

PEO STRI

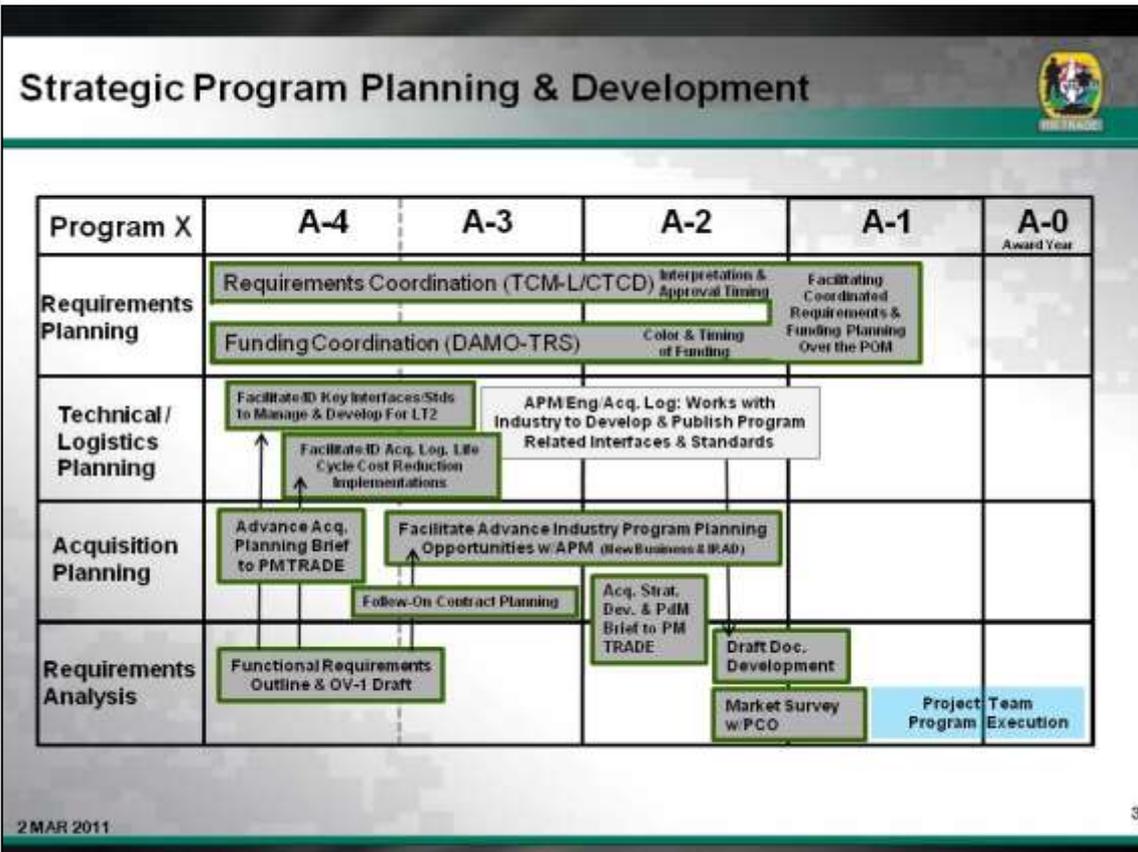


Visit the Live Training
Community Portal at:
LT2Portal.org



COL Mike Flanagan

PM, Training Devices (PM TRADE)



1. Team Live Training
2. Emerging Requirements
3. Live Training Architecture
4. Strategic Partners
5. Business Opportunities
6. LT2 Portal

NEW

PM TRADE - 2014 Vision

Recent and pending challenges facing the U.S. Army... (text continues)

Live Training provides the foundation... (text continues)

The Army will invest in the TCM-L... (text continues)

Supporting the completion of TCM-L... (text continues)

• Soldiers will go through an intensive... (text continues)

Apr 1 2012

2014 Vision



LIVE TRAINING COMMUNITY

U.S. ARMY

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WELCOME



COL Michael P. Flanagan
Project Manager, TRADE



COL Patrick E. Connors
Director, TCM-Live

WELCOME

Welcome to the Live Training Community portal, where we develop, support and communicate our Live Training initiatives for the Army. Our intent is to facilitate communication with developers, users, and our industry partners to support standards and common solutions for Live Training. Our goal is to reduce total ownership costs while improving quality, interoperability, and reusability across Live, Virtual, Constructive, and Joint training test domains for our Soldiers, our joint Services partners, and the Nation.

