



# PEO *Training*





*AFLCMC... Providing What the Warfighter Needs When They Need It*



# PEO Training

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**Mr. Rodney Stevens, SES**  
**Program Executive Officer, Training**

**Mr. Jacob Miracle**  
**Technical Director, PEO Training**



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# ACQUISITION PHILOSOPHY

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## AIR DOMINANCE BEGINS HERE...



"We believe that our people are, and will continue to be, our nation's key competitive advantage. We are working to train our airmen and guardians to confront the brutal challenges that warfare without sanctuary presents. We are emphasizing readiness...."

Troy E. Meink, SecAF



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# ACQUISITION BY THE NUMBERS

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TRAINING ACQUISITIONS REPRESENT A BROAD LANDSCAPE OF DIFFERENT TYPES OF "THINGS..."



## PEO TRAINING

**BUDGET:**

# \$7.4+ BILLION

EN	PM	LG	PK	FM
COS	IP	NFA	DP	IN

**WORKFORCE:**

# 1,400+ PEOPLE

# 300+ PROGRAMS



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# TRAINING DIRECTORATE MISSION & VISION

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## TRAINING DIRECTORATE

### AIR DOMINANCE BEGINS HERE!



**T-7 RED HAWK**  
WRIGHT-PATTERSON AFB



**ADVANCED TRAINING CAPABILITIES**  
HILL AFB - WRIGHT-PATTERSON AFB



**LEGACY TRAINING AIRCRAFT**  
HILL AFB - TINKER AFB - WRIGHT-PATTERSON AFB



**SIMULATORS**  
WRIGHT-PATTERSON AFB

**Mission:** Develop, deliver, and sustain integrated training capabilities to enable war-winning airpower.  
**Vision:** To be the trusted provider of adaptive and innovative training capabilities - on target, every time.

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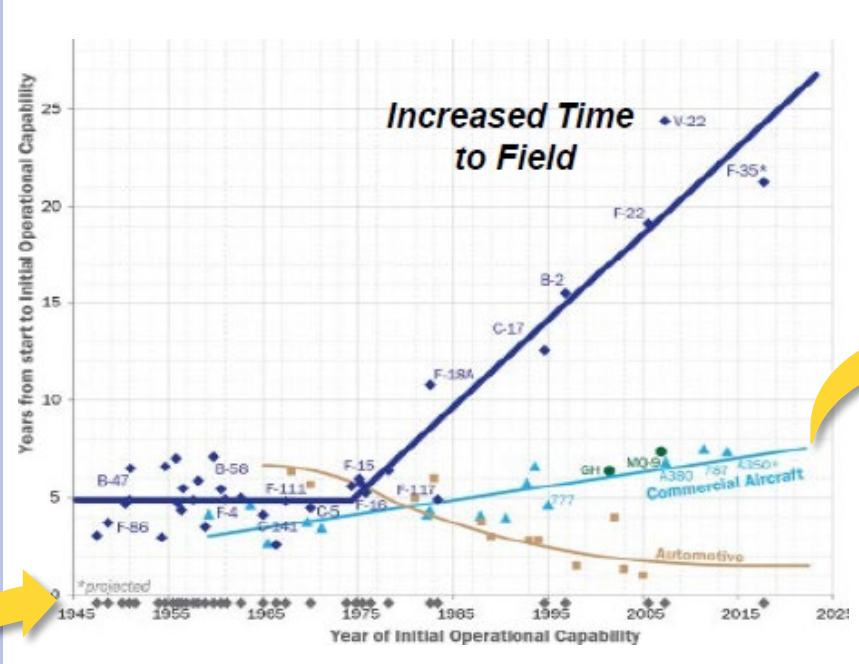
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# THE CHALLENGE WE HAVE

