

# SWIM USERS FORUM

June 13, 2019

Washington, D.C.

Presented By:

SWIM Program Office



Federal Aviation  
Administration



# Agenda



**PROGRAM  
UPDATES**



**FAA CLOUD  
UPDATE**



**FINAL COMMENTS  
& USER FEEDBACK**



# SWIM

## update



**Melissa Matthews**

SWIM Program Manager (A)

SWIM Capabilities Lead

[Melissa.Matthews@faa.gov](mailto:Melissa.Matthews@faa.gov)



# NATIONAL CLOUD INTEGRATION SERVICE (NCIS) STATUS BRIEFING

**Chris Pressler**

NCIS Program Manager

[chris.pressler@faa.gov](mailto:chris.pressler@faa.gov)



Federal Aviation  
Administration

# NCIS Mission and Vision

**Problem Statement:** FAA Programs are not leveraging EIM and cloud and must find ways to accelerate development while reducing risk

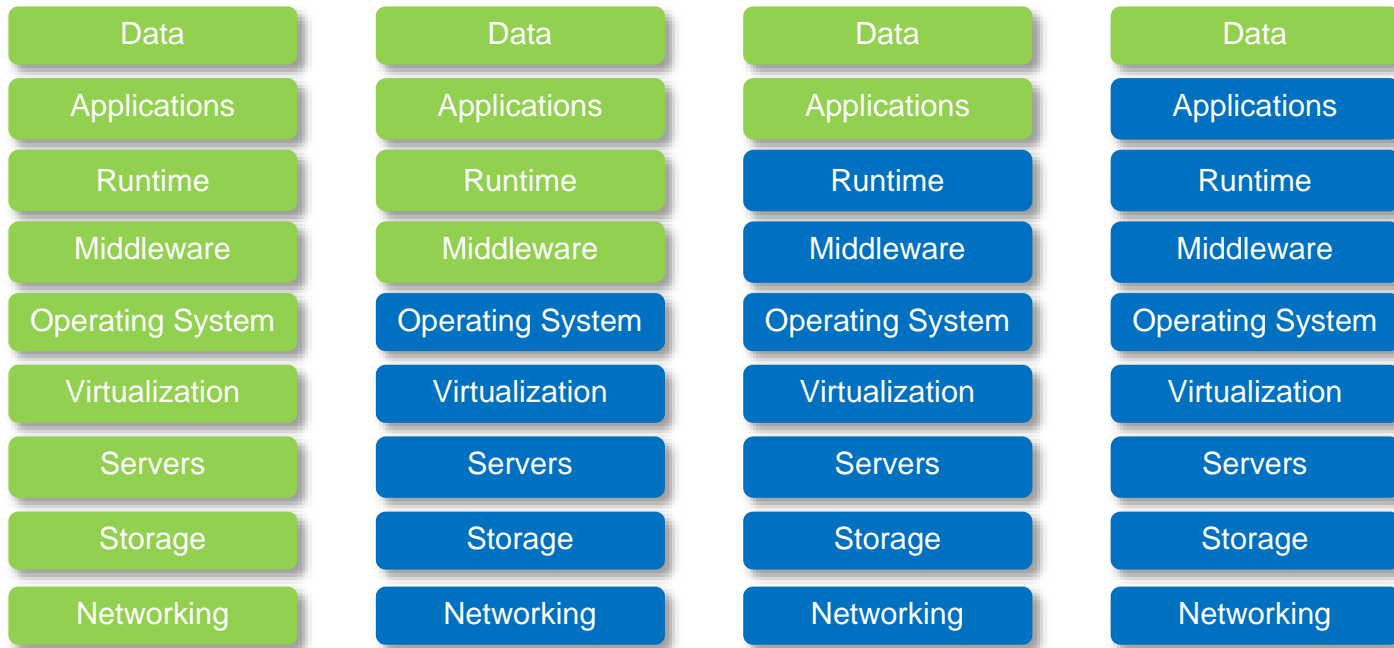
**Mission:** Partner with Programs to innovate, form fit and accelerate cloud and enterprise infrastructure adoption for FAA modernization

