



Simulators Division (AFLCMC/WNS) Update

16 June 2021

Col John Kurian
Senior Material Leader
Simulator Division



2021 SUCCESSES



AFLCMC... Providing the Warfighter's Edge



KC-135 Contract Award - CAE

SIMULATORS PITCH DAY



*Game-Changing
Training Technology*

10 Contracts Awarded



T-53 ATD Device Delivery – Frasca



F-16 Balad, AB Iraq Device Delivery – L3 Harris



JTC TRS Contract Award – LINK, L3 Harris



C-130J MATS Device Deliveries – Lockheed Martin



ACCELERATE CHANGE OR LOSE

How it relates to Simulators Division and You

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**General Charles Brown,
Air Force Chief of Staff**

- **Uncontested USAF Dominance is not Assured**
 - How should training architectures evolve to ensure success in any high-end fight?
- **Good Enough Today will Fail Tomorrow**
 - Simulator Common Architecture Requirements and Standards (SCARS)
 - Common Synthetic Training Environment (CSTE)
 - Digital Engineering
- **We must Collaborate Within and Throughout to Succeed**
 - Scale and sustain innovation initiatives
- **Empowered Airman can Solve any Problem**
 - Trust the Members to 'Run with Scissors'
- **Consequences of Failure – and Success – are Profound**



SIMULATORS DIVISION VISION



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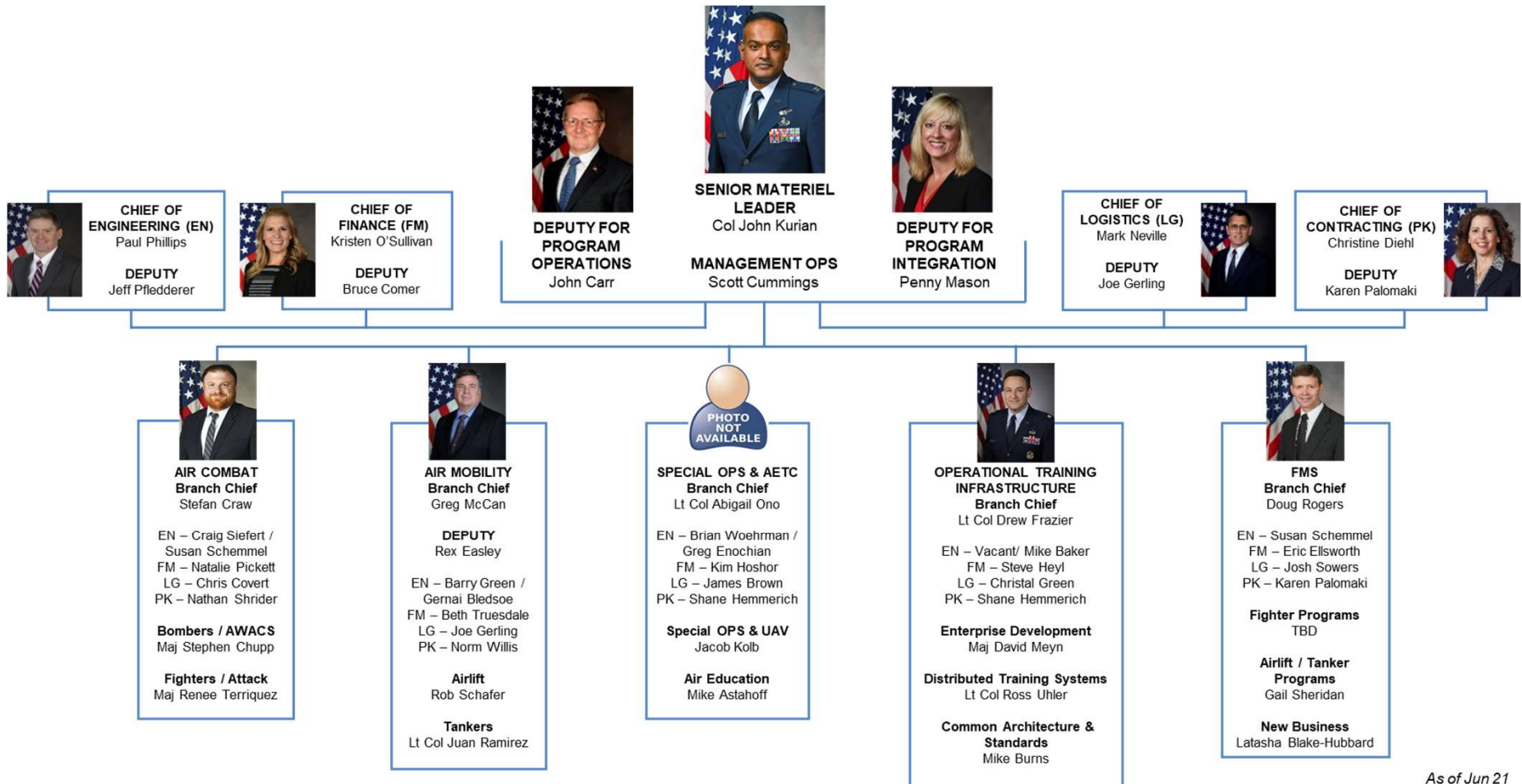