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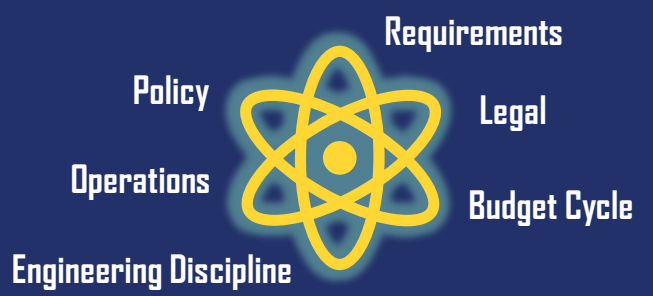
**Congress uses the PPBE process to hold the DoW accountable...**



**...This has driven the USAF to Platform-centric thinking**

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**We need a new way of harnessing Acquisition Physics to deliver integrated capability at pace and scale required to maintain military superiority.**





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**THE CHARACTER OF WAR**  
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The character of war is evolving...



adversaries have reshaped the environment...

to maintain our dominance, so must the USAF

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**WHAT ARE WE GOING TO DO?**

An "Operations" culture within the Department of the Air Force  
Alignment with the Defense Industrial Base (DIB)

**HOW ARE WE GOING TO DO IT?**

Mindset shift for Acquisition Strategies





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# CULTURE DRIVES RESULTS

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**SOLVE THE OPERATIONAL PROBLEM FROM FORCE DESIGN**

**OPERATIONAL SOLUTIONS**

**FORCE DESIGN**

**BUSINESS DEAL**



**Acquisition MUST be more than just a business deal – it's about Mission outcomes.**

## T-7 RED HAWK

*FROM RED TAILS TO RED HAWKS*

## LEGACY TRAINING AIRCRAFT

*THE ALPHA & OMEGA OF AIR POWER*

**CULTURE DRIVES RESULTS**

## ADVANCED TRAINING CAPABILITIES

*DELIVERING THE SKILL TO KILL*

## SIMULATORS

*SHARPENING THE WARFIGHTER'S BITE*

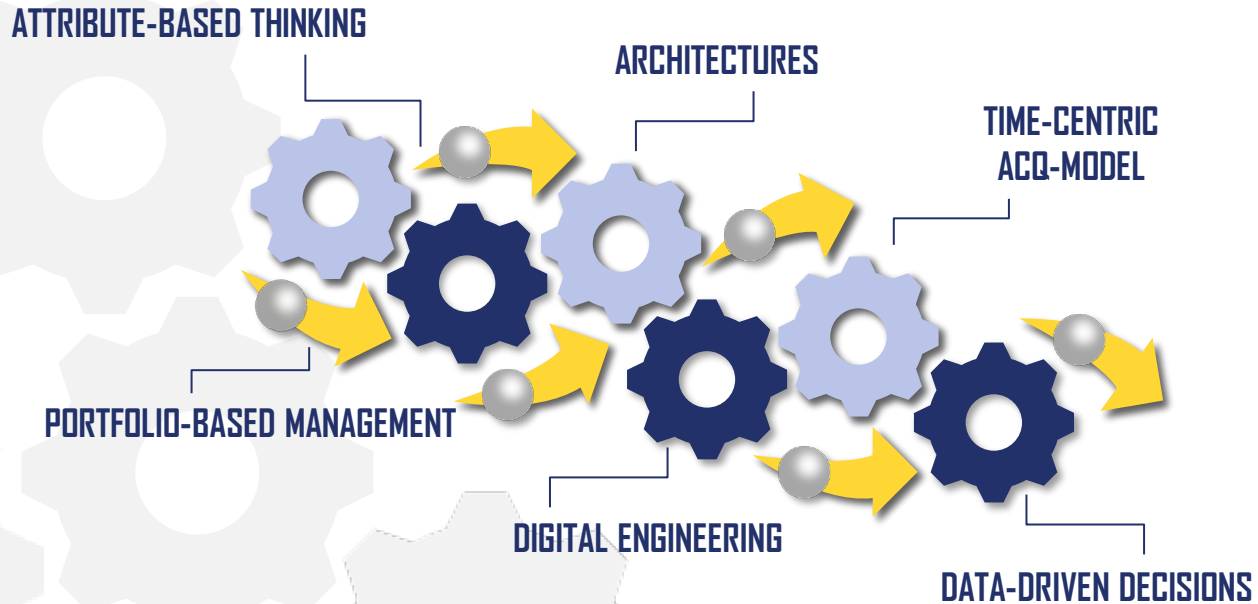


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# ORGANIZATIONAL INITIATIVE

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## MECHANIZING ACQUISITION TO WIN



