

NAS Enterprise Architecture

Infrastructure Roadmaps v19.2



BASELINE

July 2025



Infrastructure Roadmap Overview

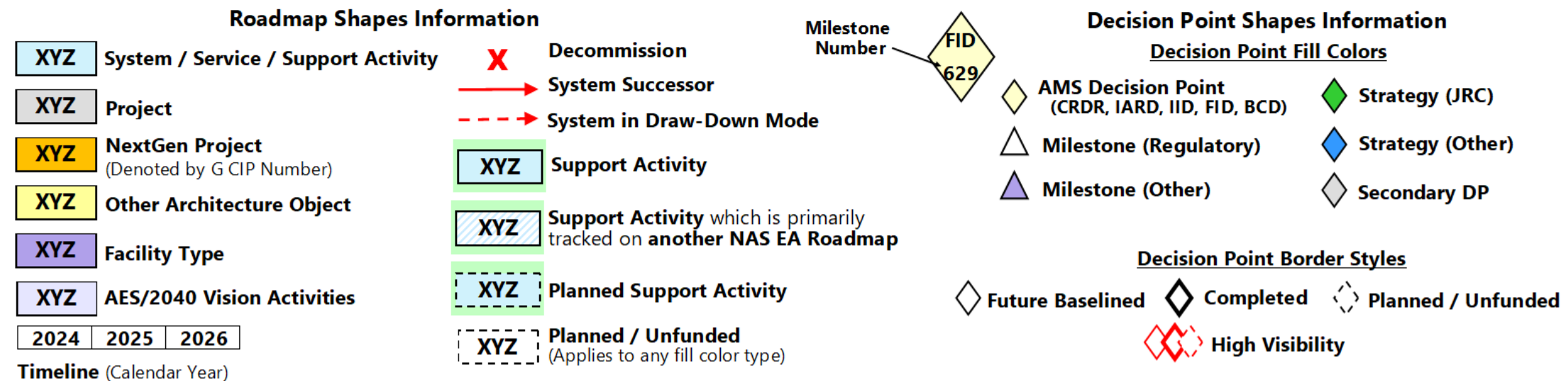
What are the Infrastructure Roadmaps?

- 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 17-year outlook.
- The roadmaps have swim lanes for Infrastructure (white), Support Activities (green), and Platform/Compute (purple).
- 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

