

# FORUM25 - Airspace Modernisation & Carbon Strategies in Aviation

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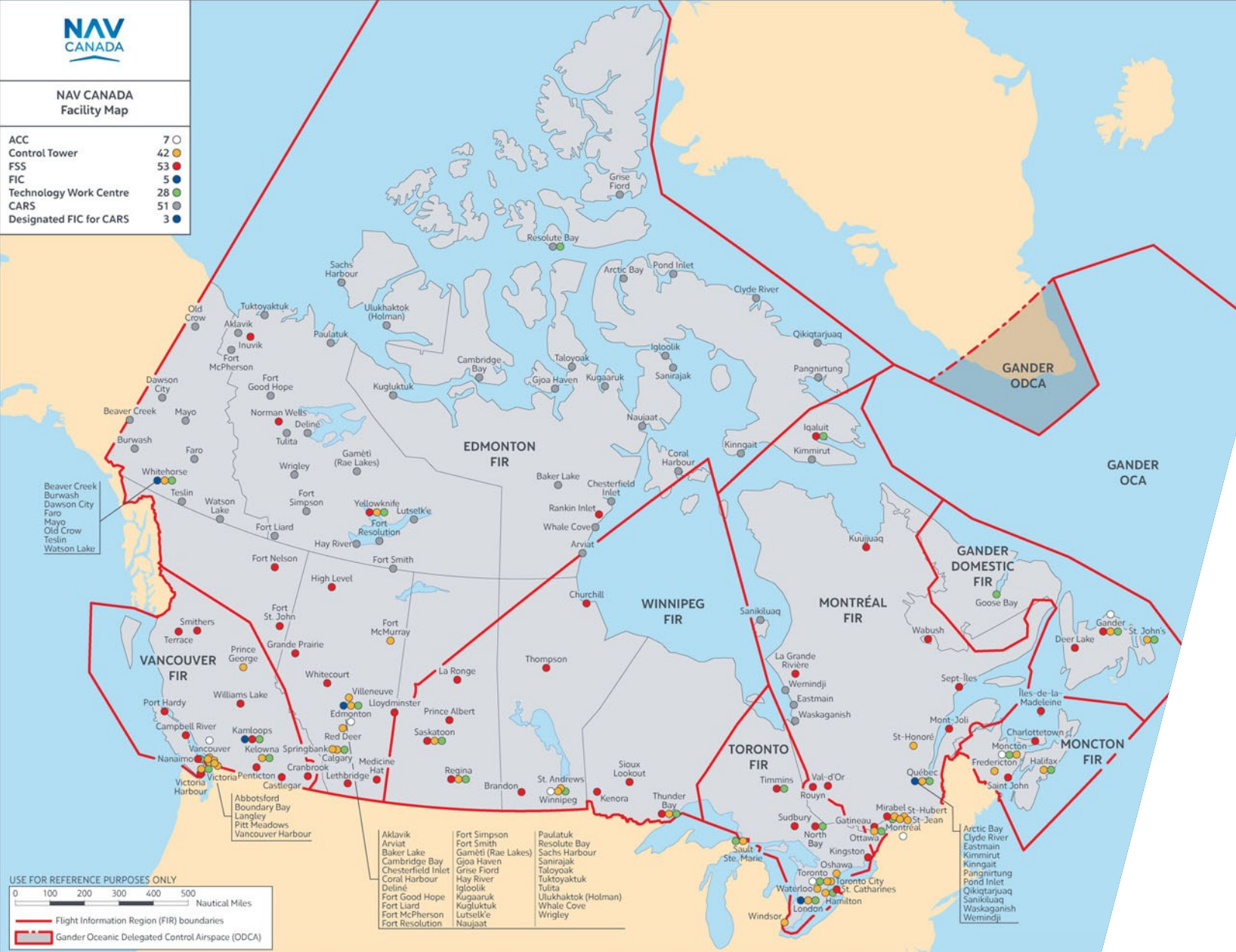
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|                         |    |   |
|-------------------------|----|---|
| ACC                     | 7  | ○ |
| Control Tower           | 42 | ● |
| FSS                     | 53 | ● |
| FIC                     | 5  | ● |
| Technology Work Centre  | 28 | ● |
| CARS                    | 51 | ● |
| Designated FIC for CARS | 3  | ● |



## Staffed sites across Canada

7

## Area Control Centres



42

## Control Towers



53

## Flight Service Stations



5

## Flight Information Centres



28

## Technology Work Centres



51

## Community Aerodrome Radio Stations



Effective Date: February 20, 2025



# Trajectory-based Operations (TBO)

Building air traffic services that take into account the full picture of a flight, from takeoff to landing.

- Preferred routes for airlines
- Reduced fuel use and greenhouse gas emissions
- Minimized enroute delays
- Increase predictability
- Integration of new entrants through RPAS traffic management (RTM)

# TBO Sustainability Measures



## Environmental

- Aircraft Emissions Reductions
- Enabling Potential Future Aircraft Climate Mitigations
  - Non-CO<sub>2</sub> Impacts of Aviation



## Social

- Reduced Community Noise
- Resilience in the Economic Accessibility of Air Travel



## Economic

- Organizational Cost Effectiveness
- Economic stability and viability in our service charges

# Airspace Modernization (ASM)

Leveraging technology to re-think our airspace holistically, while accounting for our customers' desired routes.

- Continued prioritization of safety
- Preferred routes for airlines
- More seamless interaction with air traffic services
- Opportunity to leverage the full capabilities of fleet
- Effective integration of new entrants
- Enablement of trajectory-based operations



# Emphasis on alignment, collaboration and partnerships

- Understand the role of the ANSP as an enabler of airspace predictability, efficiency and sustainability
  - Trajectory optimization and airspace modernization to enable airspace users to fly optimal flight paths and minimize environmental impact
- Industry Collaboration
  - Partner with industry stakeholders via technical working groups to advance performance analytics and standardize measurement of operational performance
  - Ensure relevant performance metrics are compliant and aligned with the latest operational landscape
  - Defining the role of the ANSP moving forward. **How will our participation change as the science evolves?**

# Thank you

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