
*AFLCMC... Providing the Warfighter's
Edge*



Air Force Acquisition Update 2022

U.S. AIR FORCE

Department of the Air Force

Innovate, Accelerate, Thrive - The Air Force at 75

Agile Combat Support



**Ms. Lea Kirkwood, SES
PEO, Agile Combat Support
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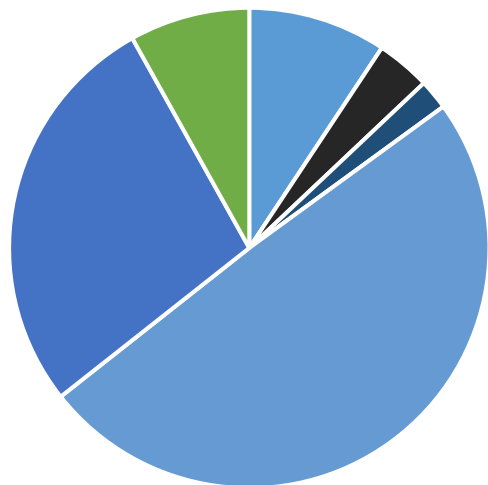


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Agile Combat Support Directorate



247 programs



- 23 - Acquisition Master List
- 9 - Developmental (non-ACAT)
- 5 - Middle Tier Acquisition
- 122 - Sustainment
- 68 - Foreign Military Sales
- 20 - Support

\$8.3B
active year funds

approx. **1,600** people

Provides:

- Auto Test Systems
- AFMETCAL
- Simulators
- Human Systems
- Electronic Warfare & Avionics
- Support Equipment & Vehicles



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ACS Impact



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Operational Imperative 7

READINESS TO DEPLOY AND FIGHT

SITUATION

The Department relies upon a wide range of supporting information systems and facilities, in the continental U.S. and overseas, to mobilize, deploy and support our forces in a major conflict. All of these dependencies can be targeted by a wide variety of threats, including cyber and kinetic threats.

CHALLENGE

The Department of the Air Force must analyze the entire mobilization and support chain to ensure the entire system is hardened against the threats we would expect an enemy to present, so we can meet our commitments to combatant commanders.

APPROACH

Deploying Airmen, Guardians, and the systems they employ takes a herculean effort. This imperative will identify priority gaps and vulnerabilities in the Department's ability to transition to and support current and projected operational plans in a contested environment.

OPERATIONAL IMPERATIVE 7





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Operational Test & Training Infrastructure

The Air Force requires a robust synthetic test and training capability, which enables realistic and high-fidelity test and training in a seamless and connected virtual environment. This capability must cross multiple generations of aircraft and associated training systems.

- Due to range constraints, threat replication and surveillance issues, advanced training must migrate to the synthetic environment to meet requirements
- OTTI Synthetic Test and Training Capability
 - Joint Simulation Environment
 - Simulator Concurrency and Distributed Training
 - Common Simulator Architecture
 - Policy

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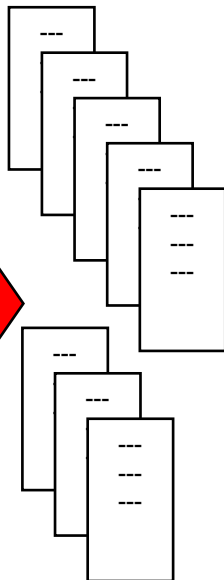


Digital Transformation

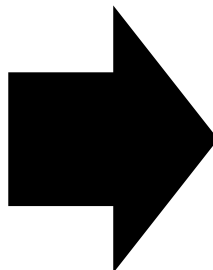
Document Based Systems Engineering (DBSE)



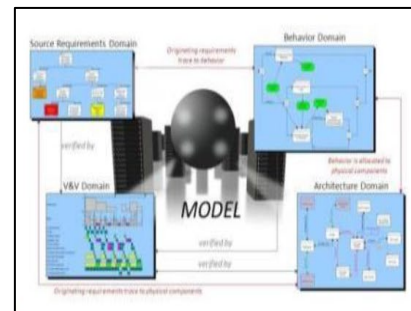
Manually
Develop &
Maintain



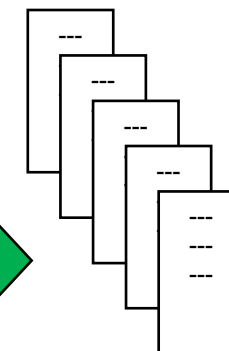
Digital Engineering
Transformation



Model Based Systems Engineering (MBSE)



Auto
Generate



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Digital Transformation Activities

- **145 programs in ACS have digital initiatives underway**
- **6 Major Pilot Pathfinder Programs ID'ed and roadmapped across our six divisions, including**
 - **Position Navigation Timing**
 - **Automatic Test**
 - **Training Systems**
 - **Ejection Seats**
 - **Munition Loaders**
 - **RF Microwave Calibration**
- **Robust 3D scan/print capabilities**
- **Artificial Intelligence**

Simulators Division

- **Simulator Common Architecture Requirements and Standards (SCARS)**
- **Lightweight Sims Ecosystem**
- **Remote Sim Instructor**
- **Simulators Logistics Product Support**
- **B-52 Training System**

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Summary



- **ACS is everywhere! Products and systems we manage are engrained in the *Airman* culture**
 - **Accelerate Change or Lose!**
- **Readiness underpins all the Operational Imperatives**
- **Moving to a *Digital Enterprise* is essential to stay relevant**

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Agile Combat Support



Every Airman... Every Mission... Every Day!