- **Move from command segregated missions scenarios (stovepipe) to a joint warfighter environment**
 - Massive multiplayer option—simulate entire AF going to war
- **Enable Train-How-We-Fight vision**
 - Multiservice, multinational
 - Fully live virtual integrated, full spectrum missions
- **The Center of Excellence for Simulators**
- **Go Faster Smarter** (AI, VR, quick innovation, new Ctr approaches)
 - Innovation Cell
 - Partner w/ AFRL, DoD Agencies, small business, non-traditionals, Sister Services
 - Explore new game-changing technologies to enhance readiness



SIMULATORS LEADERSHIP

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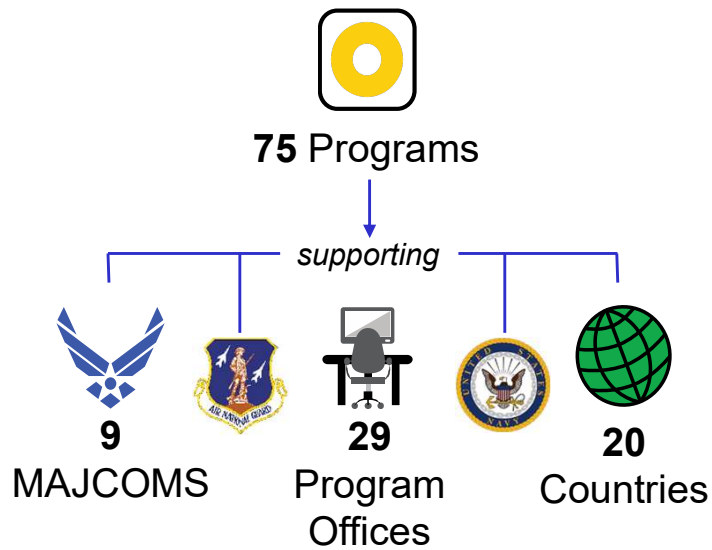
As of Jun 21



SIMULATORS SNAPSHOT



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560+ Members Strong

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

FY20

615 Contract Actions

\$2.98B Active Year
(includes \$1.4B for FMS)

