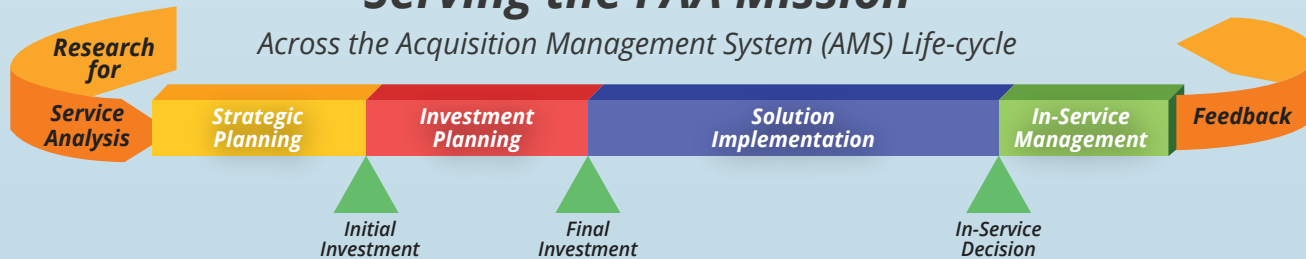


NAS ANIMATED STORYBOARD

Serving the FAA Mission

Across the Acquisition Management System (AMS) Life-cycle



What is Storyboarding?

Storyboarding is a way of communicating and understanding how our NAS works using animation. Storyboards show the major message flow and interaction among programs, facilities, systems and people.



Look for us at Key Events!

- V&V Summit
- Tech Center Tuesday
- Cyber Rodeo
- AvSTEM & Outreach
- ATCA Global

How is it being used?

- Concept Development and Validation
- Demonstrating benefits
- Training tool and outreach support
- Executive and engineering level Collaboration and decision-making



Contact Info

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Leveraging the Power of Storyboards

- NAS Programs, Capabilities, and Operational Improvements
 - Over 50 Storyboards
 - Concepts and Prototypes
- Emerging Operations
 - Unmanned Aircraft
 - Commercial Space Transportation
 - Advanced Air Mobility
- Laboratory Capabilities
 - Mike Monroney Aeronautical Center
 - NextGen Integration & Evaluation Capability
- Business Process
 - Intern Onboarding Process
 - AMS Relational Flow Model

Domains

Storyboards

Communication

Data Comm ✓ FENS ✓ NEXCOM (2) ✓ SWIM ✓ VoICE ✓
TDM to IP (4) ✓ RTIR ✓ LTE ⚙️ ACL ⚙️ NOTAMS ⚙️

Navigation

NAVAIDs ✓ GPS Spoofing (3) ✓ WAAS ✓

Surveillance

ADS-B ✓ ASDE-X (2) ✓ WAM (2) ✓

Automation

ATOP (2) ✓ E-IDS ✓ ERAM ✓ IDSR ✓ STARS ✓ TBFM ✓
TFDM (2) ✓ TFMS (4) ✓

Weather

CSS-Wx (2) ✓

Monitoring

RMLS ✓

New Entrants

CST (6) ✓ UAS (7) ✓

Capabilities

IM ✓ TBO Vision 2025 (5) ✓ TBO Implementation Strategy (2) ✓
TSAS ✓

Labs

MMAC Mini-NAS ✓ NIEC (2) ✓ RDT&E ✓ TGF ⚙️

Cyber Security

ITF ⚙️ SDR Threat Testing ✓

Rapid Development

Path Stretch ✓ FOC Preferences ✓ Improve SAA-Based Flow Predictions ✓
Integrated Departure Route Planning ✓ COVID ✓ Handoff ✓ Separation Stds. ⚙️

Processes

Intern (2) ✓ Research and Development ⚙️ T&E Services ⚙️ Digital Xform ⚙️

Research & Development

TITE/LiFT (7) ✓ NFLITE Accreditation ✓ NFLITE KACY Use Case ✓
HASS ⚙️

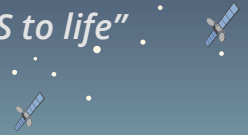
✓ - Complete
⚙️ - Under Development
(#) - Number of Scenarios

Developed by the:
Verification and Validation Strategies and Practices Branch
at the FAA William J. Hughes Technical Center

(as of March 2024)



"Bringing the NAS to life"



Federal Aviation
Administration