Simulators Division (AFLCMC/WNS) Update

29 November 2021

Col Matt "T2" Ryan
Senior Materiel Leader
Simulator Division



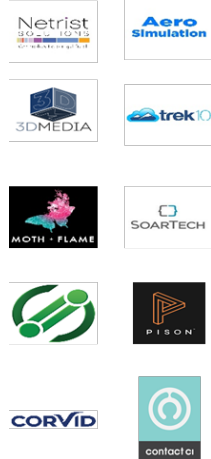
Recent Successes

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**SIMULATORS
PITCH DAY**
*Game-Changing
Training Technology*

10 SBIR Contracts
Concluded



E-4B - CymSTAR



C-130J MATS Reconfigurable Device – Lockheed Martin

Remote Sim Instruction - ASI



Man in the Loop Delivery



B-1 Non-proprietary cockpit - ASI

8,400 Training Events
26,635 Training Hours
1,800 Aircrews Trained
19,500 Personnel Trained

MAF DMO – HII
DMON – Northrop Grumman



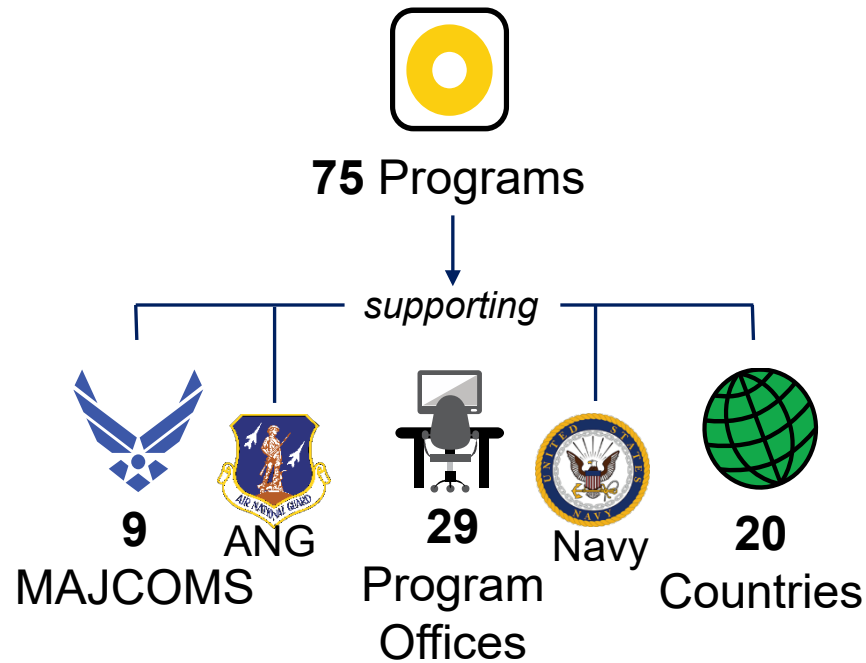
Simulators Innovation Lab





Simulators Snapshot

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575+ Members Strong

2,300+
Training Devices
Over 93% of the Air Force inventory

FY22

653 Contract Actions

\$3.4B Active Year
(includes \$1.5B for FMS)

667 Funding Documents





What Is Our Destination?

