FAA Systems Engineering
Accomplishments and Challenges in 2015

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NAS Segment Implementation Plan (NSIP)

The NSIP serves as the master program plan to enable cross-domain coordination and integration of all activities related to NextGen implementation. It connects the dots among programs.

**NSIP Includes:**
- Operations-focused approach
- Comprehensive view of capabilities and integration challenges
- Portfolio structure for management and acquisition
- Framework that enables alignment of related work plans across programs and organizations
- FAA Action Plans in response to RTCA Task Force 5 Tier 1 Recommendations

**How it Meets Goals:**
- Supports delivery of customer solutions
- Informs enterprise-wide decision-making and trade-offs
- Establishes portfolio management framework for all activities for defined segment of time
- Improves the FAA’s investment analysis activities
- Manages delivery of Agency commitments in response to industry recommendations and answers the industry call for improvement
Integrated Systems Engineering Framework

Current NAS

NextGen 2025+

FAA

NextGen

Airspace Redesign
Technology
Research
Avionics
Rulemaking
Certification

Integrated Systems Engineering Framework

National Airspace System Transition Roadmap

NAS EA Framework

NextGen Research
Certification

Avionics

Rulemaking

Procedures

Technology

Airspace Redesign

Certification

NextGen

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Cybersecurity Challenge in NextGen

Today’s NAS
Limited inter-connectivity

NAS Environment is Changing

Cybersecurity Challenges:

Moving to net-centric operations
Greater connectivity within the NAS
More commercial software
Greater connectivity with partners
Cyber threats on the increase

Tomorrow’s NextGen
Significant inter-connectivity

CATMT
SWIM
NVS
DATA COM
NextGen WX
Thank You