PEO STRI

Visit the Live Training
Community Portal at:
LT2Portal.org

COL Mike Flanagan

PM, Training Devices (PM TRADE)

PM TRADE

PM TRADE
PROJECT MANAGER TRAINING DEVICES

PM TRADE - I/ITSEC 2012 Schedule of Events

MONDAY, 3 DECEMBER
PM TRADE Grey Beard Session -
COL Flanagan, *Invitation Only*
- 1200 - 1400
- W203A

TUESDAY, 4 DECEMBER
Victory Architecture and
Specification Briefing -
Pat Sincebaugh
- 1000 - 1200
- W207C

ATESS Industry Day - Kyle Platt
- 1200 - 1315, Brown Bag Lunch
- W203A

PM TRADE TSIS Update -
COL Flanagan
- 1300 - 1345
- PM TRADE Booth 171

Meeting with MAST Customers -
Michael Plumtree, *Invitation Only*
- 1300 - 1400
- W204B

WEDNESDAY, 5 DECEMBER
Target Modernization -
James Todd
- 0900 - 1100
- W203A

Integration of Live Training
Standards - Mark Dasher
- 1130 - 1300, Brown Bag Lunch
- W203A

Meeting with Aviation FMS
Customers - Edward Grekoski,
Invitation Only
- 1300 - 1400
- W204B

THURSDAY, 6 DECEMBER
Product Support Publication
Requirements - Robin Alexander
- 1000 - 1100
- W204B

Live Training Campaign Plan Brief -
COL Flanagan
- 1300 - 1500
- W300

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PM TRADE - Contact Information

Team Live Training

Live Training Lines of Operation

STRI **PM TRADE**

Instrumentation Networks

O/Cs

Force-On-Target

Targets

Force-On-Force

Field TOC

CTC ExCon / Homestation / Live Fire Range Ops. Center

Battlefield Effects

Urban Operations
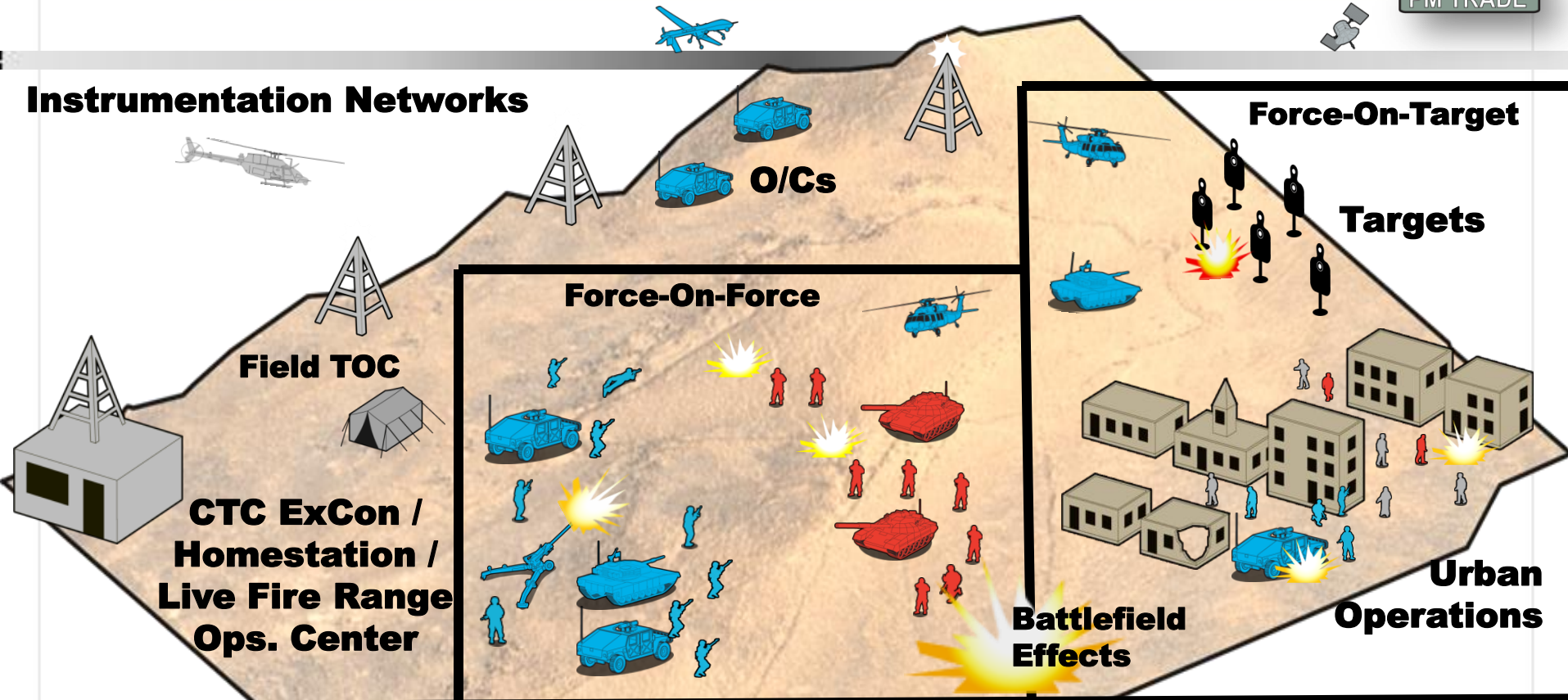
ExCon & Comms	Simulated Fire	Live Fire
ExCon, AAR, RF Comms. ABCS, & Network Data Management	Combined Arms Engagement Pairing BLUFOR & OPFOR	Instrumented Urban Operations, & Battlefield Effects
PM CTIS T-IS	**PM LTS** A-TESS	**PM DT** FASIT