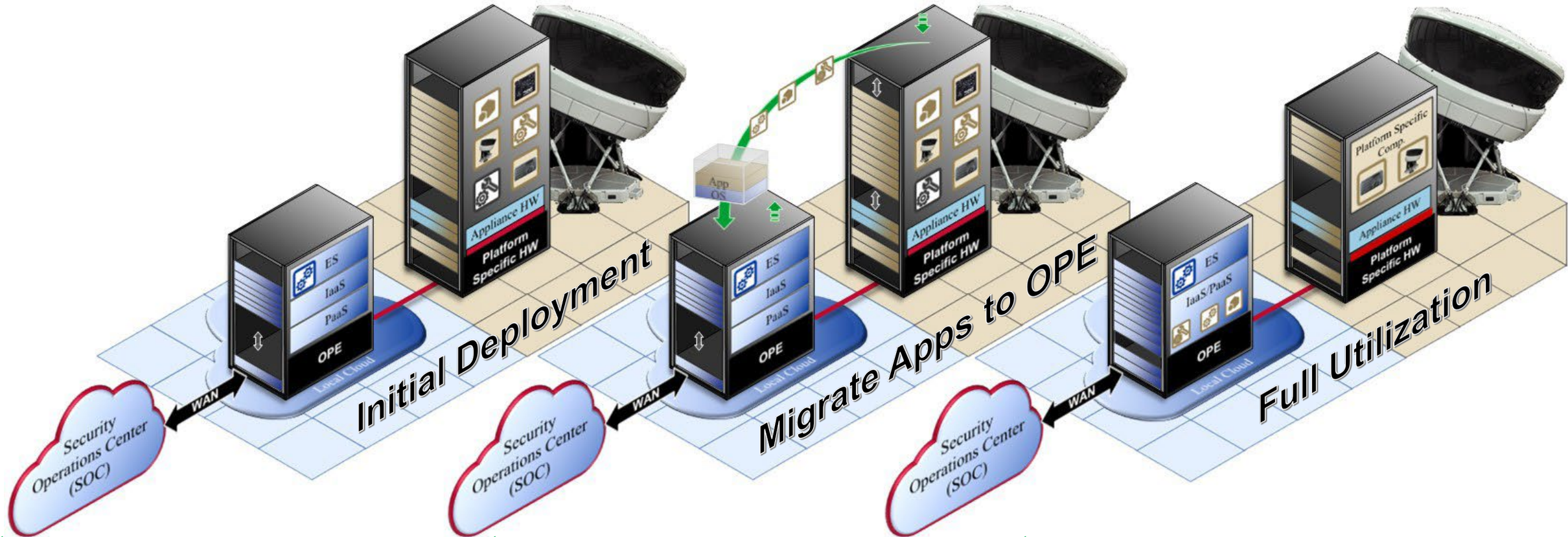
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- **AF OTI 2035 Flight Plan, circa 2017, provided framework and strategic lines of effort “to achieve and sustain full spectrum readiness”**
- **Simulators Division guiding efforts**
 - **Implementing Simulator Common Architecture Requirements and Standards (SCARS)**
 - **Supporting development and implementation of a common synthetic environment (Joint Simulation Environment)**
 - **Increasing the capability and interoperability of distributed training networks**
 - **Improving live training via injection of synthetic entities**
 - **Ensuring sufficient concurrency, fidelity, connectivity, and recapitalization of training systems**

SCARS Full Potential

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- ✓ Cyber-Secure Hybrid Cloud based Infrastructure Providing Centralized Operations & Services including baseline SCARS Library
- ✓ Local/Remote Cyber Security
- ✓ Local/Remote Sustainment
- ✓ Local/Remote Baseline Management
- ✓ MBSE Supported Design
- ✓ Multi Security Domain Support

- ✓ SCARS Digital Engineering Environment (DEE) with DevSecOps & MBSE Capability to TSSCs as an OPE
- ✓ Training System Reference Architecture
- ✓ App Development & Onboarding
- ✓ Expand SCARS library with approved open source Apps and common simulator Apps for reuse by multiple Platforms/Simulators

- ✓ Cyber-Secure Hybrid Cloud based Simulator with High Availability and Performance
- ✓ MOSA Compliant
- ✓ DEE Supported Simulator Common Architecture
- ✓ Continuous Development, Integration & ATO
- ✓ Populated with Common Synthetic Environment Services & Apps
- ✓ Minimum Platform Specific Hardware & Software

Standardization to Simulator Common Architecture



SCARS Status and Way Ahead



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- **18 SCARS partners on contract supporting standards development**
- **8 On-Premise Equipment (OPE) systems fielded**
- **Achieved IOC w/approved design and first scan**
- **SCARS Increment 1 and Increment 2 Standards complete**
- **Geospatial Data Repository – awarded in FY22, developing central repository of authoritative data for all USAF Ops Training**
- **Migrating sim applications to virtual machines and containers**
Defining government reference architecture for common types of training systems to support Increment 3 Standards
- **Collaborating w/AFRL to assess real time simulator performance for new architectures – which apps work best in VMWare and containers**



Joint Simulation Environment (JSE)



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- **What is Joint Simulation Environment (JSE):**
 - Operationally realistic, Digital Test and Training Range (DTTR) that provides environment for secure, relevant, and effective DT/OT/HEAT3 and experimentation for high-end fight of current and next gen weapon systems
- **Gaps filled by a common DTTR:**
 - Overcomes open-air range limitations for test and training
 - Provides high fidelity, integrated, operationally and tactically relevant test and training environment
 - Multiplies the value of digital trinity across lifecycle: concept experimentation, system development/test, employment training

CONCEPTUAL JSE VISION



SUPER SITE

- Highest fidelity platform representation with Man In The Loop (MITL)
- Highest fidelity electromagnetic and infrared spectrum battlespace
- Highest fidelity threat representation with MITL
- Highest fidelity representation of future domain simulation
- Support DT
- Supports OT / mission level assessments
- Supports high end, operationally representative training against densest threat population
- Supports tactics development



MISSION TRAINING CENTER

- Fidelity/density of blue, red, and environment dialed back a notch, but informed by “super site” fidelity and learning
- Smaller footprint, less hardware, and less MITL representation
- Prepares for joint/integrated training at “super sites”
- Reinforces learning achieved at “super sites” to maintain proficiency
- Represents opportunity for lower fidelity, “connected” / distributed training



