

# Airspace Modernization Roadmap Status Update

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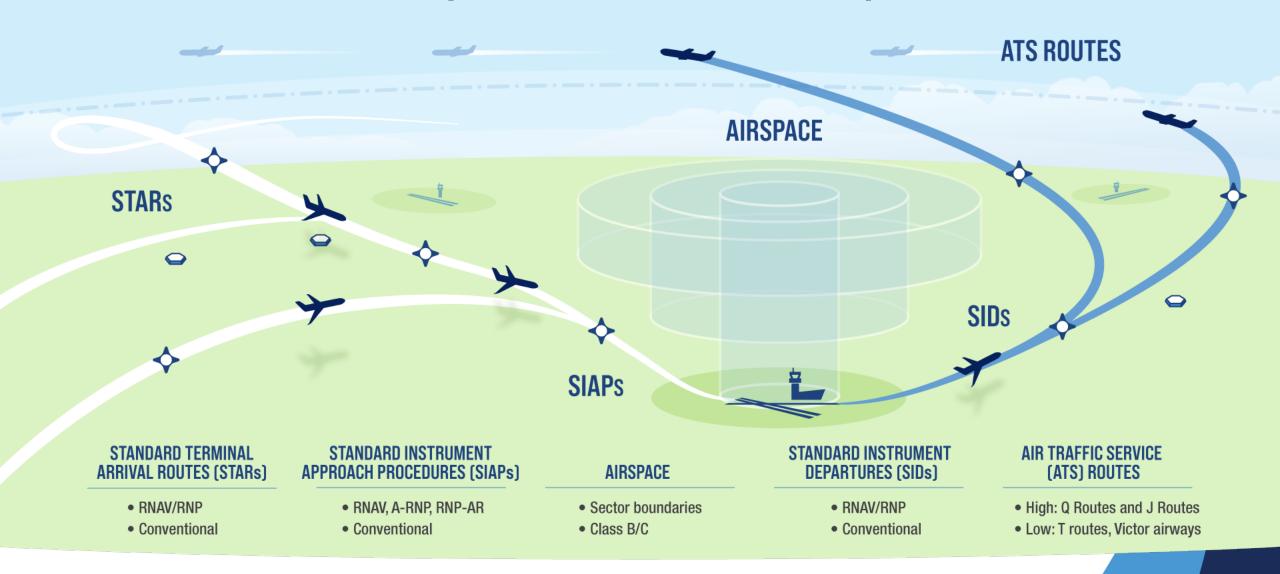


#### **Vision AMR Strategy** Planner/Strategists **FAA Priorities** Strategic Goals **HQ Support & Focus Areas: Inventory Optimization Concept Advancement** Safety **Efficiency (Operational Excellence) Integration Commitments Quantitative Data Strategic** Collaboration **Engage stakeholders Initiatives Use of Data/Analysis Use of Data/Analysis Prioritize through SALTs #1 Priority Airport Portfolios Qualitative Data Airspace Modernization Airspace Modernization Playbook** Operators Roadmap Service Airport 2022 2030+ 2025 Area **Portfolio** NSG 1 & 2 NSG 1 & 2/ NSG 1 & 2/ NSG 1 & 2/ Leadership Airspace/TBO Airspace/TBO Airspace/TBO Team Mission Support **Service Cente**

## **Airspace Modernization – The New Way**



## **Airspace Infrastructure Scope**



OTHER CAPABILITIES

Trajectory Based Operations (TBO)

Established on RNP (EoR)

Multiple Airport Route Separation (MARS)







## Service Area Leadership Team (SALT)

Service Center Director (Chair)

Regional Administrators

Director of Air Traffic Operations

Director of Technical Operations

Director(s) of Airport Divisions

Deputy Director(s) of System Operations (DDSO)

Airport Sponsors

Bargaining Units

**Elected Officials** 

**Industry** 

**MILREPS** 





## **Airspace Modernization Roadmap Update**

#### Criteria

- Quantitative Data
  - Safety and Efficiency Metrics derived from:
    - ASAP, FOQA, ARIA, Track Data, Airport Operations, procedure efficiency
    - TBO Efficiency quantitative analysis is being incorporated into AMR
    - Tracks with industry identified metrics from prior NAC tasking, e.g. Time at Level Flight, Track mile efficiency, level off, PBN procedure usage, etc.
- Qualitative information derived from:
  - Airspace Complexity, ATC Facility, Community, Industry, Environmental, Legal, Readiness
  - Meetings with AJR and AJT; Incorporating NAS and TBO Efficiency qualitative assessment
  - Criteria will be revisited and revised subsequent to initial site selections

