



# TRAINING & SIMULATION

## INDUSTRY SYMPOSIUM



Renaissance Orlando Resort • 10-11 June 2009

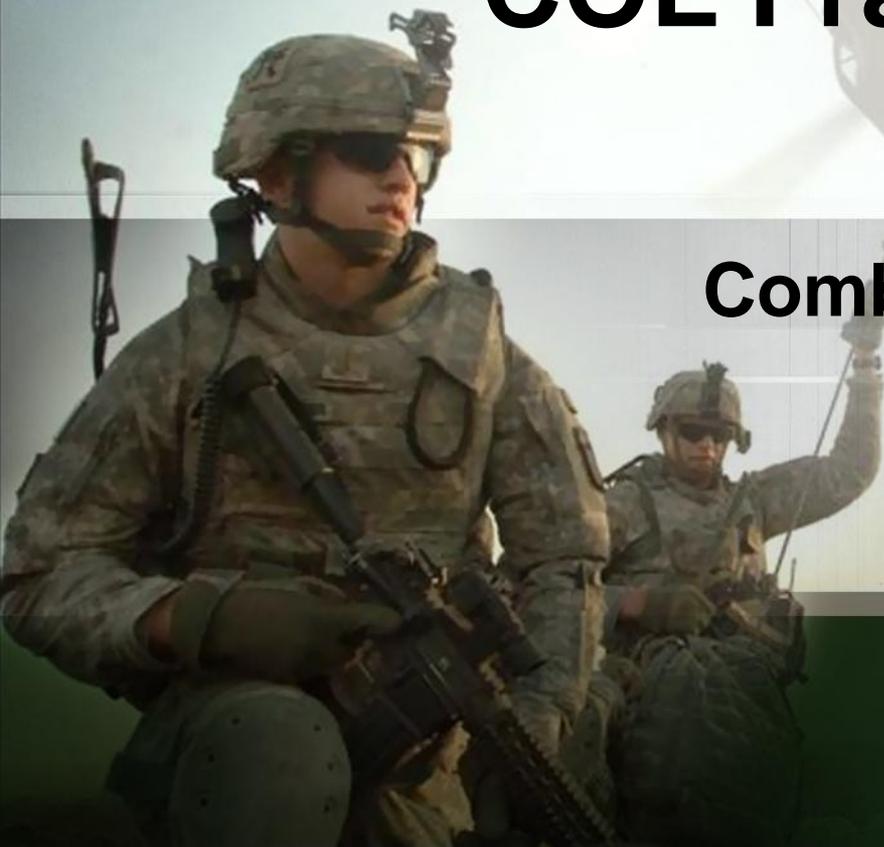
# TRAINING & SIMULATION

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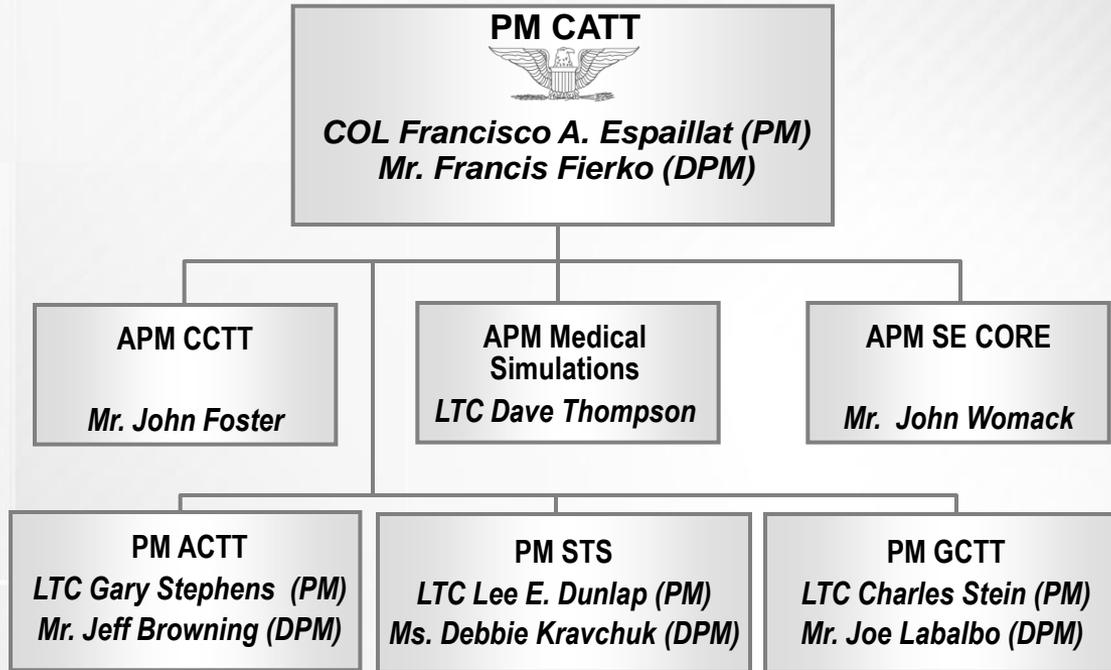