DEPLOYABLE CAPABILITY

- Training solution scaled to laptop-sized
- Lower fidelity/density, all entities “constructive” except own ship
- Constructive behaviors informed by “super site” fidelity and learning
- Reinforces learning at other levels to maintain proficiency while deployed



Critical Enablers

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- **Continued maturation of Government Simulation Interface**
- **Direct future platform SPOs to provide JSE-compliant OFPs**
 - JSE vision/strategy to be developed, prioritizing DAF system implementation
- **Pursue Multi-Level Security enabled JSE → VTTC & OTTI Reqts**
- **Obtain Collaborative SW Development & Business Network**
 - Connects 412th, PAX, XA, VTTC, others
 - Common DevOps tools and processes
 - Common MBSE model



Government Simulation Interface (GSI)



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- **GSI is the gateway to JSE; government owned standard for model development**
- **GSI is how you will plug into the Global Reference Interface Domain (GRID)**
- **Other platforms/programs can get involved/work with JSE by building their products to this spec, or by building an adaptor for it**
- **Simulation Common Architecture Requirements and Standards (SCARS) Inc IV**



Data Products

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- **Multi-Level Security (MLS)**
 - Need in data stream MLS/ way to tag data in motion
 - Need MLS for brief/de-brief
 -
- **Learning Management Tool**
 - Need data collection standards
 - Use collected data for inputs to Learning Management System (LMS)
 - Metadata standard
 - LMS
 - Artificial Intelligence/Machine Learning with collected data as inputs
 - Output From AI/ML to drive proficiency of aircrew



JSE Program Management Concept

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- **AF SPO for JSE (AFLCMC/WNS) will:**
 - Manage development, integration and sustainment of new entities in a box (IABs) for AF
 - Manage development, integration and sustainment of compute infrastructure at AF test and training sites
 - Manage suppliers (organic and industry) for AF contributions to the JSE environment and core services
 - Manage the procurement, integration and sustainment of Human-Machine Interface (HMI) h/w (e.g., cockpits, domes, XR devices, etc.) at AF sites and for AF platforms connecting to Navy JSE operating sites
 - Manage JIAB product line in coord with Navy for AF requirements
- **JSE NAWCAD will:**
 - Continue as the lead system integrator for JSE baseline releases
 - Manage development, integration and sustainment for Navy contributions to the JSE environment and core services
 - Manage development, integration and sustainment of new entities IABs for Navy
 - Navy will manage the procurement, integration and sustainment of HMI h/w for Navy platforms



JSE Future Steps

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- **FY23-FY27**
 - **Finish F-35 IOT&E at NAS Pax**
 - **Stand up JSE SPO in WNS**
 - **Finish construction of JSE Edwards (DT) and JSE Nellis (OT)**
 - **Start test operations at Edwards/Nellis (F-22 pathfinder)**
 - **Complete phase 1 fielding of JSE at the VTTC**
 - **Begin delivery of phase 2 platform incorporation into JSE VTTC**
 - **Continuous development/modernization of environment and threats**



JSE and You

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- **Future products and devices must have commonality to connect to JSE**
- **JSE services require continuous development to keep pace with threats and technology**
- **Hi-fidelity (OFP-based) models of platforms and sensors required to fully leverage physics-based environment**



Simulators Division Leadership



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**DIVISION CHIEF /
SENIOR MATERIEL
LEADER**
Col Charles 'Matt' Ryan



**DEPUTY DIVISION
CHIEF**
Penny Mason



**CHIEF OF
ENGINEERING (EN)**
Kelly Navarra

DEPUTY
Jeff Pfledderer



**CHIEF OF
FINANCE (FM)**
Kristen O'Sullivan

DEPUTY
Bruce Comer

**CHIEF OF
LOGISTICS (LG)**
Richard Swain

DEPUTY
Joe Gerling



**CHIEF OF
CONTRACTING (PK)**
Christine Diehl

DEPUTY
Karen Palomaki



**AIR COMBAT
Branch Chief**
Stefan Crow

DEPUTY
Michael Hayes

EN – Susan Schemmel /
Craig Siefert / Barry Green
FM – Natalie Pickett
LG – Chris Covert
PK – Abby Hoefler

AWACS/Attack
Maj Anthony Maxie

Bombers/F-15
Maj David Meyn



**AIR MOBILITY
Branch Chief**
Greg McCan

DEPUTY
Rex Easley

EN – Barry Green /
Gernai Bledsoe
FM – Beth Truesdale
LG – Joe Gerling
PK – Richard Fries

Airlift
Holly Hogsett

Tankers
Rex Easley (Acting)



**SPECIAL OPS & AETC
Branch Chief**
Lt Col Abigail Ono

DEPUTY
Lt Col Blake Bradford

EN – Brian Woehrman /
Greg Enochian
FM – Josh Elliott
LG – Tonita Davis
PK – Shane Hemmerich

Special OPS
Lt Col Blake Bradford

Air Education
Vacant

Innovation Cell
Margaret Merkle



**OPERATIONAL TRAINING
INFRASTRUCTURE
Branch Chief**
Lt Col Drew Frazier

EN – Tom Casey/ Mike Baker
FM – Steve Heyl
LG – Christal Green
PK – Shane Hemmerich

