















SIMULATORS PROGRAM OFFICE LEADERSHIP







SENIOR MATERIEL LEADER Col Philip Carpenter



DEPUTY FOR PROGRAM INTEGRATION Tony Johnson



ENGINEERING Paul Phllips

Training Sys Ops VACANT
F-16
Susan Schemmel
Air Combat
Craig Siefert
SOF / AETC
Stephanie Moore
Tanker / AWACS
Barry Green

Airlift
Jeff Pfledderer
DMO
Anthony Montecalvo
Enterprise Develop.
Heath Morton



LOGISTICS Mark Neville Tim Morningstar (Acting)

Air Combat VACANT Airlift Joe Gerley SOF/AETC James Brown OTI Christal Green FMS Josh Sowers



AIR COMBAT Rick Hricko

Bomber / Attack Lt Col Aaron Hart F-16 Ryan Pinsenschaum F-15 / AWACS Maj Emilio Talipan



AIR MOBILITY Greg McCan

Tanker Maj Keith LeBlanc Airlift Rich Johnson KC-46A / FMS Robin Moshier



SPECIAL OPS & AETC Lt Col Gray Roos

Special OPS & UAV Christine Haupt Air Education Mike Astahoff



TRAINING
INFRASTRUCTURE (OTI)
Lt Col Rick Jaime

Enterprise Development Vacant

Distributed Training Systems Lt Col Mike Jungquist



FINANCE Keith Riethman

Deputy
Shannon Barnes
Air Combat
Don Miller
Air Mobility
Jeff Morningstar
SOF / AETC

Tony Swain
FMS
Eric Ellsworth
Cost
Johathan Bell



CONTRACTING Cecelia Benford

Deputy
Jackie Edwards
Air Combat
Nathan Shrider
Air Mobility
Norm Willis
SOF/AETC
Bob Mitchell





SIMULATORS PROGRAM OFFICE ORGANIZATIONAL CHART



SENIOR MATERIEL LEADER

DEPUTY FOR PROGRAM OPS

Programmatics/Execution Manpower & Personnel **EPASS Management** CAG

DEPUTY FOR PRGM INTEGRATION

Strategic Planning Process/Knowledge Management Program Control New Business - USAF/FMS



AIR COMBAT TRAINING SYSTEMS

F-15/BOMBER/ATTACK TRAINING SYSTEMS

A-10 ATS F-15 RSAF B-1 TS F-15C/F MTC B-2 TS F-15 TDAS B-52 TS T2

F-15 Qatar TΔ

F-16 TRAINING SYSTEMS

F-16 Training Systems F-16 FMS Sustainment

F-16 MTC F-16 Morocco F-16 Bahrain F-16 Pakistan F-16 Romania F-16 Egypt F-16 Slovakia F-16 EPAF F-16 Iraq F-16 Taiwan F-16 Jordan F-16 Thailand

AWACS TRAINING SYS

AWACS FCT/MTS AWACS DRAGON AWACS MTC

AIR MOBILITY TRAINING SYSTEMS

AIRLIFT SYSTEMS

C-5 Training Systems C-17 Training Systems C-130 ATS/MTS C-130J MATS C-130 ANG RWST HC/MC-130J

TANKER SYSTEMS

KC-10 Training Systems KC-135 Training Systems KC-135 BOSS (ANG)

KC-46A / FMS

KC-46A ATS KC-46A MTS C-17 Australia C-130 India C-17 NATO C-130 Italy

C-130 Egypt

SPECIAL OPS & TRAINING SYSTEMS

SPECIAL OPS & UAV TRAINING SYSTEMS

ATARS II AFSOC ACTS JTC TRS KDAM ATARS **PMATS**

AIR EDUCATION & TRAINING SYSTEMS

A&OP Training Systems Spatial D IRC

T-53A ATD T-1A GBTS Towers T-6 GBTS **URT GBTS** T25 SECT VTRAT T-38C ATS

OPERATIONAL TRAINING INFRASTRUCTURE (OTI)

ENTERPRISE DEVELOPMENT

SCARS XCITE / NGTS Cybersecurity

DISTRIBUTED SYSTEMS OPERATIONS

DMO

- CAF DMO
- MAF DMO
- F-22 / F-35 DMO Support DTOC LVC TN

As of 23 May 2019



SIMULATORS PROGRAM OFFICE

- Approximately 500+ members strong
- Manage 64 programs and provide direct support to 9 MAJCOMs across the air & SOF domains

















- Portfolio includes 2,300+ Training devices and configurations worldwide
- In FY18, executed >600 contract actions and managed \$3.3B across 10 different appropriations



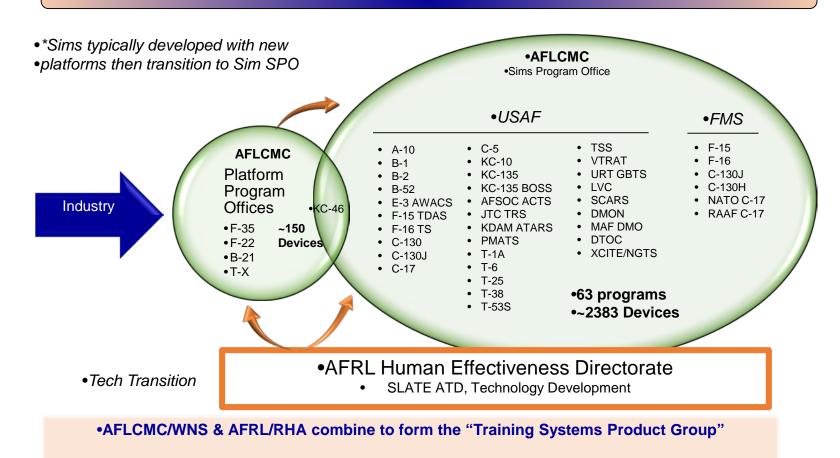
SPECTRUM OF TRAINING





SIMULATOR UNIVERSE

AFLCMC Program Lifecycle





AF OTI 2035 FLIGHT PLAN

•Vision – "...a realistic, integrated training environment that allows our forces to train in an operationally and tactically relevant employment scheme to achieve and sustain full-spectrum readiness."



