



CPE ST3 Tech Exchange



ADVANCING TODAY'S TRAINING..DEFEATING TOMMOROW'S THREATS.

AUGUST 11, 2026



MR. MARWANE BAHBAZ
CHIEF TECHNOLOGY OFFICER



Next Generation Constructive



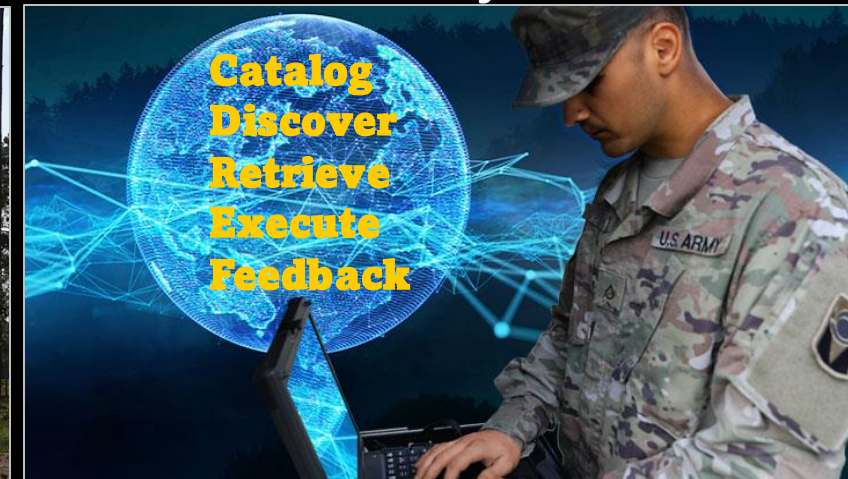
Cloud-enabled Constructive Training at Scale

CTC Modernization



Modernizing Combat Training for MDO

Data Ecosystem



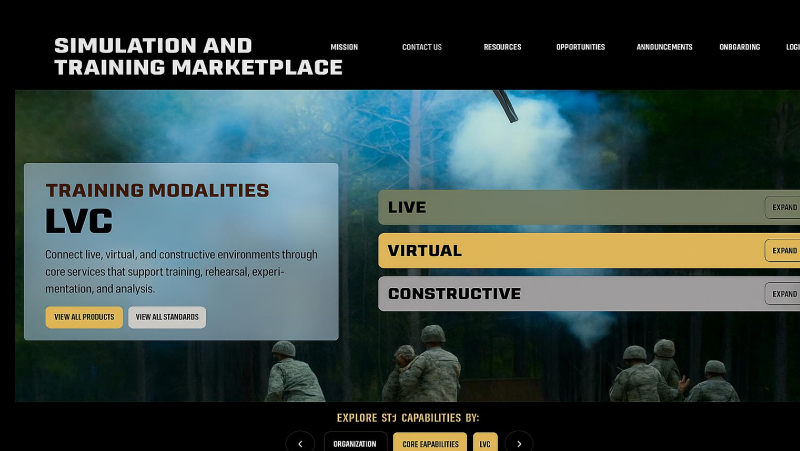
Data Mesh: Authoritative Data to Models

Embedded Training



Training Simulation in Next Gen Platforms

Simulation and Training Marketplace



Building the Army's Simulation Ecosystem

AI Enablers & Modeling Assets



Reusable Models and AI Pipeline Assets

DIRECT FIRE SMALL ARMS SENSORS



Direct Fire Small Arms Force on force modular sensor technologies

EMBEDDED TANK SIMULATION



Embedded Simulation and Instrumentation into Next Gen Combat - M1E3 for collective training across LVC

LEVERAGING AI & DATA ANALYTICS



Leveraging AI to conduct large data analytics to support complex scenario generation and assessment in support of Combined Arms Maneuver exercise

AUTONOMY TECHNOLOGIES



Autonomy Technologies

- CPE ST3 Training Verse Prize Challenge
- Call for Solution Synthetic Training Environment Virtual Software (Anticipate posting this week)
- Autonomous Technology solutions for precision training
- Direct Fire Small Arms non-laser tech
- Training and Simulation Marketplace

SIMULATION AND TRAINING MARKETPLACE

[MISSION](#)[CONTACT US](#)[RESOURCES](#)[OPPORTUNITIES](#)[ANNOUNCEMENTS](#)[ONBOARDING](#)[LOGIN](#)

TRAINING MODALITIES

LVC

Connect live, virtual, and constructive environments through core services that support training, rehearsal, experimentation, and analysis.