## ESTABLISH TRAINING INTEGRATION OFFICE (TIO)

- ARCHITECTURES
- TRAINING 2035 VISION
- INTEGRATION ROADMAPPING
- SCALING AI

## OBJECTIVES & DELIVERABLES

- TRAINING 2035 ROADMAPPING
- COMMON SIMULATOR BASELINE
- INTEGRATION OF AETC, FUTURE UPT, TRAINING NEXT
- INDUSTRY OUTREACH (INDUSTRY DAYS, CRADAs, CONSORTIUMS, ETC.)

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# TIO INTRODUCTION

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## TAGLINE:

Inform. Integrate. Proliferate.

## MISSION STATEMENT:

"Integrating the training enterprise to forge a common, interoperable, and future-focused training ecosystem."

## HOW TO CONTACT US:

[AFLCMC.WN.TrainingIntegration@us.af.mil](mailto:AFLCMC.WN.TrainingIntegration@us.af.mil)

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# WHY A TIO?

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## REALIZING/ACCOMPLISHING LONG-TERM PLANS REQUIRES:

- Establishing a plan with our organization and stakeholders
- Dedicated focus, monitoring & steering towards accomplishing those plans
- A team to fill the gap

## THE TIMING IS RIGHT

- At a critical intersection of key programs and technologies/standards:
  - Key Programs: JSE, SCARS, LMOC, Training Networks, Various Training Devices
  - Key Tech/Standards: Open Architectures (DMS/UCI, et al), GSI, VMs/Containers, Cloud, XR, AI
- We have new opportunities under Acquisition Reform
- Readiness is more important than ever

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# TRAINING 2035 VISION

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## DETAILS OUR CURRENT STATE

