

NAS Enterprise Architecture

Business & Technology Roadmaps

v8.1



BASELINE

December 2025



Business & Technology Roadmaps Overview

What are the Business & Technology Roadmaps?

- The Business & Technology (B&T) Roadmaps are a collection of multi-year strategic roadmaps that depict enterprise-level changes to NAS internal operations, business processes, and functions that will lead to improved efficiencies, cost savings, and other benefits to the FAA. These NAS-focused improvements establish a life cycle approach that ensures the foundation of the NAS continues to modernize its technology and processes in support of future operational and technological improvements.
- The B&T Roadmaps are grouped by FAA Service and Capability and include the following elements that together show the evolution of the FAA Service:
 - **Current Business or Technology Environments (CBTEs)** describe the current state baseline of FAA service delivery
 - **B&T Improvements (BTIs)** are strategic or technological changes to the NAS intended to enhance FAA Service delivery through the realization of internal benefits (e.g. cost effectiveness)
 - **Current Business or Technology (CBTs)** are completed BTIs that show the capability solutions that are available and demonstrate evolution of the FAA service
 - **Support Activities (SAs)** are initiatives that inform the development or identification of new capabilities, policies, and procedures

Business & Technology Roadmaps Legend

Roadmap Shape Information	
2010	2011
	Timeline (calendar year)
	Current Business & Technology Environment (CBTE) Arrow indicates sustainment
	Current Business & Technology (CBT) Triangle indicates full operational availability
	Date initial operational availability achieved
	Business & Technology Improvement (BTI)
	Fill color indicates status

Business & Technology Improvements (BTIs) by Status	
	BTI with <i>Initial Operational Availability</i> status
	BTI with <i>Concept Exploration and Maturation</i> status
	BTI with <i>Development</i> status
	BTI with <i>Planned</i> status

Support Activities (SAs)
Support Activity which is primarily tracked on B&T Roadmaps
Support Activity which is primarily tracked on another NAS EA Roadmap
Planned Support Activity
External Data Element being researched or developed by a NextGen partner agency/entity

Business & Technology Status Overview

BTI Status Definitions

- BTI status is determined by the most mature capability solution, until the most mature solution achieves Initial Operational Availability (IOA) status.
- Once the most mature capability solution achieves IOA, the BTI will remain IOA until all capability solutions are complete, and then the BTI will transition to a Current Business & Technology (CBT).

BTI Status	Definition
Planned	No funding – either internally or externally (e.g. NASA or other partner agency) – has been allocated. The BTI represents a potential future concept; initial development may have begun and this is used as a placeholder to assist in further refining of solution on interdependency relationships.
Concept Exploration & Maturation	Work is underway and funded to define the concept, develop acquisition artifacts, mitigate risks, and determine the options for the implementation strategy. Solutions under development to deliver this operational change are currently in either concept and requirement definition or investment analysis up until a final investment decision is achieved (or a comparable agreement on the scope/implementation).
Development	The most mature solutions to deliver the operational change are under development. There may be additional solutions needed to fully deliver this BTI which are less mature.
Initial Operational Availability	At least one of the capability solutions needed to deliver the operational change has been achieved or approved for use at an initial site. IOA occurs after demonstration of initial operational capability at the key test site(s). A BTI remains in IOA until all capability solutions have achieved operational use.
Current Business & Technology Environment (CBTE)	The current operational state of FAA service delivery to NAS users.
Current Business & Technology (CBT)	All capability solutions needed to fully deliver the BTI are complete.