Distributed Training Systems
Lt Col Bert Uhler

**Common Architecture &
Standards**
Scott Poznanski

Cybersecurity
Gary Coe



**OPERATIONAL TRAINING
ENVIRONMENT
Branch Chief**
Lt Col Drew Frazier (Acting)

DEPUTY
Johnny Clark

EN – Vacant
FM – Vacant
LG – Vacant
PK – Vacant

Joint Simulation Environment
Johnny Clark



**FMS
Branch Chief**
Doug Rogers

EN – Terri McBeth
FM – Eric Ellsworth
LG – Michael Baldwin
PK – Karen Palomaki

Fighter Programs
Tanya Hopson

Airlift / Tanker Programs
Vacant

New Business
Jesse Dewberry



**ANALYSIS &
INTEGRATION
Branch Chief**
Scott Cummings

EN – Jeff Pfledderer
FM – Vacant
LG – Vacant
PK – Karen Palomaki
T&E – Oliver Cook

Program Control
Nathan Stevens

Division Action Group
Kara Truelove



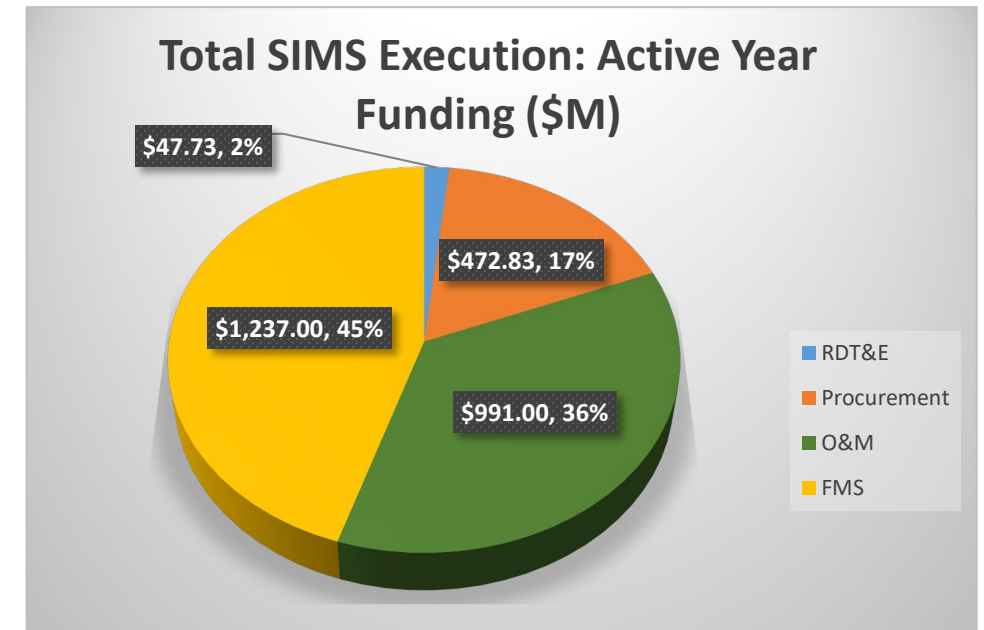
WNS Funding Profile

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- **WNS Active Year Funding**
 - FMS and O&M are the largest portion of budget
- **Air Force is prioritizing sustainment of those weapon systems which strengthen the fight, in accordance with the NDS**
 - Must be innovative with our sustainment of Sims
 - Look to requirements with greater ROI

Active USAF & FMS TOA: \$2.75B



How do we keep what we have relevant and ready?



WNS MAJCOM Funding & FYDP



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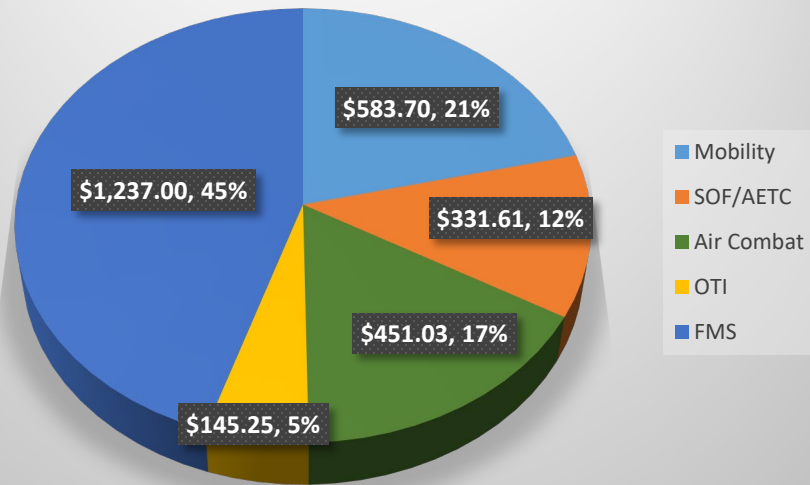
Active Year USAF (FY20 – FY22): \$1.51B