Standards Management (CTIA, A-TESS, FASIT) - APM TRADE

PM TRADE

Aviation

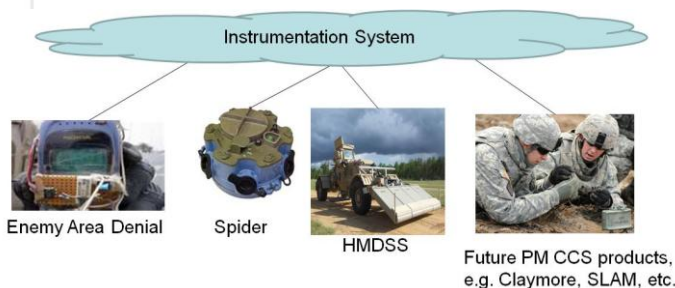Universal Common Ground Station (UGCS) or Mobile Control Station

LT2 Instrumentation System CTIA
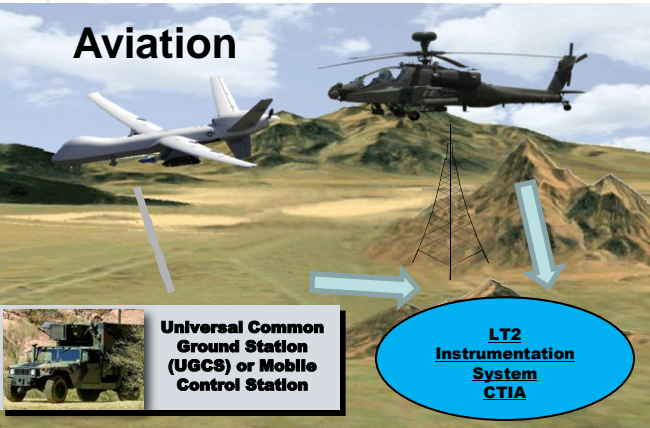
- **Incorporate UAS into Live Training**
- **Develop a MUM engagement capability**
- **Open Architecture/CTIA based**
- **Engage with FACE on Embedded Aviation**
- **Common Air/Ground Network**

Embedded Training

Gov't owned Reusable

LTEC software

Standard

Main Gun Laser Transmitter

Detector Belt

Vehicle Control Unit

- **Vehicular Integration for C4ISR/EW Interoperability (VICTORY)**
- **Standard for ground vehicles**
- **Component based TESS acquisitions**
- **PM TRADE Initiatives**
  - **Multifunction Vehicle Port Standard**
  - **Live Training Engagement Composition**

Area Denial

Instrumentation System

Enemy Area Denial   Spider   HMDSS   Future PM CCS products, e.g. Claymore, SLAM, etc.

- **Develop explosive standards for training**
- **Integrate into Force on Force environment**
- **Make the system instrumentable**
- **Provide mechanism to be able to add additional PM Close Combat Support products**

PM TRADE Partnerships

PM TRADE/PM TRASYS Partnership

❑ **Common Themes**
– Common Training Instrumentation Architecture (CTIA)
– Consolidated Product-line Management (CPM)
– Range Instru... Control (RISC...
– Target synch...
– Future Army Targets (FAS...
– Hosting Encl...

❑ **Initiatives**
– Player Unit (PU) radio and Spectrum
– Tactical Engagement Simulation Systems (TESS)
– Immersive environments
– Architecture migration & evolution
– Cultural training (role players)
– Information Assurance

Train to Fi... TOC...