•*Simulator Program Office directly impacts lines 3 and 12 with the LVC and SCARS initiatives

•Air Force has identified 13 OTI Lines of Effort required to achieve the OTI vision.

- 1. Funding Strategy
- 2. Human Capital Plan
- 3. SYNTHETIC-TO-LIVE CAPABILITY
- 4. Data and Technical Standards
- 5. Acquisition Policy
- 6. Acquisition Oversight
- 7. Institutionalize OTI

- 8. Relevant Threat Environment
- 9. Quality Metrics
- 10.Joint Interoperability
- 11.Multinational Interoperability
- 12.COMMON ARCHITECTURE
- 13.Exercise Oversight



INNOVATION INITIATIVES

OTAs

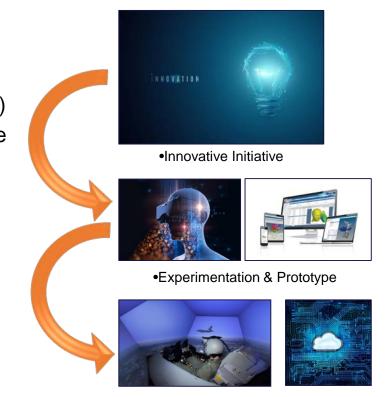
- Distributed LVC
- Fresh Adaptive Scenarios for Training (FAST)
- B-1/B-52 cross-cutting visual system upgrade

Innovation Cell

- A/R & V/R
- Cloud Technologies
- Artificial Intelligence and Adaptive Learning

Pitch Day

I/ITSEC 2019



•Production & Enterprise Implementation

A technology incubator to infuse innovation in a systematic way across the enterprise



Simulators Acquisitions

Most programs use TSA III for awards

IDIQ Contract with 25 Participants in 2 Pools

Small Business

- Aero Simulation
- Aerospace Training Systems Partners, JV
- Aviation Training Consulting, LLC
- Bowhead
- CTE, JV
- CymStar
- Delaware Resource Group of Oklahoma
- DLPI, JV
- Fidelity Technologies Corporation
- Logistics Services International, Inc.
- Nakuuruq Solutions
- Nova Technologies
- Quadrant Training Solutions, JV

<u>Unrestricted</u>

- The Boeing Company
- CAE USA
- Cubic Defense Applications
- FlightSafety Services
 Corporation
- General Dynamics Information Technologies
- HII MIS
- L3 Technologies
- LB&B Associates
- Lockheed Martin
- Northrop Grumman Technical Services
- Raytheon Technical Services Company
- TRU Simulation



Simulators Acquisitions, Cont.

- Allows for the use of FAR Part 16 Ordering Procedures
 - Fair Opportunity Selection vs.
 Source Selection
 - Average time from FOPR release to award is 166 days
 - 5 awards
 - Efficiency is increasing
- More agile and quicker way to Train the Warfighter



TSA IV

- RFI Summer of 2019
- Industry Day at I/ITSEC 2019
 - Planned Award Q4 2022

Simulators Pitch Day



Team:

Maj Patrick Kawonczyk SIMs Pitch Day Project Lead

Capt Peter Van Remmen Contracting Officer

Margaret Merkle SIMs Innovative Solutions PM



Overview

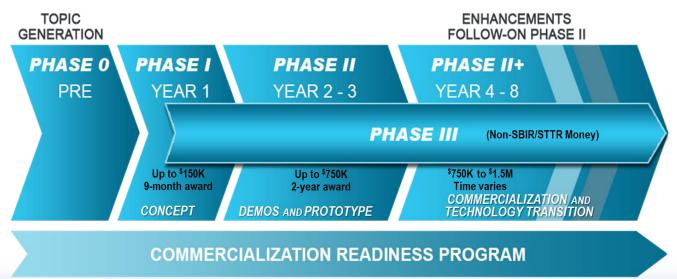
- What is the Simulators Pitch Day?
- How to get involved
- Focus Areas
- Timeline





What is Simulators Pitch Day?

 Opportunity for small businesses to propose innovative solutions to tough problem sets







How do I get involved?

- Must be classified as a small business to be eligible to bid on SBIR projects
- Keep an eye out for an announcement (19.2 out in June!)
- There are several focus areas looking for innovative solutions proposals





What are the topics?

- Artificial Intelligence aided instruction in the simulator
- Performance based training
- High-fidelity, deployable simulator
- Increasing visual acuity, image compression algorithms

- High-end weather effects physics simulation and visual impacts
- Data capture and analysis
- Cross-domain/multi-level security networked ops
- Cloud based simulators
- Use of unmodified OFP files in simulator

19.2 Announcement on WWW.SBIRSTTR.AF.MIL
19.3 in fall timeframe





Notional Timeline

Event	Dates
BAA Open Announcement pre-release – part 1	May 2019 ✓
BAA Open Announcement (Phase Is only – part 1)	June 2019 ✓
White Papers and Presentations Due	July 2019
Solicitations Awarded	July 2019
Execute Phase I awards (part 1)	July 2019 – October 2019
BAA Open Announcement pre-release – part 2	Aug/Sept 2019
BAA Open Announcement (Phase I and Phase II)	Sept/Oct 2019
White Papers and Presentations Due	Nov 2019
Solicitations Awarded	Dec 4, 2019 @ IITSEC





Questions?