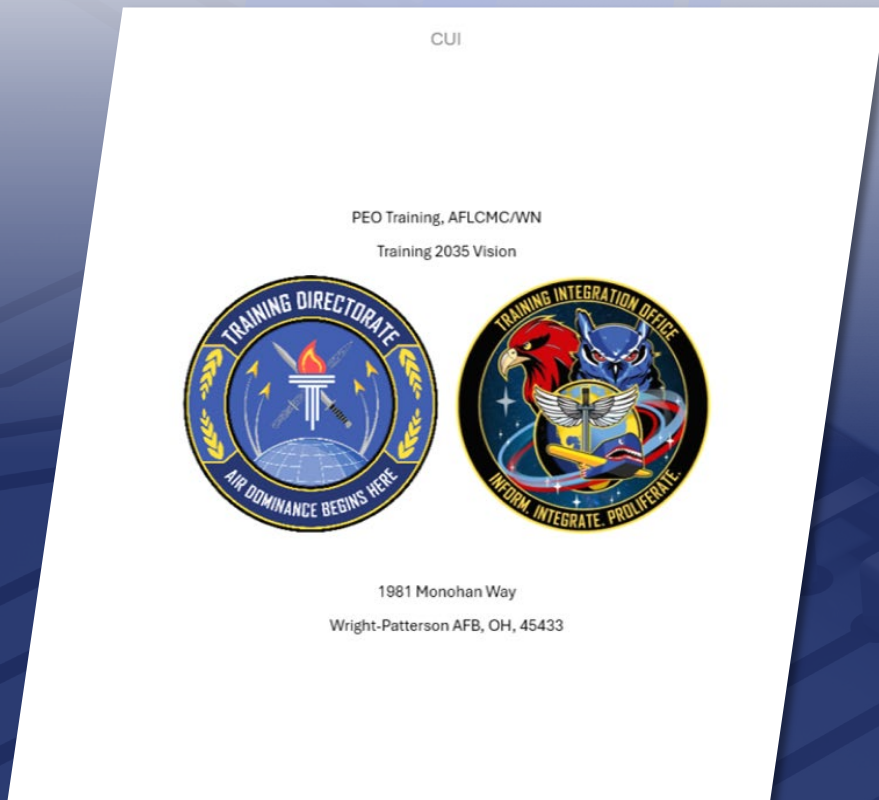
- Background

## CAST A VISION FOR THE FUTURE OF TRAINING

- Mission Focused Goals
- S&T Insertion Priorities
- Key Standards & Interfaces

## COMMUNICATES VISION-ACCOMPLISHING STRATEGY

- Acq Reform Guidance\*
- Enforcement of Standards



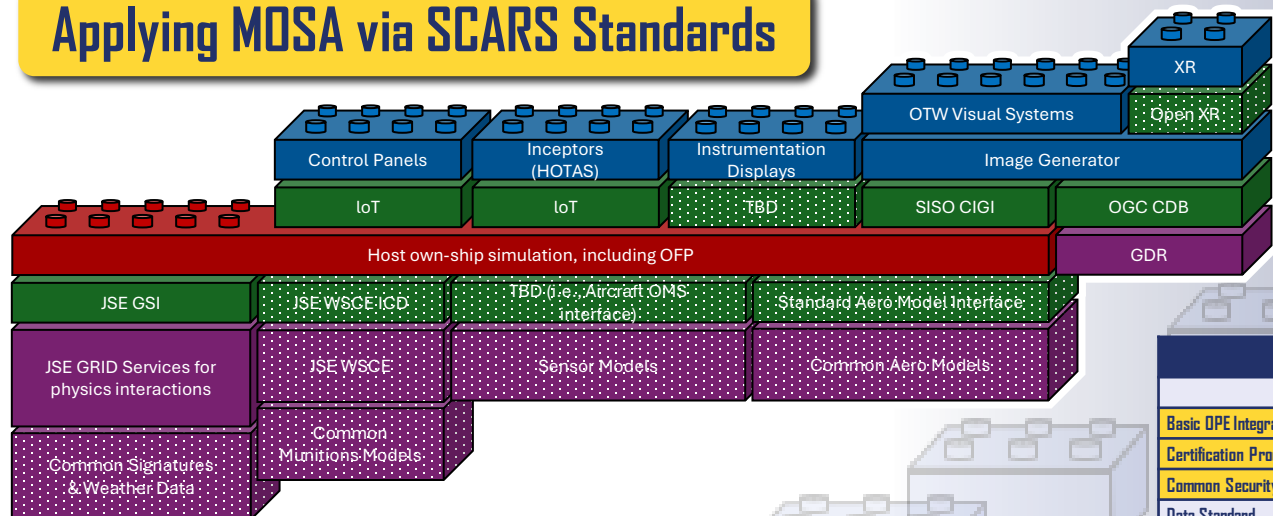


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# SCARS STANDARDS

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## Applying MOSA via SCARS Standards



## SCARS STANDARDS ROADMAP

Platform Program Office responsible for prioritizing integration of SCARS Standards into platform sustainment plan. SCARS Integration IPT provides support and coordination for implementation.

MOSA allows for competition & reusable components/data, driving lower long-term sustainment costs.

- Simulator Modular Human Interface Components
- Standard Interfaces and Data Formats
- Core Simulation
- Reusable Code and Components from SCARS Library
- To Be/Future Development