New TCM-L COL Gene Reedy
- Arrives 7 July 2012

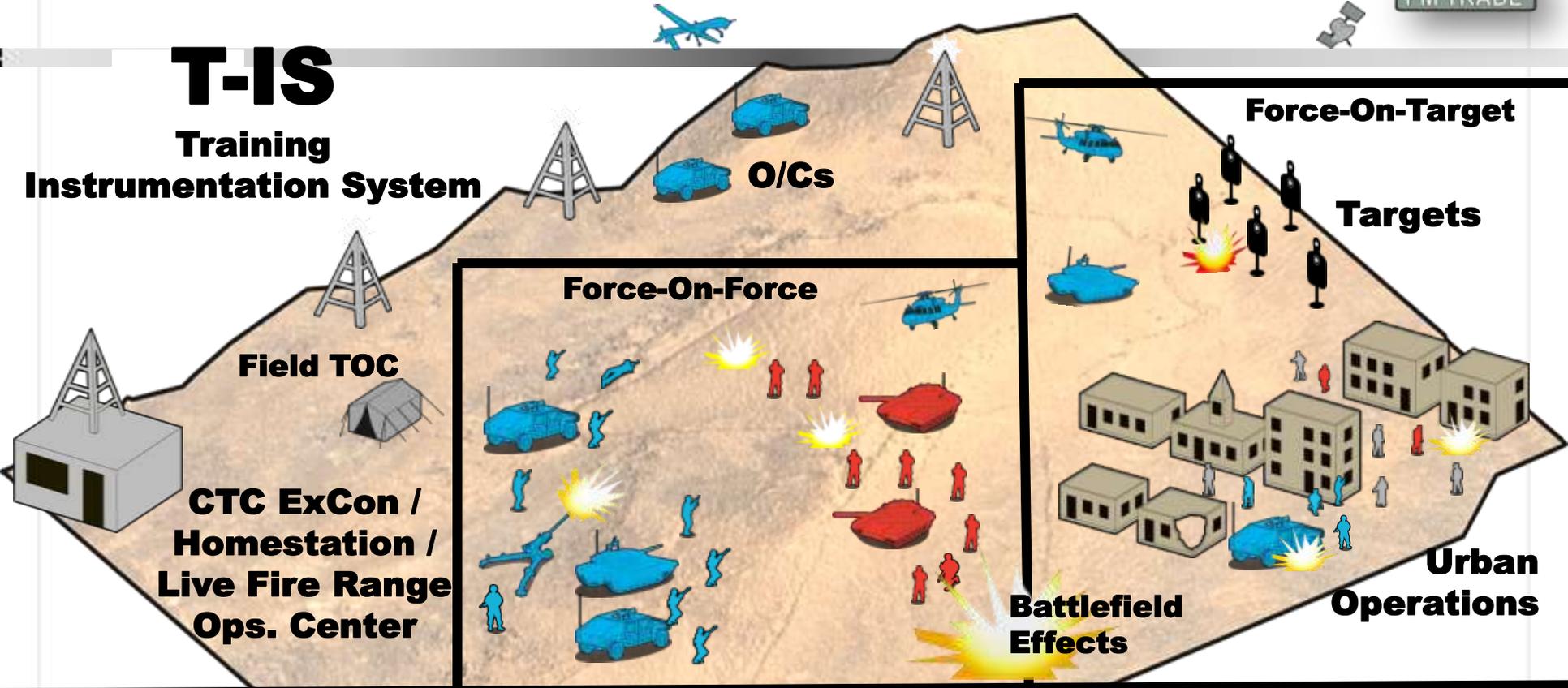
NEWS/EVENTS
PRODUCTS
STANDARDS
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SUPPORT