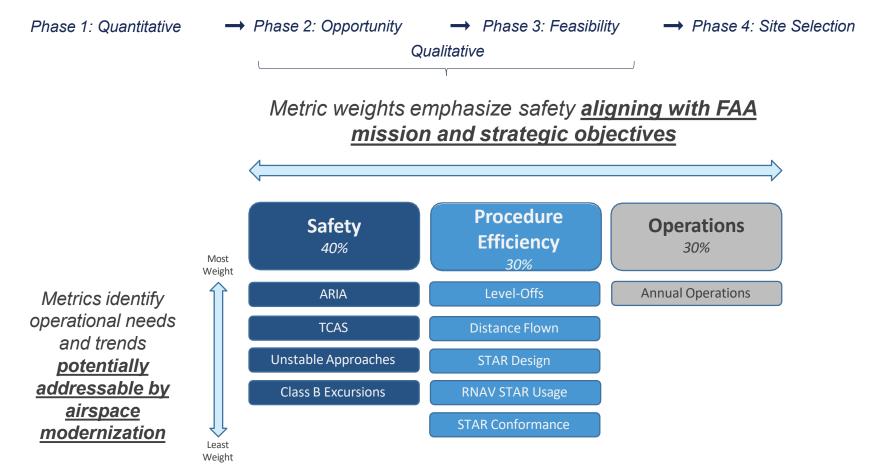
### **Airspace Portfolios (SharePoint site development)**

- **Background** Internal FAA firewall access SharePoint site developed to provide a secure place to store, organize, share, and access AMR information. The Airport Portfolio is the initial section being developed for the AMR SharePoint site.
- SharePoint site accomplishments
  - Developed comprehensive portfolio pages
  - Incorporated qualitative and quantitative scoring factors to aide SALTs decision process
  - Working on future enhancements to further improve storing and sharing AMR data
- Future activities
  - New pages and technology to improve interactive pages
- SALT Site selection focus on NSG 1& 2 airports; incorporating en route airspace
  - Two modernization site recommendations per Service Area
  - FAA leadership to review and approve





# Phase 1: Quantitative Identification of Needs



**Quantitative rankings provide a foundation**—qualitative input is needed to fully determine opportunity and feasibility of airspace modernization projects



Eastern

Central

Western Mission Support





**MITRE** 

# **Phase 2: Opportunity Assessment**

Phase 1: Quantitative

→ Phase 2: Opportunity

→ Phase 3: Feasibility

→ Phase 4: Site Selection

Qualitative



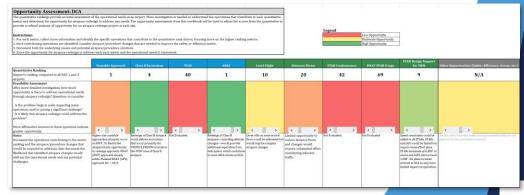
Understand *operational factors* causing
quantitative results

Identify *potential airspace changes* to address

High-Level **Project Scope** 

Identify *other operational needs* not identified in quantitative

## Opportunity Assessment Template







# Phase 3: Feasibility Assessment

Phase 1: Quantitative

→ Phase 2: Opportunity

→ Phase 3: Feasibility

→ Phase 4: Site Selection

Qualitative

# Capture *factors that may impact the ability* to make airspace changes at a site

#### **Potential Considerations**

ATC Buy-In

**Industry Interest** 

**Airspace Complexity** 

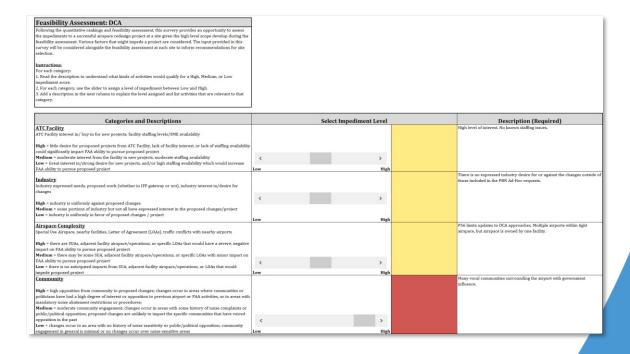
Community Concerns

**Environmental** 

Legal

Readiness

#### Feasibility Assessment Template







## **Phase 4: Site Selection**

Phase 1: Quantitative

→ Phase 2: Opportunity

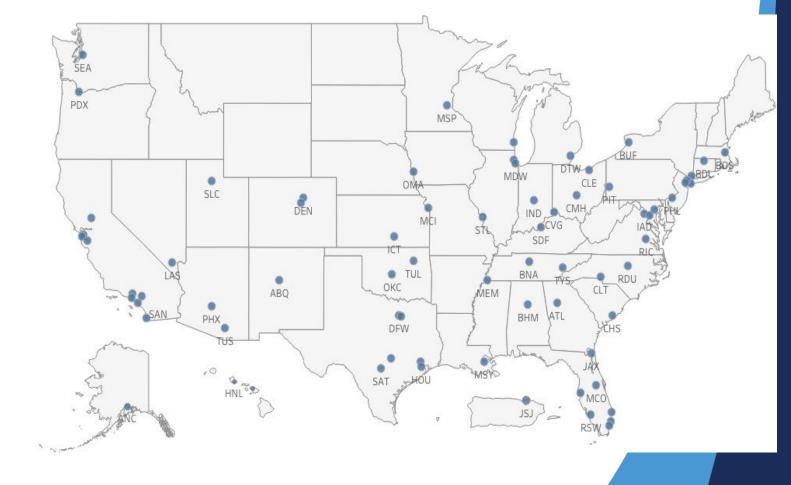
→ Phase 3: Feasibility

→ Phase 4: Site Selection

Qualitative

Quantitative and qualitative inputs are considered *in combination* for site recommendations

**Schedule-related factors** are also considered







# **Discussion**