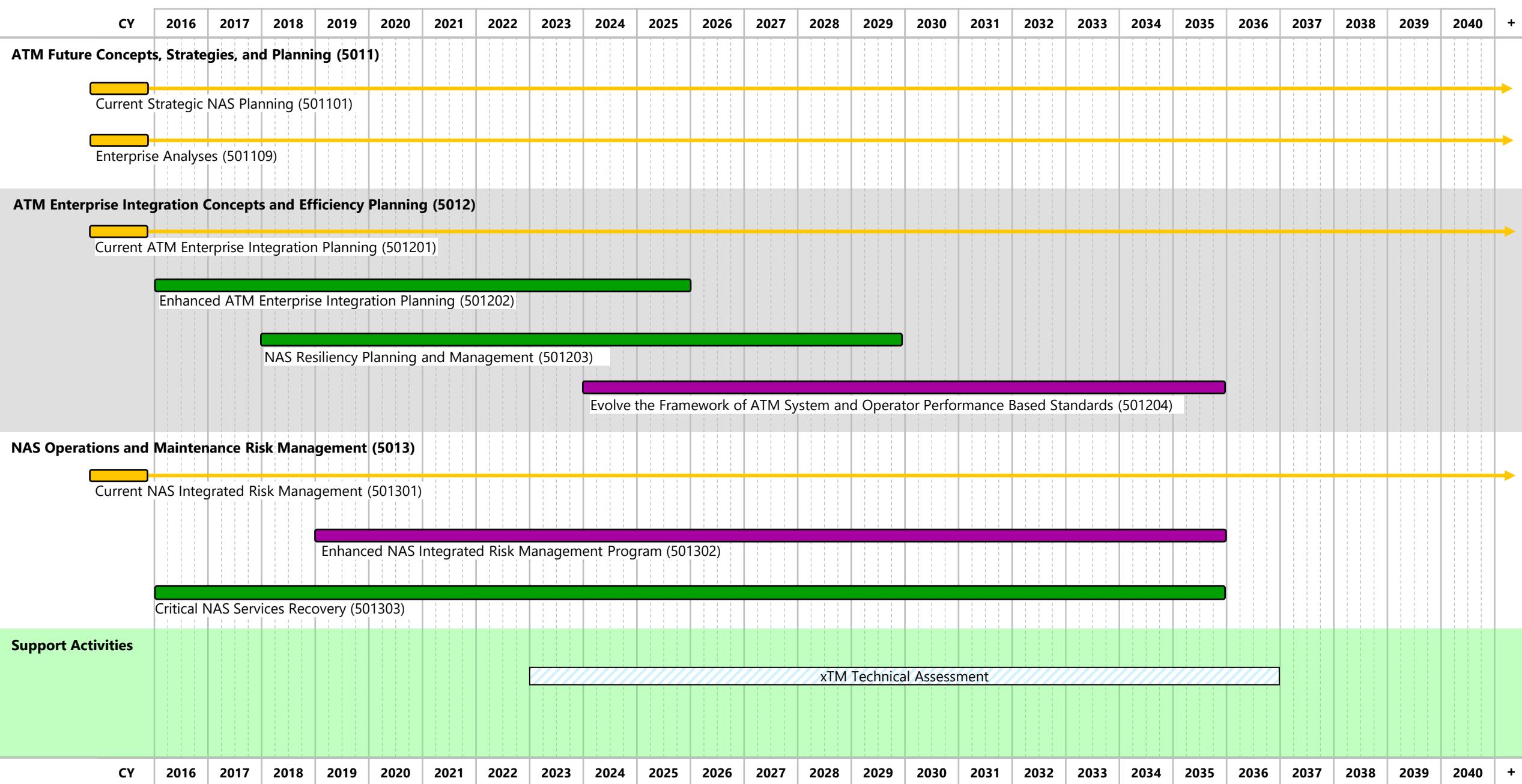
Service Group 5: Enterprise Management

Enterprise Management embodies the Services provided by an organization that support a defined business scope and mission. An enterprise is comprised of interdependent resources (people, organizations, and technology) that must coordinate their functions and share information in support of a common mission (or set of related missions). The FAA Enterprise Management Services provides an explicit description of the current and desired relationships among business and management processes within the FAA. The Services consist of business process models, technical reference models, and systems models.

Service 501: FAA Strategies Planning and Concepts

The Planning, Strategies and Concepts Service identifies potential future concepts that may either develop into a new Capability or Service for improved operations creating a more effective and efficient operating environment. The FAA is a continually evolving operation that requires constant planning of potential improvements or capabilities to maintain operational effectiveness and efficiencies. Concepts to improve methods of how the FAA operates or provides its services or concepts that may develop into new capabilities to the FAA mission and aviation community take time to develop.

