

National Airspace System Transition Roadmap

Operational Benefits & Capabilities

ADS-B Surveillance in Non-radar Airspace
Enhanced Airspace Flow Program Increases Efficiency
Increased Capacity at Major Metro Airports
Flight efficiency and reduced emissions with RNAV and RNP precision navigation

Increases flight efficiency and reduced emissions through:
- Oceanic In-Trail Climb and Descent Upgrades
- Domestic flight deck based spacing and merging
- Expanded use of Optimized Profile Descent
- Flexible Entry Times for Oceanic Tracks
- Improved use of Closely Spaced Parallel Runways

Increased capacity and flight efficiency through the:
- Extension of the 3 Mile Separation Standard
- Automation Assisted Trajectory Negotiation & Conflict Resolution
- Linking of Arrival, Departure and Surface Flow Management
- Increased Capacity by Providing "radar services" with ADS-B at Secondary Airports
- Maintain Enroute Capacity in Convective Weather
- Dynamic Airspace Management
- Enhanced Mapping and Forecasts Using Aircraft Provided Turbulence and Icing Data

2009 - 2012
Near-Term

2012 - 2018
Mid-Term

2018 - 2025
Far-Term

Program Mgmt & Systems Engineering - Enterprise Governance

Aircraft

Air-Ground

Automation

Weather

Communications & Net-Centric Enterprise Services

Navigation

Surveillance

Facilities

Key Supporting Activities (research, demonstrations, and standards development)

