### ΝΛΥ СΛΝΛΟΛ

SERVING A WORLD IN MOTION





**NAV CANADA** 

**GACS** 



#### NAV CANADA SERVING A WORLD IN MOTION



- Today's Existing Challenges
- Operations Road Map for Enhanced Automation
  - Performance Based Navigation
    - Satellite Based ADS-B Status Update





## Main Challenges

- Make a safe system safer
- Aligning ATM technology with Airline Business needs
- ANSP coordination Management of multiple point-to-point interfaces
- Aircraft Tracking
- CDM
- Traffic Management







## Operational Road Map Objective

- To develop and deploy future ATM technology that:
  - features technology with a robust, flexible system design;
  - ensures the maintenance of Company-wide technology standards;
  - incorporates safety; user efficiency; and a user friendly, intuitive design;
  - offers technology to enhance service delivery, and
  - facilitates future industry-wide and NAV CANADA specific initiatives.



### Operational Road Map Direction

- Context Sensitive Role-based Displays
- Single Interface on Modern Common Platform
- Common and Authoritative Data Source
- Enhanced Safety Nets
- System-wide CDM Capabilities
- Enhanced Playback Capabilities
- Robust Back-up Strategy
- Integrated Human Factors Strategy
- Enhanced Performance Metrics (Data Capture)





### Building PBN on a Solid Foundation

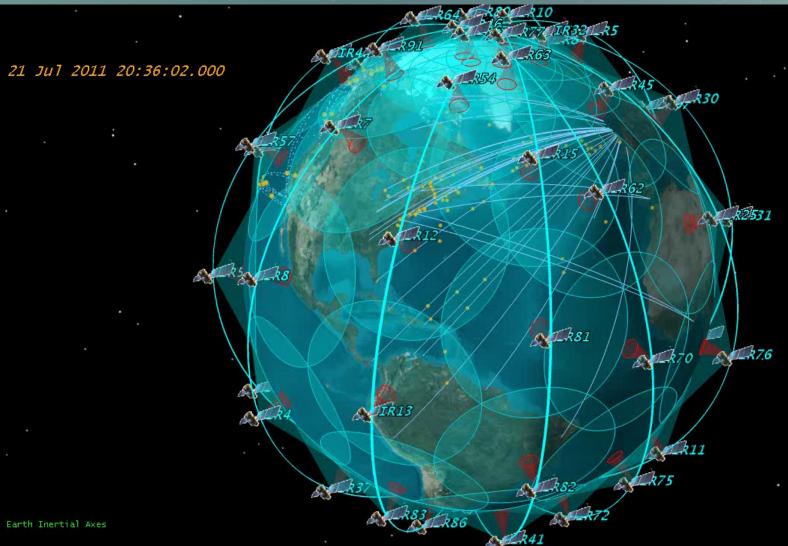
- International guidance for standardization and harmonization
- State regulation that enables safe and efficient operations
- Consultative infrastructure development
- Windsor-Toronto-Montreal Project
- Airport infrastructure changes (YYC)
- Global Navigation Satellite Systems priorities and policies







# Global Coverage with Satellite-based ADS-B







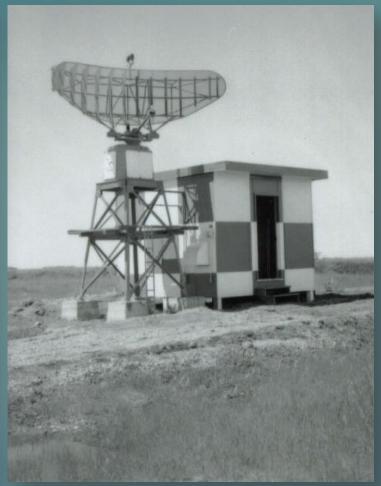
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## From here ...





### $N \wedge V \quad C \wedge N \wedge D \wedge$

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### Different Sets of Solutions









## Working Together



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Thank you