**Vision:**

- Accelerate innovation to key strategic initiatives
- Streamline modernization development & acquisition (i.e., Sandbox, vehicles)
- Improve efficiency in development cost & deployment (i.e., prototype to Ops)



# Cloud Service Models



**Control** ← → **Agility**

## On Premise

- Owner assumes full responsibility

## IaaS

- CSP assumes responsibility for servers, storage, OS and network

(e.g. AWS EC2, S3, Azure compute, RedHat, Windows)

## PaaS

- CSP assumes responsibility for IaaS, runtime libraries and middleware

(e.g. AWS RDS, Azure SQL DB)

## SaaS

- CSP assumes responsibility for everything but data

(e.g. Office 365)

## Legend

Owner Responsibility

CSP Responsibility

# FAA Cloud Services (FCS) Offerings

FCS Clouds	Security and Compliance Highlights	Key Considerations	Network Access	
<b>AWS Government Community Cloud Mission Support</b>	<ul style="list-style-type: none"> <li>• ITAR</li> <li>• FedRAMP Mod</li> <li>• Security Control Inheritance</li> </ul>	<ul style="list-style-type: none"> <li>• Cost slightly higher than Public</li> <li>• Fewer services than AWS Commercial</li> <li>• Extension of FAA mission support network (FAA IPs)</li> </ul>	<ul style="list-style-type: none"> <li>• FTI</li> <li>• No Internet Access planned</li> </ul>	
<b>AWS Public Mission Support</b>	<ul style="list-style-type: none"> <li>• FedRAMP Mod</li> <li>• Security Control Inheritance</li> </ul>	<ul style="list-style-type: none"> <li>• Extension of FAA mission support network (FAA IPs)</li> </ul>	<ul style="list-style-type: none"> <li>• FTI</li> <li>• Internet accessible via TIC</li> </ul>	
<b>Azure Public Mission Support</b>	<ul style="list-style-type: none"> <li>• FedRAMP Mod</li> <li>• Security Control Inheritance</li> </ul>	<ul style="list-style-type: none"> <li>• Extension of FAA mission support network (FAA IPs)</li> </ul>	<ul style="list-style-type: none"> <li>• FTI</li> <li>• No Internet Access planned.</li> </ul>	
<b>AWS Public External</b>	<ul style="list-style-type: none"> <li>• FedRAMP Mod</li> <li>• Security Control Inheritance</li> </ul>	<ul style="list-style-type: none"> <li>• Internet accessible (Public IPs)</li> </ul>	<ul style="list-style-type: none"> <li>• Uses CSP internet, not via FAA TIC</li> </ul>	
<b>AWS Public</b>	<ul style="list-style-type: none"> <li>• FedRAMP Mod</li> <li>• <b>No Security Control Inheritance</b></li> </ul>	<ul style="list-style-type: none"> <li>• Internet accessible (Public IPs)</li> </ul>	<ul style="list-style-type: none"> <li>• Uses CSP internet, not via FAA TIC</li> </ul>	
<b>Under Consideration TBD Government Community Cloud NAS</b>	<ul style="list-style-type: none"> <li>• FedRAMP High</li> </ul>	<ul style="list-style-type: none"> <li>• FAA NAS Ops IPs and network</li> </ul>	TBD	



# NCIS Immediate Goals and Priorities

- **Cloud Services**
  - FCS architecture and interface documentation for deployment
  - Develop Service Model in support of future program cost planning
  - Develop AMS-compliant process for ‘Commoditized’ Service Catalog
- **EIM Service**
  - EIM architecture documentation for solution vendor integration
  - EIM Service interface documentation
  - Cost and Performance Model for future cost-estimation projections
- **Deployment and Operations Support**
  - Deployment and operations support for SWIM Cloud (SCDS)

Consolidated Plan		FY19 Q3	FY19 Q4		FY20 Q1				
Project Element	Activity	June	July	August	September	October	November	December	
Base	Build and test complete Sandbox environment	█							
	Develop and deploy catalog of re-usable services		█						
	Industrialize EIM deployment, synchronize EIM platform	█							
	Establish EIM Service (PaaS) for FCS				█				
	Develop FTI-like enterprise acquisition model	█							
	Engineering support for FAA programs seeking cloud benefits	█							
	Support programs prototype and testing in Sandbox	█							