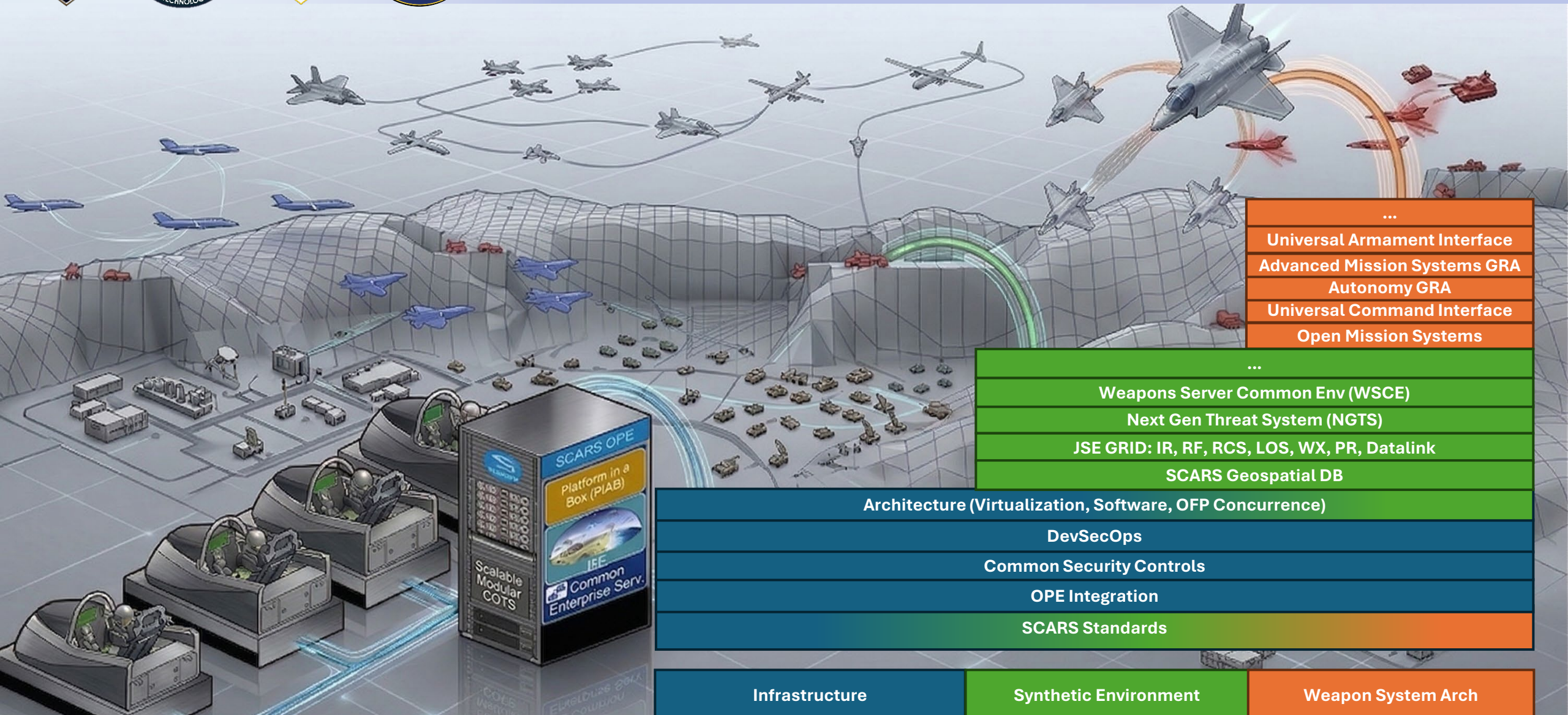
STANDARD	2021	2022	2023	2024	2025	2026												2027	2028
						J	F	M	A	M	J	J	A	S	O	N	D		
Basic OPE Integration Standard*	▲																		
Certification Process Standard*	▲																		
Common Security Control Standard*	▲																		
Data Standard	▲																		
WNS MBSE Style Guide	▲																		
Geospatial Data Specification			▲																
Flight Dynamic Model Data Standard																			△
Application Certification Standard	▲																		
DevSecOps Standard			▲																
Architecture Standard				▲															
Virtual Applications				▲															
Virtual Networks				▲															
Operational Flight Programs (OFP)				▲															
Global Reusable Interface Domain (GRID)					▲														
Image Generation				▲															
Extended Reality Interfaces				▲															
Remote Simulator Instructor					▲														
Standard Integrated Mission Planning Tool											△								
Standard Requirements for Debrief Software											△								
Standard Munition Modeling (WSCE)													△						
Aircraft GRA Interfaces for Simulators (OMS & UCI)													△						
Common Sensor Pod Model																			△