## COL Francisco A. Espallat Project Manager

Combined Arms Tactical Trainers



# PM CATT Organizational Chart



# SE Core Database Virtual Environment Development (DVED) & Architecture & Integration (A&I)



SE Core is building the Army's Common Virtual Environment (CVE) to link virtual simulation devices into an integrated and interoperable training system. SE Core is comprised of two complementary efforts:

- The **DVED** project produces terrain databases and common visual models for consumption by virtual training devices. It will continue to refine the production process by the development of tools and processes that will enable DVED to reduce production time while improving quality. Other activities include dynamic environment development, sensor algorithms, and support to the virtual simulation architecture.
- The **A&I** project will continue to integrate and update virtual training requirements into OneSAF and assist in the replacement of current SAF(s). SE Core will build and expand on its current product line of common components i.e., After-Action Review (AAR) and network protocols & infrastructure; support / development of common products, processes, protocols & specifications; link virtual training systems in a CVE; enable fair fight interoperability between virtual simulations; and facilitate interoperability of virtual training simulations to the LVC-TE.

## Acquisition Strategy

- Competitive (Outside of STOC)  
– Single Award

## Period of Performance

- Base period: Mar 11 – Feb 13
- Three option years

## Milestones

- Draft RFP – July 2010
- RFP – 4<sup>th</sup> Qtr FY 2010
- Contract Award – Jan 2011

## Point of Contact

**Mr. John H. Womack**  
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## Funding

- R&D > \$57M
- O&M > \$67M

## Current Contract/Original Developer/ OEM

- DVED – DO under STOC I (CAE)
- A&I – DO under STOC I (SAIC)

# Medical Simulation Training Centers (MSTC)



- The MSTC System provides a sustained, maintained, and supported Army training asset, providing a regional training capability, located at the installation level. The MSTC System delivers effective medical training with a standardized training platform for both classroom and simulated battlefield conditions to prepare Soldiers for the application of medical interventions under combat conditions.
- The MSTC System is a standardized family of component systems currently composed of the Virtual Patient System (VPS), Instruction Support System (ISS), Medical Training Command and Control (MT-C2), and the Medical Training Evaluation and Review System (MeTER) providing a framework of suites fitted with reconfigurable, enabling technology and supporting training devices.
- Located at 18 sites around the world; plans for 18 additional sites; Potential Foreign Military Sales (FMS) beginning in FY10.



## Acquisition Strategy

- STOC II Competitive  
– Single award

## Period of Performance

- Two Year Base period:  
– JAN 10 to JAN 12
- Three, one year options

## Milestones

- NLT 06, Sources Sought, 09; Draft RFP 08/09, Contract Award, 01/10
- Sources Sought: JUN 09
- RFP: AUG 09
- Contract Award: JAN 10

## Point of Contact

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## Funding

- Total funding (RDT&E, OPA, O&M) > \$100M

## Current Contract/Original Developer/ OEM (if recompute)

- ISS - CSC is the current incumbent awarded under War Fighter Focus
- VPS – METI is the current incumbent awarded under ID/IQ

# CCTT Technology Refreshment & Concurrency



- Technology refreshment and component obsolescence of the Close Combat Tactical Trainer (CCTT) system and the provision of common components for the CCTT and the Reconfigurable Vehicle Tactical Trainer (RVTT)
- The scope of the effort includes the M1 Abrams and M2 Bradley family of manned modules, the M113 Armored Personnel Carrier, the original CCTT High Mobility Multi-purpose Wheeled Vehicle (HMMWV) module, After Action Review (AAR) workstation, Master Control Console (MCC) workstation, maintenance workstation, Semi-Automated Forces (SAF) workstation, Fire Direction Center workstation, Fire Detection system, Mobile Trailers, network switches, computers, monitors and other computer peripherals that support interoperability with other Live, Virtual and Constructive simulations as well as live tactical equipment



## Acquisition Strategy

- Full and Open competition
- Single award with options

## Period of Performance

- Base period: JAN 10 – DEC 11
- Four option years

## Milestones

- Sources Sought: JUN 09
- RFP: AUG 09
- Contract Award: JAN 10

## Point of Contact

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## Funding

- Base year of \$8M
- Option years of \$8M each
- Potential Tasks Orders with a combined value of \$120M

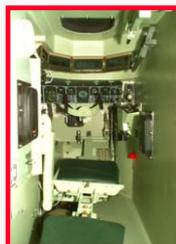
## Current Contract/Original Developer/ OEM (if recompute)