FEEDBACK

PM TRADE Events at

T-IS

Training Instrumentation System



ExCon & Comms

ExCon, AAR, RF Comms. ABCS, & Network Data Management

PM CTIS T-IS

Simulated Fire

Combined Arms Engagement Pairing
BLUFOR & OPFOR

PM LTS A-TESS

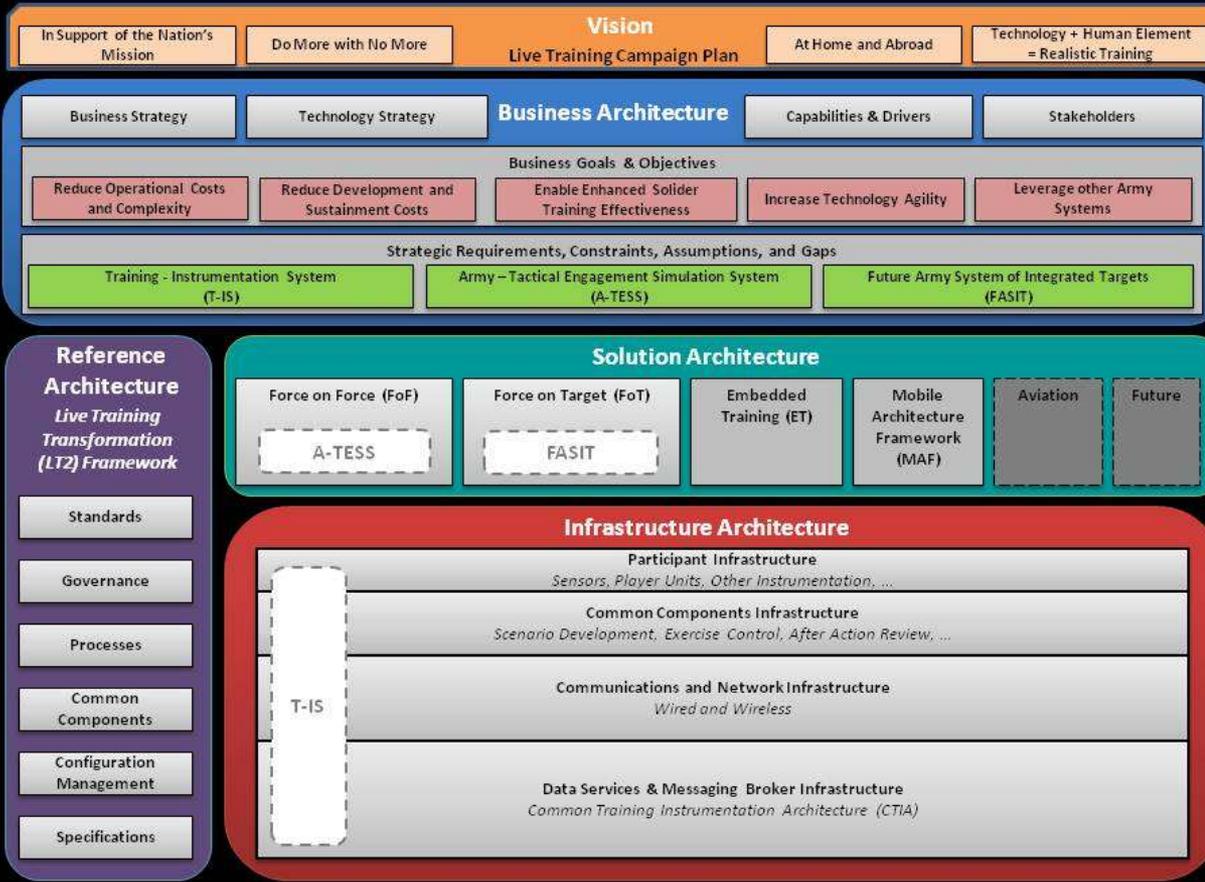
Live Fire

Instrumented Urban Operations,
& Battlefield Effects

PM DT FASIT

PM TRADE Enterprise Architecture

11 June 2012



Emphasis on a PM TRADE Integrated Portfolio Architecture Management Approach

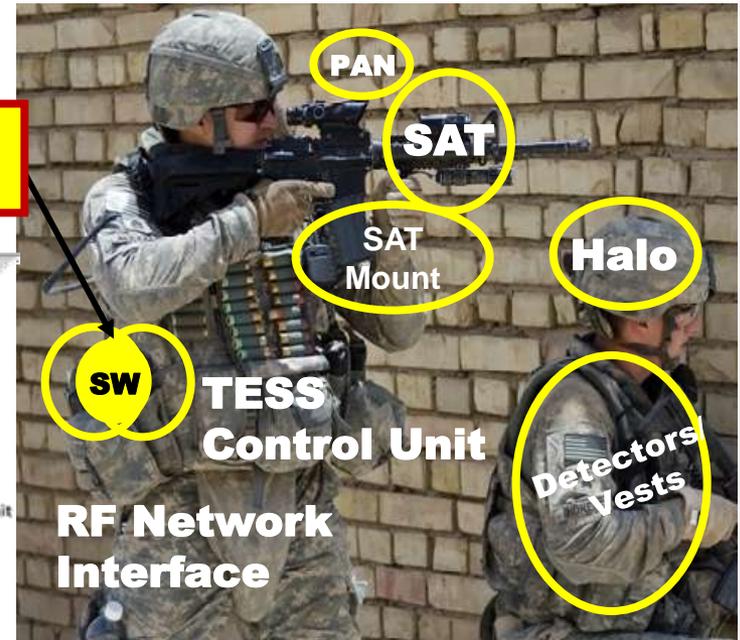
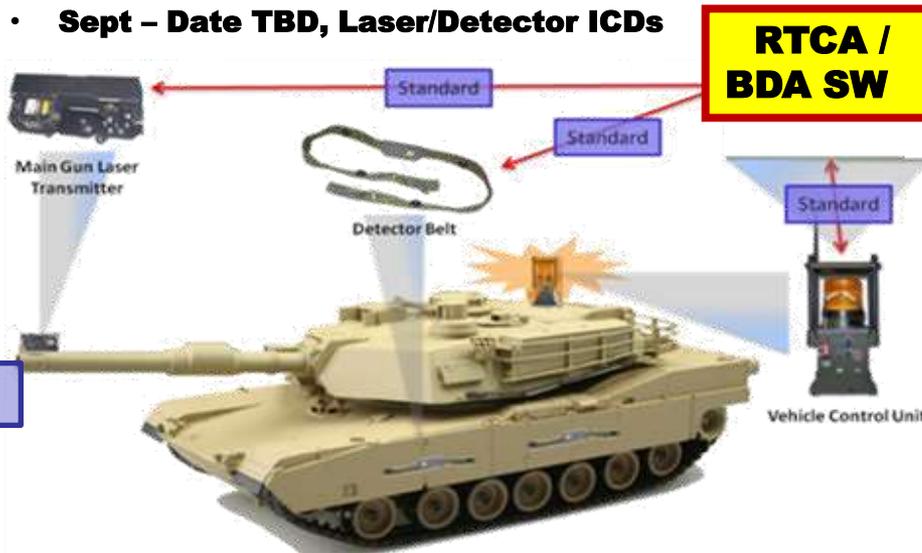
Future Architecture Alignment:

- **Common Enterprise Architecture approach**
- ***Unified FoF: TESS, IS***
- ***Unified FoT: Targets, battlefield realisms, Video, IS***
- **Develop New Solution Architectures**
 - **Embedded Training**
 - **Aviation**
 - **MAF**
 - **Future**

Industry participation in TRADE Architecture development is essential

A-TESS/MILES Architecture & Standards Development Opportunities

- 1) **Defining Key Interfaces and SW Architecture is 1st step to developing appended/embedded solution.**
- 2) **Working with Industry to develop key standards, interfaces, performance parameters, and ICDs .**
 - **PAN Std, Radio-TESS ICD, Laser Detector ICD, Laser Transmitter ICD, Power Std, AV Cue Std, Equipment Mounting, RTCA/BDA table,**
- 3) **Industry Work Shops held ~ Quarterly - Dates & Topics Posted on LT2 Portal (www.lt2portal.org)**
 - **May 14-15, Orlando, A-TESS Laser Workshop**
 - **July 10 - 11, Orlando, A-TESS Arch. Workshop**
 - **Sept - Date TBD, Laser/Detector ICDs**





❑ Initiatives

- Resource sharing and cross-pollination
- Player Unit (PU) radio and Spectrum
- Immersive environments
- Architecture migration & evolution
- Cultural training (role players)

❑ Common Themes

- Common Training Instrumentation Architecture (CTIA)
- Consolidated Product-line Management (CPM)
- Future Army System of Integrated Targets (FASIT)
- Range Instrumentation System Control (RISCon)
- Capabilities & Requirements synchronization
- Information Assurance synchronization
- Integrated Development Environment

***Train to Fight, Fight to Win
TOGETHER***



Test and Training Initiatives

1. **Signed MOA with multiple organizations to develop common technologies in support of Live Test and Training Events**
 - a) **PM ITTS**
 - b) **ARL HRED STTC**
 - c) **ATEC**
 - d) **ATSC**
 - e) **DUSA-TE**
 - f) **DAMO TRS**
2. **Established testbed at STTC as foundation for effort.**
3. **Developing technology / capability gaps to be addressed by group.**

MOA

TRADE-2011-01

MEMORANDUM OF AGREEMENT

Between

Project Manager Training Services (PM TRADE),

Project Manager Instrumentation, Targets and Threats Simulators (PM ITTS)

Army Test and Evaluation Command (ATEC),

Deputy Under Secretary of the Army – Test and Evaluation (DUSA-TE),

Army Research Lab-Simulation and Training Technology Center (ARL STTC)

Army Training Support Center, TRADOC Capability Manager – Live (ATSC, TCM-L),

and

Army G-3/5/7 (DAMO-TRS)

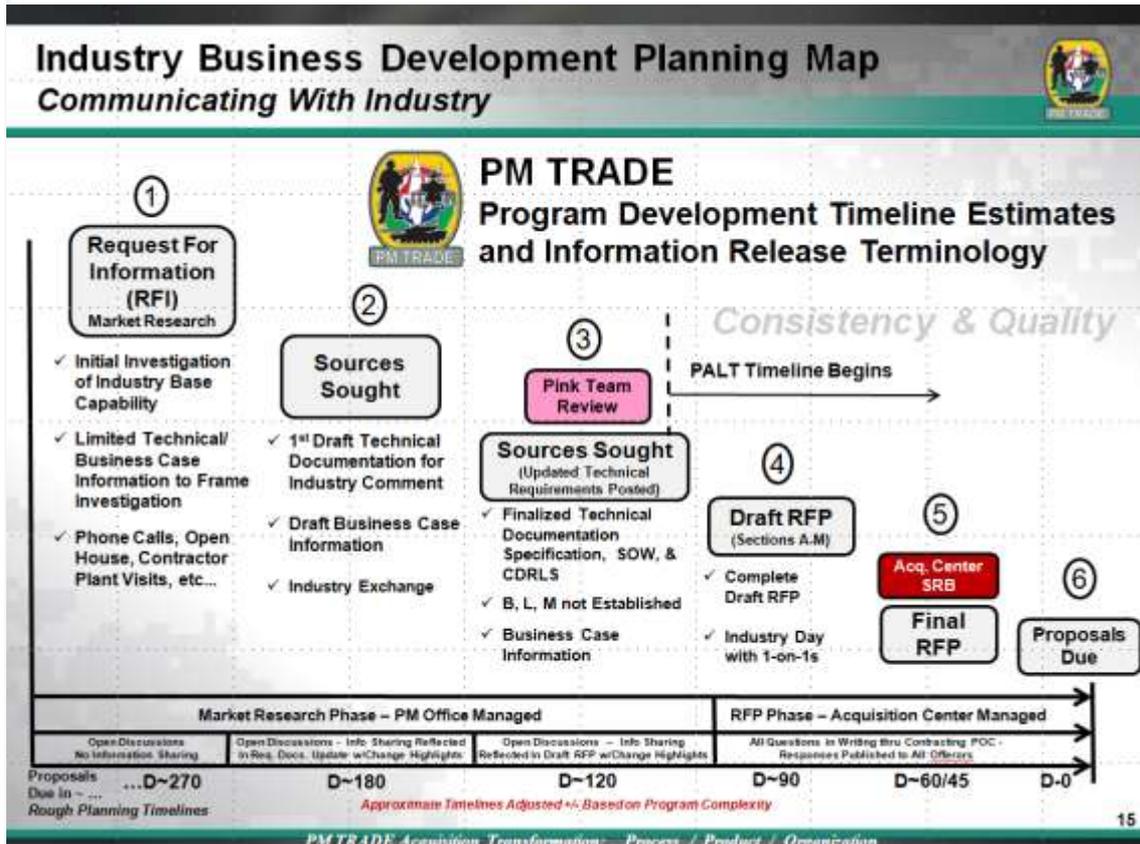
SUBJECT: Army Live Test and Training Common Technology Initiative