New

PM TRADE/PM ITTS Partnership

❑ Test and Training (T&T) Initiatives
– Real Time Casualty Assessment (RTCA) enhancements. Ex: RTCA for new weapon systems, improve laser technology, embedded software
– Data Collection (data reporting and visualization). Ex: Enhance CTIA to support test community data analysis requirements
– After Action Review
– RF Network Improvements

❑ Achievements
– 1st Board of Directors meeting
– Signed charter between organizations
– Completed Phase 1 of the MILES testbed at the STTC
– Began new initiative to develop a field capability for the MILES testbed
– Began development of the Multi-function Vehicle Port

Army wide efficiencies through common T&T requirements, contracts and deploying common systems.
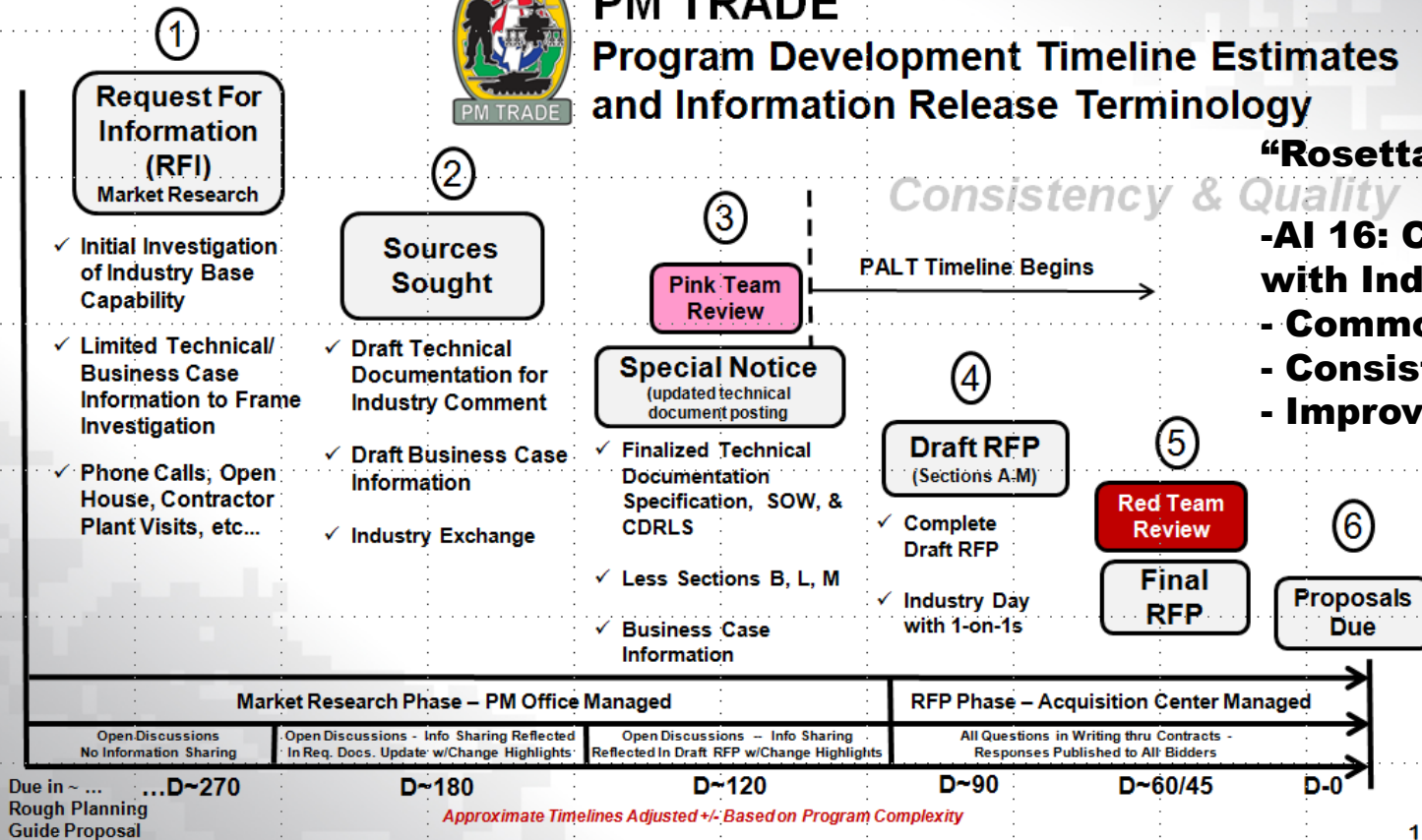
Business Opportunities

Industry Business Development Planning Map

PM TRADE
Program Development Timeline Estimates and Information Release Terminology

"Rosetta Stone"

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

Business Opportunities

*All Dates are Tentative

Organization	Program	RFP Release*	Award Date*
PM CTIS	AMITS	Mar 2013	Sep 2013
PM CTIS	JMRC-RCS	TBD	TBD
PM LTS	OneTESS	~~Jan 2013~~ Apr 2014	~~Sep 2013~~ Sep 2014
PM LTS	C-IED FoS	Jan 2014	Sep 2014
APM TRADE	CATSD	Jan 2013	Jun 2013
APM TRADE	Range 211 and Malone 2 Upgrades	Mar 2013	Jun 2013
APM TRADE	CPM Next	Mar 2014	Sep 2014
APM TRADE	N-CHS	**N-CHS Postponed Indefinitely Due to Funding**	
APM FMS	Serbia Instrumented MILES	TBD	Mar/Apr 2013

