

NAS Enterprise Architecture

Infrastructure Roadmaps v18.0

New Entrants – Unmanned Aircraft System



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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

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

Decision Point Shapes Information

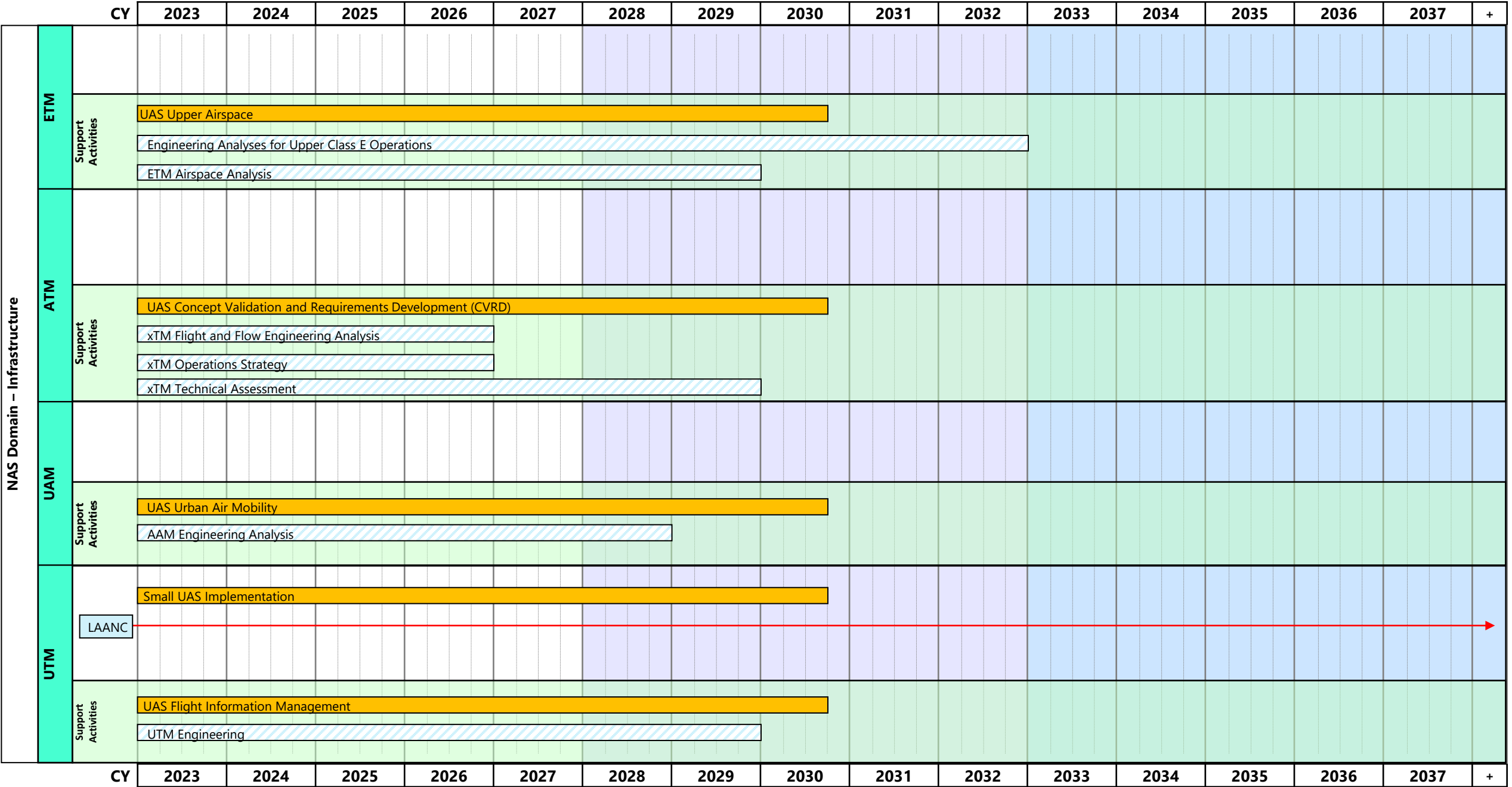
Decision Point Fill Colors	
	AMS Decision Point (CRDR, IARD, IID, FID, BCD)
	Strategy (JRC)
	Strategy (Other)
	Policy Milestone
	Owned by Another Roadmap
	Regulatory Milestone
	Milestone Number
Decision Point Border Styles/Colors	
	Future Baselined
	Completed
	Planned / Unfunded
	High Priority

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New Entrants – Unmanned Aircraft Systems