1. **Purpose.** This Memorandum of Agreement (MOA) between PM TRADE, PM ITTS, ATEC, DUSA-TE, ARL STTC, TCM-L, and DAMO-TRS, formally establishes an Army Live Test and Training Common Technology Initiative in the pursuit of common products and capabilities. This MOA defines the responsibilities of all organizations with respect to this effort and its initial focus of pursuing common development and use of test and training capabilities/technologies. Specifically, the efforts pursued under this initiative will promote the development of new and emerging products and applications that support the test and training communities by planning for, creating, and sustaining a Test and Training Test Bed to assist in the development (e.g., build-a-Bite, test-a-Bite, build-some-sense) of new technologies, standards and products to overcome capabilities' shortfalls of existing and future systems.

2. References.

- a. Memorandum, Secretary of Defense, 7 September 2006, Subject: Test and Training Interdependency Initiative.
- b. Memorandum, Secretary of the Army, 26 February 2007, Subject: Test and Training Interdependency Initiative.
- c. Memorandum of Agreement, U.S. Army Test and Evaluation Command (ATEC) and Deputy Chief of Staff of the Army G-3/5/7 (DAMO-TR), 14 May 2007, Test and Training Interdependency Initiative.

- Testing community will leverage training capabilities to satisfy future requirements
- Develop, demonstrate and transition technologies and/or systems that support Army Live Testing and Training requirements



“Rosetta Stone”

- AI 16: Communications with Industry
- Common Terminology
- Consistent Process
- Improving RFP Quality



<u>Organization</u>	<u>Program</u>	<u>RFP Release*</u>	<u>Award Date*</u>
PM CTIS	FDRIS	Aug 2012	Dec 2012
PM CTIS	AMITS	Sep 2012	Apr 2013
PM LTS	OneTESS	Jan 2013	Sep 2013
PM LTS	IEDES 1.5	Cancelled	Cancelled
PM LTS	CATSD	Nov 2012	Apr 2013
PM DT	AGI	22 Jun 12	Sep 2012
PM DT	HMDS Trainer	TBD	TBD

