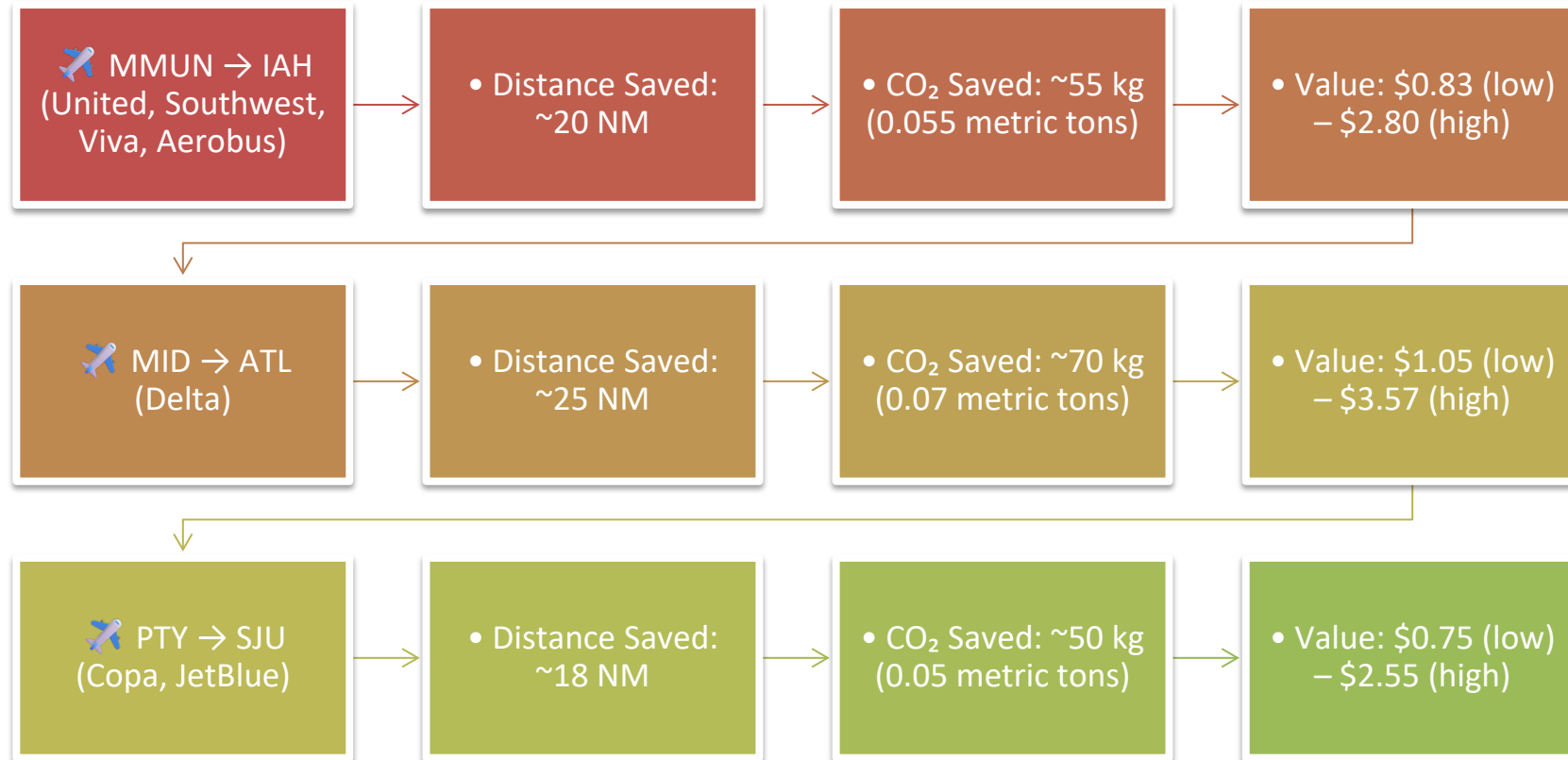
Efficiency Gains

- FRA reduces fuel burn and track mileage.
- Average savings: 15 NM per aircraft → 55 kg CO₂ reduction per FRA flight.
- 30 FRA flights daily = 1.65 metric tons/day, or 50 metric tons/month.
- Environmental value: \$750–\$2,550 per month depending on CO₂ valuation.
- Annualized impact: \$9,000–\$30,700 in CO₂ benefit avoided.
- Supports ICAO LTAG goals and aligns with regional KPIs.

Strategic Alignment & Forward Action



FRA Route Examples: CO₂ & Economic Impact





Thank You!