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# VIRTUAL COMMON SIM BASELINE – REFERENCE ARCHITECTURE

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- ...
- Universal Armament Interface
- Advanced Mission Systems GRA
- Autonomy GRA
- Universal Command Interface
- Open Mission Systems

- ...
- Weapons Server Common Env (WSCE)
- Next Gen Threat System (NGTS)
- JSE GRID: IR, RF, RCS, LOS, WX, PR, Datalink
- SCARS Geospatial DB

- Architecture (Virtualization, Software, OFP Concurrency)
- DevSecOps
- Common Security Controls
- OPE Integration
- SCARS Standards

Infrastructure

Synthetic Environment

Weapon System Arch



# VIRTUAL COMMON SIM BASELINE REF IMPLEMENTATION

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A unified simulator baseline 'reference architecture implementation' that incorporates SCARS OPE, JSE Technical Baseline, & Open System Architectures → A toolkit for Government & Industry

## Attributes for Success

# ↓	Attribute Short Description	Importance	Notes
1	A set of software / digital engineering products that exemplify / embody how to implement the "Common Simulator Baseline"	Must Have	Simulator Software, Virtual Local Area Network Configuration, MBSE System Model (optional)
2	Runs on Simulator Common Architecture Requirements & Standards (SCARS) On-premises Equipment (OPE)	Must Have	
3	Includes a virtualized, modularized, containerized simulator application.	Must Have	Targeting use of Advanced Simulation Platform for Experimentation (ASPEX)
4	Full compliance with Joint Simulation Environment (JSE) Government Simulation Interface (GSI)	Must Have	
5	Implements to be selected relevant aircraft open architecture standards: OMS, UCI, AMS-GRA, A-GRA, or others	Must Have	Targeting OMS, UCI, and A-GRA to start.
6	Government owned, releasable to industry (Distro D)	Must Have	