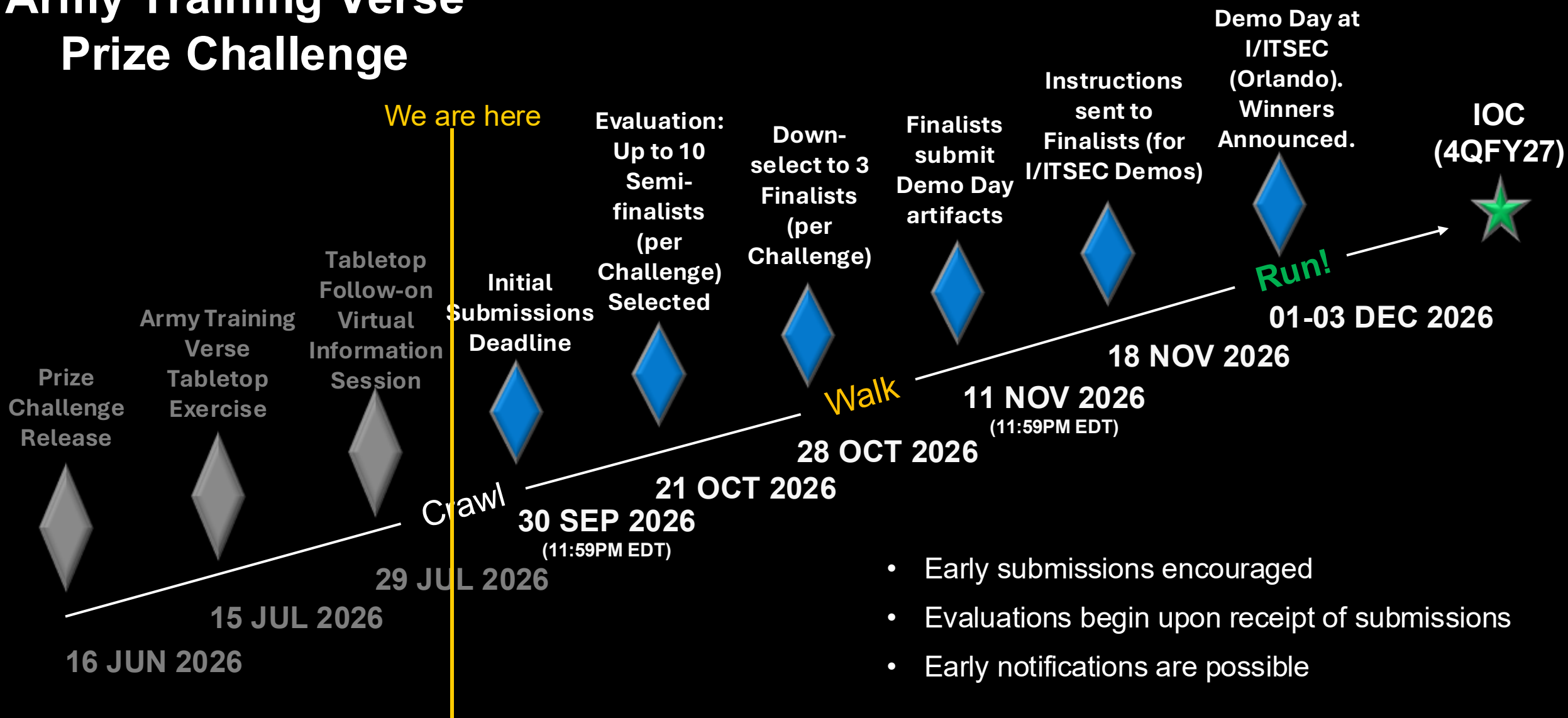
[VIEW ALL PRODUCTS](#)[VIEW ALL STANDARDS](#)**LIVE**[EXPAND](#)**VIRTUAL**[EXPAND](#)**CONSTRUCTIVE**[EXPAND](#)

EXPLORE STJ CAPABILITIES BY:

[<](#)[ORGANIZATION](#)[CORE CAPABILITIES](#)[LVC](#)[>](#)

Timeline (May Be Adjusted)

Army Training Verse Prize Challenge



Summary

- Your **feedback** helped shape this prize challenge
- Deadline for initial submissions is **30 September 11:59PM EDT.**
- We are performing **rolling evaluations** – submit your responses ASAP!
- The down select will be per challenge, e.g. up to **10 semi-finalist** for each challenge and **3 finalist** for each challenge.
- Finalists will need to travel to Orlando, FL for I/ITSEC **30 Nov-3 Dec** (more details to follow).



MR. CHRIS MCGROARTY

*CHIEF ENGINEER, ADVANCED
SIMULATION, DEVCOM – SOLDIER
CENTER*

Army Training Verse Innovation Prize Challenge



Overview

- A multi-phase competition launched by the US Army's Capability Program Executive Simulation, Training, Test and Threat (CPE ST3).
- Designed to accelerate the development of the Army's Digital Enterprise Engineering Environment (DE3).