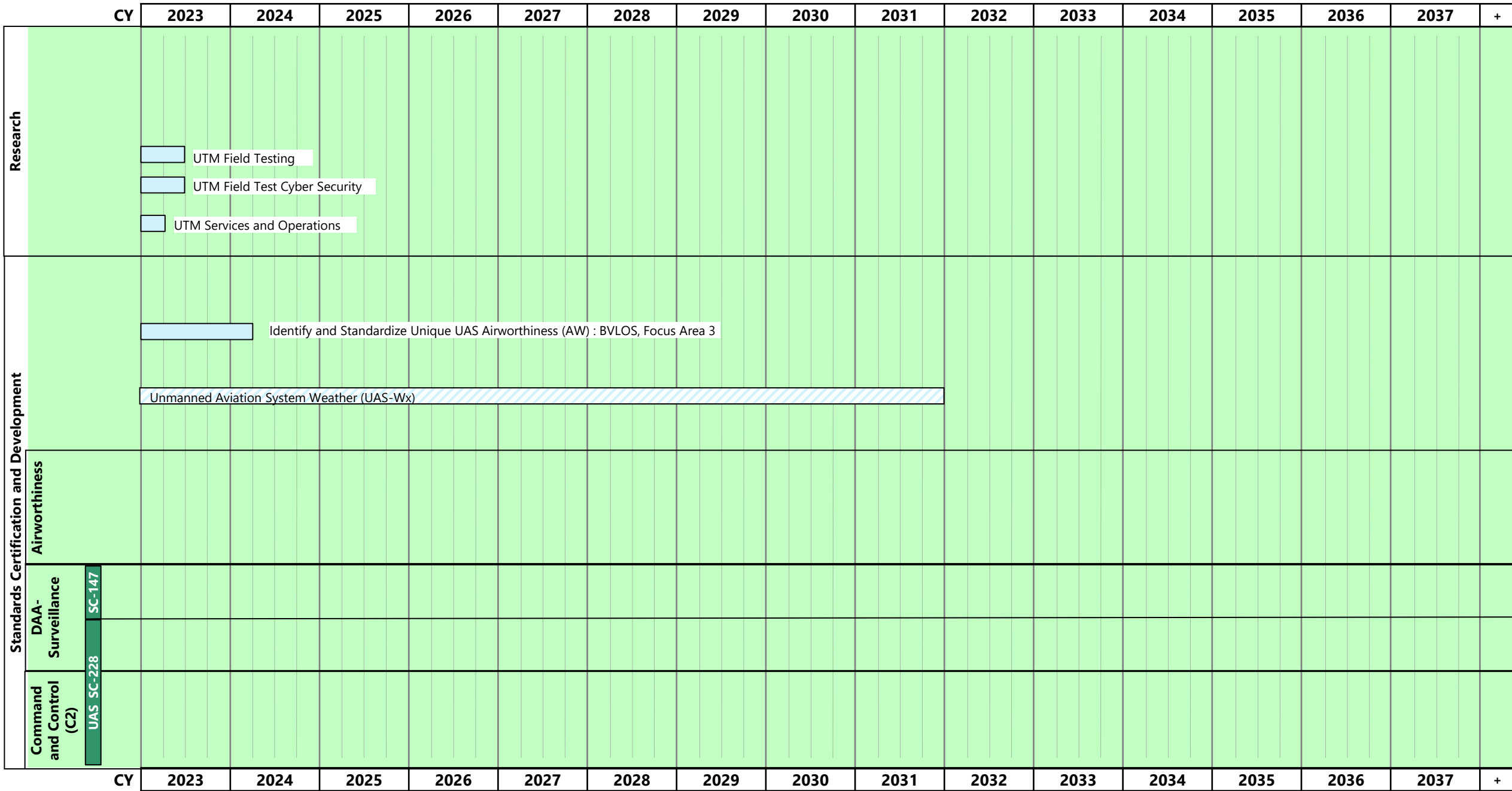
The Unmanned Aircraft Systems (UAS) Roadmaps provide a consolidated timeline of activities and investments, both active and planned, required to integrate UAS operations into the NAS. The current iteration of the roadmaps reflect initial pre-implementation efforts and AMS acquisitions. In the next few years, the FAA UAS community plans to coordinate with the program offices associated with impacted NAS systems and services currently identified and described in the “Integration of Civil Unmanned Aircraft Systems (UAS) in the National Airspace System (NAS) Roadmap” (July 2018). Additionally, the FAA UAS community will collaborate with applicable program offices in requirements allocations decisions, which will be reflected in future versions of this roadmap.

New Entrants – UAS Roadmap (1 of 2)



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New Entrants – UAS Roadmap (2 of 2)



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New Entrants – UAS Roadmap: Assumptions

Identifier	Description
UAS-01	<p>The Authoritative references used to populate the CY2019 UAS roadmaps are:</p> <ol style="list-style-type: none">1) "Integration of Civil Unmanned Aircraft Systems (UAS) in the National Airspace System (NAS) Roadmap" (July 2018)2) CIP data provided by AFN and Draft CIP FY 2020 – FY20243) UAS Integration Research Plan (2017 – 2022)4) Other NAS Infrastructure Roadmaps5) UAS Stakeholder inputs
UAS-02	<p>Although impacted NAS systems are identified and documented in "Integration of Civil Unmanned Aircraft Systems (UAS) in the National Airspace System (NAS) Roadmap" (July 2018), requirements allocations have not been discussed and accepted by the organizations that manage the impacted systems. Upon coordination and decisions made about UAS requirements allocation, ANG-B intends to update this roadmap to depict acquisitions that will deliver UAS-related requirements in the future.</p>
UAS-03	<p>Research and Development: The full scope of research and development activities are too numerous and complex to depict on this format of the roadmaps. Roadmap stakeholders are encouraged to reference pages 10, 35 and 38 of "Integration of Civil Unmanned Aircraft Systems (UAS) in the National Airspace System (NAS) Roadmap" (July 2018) to understand the full scope of FAA UAS R&D efforts.</p>