AMITS – Army Mobile Instrumented Training System
JMRC-RCS – JMRC Range Communications System
OneTESS – One Tactical Engagement Simulation System
C-IED FoS – Counter IED family of Systems

CATSD -- Common Armor Target Silhouette Development
CPM II - Consolidated Product line Management II
N-CHS – Non Contact Hit Sensor

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 4Q14 and ending in 4Q18. The AMITS, with existing TESS and future TESS, 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 future TESS, and has the capability for remote configuration management updates. Future 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 the initial 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

- FY13 – FY18
- Base year award with 5year + POP
- First Delivery 8-9 Months After Award

MILESTONES

Jun 12	Oct 12	Mar 13	4th Qtr13*
▲	▲	▲	▲
RFI	Sources Sought	RFP	Contract Award

*without discussions
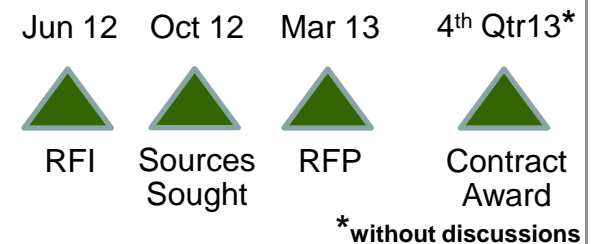
POINT OF CONTACT

Name: Rob Wolf

Organization: PEO STRI / PM TRADE

Phone: (407) 384-5233

Email: rob.wolf1@us.army.mil

FUNDING

- OPA : ~ $200-300 Million
  - ✓ Army and Customer funding
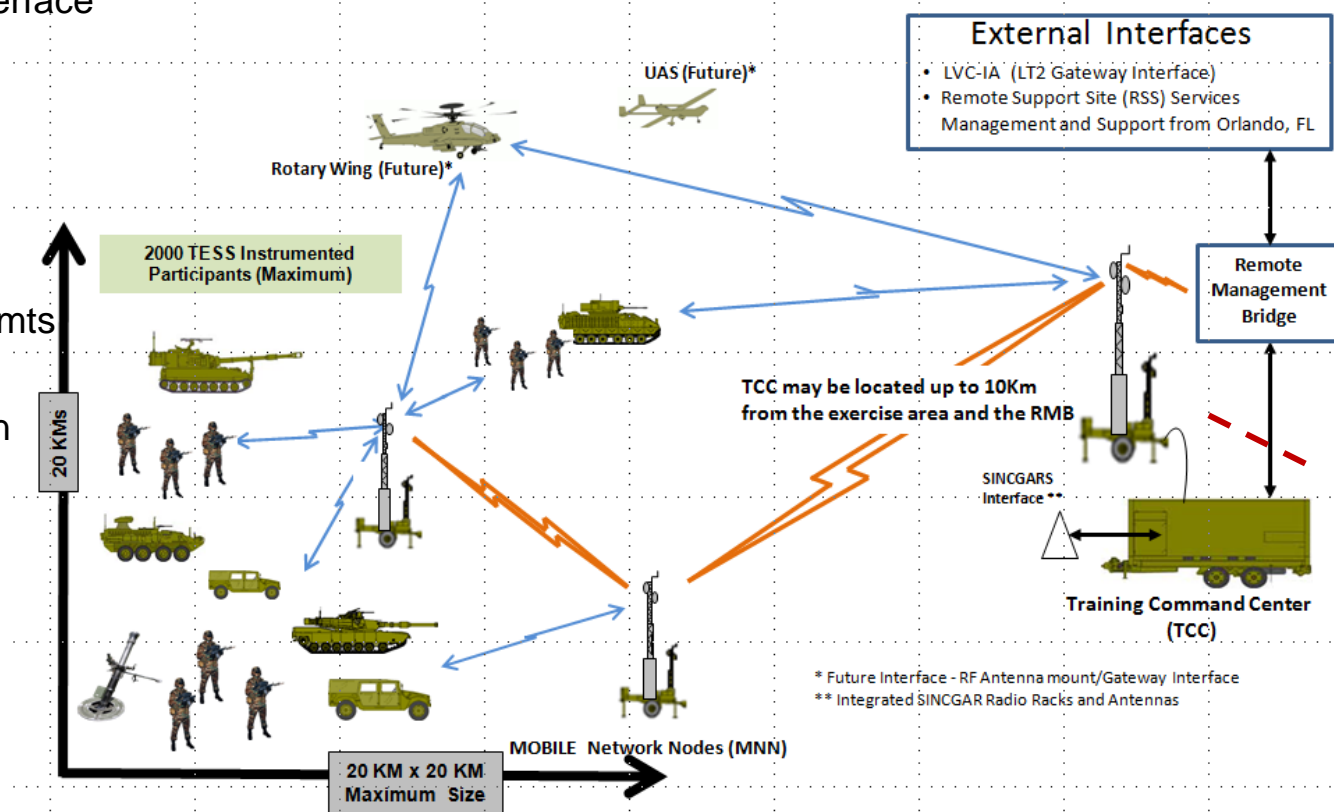- Base Award FY13 (1 Range)
  - ✓ Fort Carson CO