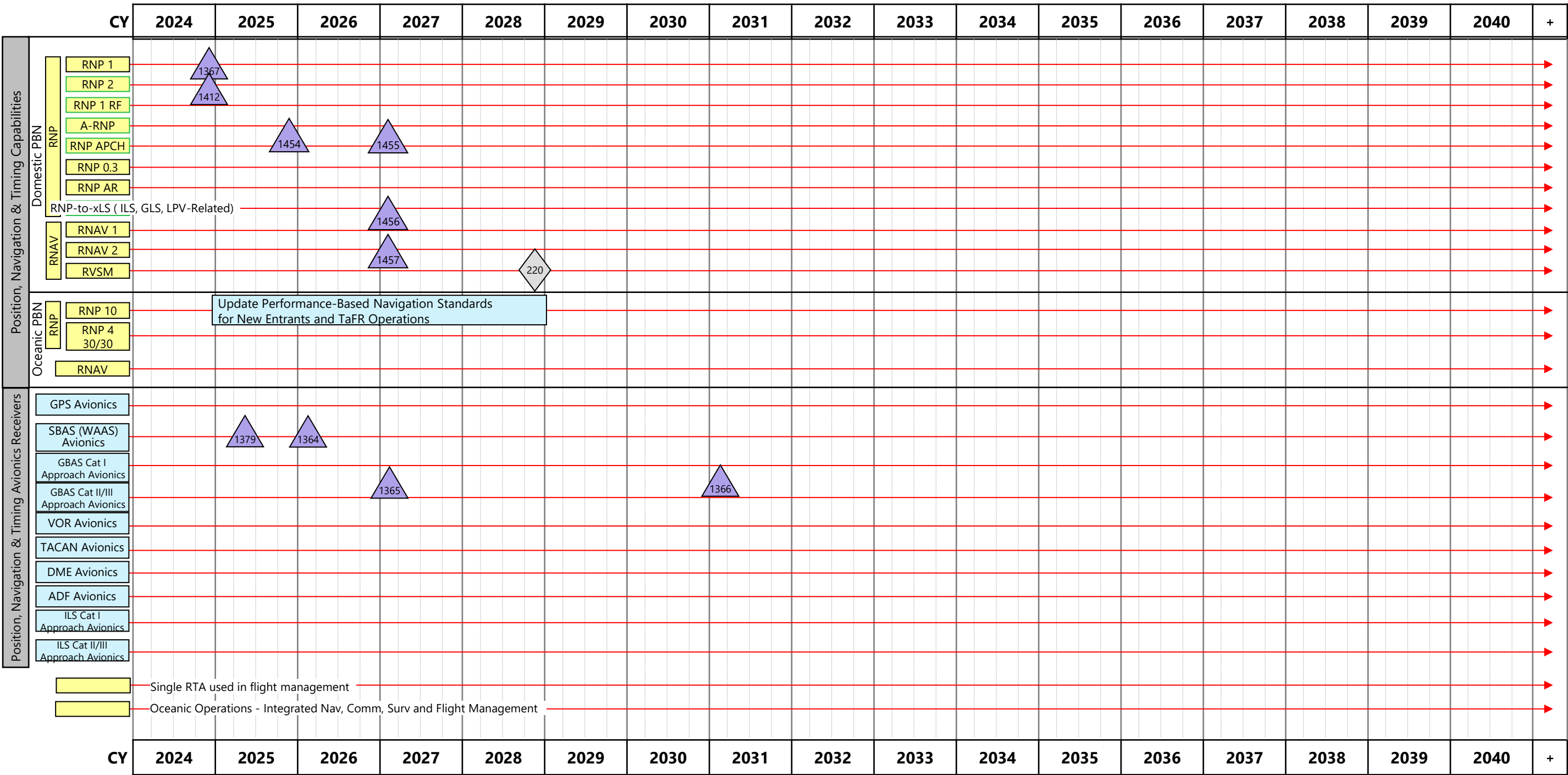
Infrastructure Roadmap Legend



Aircraft

The Aircraft roadmap presents planned advances in Airframe and Avionics in coordination with NAS NextGen improvements.