Purpose

- Modernize Capabilities: Transform how the Army designs, tests, and fields systems by creating an integrated, AI-enabled digital environment for modeling and simulation.
- Enhance Speed & Interoperability: Reduce fragmentation, shorten the time required to convert engineering data into mission-relevant scenarios, and field cutting-edge capabilities faster.

Challenges & Prizes (Total Prize Pool: \$450,000)

- Challenge I (Infrastructure) - \$50,000: Develop a digital platform capable of hosting, managing, and sharing simulation models and CAD files with standards-based external connectivity.
- Challenge II (Pipeline) - \$100,000: Create an AI-enabled pipeline to automatically convert engineering data (e.g., CAD, SysML v2) into executable content for military simulations or game engines.
- Challenge III (Mission Use Case) - \$100,000: Apply the DE3 workflow to Unmanned Aerial Systems (UAS) scenarios, featuring UAS as weapons, counter-UAS platforms, and hostile threats.
- Challenge IV (Integration) - \$200,000: Fully integrate the platform and pipeline to demonstrate the complete digital thread, supporting at least 10 concurrent users at a 0.5 Hz update rate.

Army Verse Innovation Challenges

CHALLENGE I

BUILD THE DIGITAL MARKETPLACE

Create the enterprise foundation



- Host and manage engineering & simulation assets
- Connect external tools using open standards/APIs
- Enable artifact discovery, exchange, and reuse
- Enables purchase of modeling, simulation, and devices to support Army training, test and experimentation

Up to \$50K

CHALLENGE II

TRANSFORM ENGINEERING INTO SIMULATION

Reduce manual effort with AI automation



ENGINEERING DATA
(CAD, SYSML, MODELS)

AI/ML
PIPELINE



SIMULATION ENGINES
(UNREAL, VBS, UNITY, ATOM)

- Convert engineering data into simulation environments
- Leverage AI to generate behaviors and digital content
- Automate translation, packaging, and deployment
- Demonstrate pipeline scalability and ability to operate in various security environments

Up to \$100K

CHALLENGE III

DELIVER MISSION-RELEVANT TRAINING

Show operational value



Currently expanding to include
Live Hardware-in-the-Loop

- Model realistic UAS platforms and behaviors
- Demonstrate offensive, defensive, and threat scenarios
- Reuse models and scenarios across training events
- Model reuse cross simulation
- Demonstrate live instrumentation of drone for tracking and kinetic/non-kinetic engagements

Up to \$100K

CHALLENGE IV

SCALE THE ARMY TRAINING VERSE

Prove enterprise readiness



- Integrate platform, pipeline, and mission workflows
- Enable enterprise collaboration and asset sharing
- Demonstrate model generation of UaS/Counter UaS from commercial marketplace
- Demonstrate multi-user performance and scalability

Up to \$200K



1 FOUNDATION
Connect & Share



2 AUTOMATION
Transform & Generate



3 APPLICATION
Train & Reuse



4 ENTERPRISE
Scale & Operationalize

BUILDING AN INTEGRATED, AI-ENABLED, DATA-DRIVEN SIMULATION ENTERPRISE FOR THE ARMY



MR. SHEREAF HELMY
CHIEF ENGINEER, PDM LTS



Current State

Coalition forces currently struggle with training interoperability due to mismatched technical standards, inconsistent Vendor implementations of laser systems, and an inability to connect partner systems to a central network.

Interoperability Objective

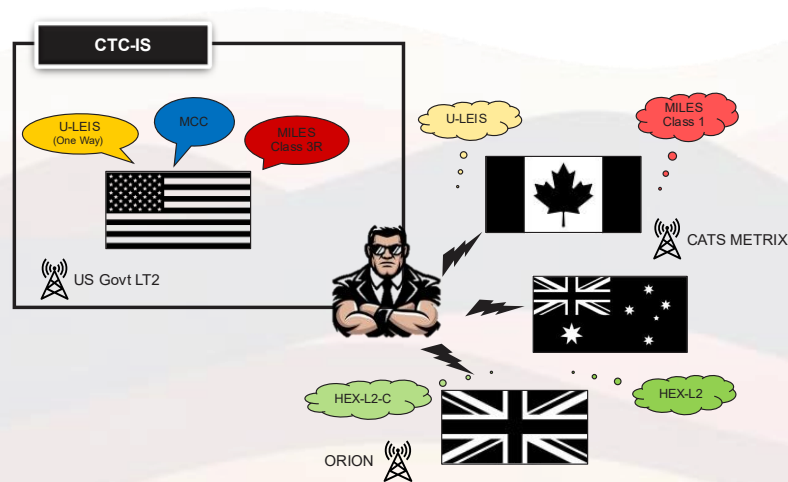
Objective: To align live training equipment standards and establish a rigorous, common specification for the Universal Laser Engagement Interface Standard (U-LEIS).