FAA Strategies Planning and Concepts (1 of 1)



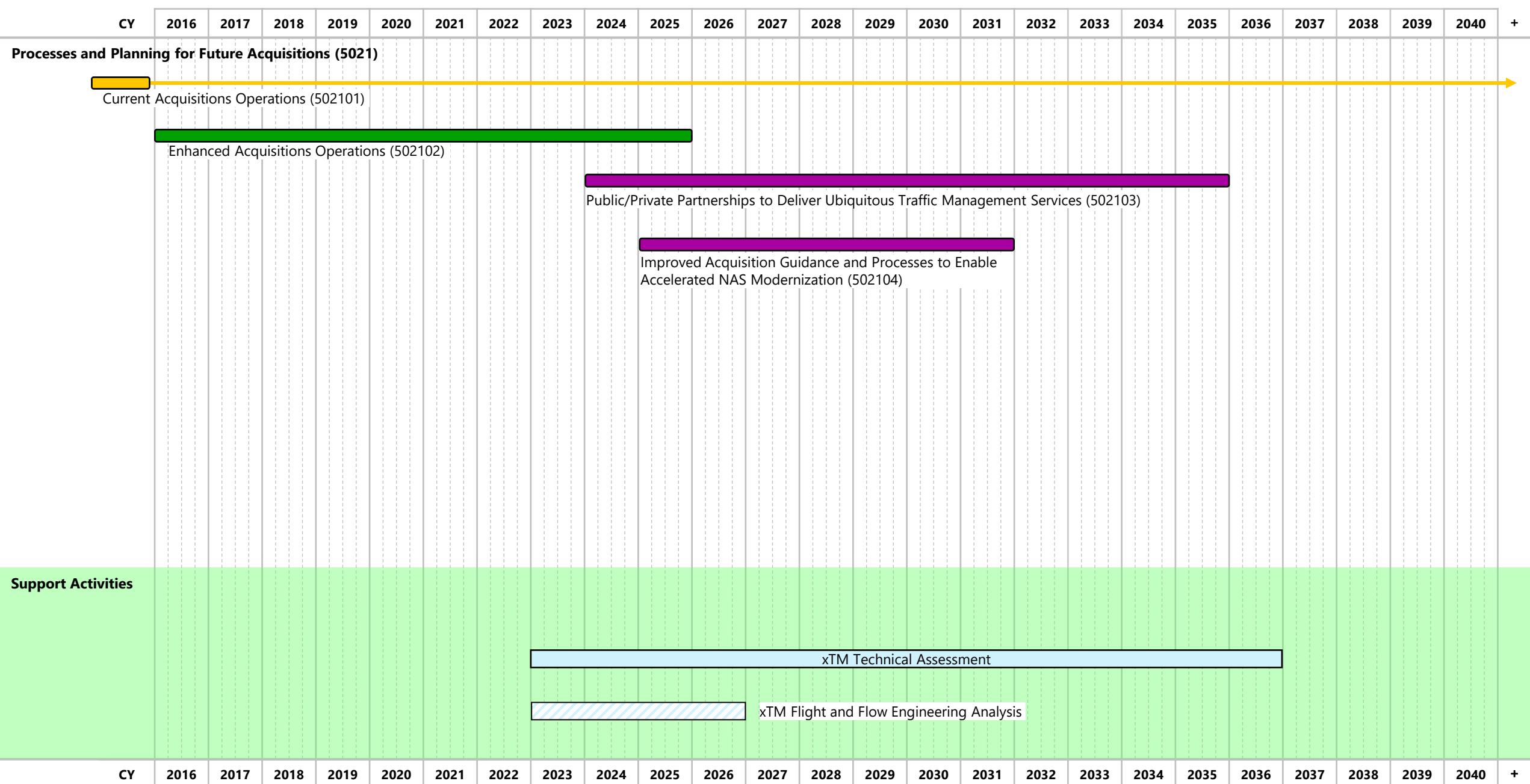
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Service 502: Acquisitions

Acquisitions provides the Acquisition Management System (AMS) which establishes agency-wide policy and guidance for all areas of lifecycle acquisition management.

Acquisitions (1 of 1)



Service 504: FAA Facilities

FAA Facilities consists of land that houses communications, surveillance and navigation systems and facilities that house operational personnel and their automation systems. ATM facilities procure, operate, and maintain these facilities to ensure continuous operations.