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

- New procurement

The System
- Mobile Shelter, 4 operator stations (SBU)
- Up to 20Km x 20Km exercise area
- Up to 2000 Radios w/TESS interface
- Architecture Supports Growth
  - ✓ Future TESS
  - ✓ OTA CM, Remote Support
    - • Provided by CPM
- 19-31 CONUS/OCONUS sites
- Supports Army & Customer Rqmts
- NDI Solution
- Low Risk Fast Track Acquisition
  - ✓ Supports LVC-IA Fieldings

AMITS Functional Architecture

External Interfaces
- LVC-IA (LT2 Gateway Interface)
- Remote Support Site (RSS) Services Management and Support from Orlando, FL

UAS (Future)*

Rotary Wing (Future)*

2000 TESS Instrumented Participants (Maximum)

20 KMs

TCC may be located up to 10Km from the exercise area and the RMB

Remote Management Bridge

SINCGARS Interface **

Training Command Center (TCC)

20 KM x 20 KM Maximum Size

MOBILE Network Nodes (MNN)

* Future Interface - RF Antenna mount/Gateway Interface
** Integrated SINCGAR Radio Racks and Antennas

Description/Summary of Program Requirements

PM TRADE has a tentative requirement to modernize JMRC voice, data and video infrastructure and components to satisfy current and future force training requirements. The requirements will likely be very similar to the CTC-IS requirements.

NEW – Solidifying Program Requirements – Possible RFI Release Dec 2012 or Jan 2013

ACQUISITION STRATEGY

- Contract Vehicle: TBD
- Contract Type: TBD

PERIOD OF PERFORMANCE

- FY14 – FY18

MILESTONES

Jan 2013	TBD	TBD	TBD
RFI	Sources Sought	RFP	Contract Award

POINT OF CONTACT

Name: TBD

Organization: PEO STRI / PM TRADE

Phone: (407) 384-xxx

Email:

FUNDING

- OPA : ~ $40M-$60M

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 live, precision, combined arms Indirect Fire (IDF) Force-on-Force training capability for the IBCT (dismounted) mortars (60mm/81mm/120mm) and Forward Observer at Brigade and below exercises, at Home Station, Combat Maneuver Training Centers and deployed sites and will be interoperable with I-MILES laser based systems. It will provide realistic, real-time casualty effects for indirect fire tactical engagements, automated casualty/maintenance assessment, and the ability to integrate into training instrumentation systems such as the Homestation Instrumentation System (HITS) and the Combat Training Center-Instrumentation System (CTC-IS).

ACQUISITION STRATEGY
• TBD based on results of Market Research

PERIOD OF PERFORMANCE
• FY15 – FY18
• Base year award with option years

MILESTONES

Oct 13	Dec 13	Apr 14	Sep 14
▲	▲	▲	▲
RFI	Sources Sought	RFP Release	Contract Award

POINT OF CONTACT
Name: Mr. Todd Kosis

Organization: PEO STRI / PM LTS

Phone: (407) 384-5352

Email: todd.kosis@us.army.mil

FUNDING
• ~ $10M-$14M, OPA

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)
• New procurement

OneTESS

Mortar Components

Mortar Kit (60mm, 81mm, 120mm)

- – 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

Counter-IED Family of Systems (C-IED FoS)

Description/Summary of Program Requirements

Mission – C-IED FoS will provide a brigade and below exercise live Force-on-Force training capability for Spider Networked Munitions, Husky Mounted Detection System Surrogate (HMDSS), and Enemy Area Denial Systems at Home Station, Combat Maneuver Training Centers, and deployed sites.

C-IED FoS 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 and Improvised Explosive Device Effects Simulator (IEDES).