***All Dates are Tentative**

Ft. Drum RIS -- Range Instrumentation System

AMITS -- Army Mobile Instrumented Training System

OneTESS -- One Tactical Engagement Simulation System

IEDES -- Improvises Explosive Device Effects Simulator

HMDS -- Husky Mounted Detection System

CATSD -- Common Armor Target Silhouette Development

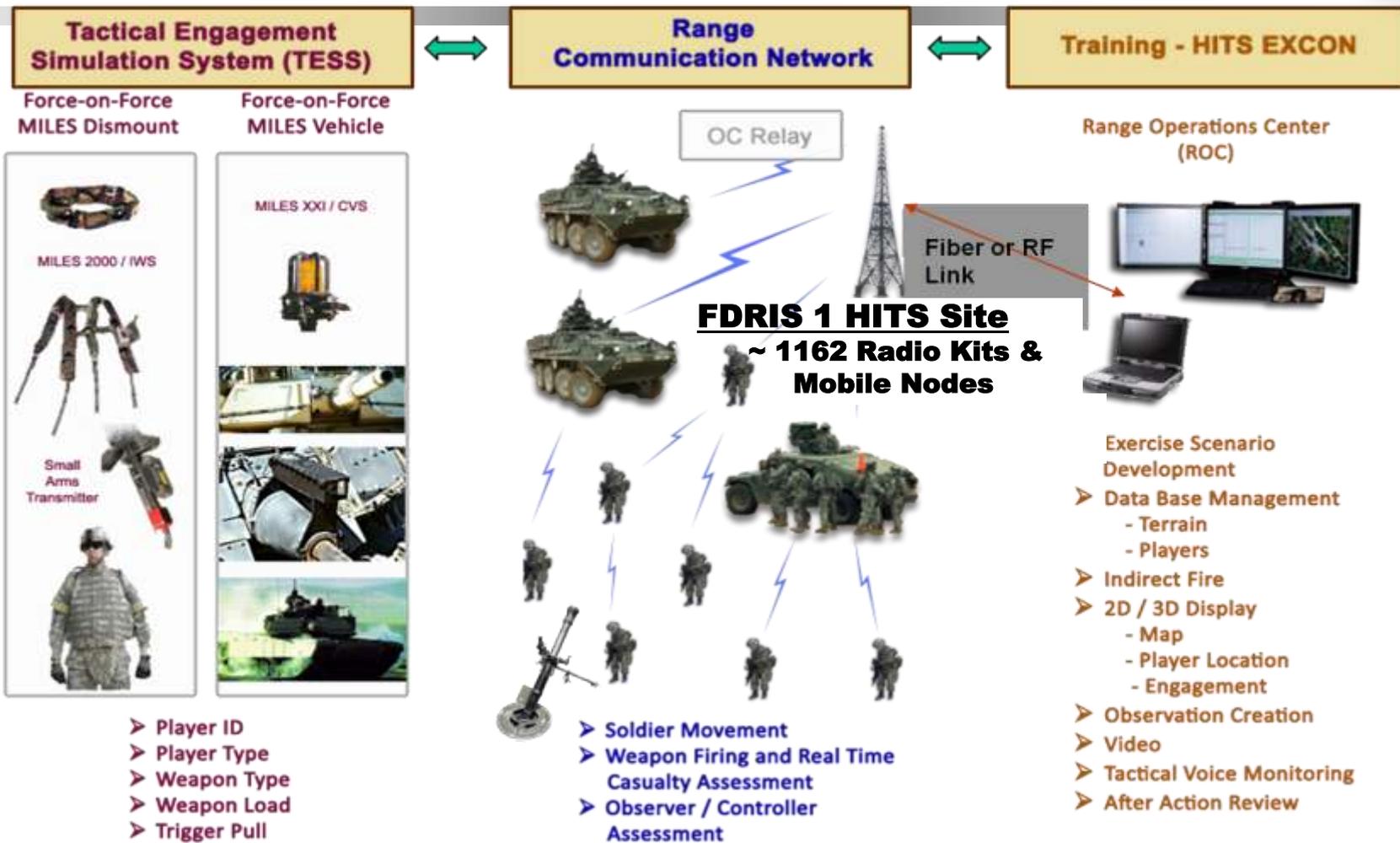
AGI -- Air Ground Integration

Description/Summary of Program Requirements

PEO STRI Project Manager for Training Devices (PM TRADE) has a requirement to procure one suite of communications networking equipment and radios for the Fort Drum HITS fielding in 3Q13.

The communications system provides the bidirectional interface between the HITS exercise control subsystem (EXCON) and the vehicles and soldiers equipped with U.S. Army Tactical Engagement Simulation Systems. This effort includes production and shipping of the network infrastructure and radio player units, individual and vehicle mounting kits, logistics data, spares, manuals, TESS and CTIA interface, New Equipment Training, system verification and validation, and technical support to the EXCON production vendor. PM TRADE will not fund any development under this effort.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES			
<ul style="list-style-type: none"> • Contract Vehicle: TBD • Firm Fixed Price (Tentative) • Lowest price technically acceptable (Tentative) 	<ul style="list-style-type: none"> • 9 months • First Delivery 5 Months After Award 	May 12  RFI	Jun 12  Sources Sought	Aug 12  RFP	Dec 12  Contract Award
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)			
Name: Mr. Mark Dasher Organization: PEO STRI / APM TRADE Phone: (407) 384-5201 Email: TRADE@peostri.army.mil	<ul style="list-style-type: none"> • OPA FY 12 ~ \$5M ~ \$6M 	<ul style="list-style-type: none"> • Current contract is Interim Range System (IRS) by Saab Training USA 			



Technical Requirements/Capability Very Similar to IRS Specification

Description/Summary of Program Requirements

PEO STRI Project Manager for Training Devices (PM TRADE) has a requirement to procure up to nineteen (19) Army Mobile Instrumented Training Systems (AMITS) at a fielding rate of one per quarter beginning in 4Q13 and ending in 4Q18. The AMITS, with existing TESS and future OneTESS, will provide the end-to-end Home Station Training Capability in a mobile configuration. AMITS consists of a mobile instrumentation control center with AAR capability, a bi directional communications network between the vehicles and soldiers equipped with TESS/OneTESS, and has the capability for remote configuration management updates. OneTESS indirect fire pairings will rely on AMITS to complete player RTCA pairings and not the MILES laser. OCONUS sites include Hawaii, Alaska, Germany, and Korea. PM TRADE will not fund any development under this effort.

ACQUISITION STRATEGY

- Contract Vehicle: TBD
- Contract Type: TBD
- Challenge is a system flexible enough to meet spectrum requirements for CONUS and OCONUS with reduced support / sustainment costs

PERIOD OF PERFORMANCE

- Base year award with 4 option years
- First Delivery 8 Months After Award

MILESTONES



POINT OF CONTACT

Name: Rob Wolf
 Organization: PEO STRI / PM TRADE
 Phone: (407) 384-5201
 Email: TRADE@peostri.army.mil

FUNDING

- OPA FY 13 – 18: ~ \$143 Million
- Base award ~ \$7M FY13 (1 Range)
- FY14 ~ \$29M (4 Ranges)
- FY15 ~ \$30M (4 Ranges)
- FY16 ~ \$30M (4 Ranges)
- FY17 ~ \$31M (4 Ranges)
- FY18 ~ \$16M (2 Ranges)

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

- New procurement

One Tactical Engagement Simulation System (OneTESS)



Description/Summary of Program Requirements

Mission – OneTESS Increment 1 will provide a battalion and below exercise live Force-on-Force training capability for the IBCT (dismounted) mortars (60mm/81mm/120mm) and Forward Observer at Home Station, Combat Maneuver Training Centers, and deployed sites.