- Lockheed Martin Simulation Training Systems is the current incumbent

# CCTT Post Deployment Software Support



- Post Deployment Software Support of the Close Combat Tactical Trainer (CCTT) program. The CCTT program consists of the CCTT system, the Reconfigurable Vehicle Tactical Trainer (RVTT), and the future Dismounted Soldier system
- This effort will consist of system and software engineering, life cycle software support, testing, quality assurance, configuration management, replication, distribution, installation, training, and publications support



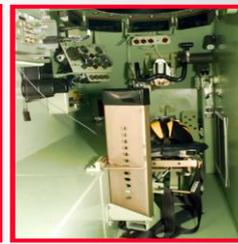
**M2/M3**



**MIA2**



**MIA1**



**M113**

## Acquisition Strategy

- 8a Set-Aside ID/IQ
- Single award with option

## Period of Performance

- Base period: APR 10 – MAR 11
- Four option years

## Milestones

- Sources Sought: JUN 09
- RFP: AUG 09
- Contract Award: JAN 10

## Point of Contact

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## Funding

- Base year of \$9M
- Option years of \$9M each
- Potential Task Orders with a combined value of \$30M

## Current Contract/Original Developer/ OEM (if recomplete)

- Kaegan Corporation and was awarded through an ID/IQ

# Common Driver Trainer



- To provide initial and sustainment vehicle driver training simulation at both institutional (schoolhouse) and installation (unit) locations.
- The vehicle cab variants must be modular and interchangeable, allowing multiple, variant configurations on one common training platform.
  - A common platform and instructor station able to support multiple driver cabs.
  - Geo-typical terrain database that supports multiple driving environments.
  - On-board scenario editing function to develop additional training scenarios.



## Acquisition Strategy

- STOC II Competitive
  - Single Award with options
  - Firm Fixed Price

## Period of Performance

- Base period: FY 11 – 12
- Three option years

## Milestones

- TBD (dependent on the availability of funding)

## Point of Contact

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## Funding

- Contract(s) Estimate:
  - \$350M procurement

## Current Contract/Original Developer/ OEM (if recomplete)

- SAIC is the current FFP incumbent

# Virtual Route Clearance Training (VRCT) Suite



- PM Assured Mobility and the Maneuver Support Center have a requirement to develop and field a suite of devices to support each Route Clearance Company (RCC).
- Three vehicles will form the RCC including the MPCV (Buffalo), the MMPV (RG-31) and the VMMD (Husky).
- The elements that make up the VRCT Suite will be two Buffalo, two Husky, and four RG-33 vehicle training devices.



## Acquisition Strategy

- STOC II Competitive
  - Single Award with options
  - Firm Fixed Price

## Period of Performance

- One base year with four option years

## Milestones

- TBD (dependent on the availability of funding)

## Point of Contact

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## Funding

- Contract(s) Estimate:
  - \$50-100M procurement

## Current Contract/Original Developer/ OEM (if recompet)

- New effort

# Construction Equipment Virtual Trainers



- PM CE/MHE and the Maneuver Support Center have a requirement for up to 100+ high fidelity, large scale simulators that replicate the form, fit, feel, function, and controls of various construction equipment systems.
- The goal is to train operators on the principals of operating the equipment, to include the proper tactics and advanced operations, prior to operating the actual equipment.
- The simulators will be a mixture of seven different pieces of construction equipment, to include the Hydraulic Excavator, Backhoe Loader, Wheel Loader, Motor Grader, Motorized Scraper, Bulldozer and Crane.



## Acquisition Strategy

- STOC II Competitive
  - Single Award with options
  - Firm Fixed Price

## Period of Performance

- Base period plus options

## Milestones

- TBD (dependent on the availability of funding)

## Point of Contact

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## Funding

- Contract(s) Estimate:
  - \$5M to 25M procurement

## Current Contract/Original Developer/ OEM (if recomplete)

- New effort

# SLAMRAAM Suite of TADSS



- The Surface-Launched Advanced Medium Range Air-to-Air Missile (SLAMRAAM) is the Army's future short range air defense weapon. The SLAMRAAM program is intended to eventually replace all the Army's short range air defense weapon systems that employ the Stinger missile.
- The SLAMRAAM PM intends to procure six training systems ranging from diagnostic maintenance trainers to missile and launcher mockups for the Air Defense and Ordnance Munitions and Electronic Maintenance Schools.



## Acquisition Strategy

- STOC II Competitive
  - Single Award with options
  - Firm Fixed Price

## Period of Performance

- Base period plus options

## Milestones

- TBD (dependent on the availability of funding)

## Point of Contact

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## Funding

- Contract(s) Estimate:
  - RDTE plus procurement (total \$5M to \$25M)

## Current Contract/Original Developer/ OEM (if recompetete)

- New effort