Approach: Vendor will assess partner standards by conducting joint equipment testing both in the lab and in the field. Resulting data will be used to inform the development of a common performance specification for U-LEIS, coined "MIST U-LEIS", which may be used to influence future updates to the widely accepted U-LEIS standard.

Deliverables: Contract deliverables include proposed COAs outlining a phased path forward, as well as a Test Suite for continued interoperability validation.

Future

Follow-on efforts call for Vendor to evaluate commercial networking solutions to allow international systems to integrate into a unified network, enabling a shared operational picture to include a consolidated Exercise Controller (EXCON) and After-Action Review (AAR).

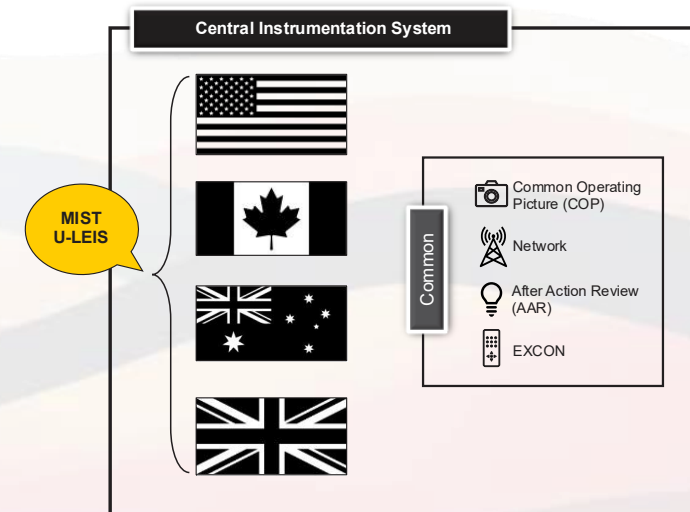


Identify Gaps in Interoperability

Develop iterative path to coalition Interoperability

Deliver Test Suite to Enable Future Interoperability Validation

Influence Future Laser and Network Standards



The Problem

Contract Award and Execution

The Journey

COA Decisions and Action

The Destination



SFC SMITH SIMULATION & TRAINING TECHNOLOGY CENTER (STTC)

SFC Paul Ray Smith Center

AUGUST 2026

**DEVCOM SC – Training and Simulation Portfolio
FY27 Effort Areas and Industry Opportunities**

**Michael Cannizzaro
Lead Portfolio Integrator**



MISSION

Discover, Develop, and Transition Innovative Simulation and Training Technology to Maximize Soldier Effectiveness and Warfighter Readiness.

CORE COMPETENCIES

TECHNICAL LEADERSHIP

- *Embedded & Matrixed Support*
- *Source Selection Support*
- *Unbiased Technology Evaluation*
- *STP/ETP & Data Collection Support*

TECH DEVELOPMENT AND TRANSITION

- *In-house Prototype Development*
- *Research Contracts*
- *Formal Transition Agreements*
- *Technology Integration*
- *Joint and International Outreach*

KNOWLEDGE TRANSITION

- *Technical Papers*
- *Technical Studies*
- *Market Research*
- *Technical Panels & Talks*

FY27 Focus Areas

- Automated generation of models, behaviors, and scenarios
- Insight analytics at scale for CTCs
- Next-generation ground vehicle embedded training
- Dynamic, cognitive information environment modeling
- Live training direct-fire component maturation
- Threat and Targetry Autonomy Technologies

FY27 INDUSTRY OPPORTUNITIES



Live Training Systems – Direct Fire Component Maturation



Threat and Targetry Autonomy Technologies





Thank you

Thank you for your time!



Questions/Comments/Discussion



MR. MARWANE BAHBAZ
CHIEF TECHNOLOGY OFFICER

CLOSING REMARKS

AUSA AUGUST 2026



AUSA

SUNSHINE CHAPTER

- Thanks for those who attended the Pre-PALT Social last night at Buffalo Wild Wings. Thanks to ECS and Mass Virtual for sponsoring.
- Join us at the September Social at Buffalo Wild Wings, 7 September. Sponsored by CymStar.
- AUSA SPC Salazar 4th Annual Memorial Golf Tourney 11 Sep 2026, Eagle Creek. Robertbiggers72@gmail.com.
- Join us at AUSA National for the Sunshine Chapter Hospitality Night, Tuesday, October 13th at the Marriott Marquis in Washington, DC.
- Any questions contact Emily Pontiff at emily.a.pontiff@lmco.com or Dylan Morelle at dmmorelle@gmail.com.



AUSA

SUNSHINE CHAPTER