OneTESS will provide the ability to integrate into training instrumentation systems such as the Homestation Instrumentation Training System (HITS), Combat Training Center-Instrumentation System (CTC-IS), and interoperable with I-MILES.

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES			
<ul style="list-style-type: none"> TBD based on results of Market Research 	<ul style="list-style-type: none"> Base year award with option years 	Jul 12 RFI	Sep12 Sources Sought	Jan 13 RFP Release	Sep 13 Contract Award
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)			
Name: Mr. Todd Kosis Organization: PEO STRI / PM LTS Phone: (407) 384-5201 Email: TRADE@peostri.army.mil	<ul style="list-style-type: none"> ~ \$14M OPA over FY13 – FY15 	<ul style="list-style-type: none"> New procurement 			

OneTESS Mortar Capability Major Components/Interfaces

OneTESS

Mortar Components

Mortar Kit (60mm, 81mm, 20mm)

- Barrel collar
- Mortar simulator round
- WOM processing unit
- Optical sensor
- Player unit (w/ radio interface)

Forward Observer Kit

- Player unit
- FO Tablet



**Interfaces to
CTCs and HITS
via the
Instrumentation
Radio**



Target Modernization Common Armor Target Silhouette Development



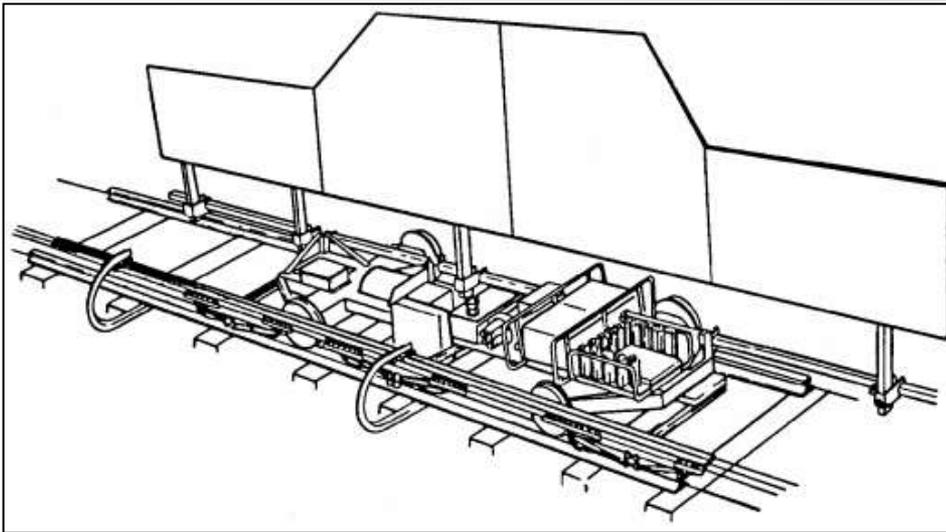
Description/Summary of Program Requirements

The Common Armor Target Silhouette will be designed and developed to create a family of standard armor silhouettes usable on all live fire training ranges, allowing for the creation of a National Stock Number to support ordering and resupply, and to reduce the overall weight of the armor silhouettes. The aim will focus on the manufacturing, replication, recycling, durability, and ability to support current Combat Identification (CID) technologies. This effort will develop only a limited number of target silhouettes. If the concept/technologies prove viable, additional silhouettes will be developed. All silhouette parameters are defined within TC 25-8.

This effort was delayed to support a detailed Cost Benefit Analysis in conjunction with PM ITTS to validate/quantify the life cycle cost avoidances to be realized via the change in silhouette materials.

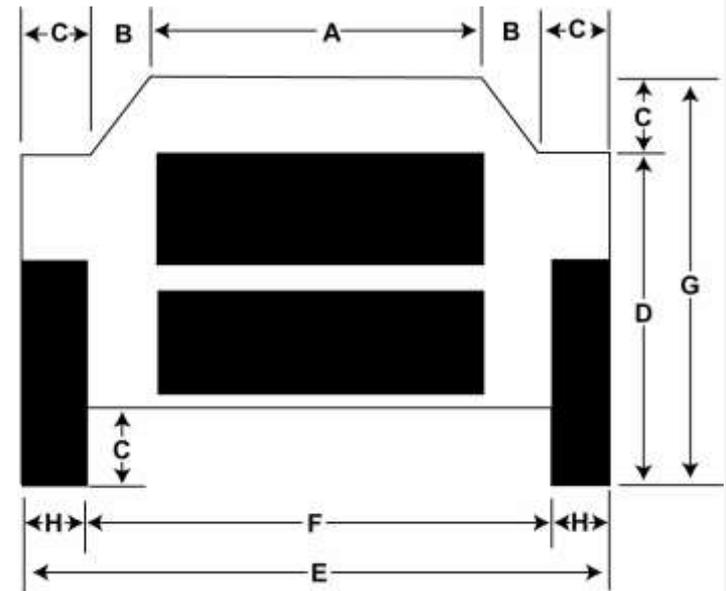
ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES												
<ul style="list-style-type: none"> • CARTS IDIQ; LOT III • Competitive • Single Award • Two phases: Definition and Prototype • Options are to define and build each TC 25-8 armor silhouette type 	<ul style="list-style-type: none"> • April 2013 to January 2014 (base) • February 2014 to May 2015 (options) 	<table border="0"> <tr> <td>Jul 12</td> <td>Oct 12</td> <td>Nov 12</td> <td>Apr 13</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RFI</td> <td>Sources Sought</td> <td>RFP</td> <td>Contract Award</td> </tr> </table>	Jul 12	Oct 12	Nov 12	Apr 13					RFI	Sources Sought	RFP	Contract Award
Jul 12	Oct 12	Nov 12	Apr 13											
														
