

# **FAA Office of NextGen (ANG)**

---

## **REDAC / NAS Ops**

Review of FY2024 – 2026 Proposed Portfolio

*Operations Concept Validation &  
Infrastructure Evolution*

***BLI Number: 1A01C***

***Presenter Name: Guillermo Sotelo***

***Date: 03/20/2024***

# Operations Concept Validation & Infrastructure Evolution Overview

## **What are the benefits to the FAA**

As NAS and Enterprise concepts evolve, this program identifies operational gaps and assesses potential opportunities that could mitigate these gaps. Activities include, but not limited to:

- Analysis and risk mitigation activities for identified priority areas in support of service analysis and strategic planning
- Assessment of potential enhancements for operational suitability, and inclusion in the architecture plans for the NAS

## **What determines program success**

Proposed NAS level concepts are linked back to validated operational needs, supporting budget planning and investment decisions.

# Operations Concept Validation & Infrastructure Evolution Program Support

## **People:**

- Program Manager: Guillermo Sotelo, AJV-S11
- Subject Matter Experts: Traffic Managers, ATC, Discipline Experts, Airspace User Community

## **Laboratories:**

- WJHTC, MITRE/CAASD, NASA, Volpe, DAB Test Bed, NEXTOR

# Current FY24 Accomplishments

- NAS Integration of Transiting Operations (NITRO) – Integration of Higher Class A/ Upper Class E (HCA/UCE) and Space L/R operations into the NAS:
  - HCA/UCE Market Analysis – initial assessment delivered
- Advanced Air Mobility (AAM):
  - ATO AAM Integration Plan developed

# Anticipated Research in FY25

## Planned Research Activities

- New Entrants Operational Integration Analysis [Space Launch/Reentry Operations (LRO), Upper E Traffic Management (ETM), UAS Traffic Management (UTM), Urban Air Mobility (UAM)]

## Expected Research Products

- Space LRO – identify unmet operational needs for dynamic airspace use
- ETM ConOps – assessment of operational gaps/ needs
- UTM – unmet operational needs for interoperability with ATM/ATC
- UAM – airspace and CNS unmet operational needs

# Emerging FY26 Focal Areas

- Air Traffic Management and Extensible Traffic Management Concept Evolution
- Advanced Air Mobility (AAM) Use Cases (e.g., Regional Air Mobility, Cargo Low Altitude Mobility, Public Service Mobility)

# Operations Concept Validation & Infrastructure Evolution

## Research Requirements

- As new concepts evolve, this program identifies operational gaps and potential opportunities that could address these gaps in support of service analysis and strategic planning.

## Outputs/Outcomes

- Proposed NAS level concepts linked back to validated operational needs, supporting budget and investment decision planning.

## FY 2026 Planned Research

- Space – preliminary dynamic airspace use service level operational requirements
- UCA/UCE preliminary service level operational requirements
- UTM/ATM interoperability preliminary service level operational requirements
- Site-specific AAM airspace required changes
- Operational needs for cooperative deconfliction services

## Out Year Funding Requirements

F&E

FY24 (Enacted)	FY25 (President's Budget)	FY26 (CIP)	FY27 (CIP)	FY28 (CIP)	FY29 (CIP)
\$3.0 M	\$3.0 M	\$6.0 M	\$6.0 M	\$6.0 M	\$6.0 M