+ FMS Active Cases +\$1.24B

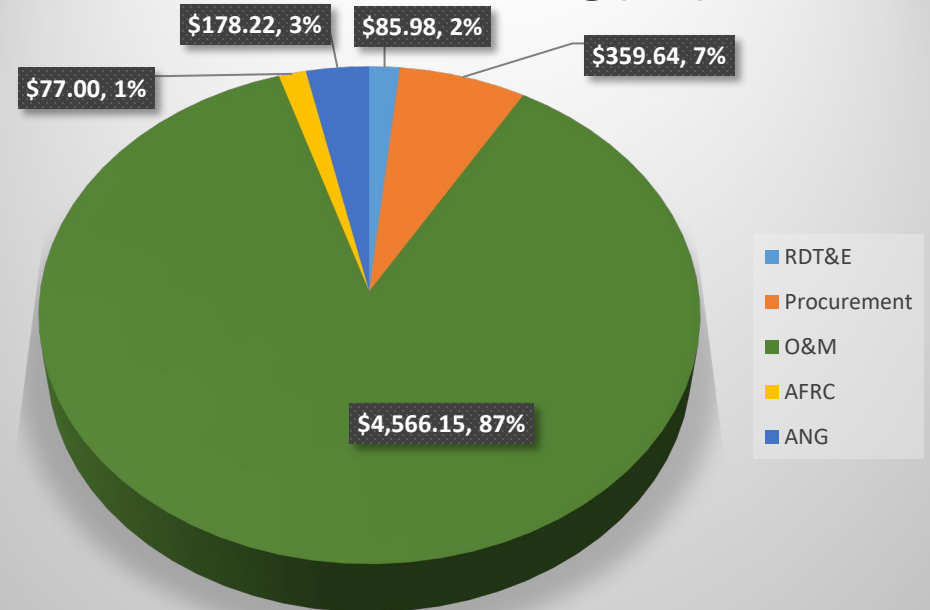
Active USAF & FMS TOA: \$ 2.75B

USAF FYDP (FY24 – FY28): \$5.267B

**Total SIMS Execution: Active Year
Funding (\$M)**



FY 24-28 Funding (\$M)





FY23 PPBES Calendar



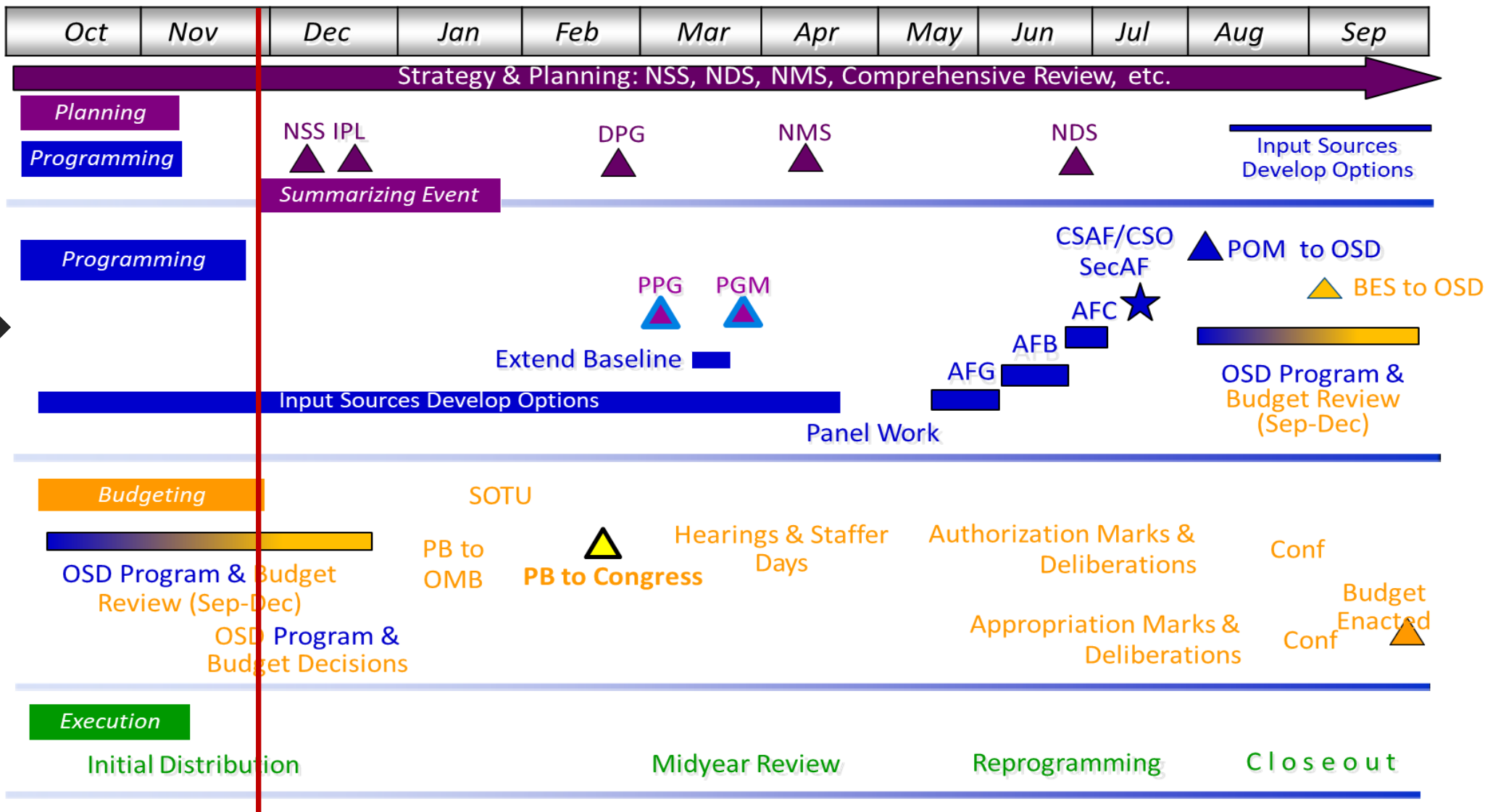
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FY26-30
Planning