ACQUISITION STRATEGY

• TBD based on results of Market Research

PERIOD OF PERFORMANCE

• FY14 – FY18
• Base year award with option years

MILESTONES

Feb 13	Jun 13	Jan 14	Sep 14
▲	▲	▲	▲
RFI	Sources Sought	RFP Release	Contract Award

POINT OF CONTACT

Name: Mr. Ron Inmon

Organization: PEO STRI / PM LTS
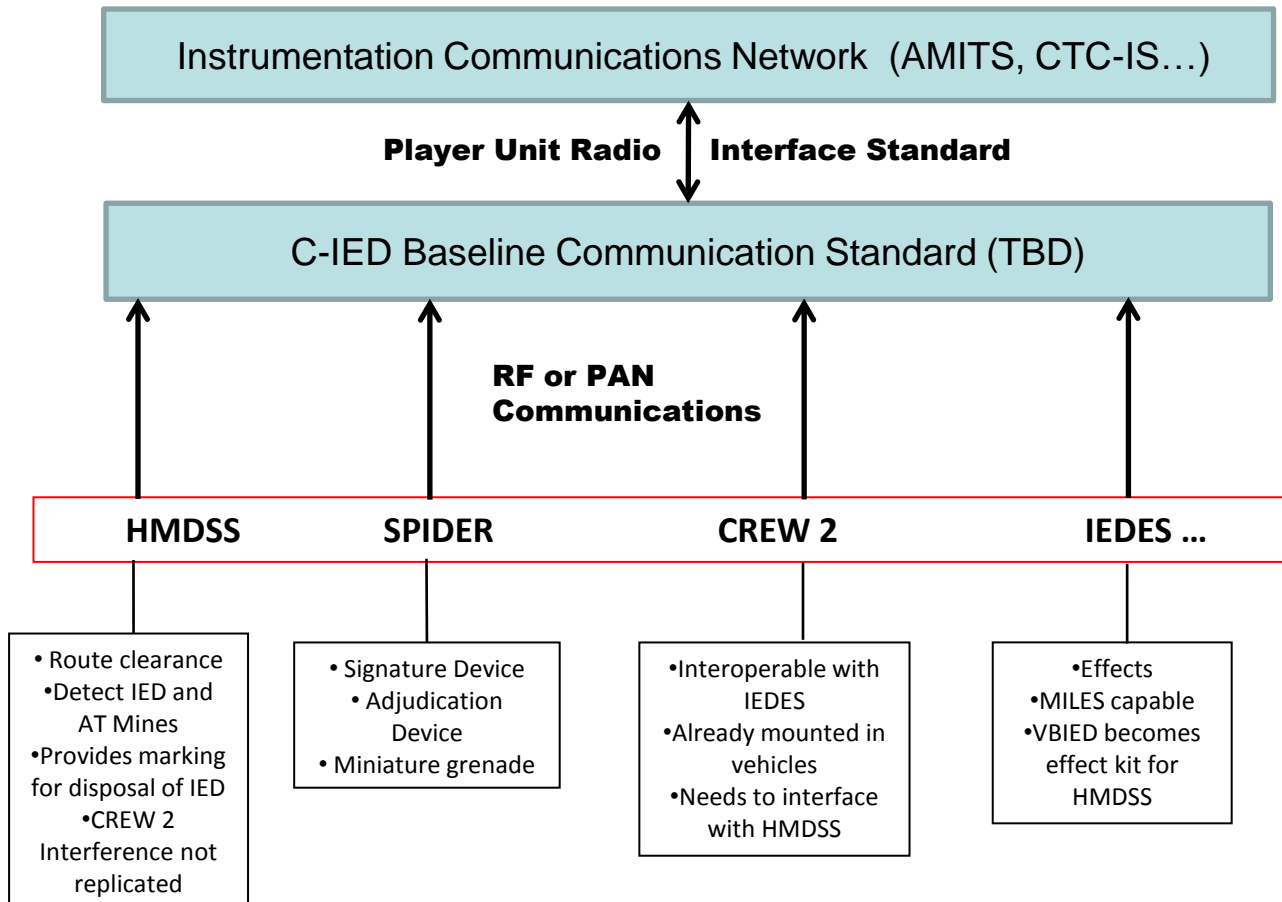
Phone: (407) 208-3364

Email: ron.inmon@us.army.mil

FUNDING

• ~ $108M-$132M, OPA

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

• New procurement

Instrumentation Communications Network (AMITS, CTC-IS…)

Player Unit Radio | **Interface Standard**

C-IED Baseline Communication Standard (TBD)

RF or PAN Communications

HMDSS	SPIDER	CREW 2	IEDES …

• Route clearance
•Detect IED and AT Mines
•Provides marking for disposal of IED
•CREW 2 Interference not replicated

• Signature Device
• Adjudication Device
• Miniature grenade

•Interoperable with IEDES
•Already mounted in vehicles
•Needs to interface with HMDSS