788
Funding Documents





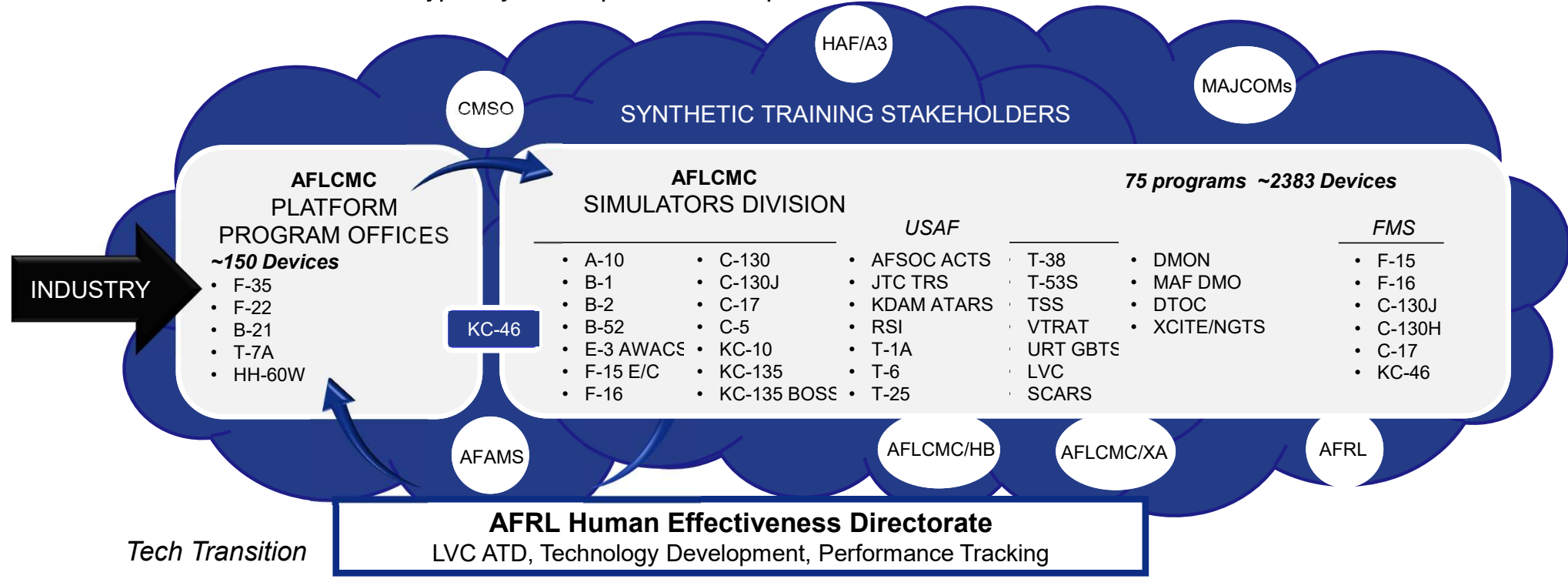
SYNTHETIC TRAINING ENVIRONMENT



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Typical Air Force Simulator Program Lifecycle

**Sims typically developed with new platforms then transition to Sim SPO*



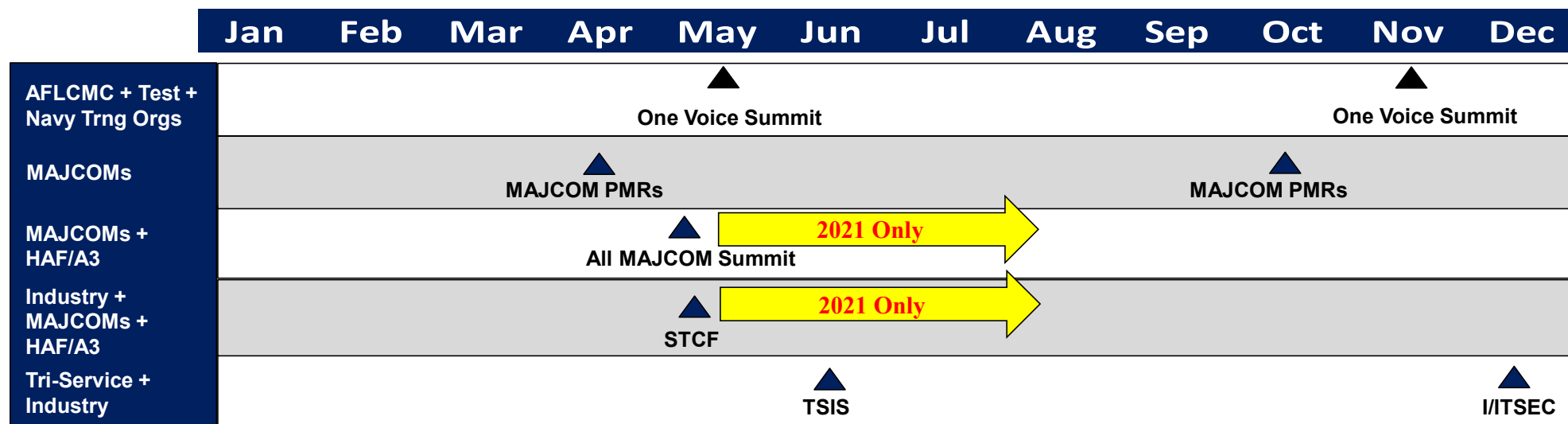
Large Portfolio Touching Virtually Every Aspect of our Warfighters Training Environment



SIMULATORS MEETING RHYTHM



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I/ITSEC = Interservice/Industry Training, Simulation and Education Conference
 OTI = Operational Training Infrastructure
 PMR = Program Management Review
 STCF = Simulation & Training Community Forum
 TSIS = Training & Simulation Industry Symposium



ACHIEVING “UNITY OF EFFORT”