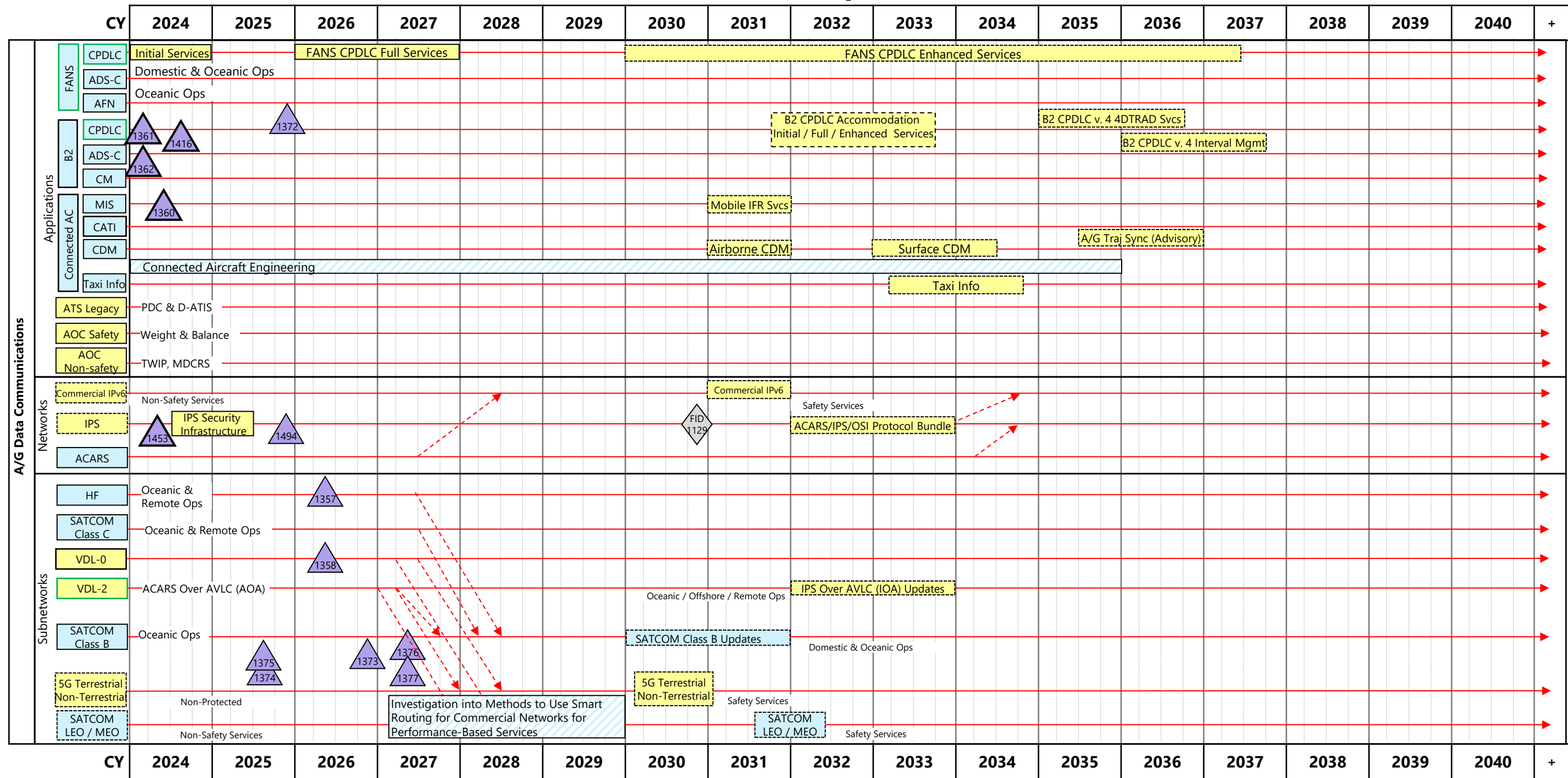
Aircraft Roadmap (1 of 5)