•Effects
•MILES capable
•VBIED becomes effect kit for HMDSS

• **IEDES 315/433 MHz Communications become the baseline**

• **PAN can be used dependent on maturity of technology**

• **Holistic PAN solution may not be the best methodology**

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.
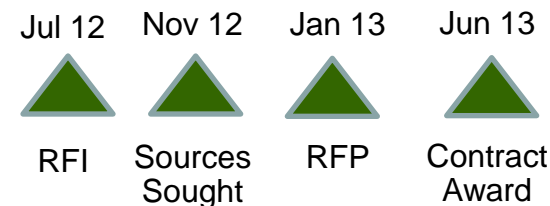
ACQUISITION STRATEGY
- CARTS IDIQ; LOT III
- Competitive (Phases II and III)
- Singe Award
- Phase II: Definition and Prototype
- Phase III: Options to define and build each TC 25-8 armor silhouette type

PERIOD OF PERFORMANCE
- June 2013 to March 2014 (base)
- February 2014 to May 2015 (options)

MILESTONES

Jul 12	Nov 12	Jan 13	Jun 13
▲	▲	▲	▲
RFI	Sources Sought	RFP	Contract Award

POINT OF CONTACT

Name: Mr. James Todd

Organization: PEO STRI / APM TRADE

Phone: (407) 384-3905

Email: james.todd3@us.army.mil

FUNDING
- ~ $100K RDT&E Phase I (awarded)
- ~ $240K-$360K RDT&E Phase II
- ~ $1.2M-$1.8M RDT&E Phase III (options)

### CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)
- Phase I – Proof of Principle – Analytical Services (awarded April 2012 via PM ITTS)
- Phase II and III - New procurement

- The CATS silhouettes will support the ROC-V/CID overlays and thermal overlays
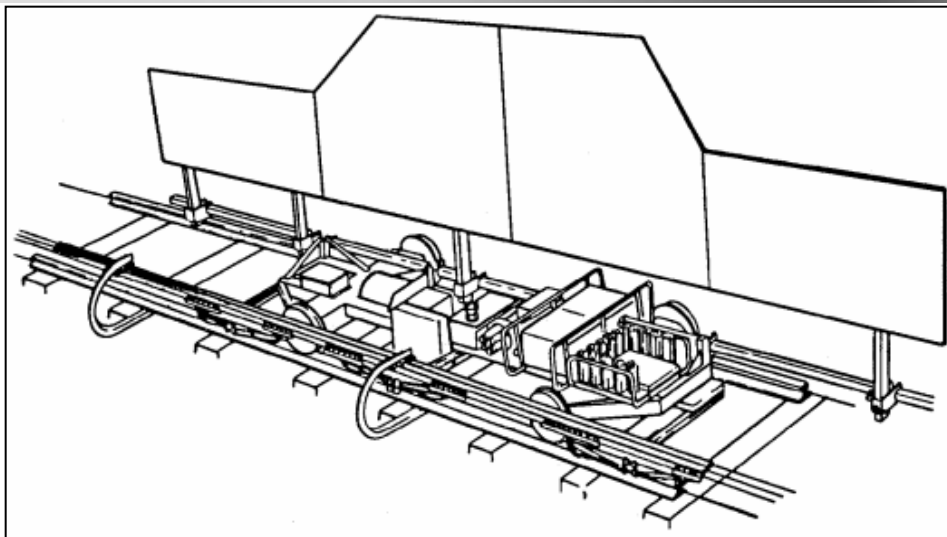
- The CATS silhouettes geometry and profiles will meet the defined standards in TC 25-8

- There are no expected modifications to be made to the lifting devices to support the CATS silhouettes other than the holding clamps
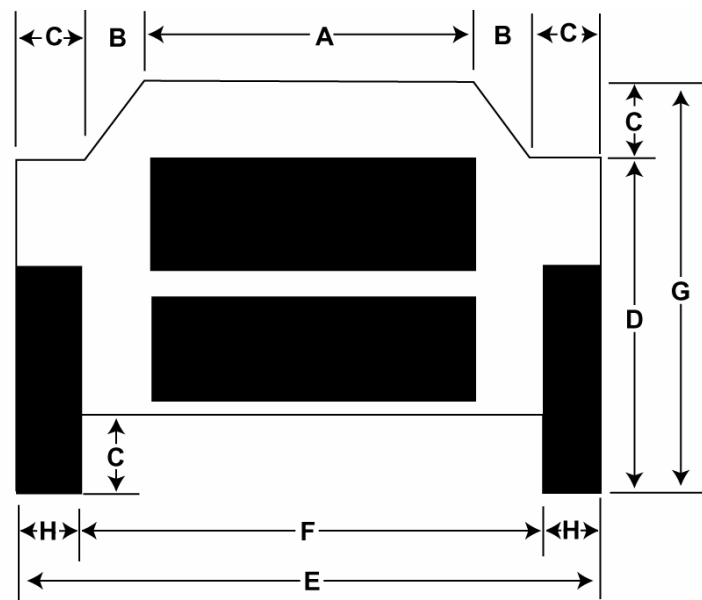
THERMAL MODULE PLACEMENT

Description/Summary of Program Requirements

Range 211 in Grafenwoehr Germany is a legacy ERETS range, consisting of 19 Stationary Armor Targets (SATs), 103 Stationary Infantry Targets (SITs), and 3 Moving Armor Targets (MATs). The range will be upgraded with FASIT targets employing a DSL network over the existing ERETS infrastructure. Additional upgrades may be required for the MATs (rails, docking station, RF communication, etc). No upgrade will be required to the Range Control System, currently TRACR, though network connections between the DSL and TRACR will be required.