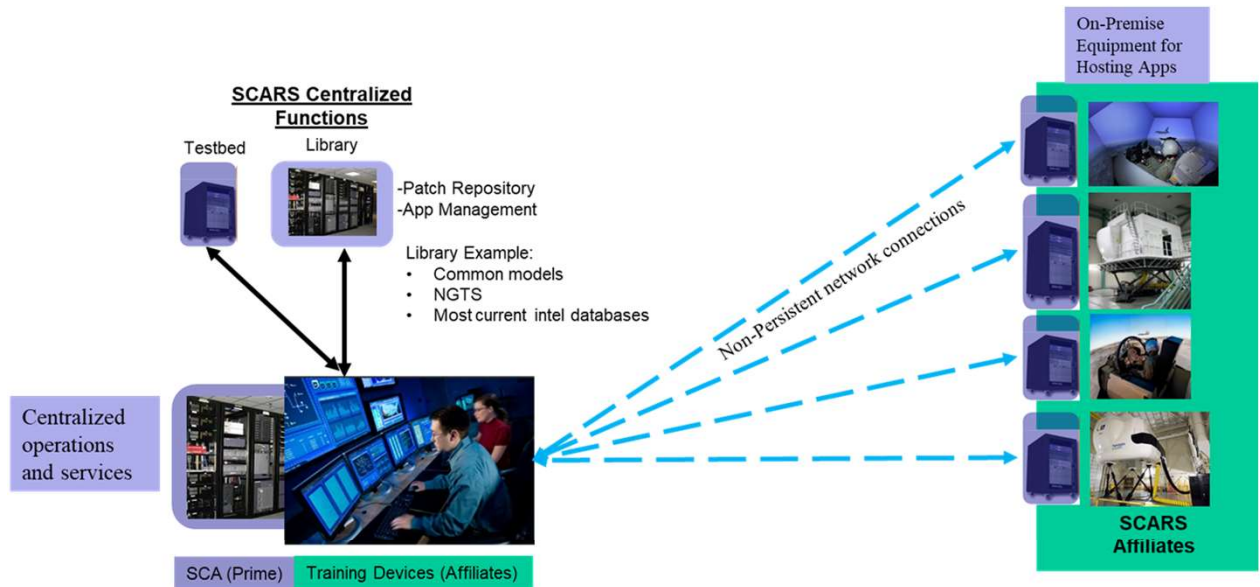
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- **AF Modeling and Simulation Executive**
 - Effectively synchronize USAF and USSF investments in M&S
 - Lead strategic efforts to reduce costs, shorten schedules and expand capabilities such that DAF readiness is improved to defeat current and future threats
- **AF Operational Training Infrastructure 2035 Flight Plan**
 - Establishes imperative to train as we intent to fight and 12 lines of effort to provide relevant and realistic operational training environment
- **Collaboration Forums**
 - Operational Test and Training Cross Function Team (HAF/A3 Led)
 - MAJCOM Summit (Simulators Division Led)

SCARS INITIATIVE

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- SCARS is a sustainment initiative to apply enterprise management across the AF Training Systems
- Incrementally establish a common open-systems architecture governed by defined standards
- Operational Training Infrastructure (OTI) end state with SCARS – well known standardized security baseline and common DMO Mission rehearsal baseline (same threat signatures & constructive models)
- SCARS Increment 1 (FY21) – establishes core infrastructure (centralized and edge components), cybersecurity controls, and digital engineering
- Future SCARS Increments – cross domain security, common electronic warfare environment, common constructive threat environment, standardized communication protocols





INDUSTRY AND SCARS



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- **For the contractors who have contractual requirements to support the SCARS Engineering Capabilities Board, these are the primary areas where the Government needs help from industry**

- Present ideas to the SECB for incorporation into SCARS Standards
- Pitch ideas for pathfinder projects for studies, prototyping and testing
- Support the SCARS Standards Maintenance Process to evolve the ideas for incorporation into the standards
- Provide SCARS Affiliate services as specified in the SECB Charter (2 Feb 2021). Meeting attendance alone does not meet requirements.

- **OPE Rollout Schedule, tentative**

	FY21 Q4	FY22 Q1	FY22 Q2	FY22 Q3	FY22 Q4
Air Combat	1	2	3	4	4
Mobility		2	1	5	8
AFSOC				4	2