FY25-29
POM

FY24
BES/PB

FY23
Execution





Engineering Priorities

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Support AF efforts in development of common standards/interfaces (Help us Help You)

- **Simulator Architecture Requirements and Standards (SCARS) working towards defining architecture standards for training systems.**
- **Expect to see standard architecture and industry standards requirements in future RFPs.**
- **Government Purpose Rights (GPR) and government-owned interfaces are key to achieving JSE desired commonality and interoperability.**
- **A government-defined interface (GSI) is in development, and we plan to add it to the architecture standard.**

Get serious about Digital Engineering and MBSE!

- **Looking at ways to tightly couple platform and training system models and provide updates simultaneously.**
- **Future RFPs will seek delivery of high-level functional models.**
- **Shifting to use models in all contracting actions from RFP to CDRLs**
- **We are using CAMEO products (v22).**



Accelerating Lightweight Sims

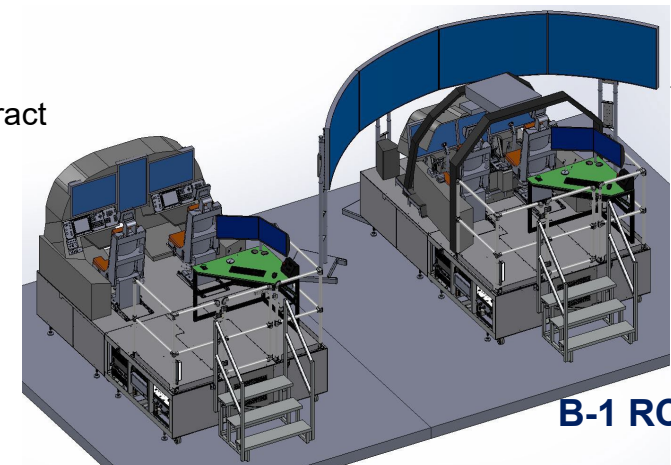


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- Legacy Sims are experiencing obsolescence, concurrency, and affordability issues
- AFGSC Future Training Concept envisions a Family of Systems for their platforms
- AFLCMC/WNS currently executing several efforts to meet AFGSC goals & requirements
 - Focus is OFP-based, non-proprietary technology to enable proficiency-based training
 - Increased Commonality
 - Reconfigurable hardware
 - PKI enabled devices
 - Efficient & Sustainable (\$)
 - Networked across platforms
 - **B-1 – Reconfigurable Cockpit Procedures Trainer (R-CPT)**
 - 2020 Pitch Day SBIR contract served as basis for contract to modify existing CPTs
 - Successfully demonstrated virtualization of aircraft OFPs and integration with COTS hardware
 - **B-52 – Mission Employment Trainer (MET)**
 - Phase III SBIR leveraging technology demonstrated in B-1 SBIR, initial risk reduction phase on contract
 - **B-2 – VR Maintenance Training System (MTS)**
 - Supplemental immersive training tool aimed at achieving higher training proficiency and transfer of skills compared to traditional instructional methods



B-1 VR-ATD



B-1 RCPTs



SOF & AETC Initiatives

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- **Remote Simulator Instructor**
 - Completed demonstration of prototype capability
 - 19 AF conducting Operational Assessment
 - Awaiting final requirements
- **Defense Innovation Unit Collaboration**
 - Partnership between rapid acquisition and SPO
 - Bridge projects into programs of record under PEO
- **Innovation Cell**
 - Continuing support of SBIR efforts
 - Working towards connecting innovation to needs across MAJCOMs
- **Kirtland Davis-Monthan Andrews Moody (KDAM)**
 - Better aligning requirements under focused contracts



WNS Near-Term Acquisitions



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2022

2023

2024

- T-1A GBTS
- T-38 GBTS
- Altitude Chambers
- MAF DMO

- (KDAM) RATS CLS/TSSC
- KDAM ATARS C&I
- TSA IV

- C-17 TS
- B-52 CLS/TSSC
- AWACS DRAGON FCTS
- AWACS FCT
- CAF DMO/DMON 3.0

KEY

Undecided

Nov 23 AWACS
DRAGON – May 24

Mar 23 – C-17 TS- Apr 24

Apr 24 – B-52 Legacy –
Oct 24

Roughly 25% of WNS USAF portfolio is sole source; 75% is competitive or undecided pending market research