RFI	Sources Sought	RFP	Contract Award											
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)												
<p>Name: Mr. James Todd</p> <p>Organization: PEO STRI / APM TRADE</p> <p>Phone: (407) 384-5201</p> <p>Email: TRADE@peostri.army.mil</p>	<ul style="list-style-type: none"> • ~ \$100K RDT&E Phase I • ~ \$300K RDT&E Phase II • ~ \$1,500K RDT&E (options) 	<ul style="list-style-type: none"> • New procurement 												

Target Modernization Common Armor Target Silhouette Development



- **The CATS silhouettes geometry and profiles will meet the defined standards in TC 25-8**
- **There are no expected modifications to be made to the lifting devices to support the CATS silhouettes other than the holding clamps**

- **The CATS silhouettes will support the ROC-V/CID overlays and thermal overlays**



Air Ground Integration (AGI) Village

Description/Summary of Program Requirements

AGI-Village is standardized group of 3D facades configured to support Aviation crew qualification and integration training for air and ground elements during advanced tables.

Requirements/Capabilities:

- 14 base structure "Urban Ballast"
- 13 buildings
- Ft Bliss, TX, Ft Carson, CO, and Yakima Training Area, WA
Option – Ft Bragg, NC



<p>Acquisition Strategy</p>	<p>Period of Performance</p>	<p>Milestones</p>
<p>-CARTS IDIQ; LOT IV</p> <ul style="list-style-type: none"> • LPTA (Low Price Technically Acceptable) • Single award 	<p>FY12 (4 months)</p>	<p>CARTS 3QRTFY12 4QRTFY12</p> <p style="text-align: center;">▲ ▲</p> <p>RFP Release Award</p>
<p>Point of Contact</p>	<p>Funding</p>	<p>Current Contract/Original Developer/OEM (if recompetete)</p>
<p>Name: Ms Randi Kahl Organization: PM DT Phone: 407-384-5194 Email: randi.kahl@us.army.mil</p>	<p>• FY12 (OPA) ~ \$3.6M</p>	

Husky Mounted Detection System (HMDS) Trainer

Description/Summary of Program Requirements

The U.S. Army is procuring a replacement to the Husky Mounted Detection System (HDMS) currently deployed to Operation Enduring Freedom to support mine-clearing operations. The product manager has requested PM TRADE to develop and field a realistic training system to support the replacement vehicles that will train operators in using the vehicle to identify buried improvised explosive devices.



The specific requirements are being developed. We anticipate that the training system will incorporate the current IEDES with enhanced capabilities. Software development initiatives will replicate the tactical software \Ground Penetrating Radar. The system will also interoperate with Instrumentable MILES. Approximately 300 training systems will be procured.

Acquisition Strategy	Period of Performance	Milestones
-TBD (based on RFI)	TBD	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>4QTRFY12</p>  <p>RFI</p> </div> <div style="text-align: center;"> <p>4QTRFY13</p>  <p>Award</p> </div> </div>
Point of Contact	Funding	Current Contract/Original Developer/OEM (if recompetete)
Name: LTC Tufts Organization: PM LTS Phone: 407-384-5201 Email: TRADE@peostri.army.mil	<ul style="list-style-type: none"> • FY13 (RDTE) ~ TBD • FY14/15 (OPA) ~ TBD 	

www.LT2Portal.org

LT2 Portal - Windows Internet Explorer
https://www.lt2portal.org/

U.S. ARMY **LIVE TRAINING COMMUNITY** TCM - LIVE

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NEWS/EVENTS

Events [SUBSCRIBE](#)

There are no events currently scheduled.

News

posted on: May 18, 2012
Future PM TRADE Capability Documents

posted on: April 16, 2012
Second Generation Product Line Management (2GPLM) article

posted on: February 24, 2012
PM TRADE YSIS Slide Update - Presented at IEDES Industry Day 22 Feb 2012

posted on: February 09, 2012
February 2012 Army Magazine - "Tomorrow's Training Technologies - Today"

posted on: December 20, 2011
Addressing Live Training Challenges at IITSEC 2011

posted on: December 19, 2011
UCF Student Given Military Honor

posted on: December 18, 2011
National Defense Magazine article "Battle-Scarred Troops Have Message for Army Training: Get Real"

posted on: November 14, 2011
2012 PEO STRI Desk-Side Reference Guide

posted on: November 06, 2011
Army Doctrine Publication (ADP) 3-0, Unified Land Operations

posted on: November 06, 2011
PM TRADE Industry Panel Brief

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