

NAS Enterprise Architecture

Infrastructure Roadmaps v18.0

Airspace and Procedures



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February 2024



Infrastructure Roadmap Overview

What are the Infrastructure Roadmaps?

- The FAA Infrastructure Roadmaps show the progression of system deployments, investments, and key decision points for major NAS acquisitions. They depict the acquisition strategy to evolve the NAS from the As-Is to the To-Be environment.
- The Infrastructure Roadmaps show all Capital Investment Plan (CIP) investment projects and systems identified in the NSIP that will deliver the necessary functionality to enable OIs and BTIs.

Guidelines for Understanding the Roadmaps

- The Infrastructure Roadmaps are organized by Domain (Automation, Communication, etc.) and depict projects, systems, services, decision points, and support activities.
- The timeline is in calendar years and shows a 15-year outlook.
- The roadmaps have swim lanes for Infrastructure (white) and Support Activities (green).
- The DP diamonds represent the quarter in which a decision will occur.
- The Support Activity bars represent the dates that work is being performed on the activity.
- The Project bars represent the dates that CIP funding is allocated to a project.
- The System and Service bars represent the dates that a system or service is operational, with red lines indicating sustainment, drawdown, or convergence

Infrastructure Roadmap Legend

Roadmap Shapes Information

2023 2024 2025 Timeline (Calendar Year)	X Decommission
XYZ System / Service / Support Activity	→ System Successor
XYZ Project	- - - → System in Draw-Down Mode
XYZ NextGen Project (Denoted by G CIP Number)	XYZ Support Activity which is primarily tracked on this Infrastructure Roadmap
XYZ Other Architecture Object	XYZ Support Activity which is primarily tracked on another NAS EA Roadmap
XYZ Facility Type	XYZ Planned Support Activity
XYZ Planned / Unfunded (Applies to any fill color type)	

Decision Point Shapes Information

Decision Point Fill Colors

	AMS Decision Point (CRDR, IARD, IID, FID, BCD)	Milestone Number
	Strategy (JRC)	
	Strategy (Other)	
	Policy Milestone	
	Owned by Another Roadmap	
	Regulatory Milestone	