Malone 2 at Fort Benning is a legacy LOMAH range, consisting of 32 lanes of targets, with targets at 75m, 175m, and 300m (for a total of 96 SITs/LOMAH positions). The range will be upgraded with FASIT targets, FASIT ICD compliant LOMAH bars, FASIT ICD compliant shot sensors, and FASIT/TRACR compliant student stations. Upgrade will be implemented via a DSL network over the exiting infrastructure. No upgrade will be required to the Range Control System under this contract.

ACQUISITION STRATEGY

- CARTS IDIQ; LOT I
- Competitive
- Singe Award
- Phase I: Upgrade Range 211 in Germany
- Phase II: Upgrade Malone 2 (LOMAH) at Fort Benning

PERIOD OF PERFORMANCE

- ~ 10 Months

MILESTONES

Dec 12	Jan 13	Mar 13	Jun 13
▲	▲	▲	▲
RFI	Sources Sought	RFP	Contract Award

POINT OF CONTACT

Name: Mr. James Todd

Organization: PEO STRI / APM TRADE

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Email: james.todd3@us.army.mil

FUNDING

- ~ $2.2M-$3.2M OPA

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

- N/A

Description/Summary of Program Requirements

The CPM Next contract is to continue the managed evolution of the LT2 product line (P/L) and provide total life-cycle support to product managers within the LT2 P/L. The CPM Next contract will continue to meet the requirement for a consolidated streamlined approach that protects and leverages the Army's LT2 P/L investment, continues to evolve the core assets, architectural frameworks, and the LT2 P/L construct while continuing to provide PM TRADE an efficient, effective and agile method to accomplish:

- Management, maintenance, and evolution of the LT2 P/L products, processes and core assets
- Total life-cycle system management P/L support of systems/products within the LT2 P/L family of training systems
- P/L support of systems/products that leverage LT2 P/L assets
- Support of external interoperability initiatives such as LVC-ITE, Joint and Foreign Military Sales
- Synchronization with the Warfighter FOCUS (WFF) contract

ACQUISITION STRATEGY

- Contract Vehicle: TBD
- Contract Type: TBD

PERIOD OF PERFORMANCE

- TBD

MILESTONES

TBD	TBD	2QFY14	4QFY14
▲	▲	▲	▲
RFI	Source Sought	RFP	Contract Award

.... CPM Recompete Heads Up ......
Just Started to Initiate Internal CPM Recompete Process

POINT OF CONTACT

Name: Michael Dillon

Organization: PEO STRI / PM TRADE

Phone: (407) 384-5236

Email: Mike.Dillon@us.army.mil

FUNDING

- Ceiling: TBD

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

- GDC4S is currently executing a 5year POP CPM

Description/Summary of Program Requirements

PM TRADE has a requirement to provide in-production, US Army tested and approved MILES IWS system hardware, support equipment, spares, New Equipment Training (NET) and part-time interim CLS support for the Serbian Army.

- <u>MILES kits (M21, MG249, TRG22/42, M76)</u> (120 Qty)
- <u>Controller / Observer Controller Gun)</u> (4 Qty)
- <u>Small Arms Alignment Kit/Device</u> (4 Qty)
- <u>After Action Laptop, software, license</u> (1 Qty)
- <u>Independent Target Kits for HMMWV</u>(4 Qty)
- <u>Instrumented MILES spares and Special Tool/Test Equipment (ST&TE)</u> (1 LOT)

ACQUISITION STRATEGY

- Contract Vehicle: TBD
- Firm Fixed Price (Tentative)
- Lowest price technically acceptable (Tentative)

PERIOD OF PERFORMANCE

- ~ 24 Months

MILESTONES

Sept 12	Nov 12	TBD	Mar/Apr 13
▲	▲	▲	▲
LOA	Sources Sought	RFP	Contract Award

POINT OF CONTACT

Name: MAJ Robert DeGaine III

Organization: PM TRADE / APM FMS

Phone: (407) 384-3732

Email: robert.degaine@us.army.mil

FUNDING

- $900K - $1100K

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

- New Start

www.LT2Potral.org