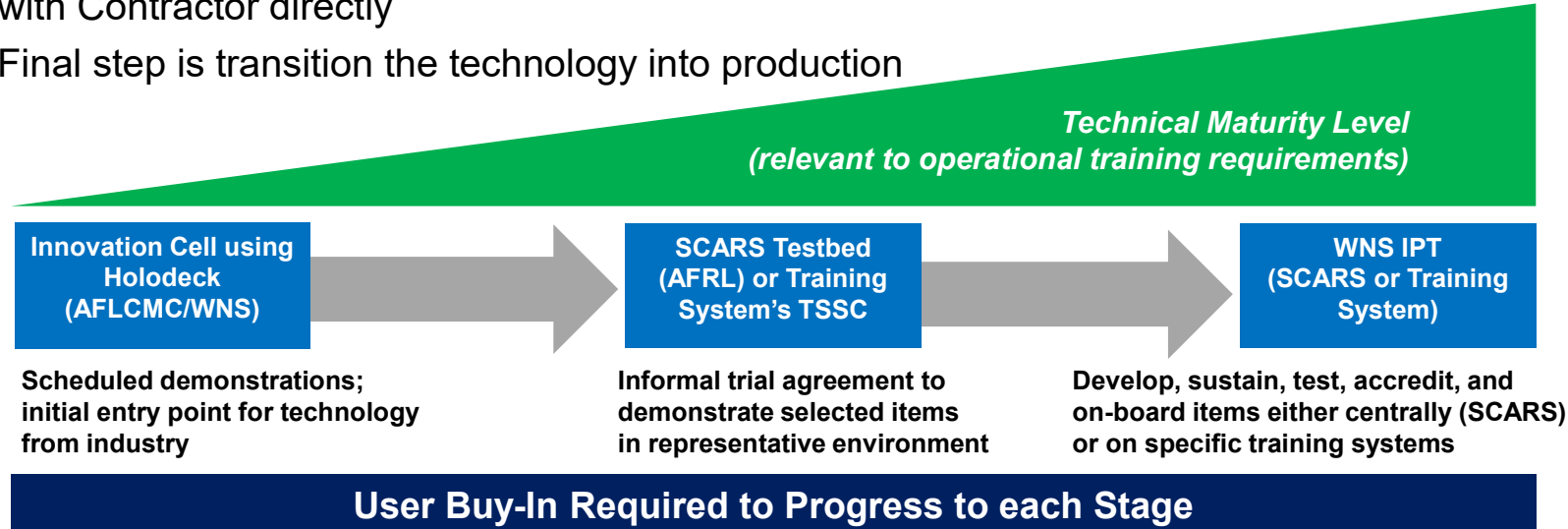


SIMULATORS INNOVATION CELL



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- **Goal: Provide repeatable process for Industry (Large and Small) outside of existing WNS contracts to demonstrate technology/products to WNS and user community**
 - Initial Demonstration of technology in Innovation Cell's Holodeck
 - If promising, proceed to the AFRL Testbed for more detailed look
 - WNS could either request Affiliate contractor develop the technology or could have AFRL work with Contractor directly
 - Final step is transition the technology into production





U.S. AIR FORCE



ATO PROCESS

“compression of implementation...”

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- **Compliance to SCARS common control standards will reduce ATO documentation**
- **USAF is consolidating the number of Authorizing Officials across the Training System Classification boundaries**
- **DevSecOps will fulfill a number of cybersecurity controls necessary to onboard applications to the SCARS Evaluated Products List (EPL)**



FMS PARTNERSHIPS

"Speed of Change"

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- **Simulators Division New Business Office**
 - Dedicated to developing simulator capability for international partners
 - Experience with FMS processes and awareness of industry capability
- **Success in combining like country requirements into one contractual vehicle to reduce cost to partnering countries**
 - Combines aspects of both bilateral FMS and Cooperative Development Efforts
 - Countries will only pay a portion of the development cost and receive the end capability within a typical FMS Period of Performance



VR/MR/AI ROLE IN THE FUTURE



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Inside the Air Force's Next-Generation of Pilot Training
youtube.com

- **Virtual Reality**

- Many Aircrew training devices are currently using AR training modules, particularly for immersive, familiarization training tasks early in the curriculum
- Pilot Training Transformation is exploring the use of VR in the training curriculum
 - Pilot Training Next has already implemented
- Simulators Division is exploring how VR capabilities can be used as part of the spectrum of training devices
- Providing lower cost immersive training devices to supplement the high-fidelity simulators

- **Artificial Intelligence**

- Predictive analytics to refine training content for individual students
- Virtual instructor to analyze student performance and give feedback
- AI controlled virtual entities that play other roles in a training scenario

- **Simulators Division is working on a number of training projects involving these elements with different training units and MAJCOMs**

Industry Challenge: How to scale and sustain innovation initiatives



WORK ENVIRONMENT & THE FUTURE



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- Telework/Hybrid work environment still in flux
- Technology is critical enabler
 - Need for VPN with appropriate and robust bandwidth
 - Software tools that are current and compatible with Industry
- Leadership focus: **Staying Connected**
 - Extra effort by Team and Supervisors to connect
 - Onboarding can be challenging
 - Collaboration and teaming is possible in this environment