Decision Point Border Styles/Colors

	Future Baselined		Completed
	Planned / Unfunded		High Priority

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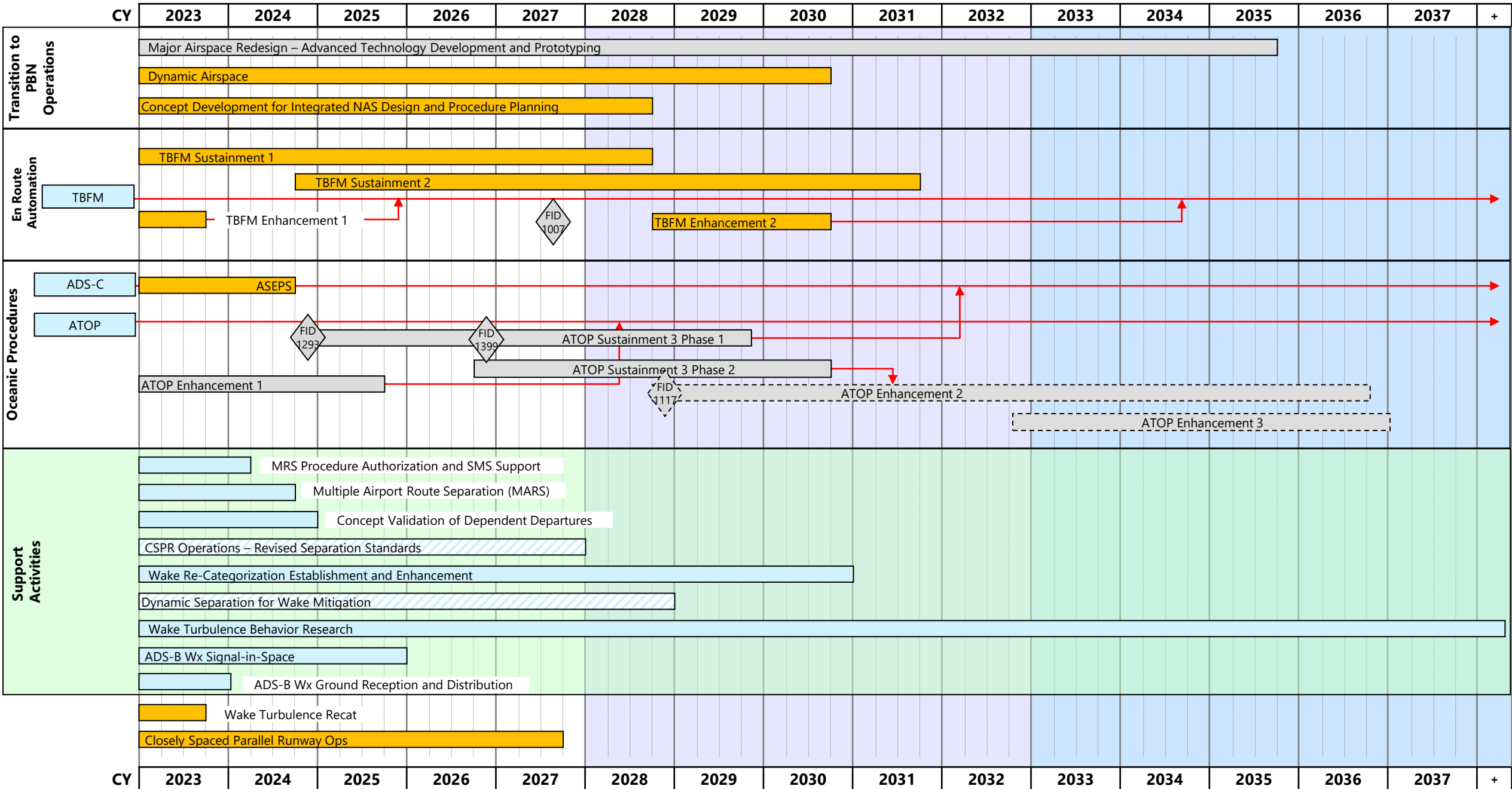
Airspace and Procedures

The Airspace and Procedures roadmap presents an Executive View (EV) of systems and procedures, including associated research projects, with an effect on the large-scale redesign and optimization of major airspace.