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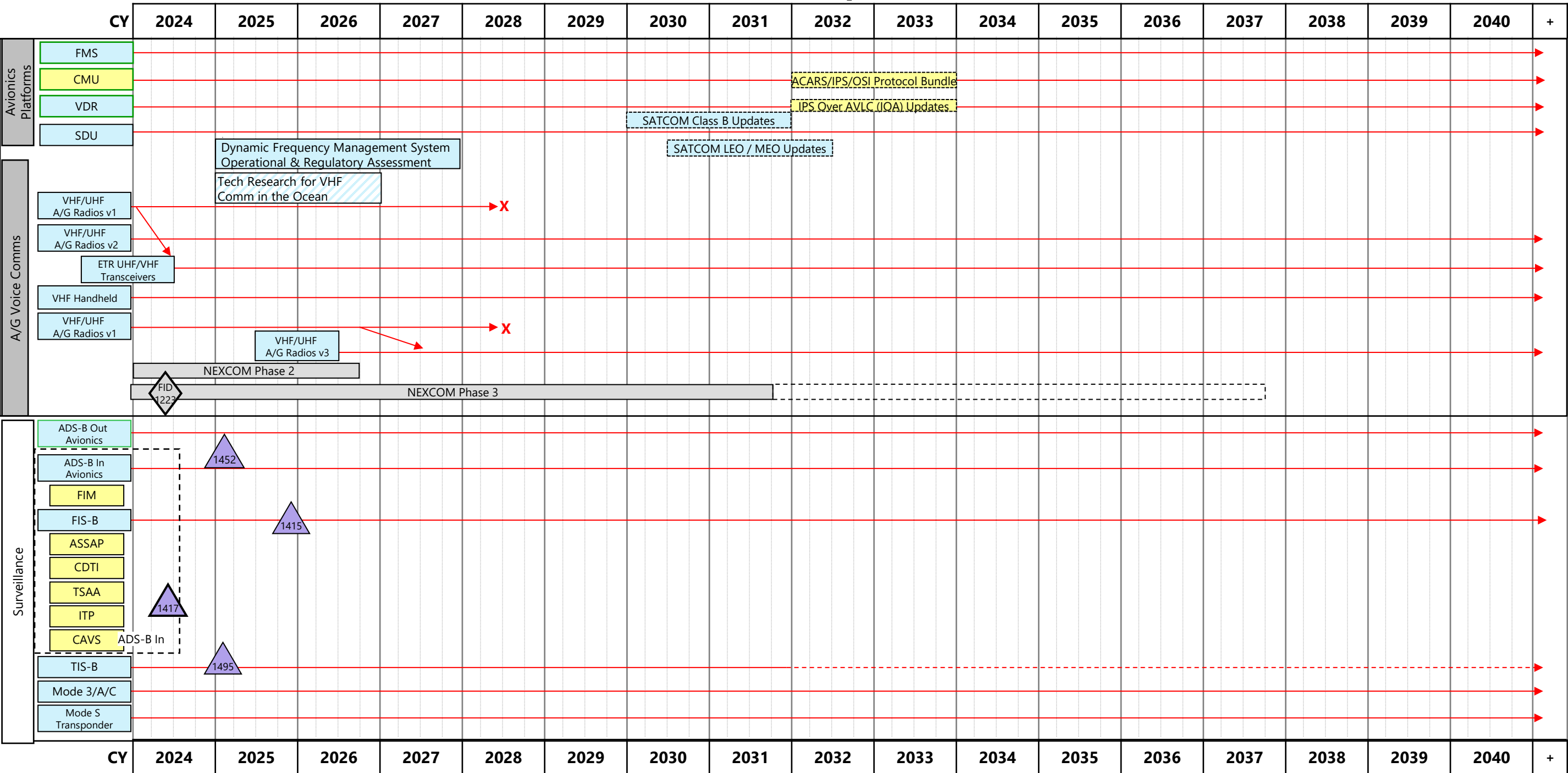
Aircraft Roadmap (2 of 5)

Items with a **green outline** are components of the FAA Minimum Capability List (MCL)