UPCOMING EVENTS

16 JUNE
PEO/Director's All Call
ZoomGov
1300 - 1400

21 JUNE
AETC Branch Change of Leadership
ZoomGov/Lobb. Conf Rm.
1200 - 1300

24 JUNE
Simulators All Call
ZoomGov
1300 - 1500

2 JULY
Family Day
All Day

5 JULY
Independence Day Obs.
All Day



DIVERSITY & INCLUSION

You're invited to
COFFEE & CONVERSATION
with the Diversity and Inclusion Book Club

June 29, 2021
8:30am

WORTH 1,000 WORDS

May I just say, ya'll don't mess around! The it than by turning this weeks edition of the Scoop
Simulators Division hit the ground running this in a Picture Book. Besides, it's Friday and we've
month at full force! All systems go and firing at read enough for the week. Plus a one picture's
top speed. So much has happened this first part of worth is going for about 1,000 words these days
June that there really is no better way to capture which is roughly the length of our newsletter.

CMSAF BASS VISIT TO SIMS



A HELLO



Lt Col Fraizer took over as the new OTI Branch Chief

SELECTION



MSgt(S) David Gibson

A FARWELL



MSgt Veronica Tannery briefing CMSAF Bass

25,000 PUSH-UPS



(L to R) Capt Henry; Lt Col Usher; Capt Conway; 1 Lt Hausler

PROMOTION



Lt Col Joanne Farwell lunch

PROMOTION



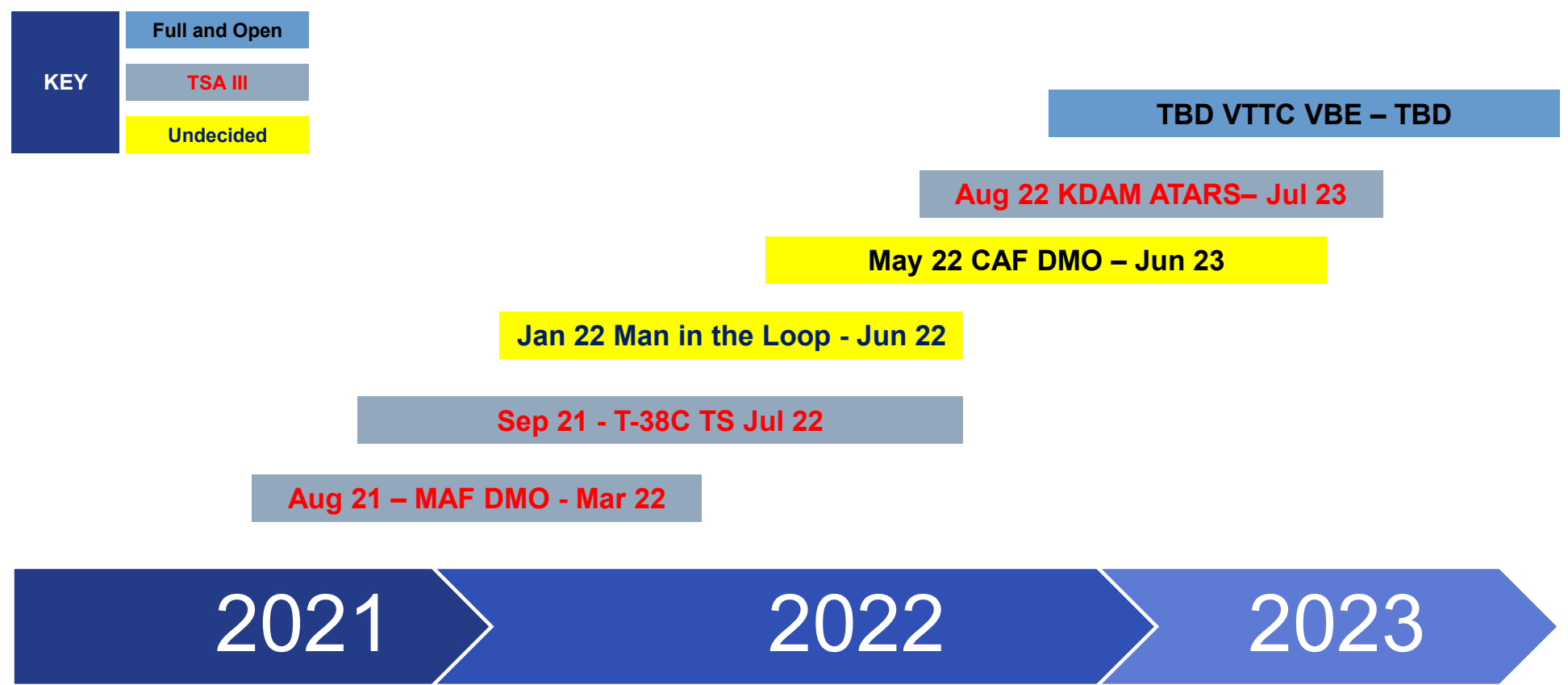
Capt. Daniel Henry



UPCOMING COMPETITIVE ACQUISITIONS



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MOBILITY AIR FORCE DISTRIBUTED MISSION OPERATIONS



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Program Requirements

Principle Mission: Train in a secure, realistic Networked Environment while reducing risk and operating cost.