Airspace & Procedures Roadmap: Assumptions

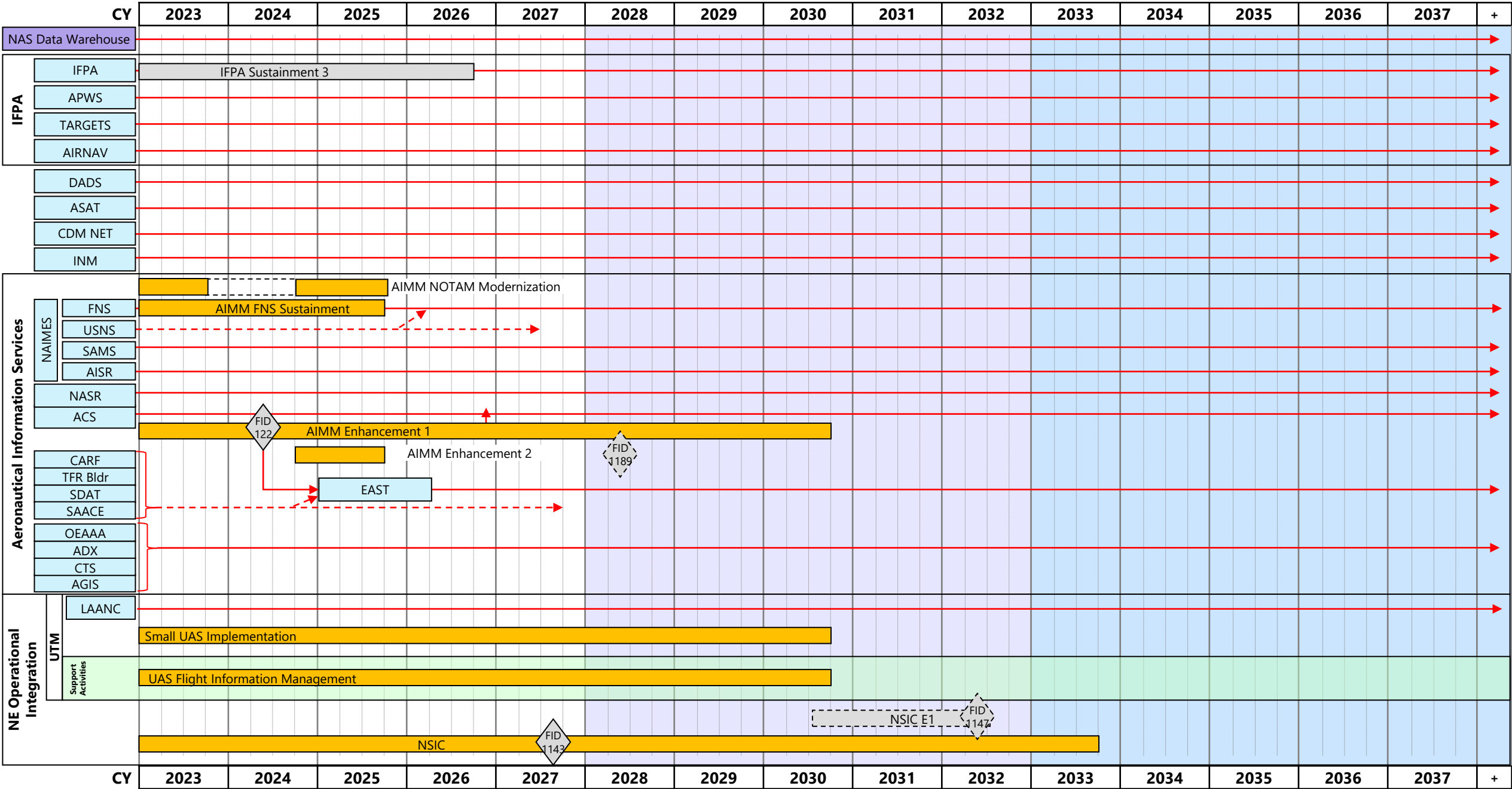
Identifier	Description
A&P-01	<p>Integrated Arrival/Departure Airspace Assumptions</p> <ul style="list-style-type: none">a) Key Integrated Arrival/Departure Airspace enablers:<ul style="list-style-type: none">1. Extension of 3 Mile Separation & Terminal Procedures2. Integrated arrival/departure airspace configurations3. Flexible sector & bi-directional routes published4. 5 mile lateral spacing for Required Navigation Performance (RNP) enables 5 mile lateral route spacing5. New voice system (NAS Voice System), leased circuits, and Air-Ground communications channels to handle transition6. Cost benefits are based on creating X Integrated Arrival/Departure (Big Airspace) facilities, covering X major metropolitan areasb) Cost analysis based on general assumptions about the concept, not on any detailed requirements or technical solutionsc) Benefits analysis based on extrapolating results from FT simulations to other sites given traffic forecasts and historical weather patternsd) Sites identified where large TRACON facilities exist could accommodate additional BA operational positions with refurbishment. New buildings would be needed where no large TRACON exists.

Airspace and Procedures Roadmap (1 of 2)



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Airspace and Procedures Roadmap (2 of 2)



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Airspace & Procedures Roadmap: Decision Points (1 of 1)

DP #	Target Date CY	Primary Domain	Type	Name
122	2024 Q2	Automation	FID	Final Investment Decision (FID) for AIMM Enhancement 1
1007	2027 Q3	Automation	FID	Final Investment Decision (FID) for TBFM Enhancement 2
1117	2028 Q4	Automation	FID	Final Investment Decision (FID) for ATOP Enhancement 2
1143	2027 Q3	NE: Commercial Space	FID	Final Investment Decision (FID) for National Airspace System (NAS) Space Integration Capabilities (NSIC)
1147	2032 Q2	NE: Commercial Space	FID	Final Investment Decision (FID) for National Airspace System (NAS) Space Integration Capabilities (NSIC) Enhancement 1
1189	2028 Q2	Automation	FID	Final Investment Decision (FID) for AIMM Enhancement 2
1293	2024 Q4	Automation	FID	Final Investment Decision (FID) for ATOP Sustainment 3 #1
1399	2026 Q4	Automation	FID	Final Investment Decision (FID) for ATOP Sustainment 3 #2