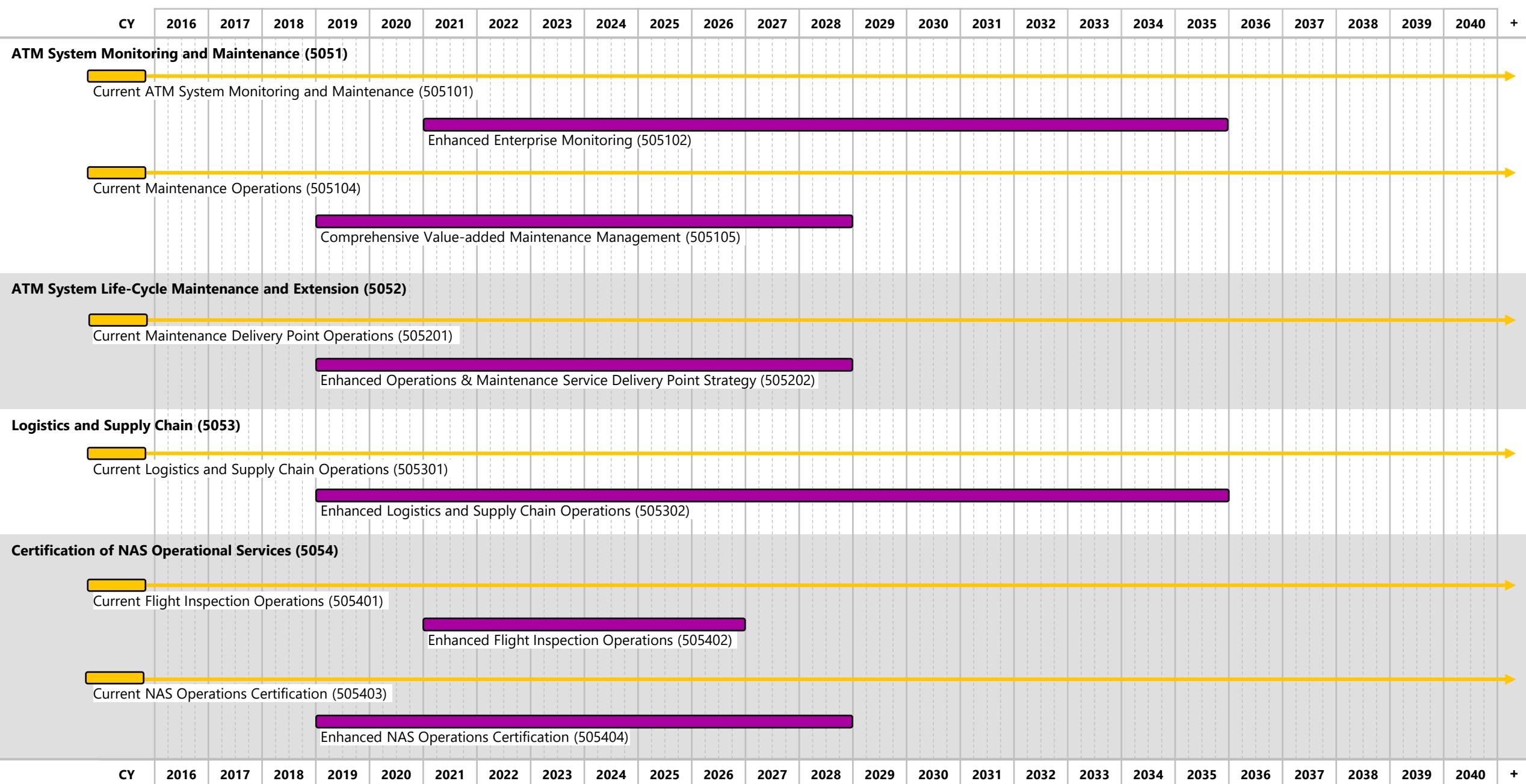
FAA Facilities (1 of 1)

CY	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	+
ATM Facility Development (5041)																										
Current ATM Facility Development (504101)																										
Enhanced Environmentally Sustainable Infrastructure (504102)																										
Enhanced Facility Sustainment, Maintenance, and Modernization (504103)																										
CY	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	+

Service 505: FAA Technical Operations

FAA Technical Operations describes the general lifecycle management of systems and capabilities. This Service ensures air traffic services are safe, available, and reliable.