The MAF DMO Contract includes: Program Management, Operations and Sustainability (DTCN Event Support, Planning/Executing MAF Mission Profiles, DTC Helpdesk Support, Documentation, and Analysis), Interoperability (Standards Development, Test Planning, System Problem Reporting, Configuration Control, and Connectivity with External Networks), Cybersecurity and Security Support, Integration and Test (Certification and Acceptance Testing), Update/Maintain Test and Analytic Tools Capability, Host Code Analysis & On-Site Code Reviews, Website Support, and Logistics Management.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES									
Competitive Fair Opportunity Selection using TSA III (FAR 16)	Anticipate 5-6 year Period of Performance	<table><tr><td>RFI</td><td>RFP/FOPR</td><td>Award</td></tr><tr><td>▲</td><td>▲</td><td>▲</td></tr><tr><td>Aug 20</td><td>Aug 21</td><td>Mar 22</td></tr></table>	RFI	RFP/FOPR	Award	▲	▲	▲	Aug 20	Aug 21	Mar 22
RFI	RFP/FOPR	Award									
▲	▲	▲									
Aug 20	Aug 21	Mar 22									
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)									
Organization: AFLCMC/WNS Name: Capt Sean Conway Email: sean.conway.5@us.af.mil	\$30M/year	Northrop Grumman									



T-38C TRAINING SYSTEMS



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Program Requirements

The Principle Mission: To consistently meet or beat a 95% T-38C ATD availability rate to support fighter/bomber pilot training requirements for weekly normal operations and periodic weekend surge requests.

The T-38C TS Contract includes: Contractor Logistics Support (CLS), Training System Support Center (TSSC), Program Management (including cybersecurity and FIAR), and sustainment engineering/modifications.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES
Competitive Fair Opportunity Selection Small Business Set-aside (TSA III)	2-month base transition (01 Mar 22 – 30 Apr 22) Base Year (1 May 22 – 30 Apr 23) Six (6) 1-year options (1 May 23 – 30 Apr 29)	<div>RFI</div> <div>▲</div> <div>Mar 20</div> <div>FOPR</div> <div>▲</div> <div>Sep 21</div> <div>Award</div> <div>▲</div> <div>Jul 22</div>
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)
Organization: AFLCMC/WNS Name: Lt Col Juan Ramirez Email: juan.ramirez.3@us.af.mil	~\$111M (including potential modifications) Firm Fixed Price (FFP): Majority of requirements Cost Reimbursable (CR): Contractor travel Cost Plus Fixed-Fee (CPFF): Over and above	Aero Simulation Inc.



MAN IN THE LOOP (MITL)



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Program Requirements

Man in the Loop (MITL) stations will be used to provide manned threat decision making, as well as, High End Advanced Tactics and Training (HEAT2) capabilities in the Virtual Test Training Center at Nellis AFB, NV. First systems installed Q1 FY22. MITL is a government developed and owned system, procured through the Naval Air Warfare Center's Aircraft Division (NAWCAD).

WNS will be contracting for maintenance, cybersecurity, and logistics support – to include, but not limited to:

- Multi-level Security operation - Periods Processing from S/SAR to TS/SCI/SAR, and vice-versa
- Scheduled / unscheduled maintenance, tech refreshes, and root cause analysis to resolve issues
- Daily operational checks and cybersecurity support

Cybersecurity Risk Management Framework (RMF) requirements will apply.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES			
Competitive Fair Opportunity Selection using TSA III (FAR 16)	4 year POP (through end of TSA III) End Date: 31 Aug 2026	<table><tr><td>Draft FOPR ▲ Sep 21</td><td>FOPR ▲ Jan 22</td><td>Award ▲ Jun 22</td></tr></table>	Draft FOPR ▲ Sep 21	FOPR ▲ Jan 22	Award ▲ Jun 22
Draft FOPR ▲ Sep 21	FOPR ▲ Jan 22	Award ▲ Jun 22			
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)			
Organization: AFLCMC/WNS Name: Gabriel Myers Email: gabriel.myers.3@us.af.mil	\$ TBD Firm-Fixed-Price Contract	Procurement via NAWCAD (U.S. Navy)			



COMBAT AIR FORCE DISTRIBUTED MISSION OPERATIONS



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Program Requirements

Principle Mission: Provide distributed mission operations services to enable realistic training up to S/SAR.