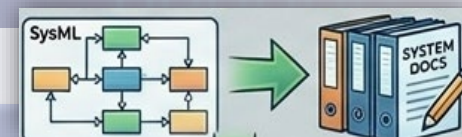
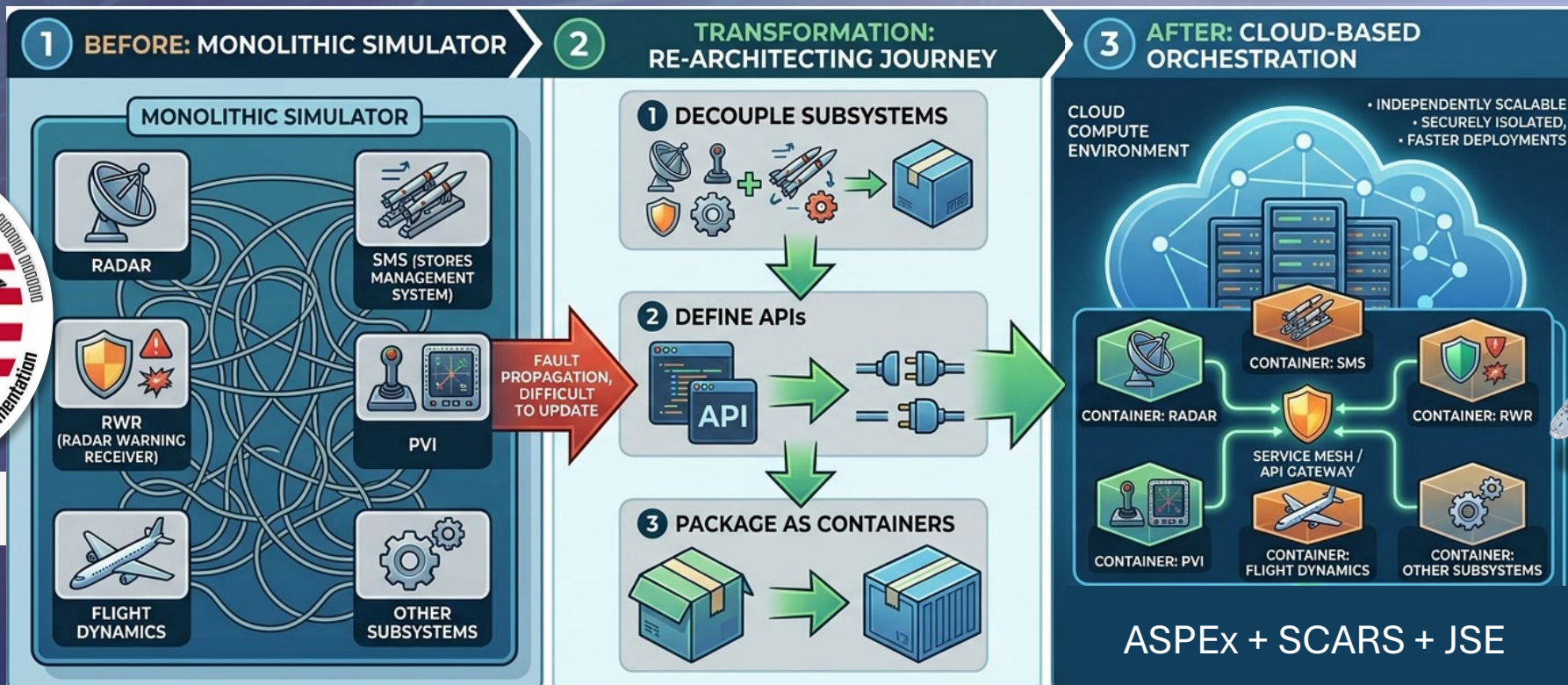
# DESIRED OUTCOME

# VIRTUAL COMMON SIM BASELINE REF IMPLEMENTATION

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AFSC/SWX



VCSB-RI

- OMS
- UCI
- AMS-GRA
- A-GRA
- JSE GRID
- SCARS







# GENERATIVE AI FOR PEO TRAINING WORKFORCE

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## APPLICATION OF AI AGENTS TO SUPPORT

- Acquisition Workforce
  - GenAI & Envision based solutions
  - Bespoke Solutions for Niche Functions
- PEO Training Business Processes
  - MS CoPilot Integration (soon...)

## WE WANT TO COLLABORATE WITH YOU

- TIO AI Cross-Talk Forum – Doug Patton
- Provide Your Use Cases
- Demo Your Agentic Creations

## CONTACT US

AFLCMC.WN.TrainingIntegration@us.af.mil

Open in Agent Des.

### P PEO Training Strategic Decision and Document Authoring Agent

Assists in strategic decision-making and document authoring by synthesizing military strategy, PEO/PAE objectives, and technical documentation. Also can...



Which open architectures should we be considering for adoption...

Tell me what you know about ARTS-v3.

What are the benefits to integrating JSE and LMOC?

Ask PEO Training Strategic Decision and Document Authoring Agent

+ 0 of 1

Generative AI may display inaccurate information, including about people, so double-check its responses.



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# AI S&T OPPORTUNITIES

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**Training AI Models / Agents as Aggressor Pilots**

**AI for Computer Generated Forces**

**Role-playing / Voice Response**  
Various industry demonstrations of this capability

**Student Assessments**  
AI evaluation of simulation data for assessing student performance

**Instructor Automation**

**Endless Other Opportunities**

**What does the industry think moves the needle for operational training?**

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# OPEN ARCH RESOURCES

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<https://github.com/modular-af/DMS>



## OPEN MISSION SYSTEMS

Accelerating Integration and Interoperability



UNIVERSAL COMMAND AND CONTROL INTERFACE



<https://github.com/modular-af/UCI>

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# QUESTIONS?

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**CONTACT THE TIO**

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