Future WNS Acquisitions

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2025

- C-5 ATS
- C-130J MATS Production
- F-15 TDAS
- AFSOC ACTS
- ANG OTS
- T-6 GBTS

2026

- B-1
- B-2
- C-5 MATS
- C-130H ATS
- C-130J MATS TSSC
- F-15 MTC
- KC-46 ATS
- KC-46 MTS
- Spatial D
- E-4B

2027

- A-10 TS
- F-16 STP
- KC-10?
- KC-135

2028

- E-4B
- Alt Chambers
- MAF DMO?
- T-1A GBTS
- RATS CLS/TSSC
- KDAM ATARS C&I
- F-16 STP



C-17 TS

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Program Requirements

The C-17TS Sustainment contract will provide aircrew instruction (ATS only), courseware, ATS & MTS CLS, concurrency and obsolescence modifications, and training flights to produce certified aircrew members. CLS on ATSS also will include supporting the simulators in a networked DMO environment. This contract will also include ATS instruction of C-17 foreign partners on USAF devices. This task order may include the same services for Foreign Military Sales (FMS) case countries. Cybersecurity Risk Management Framework (RMF) requirements will apply.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES
*PENDING ASP Undecided	10 year Period of Performance End Date: September 2031	<div>SSS RFP Award</div> <div></div> <div>Mar 22 Mar 23 Apr 24</div>
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)
Organization: AFLCMC/WNS Name: Zachary McClellan Email: zachary.mcclellan.1@us.af.mil	Firm-Fixed-Price Contract and Cost Reimbursable CLINs	The Boeing Company (Boeing)



AWACS DRAGON FCTS

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Program Requirements

The Airborne Warning and Control System (AWACS) Diminishing manufacturing sources Replacement of Avionics for Global Operations and Navigation (DRAGON) Flight Crew Training System (FCTS) contract will provide CLS and TSSC support to three sims at Tinker AFB, OK. CLS and TSSC support consist of ensuring the training system is operational/available at 98%, maintaining multi-airfield VDB, configuration/data management, potential concurrency and obsolescence modifications, possibly establishing connection to the DMON, and may include drawdown or retirement; DMON and drawdown requirements still tbd.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES
-Pending ASP- Competitive Fair Opportunity Selection using TSA IV	1 year base 5x 1-year options End date: July 2030	<div>Draft FOPR ▲ Sep 23</div> <div>FOPR ▲ Nov 23</div> <div>Award ▲ May 24</div>
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)
Organization: AFLCMC/WNS Program Manager: Capt William Sousa Email: william.sousa@spaceforce.mil	\$ TBD Firm Fixed Price w/ Cost Reimbursable	CAE









B-52 Legacy Training Systems Sustainment CLS/TSSC

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Program Requirements

The Awardee will be tasked with providing CLS and TSSC sustainment services to the legacy B-52 Weapon System Trainer (WST). There will be no upgrades or updates made to the WSTs. The Awardee will also not be required to keep any developmental trainer in a ready state. Additionally, there will not be a requirement to support Distributed Mission Operations (DMO) related environments.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES									
<ul style="list-style-type: none">• PENDING ASP Competitive Fair Opportunity Selection using TSA IV	TBD – Acquisition Planning Underway	<table><tr><td>RFI</td><td>FOPR</td><td>Award</td></tr><tr><td></td><td></td><td></td></tr><tr><td>Nov 23</td><td>April 24</td><td>Oct 24</td></tr></table>	RFI	FOPR	Award				Nov 23	April 24	Oct 24
RFI	FOPR	Award									
											
Nov 23	April 24	Oct 24									
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)									
Organization: AFLCMC/WNS Program Manager: Michael Salyer Email: james.salyer.2@us.af.mil	\$ TBD Firm Fixed Price	ATC									



Key Take-Aways

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- **We value your partnership and appreciate your feedback as we work through execution challenges**
- **JSE is an Air Force priority program for a test and training environment**
- **Strategic goal to ensure SCARS is used to properly develop and implement JSE**
- **WNS has the expertise to develop *and* sustain the training environment of the future; however, we need to rebalance our portfolio to better support 21st Century Force training needs**
- **Near term focus: successfully execute SCARS and keep training systems relevant and ready in a challenging fiscal environment**



Key Take-Aways

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- **Budget increases are not keeping up with inflation**
- **Calendar years 2024-2026 will be Source Selection heavy**
- **Innovation Activities: User/Warfighter to incorporate new technologies into training programs**
- **Shrinking budgets = cannot fund everything**
- **SCARS can make training more affordable with common services/apps, and common h/w baseline**
- **Opportunity for light-weight sims to make training more affordable (family of targeted sims, JSE sites, LVC, etc.)**
- **Need to balance training device concurrency funding w/ other needs**





QUESTION AND ANSWER

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Simulators Program Execution



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