The CAF DMO Contract includes: The services for training, scheduling, and distributed mission operations necessary to ensure interoperability and interconnectivity of participant systems in accordance with the Joint Special Access Program Implementation Guide (JSIG).

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES									
To be Determined	1 Jul 13 – 30 Jun 23	<table><tr><td>RFI</td><td>RFP</td><td>Award</td></tr><tr><td>▲</td><td>▲</td><td>▲</td></tr><tr><td>Aug 19</td><td>May 22</td><td>Jun 23</td></tr></table>	RFI	RFP	Award	▲	▲	▲	Aug 19	May 22	Jun 23
RFI	RFP	Award									
▲	▲	▲									
Aug 19	May 22	Jun 23									
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)									
Organization: AFLCMC/WNS Name: Katie Urse Email: kathryn.urse@us.af.mil	\$500M FFP	Northrop Grumman									



KIRTLAND, DAVIS-MONTHAN, ANDREWS, MINOT (KDAM) AIRCREW TRAINING AND REHEARSAL SYSTEMS (ATARS)



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Program Requirements

Principle Mission: Aircrew Training and Rehearsal Support (ATARS), for AC/HC/MC-130J, CV-22, HH-60G & W, UH-1N and MH-139A

The KDAM ATARS Contract includes: Instruction, Contractor Logistics Support (CLS), Training System Support Center (TSSC), Cybersecurity, Financial Improvement Audit Readiness (FIAR), Database Generation Services (DBGS), and Courseware in support of AETC, ACC, AFSOC and AFGSC at Kirtland AFB, Joint Base Andrews, Davis-Monthan AFB, Moody AFB, Nellis AFB, Patrick AFB, JB Elmendorf AFB, Moffett Field, CA, Gabreski, NY, Kadena AFB, Aviano AFB, Maxwell AFB, Malmstrom AFB, FE Warren AFB and Minot AFB.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES									
Fair Opportunity Selection (FAR Part 16) TSA III	2-month base transition (30 Jul 23– 30 Sep 23) Base Year (1 Oct 23 – 30 Sep 24) Six (6) 1-year options (1 Oct 24 – 30 Sep 29)	<table><tr><td>RFI</td><td>RFP</td><td>Award</td></tr><tr><td></td><td></td><td></td></tr><tr><td>Nov 21</td><td>Aug 22</td><td>Jul 23</td></tr></table>	RFI	RFP	Award				Nov 21	Aug 22	Jul 23
RFI	RFP	Award									
											
Nov 21	Aug 22	Jul 23									
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)									
Organization: AFLCMC/WNS Name: Mila Siglar Email: mila.siglar@us.af.mil	\$TBD Firm Fixed Price (FFP)	CAE USA Mission Solutions Inc.									



VIRTUAL TEST AND TRAINING CENTER (VTTC) LEAD SYSTEM INTEGRATION (LSI)









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Program Requirements

The Principle Mission: Provide high-end advanced training and tactics capability up to TS/SCI/SAR

The VTTC LSI Contract includes: Build, operations, and sustainment of a battlespace; key contract support elements consist of development, integration, and test activities; program management; configuration management; modeling and simulation engineering and technical management; network and systems engineering; operations and event/exercise support. Cybersecurity Risk Management Framework (RMF) requirements will apply.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES									
TBD	5-year Period of Performance	<table><tr><td>RFI</td><td>RFP</td><td>Award</td></tr><tr><td></td><td></td><td></td></tr><tr><td>Nov 20</td><td>TBD</td><td>TBD</td></tr></table>	RFI	RFP	Award				Nov 20	TBD	TBD
RFI	RFP	Award									
											
Nov 20	TBD	TBD									
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)									
<p>Organization: AFLCMC/WNS</p> <p>Name: Capt Christine Jestice</p> <p>Email: christine_joy.jestice@us.af.mil</p>	\$130M	Northrop Grumman									



SIMULATION AND TRAINING COMMUNITY FORUM (STCF)

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DATE: August 11

Featuring

- MAJCOM PANEL
- In depth preview of upcoming WNS Acquisitions



NTSA

REGISTER NOW