FAA Technical Operations (1 of 1)

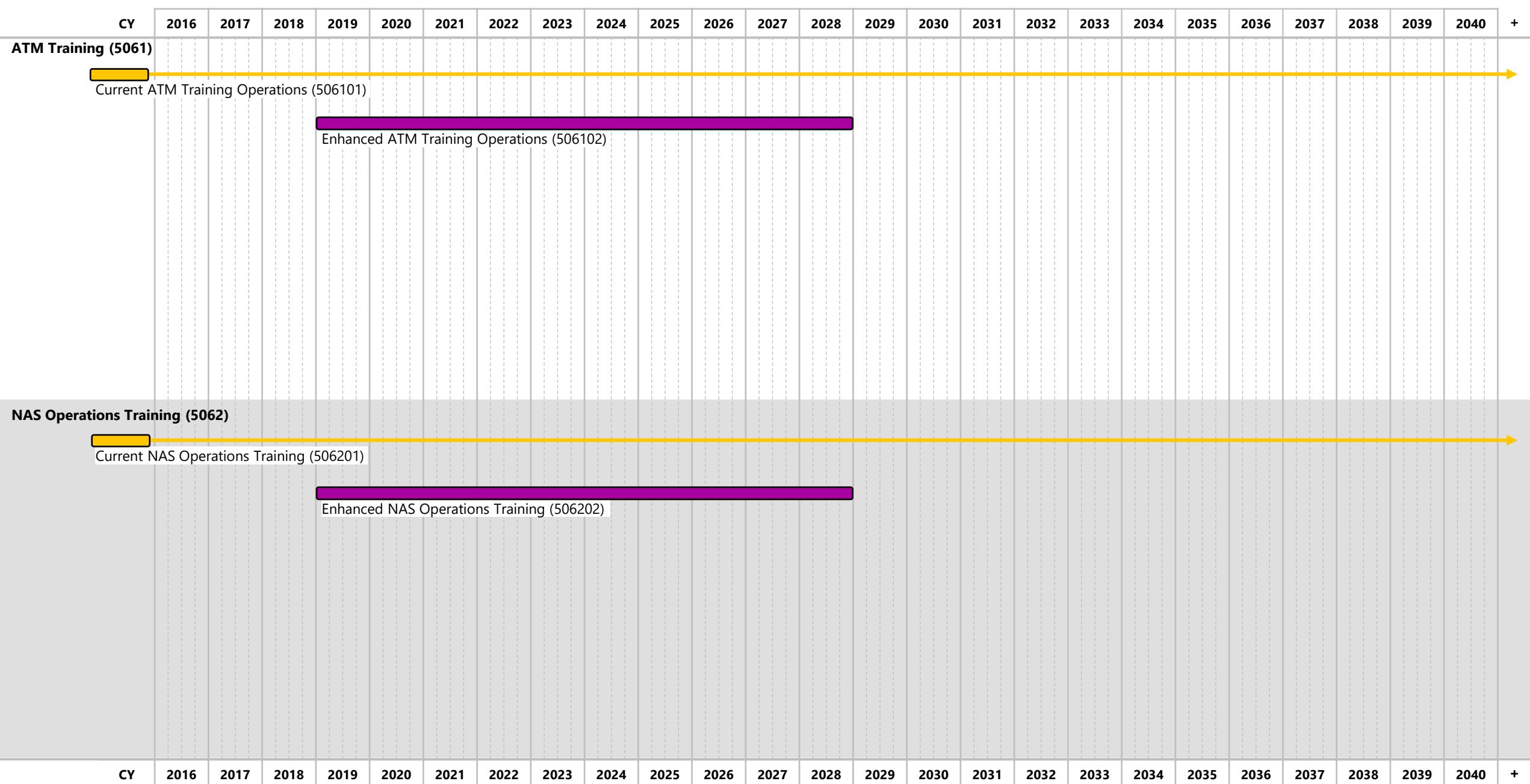


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Service 506: Training

Training provides training and develops standards that comply with the flexibility of the current rules and regulations and creates training products and guidelines that account for the current and future ATM and aviation technologies.

Training (1 of 1)



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Service 507: Workforce Planning and Development (Human Resources)

Workforce Planning and Development (Human Resources) focuses on ensuring the FAA has a stable cadre of federal employees and maintains core in-house capabilities necessary to successfully manage ATM and FAA operations. It lays out the blueprint for sustaining a high-performing workforce capable of successfully meeting objectives set by the agency. It includes the processes and assets related to the management of Agency personnel, including recruitment, performance appraisals, benefits management, payroll, skills development, and other related activities.

Workforce Planning and Development (Human Resources) (1 of 1)

CY	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	+
ATM Workforce Planning and Development (5071)																										
	Current Workforce Planning and Development (507101)																									
		Enhanced Workforce Planning and Development (507102)																								

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