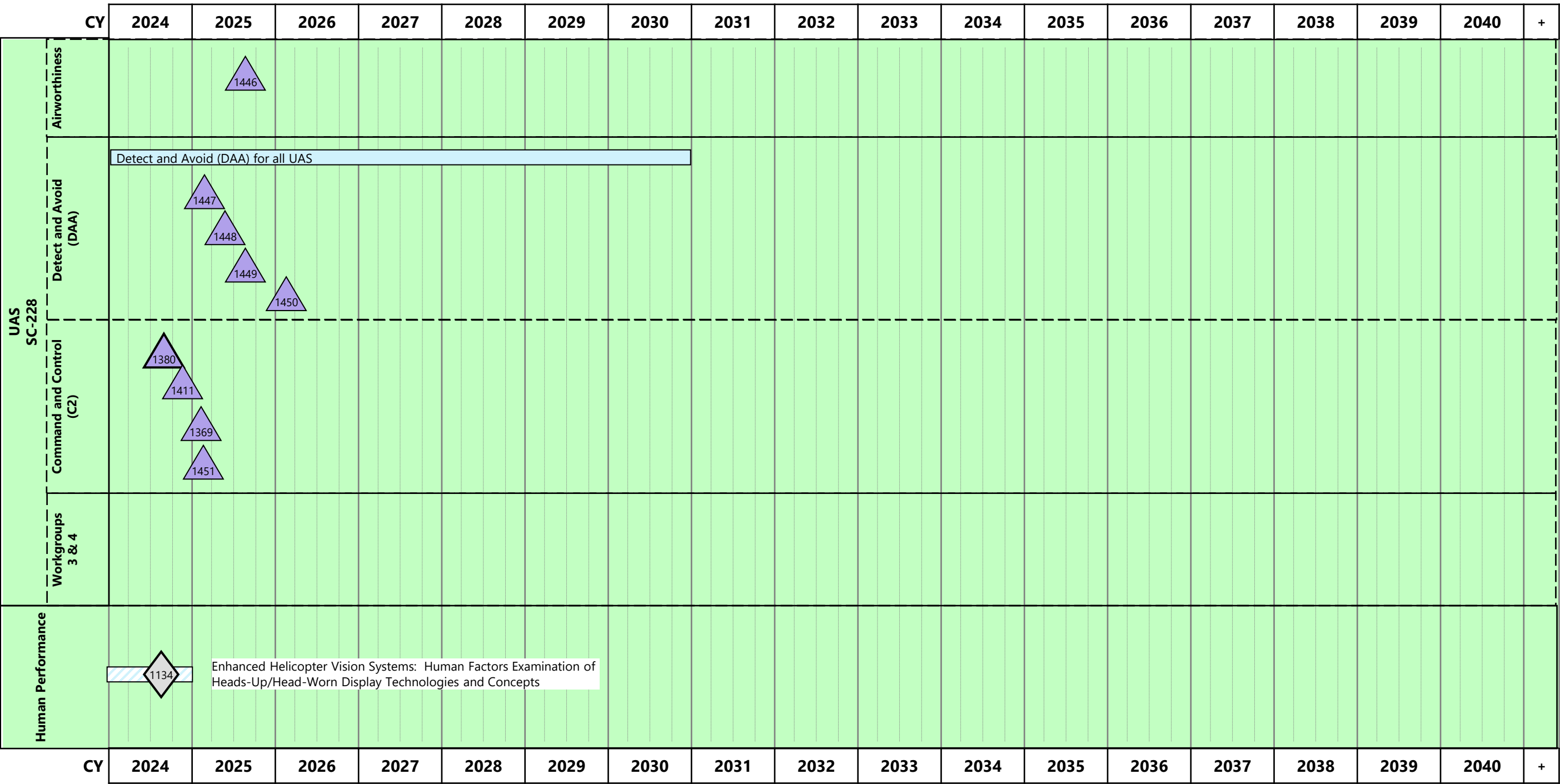
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Aircraft Roadmap (3 of 5)



NAS Enterprise Architecture Infrastructure Roadmaps Version 19.2

Aircraft Roadmap (5 of 5)



Aircraft Roadmap: Assumptions

Identifier	Description
AC-01	<p>The roadmap identifies four phases</p> <ol style="list-style-type: none">CONOPs development and R&D in required areasStandards developmentAVS ApprovalATC Procedure developmentDeployment. After the standards process is complete, and manufacturers have developed, integrated, fully tested and made new avionics available, aircraft, engines and fuels available, an additional 7 to 10 years is needed to achieve wide scale equipage of a new capability<ol style="list-style-type: none">Different aircraft are expected to equip with different equipment. This roadmap does not currently distinguish between aircraft types.
AC-02	<p>The aircraft roadmap includes environment research areas and assumptions and linkage to Mission Support EA.</p>
AC-03	<p>Any aircraft to include any UAS that participates in the NAS must operate in a way that is transparent to the ANSP and ATSP.</p>
AC-04	<p>The Minimum Capability (MCL) items documented in the Aircraft roadmap are accurate as of the September 2019 draft of the MCL.</p>
AC-05	<p>The Minimum Capabilities List (MCL) provides clear and comprehensive guidance to support equipage across all fleets operating in the National Airspace System (NAS). The MCL's purpose is to:</p> <ul style="list-style-type: none">Define the minimum aircraft capabilities and associated equipment needed to maximize benefits from FAA investment and operational improvementsGuide "forward-fit" aircraft equipage and inform operator investment decisionsMaximize the return on investment for both the FAA and airspace users
AC-06	<p>The yellow roadmap symbol is being utilized as aircraft operational capabilities on this roadmap.</p>