



# PM TRADE

LTC Scott Tufts  
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NDIA Air Targets and UAV Division Symposium

Visit the Live Training  
Community Portal at:  
[LT2Portal.org](http://LT2Portal.org)



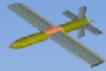


- PEO STRI is working numerous force on force initiatives to enhance training
- Bring indirect fire capability into the force on force environment
- Maintain concurrency with aircraft modernization
- Develop core services to eliminate or minimize training hardware devices

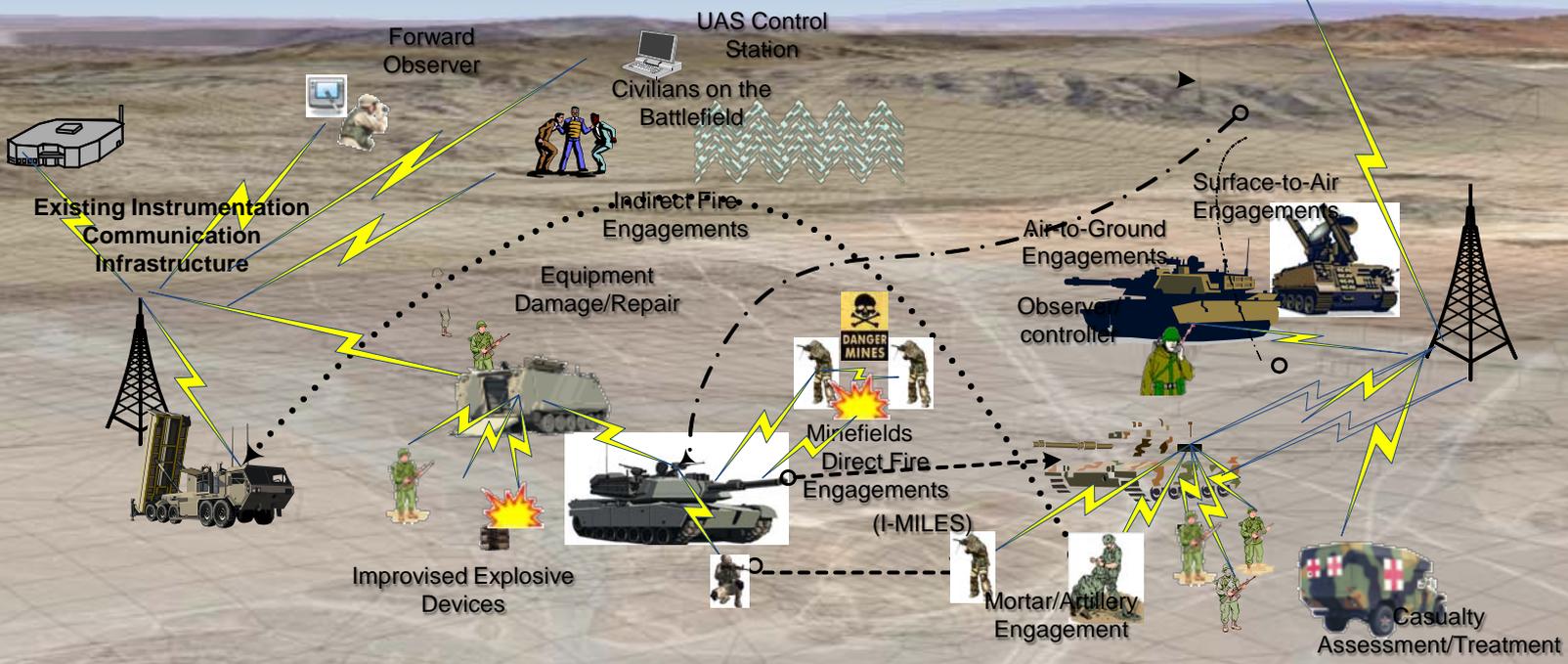
# Live Force on Force Environment



Global Positioning System



Unmanned Aerial System (UAS)



# I-MILES Product Overview

# STRI



**Tactical Vehicle System  
TVS**

**Universal Controller Device  
UCD**



**Individual Weapons System  
IWS**



**Tactical Vehicle System TVS**



**Shoulder Launched Munitions  
SLM**



**Individual Weapons System  
IWS**



**Combat Vehicle Tactical Engagement  
Simulation System  
CVTESS**

- Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) program**
- Provides realistic, real-time casualty effects for force-on-force tactical engagement training scenarios.
  - Improves the warfighter's capability to prepare for combat operations through enhanced After Action Reviews (AARs).
  - Instrumentable – Communicates position, engagement and casualty assessment data to Homestation and CTC training Instrumentation Systems.
  - Replicates the engagement effects of their intended "line of sight" weapons systems.
  - Allows training and assessment of individual and collective tasks during force-on-force operations.
  - The devices use an eye-safe Class 1 and Class 3A laser.
  - Backwards compatible with all previously fielded legacy MILES systems.

# OneTESS Overview



# STR



## OneTESS Mortar Components

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

1. Barrel collar
2. Mortar simulator round
3. WOM processing unit
4. Optical sensor
5. OMNI

### **Forward Observer Kit**

6. OMNI
7. FO Tablet

## One Tactical Engagement Simulation System (OneTESS) Program

- OneTESS will provide a live, precision, combined arms Indirect Fire (IDF) Force-on-Force training capability for Brigade and below exercises, at Home Station, Combat Maneuver Training Centers and deployed sites .
- OneTESS will be interoperable with I-MILES laser based systems.
- It will provide realistic, real-time casualty effects for indirect fire tactical engagements 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).
- Reinforces proper crew drills in order to bring accurate fires on target.
- Provides augmented reality to the live environment – the forward observer can observe virtual explosions on his tablet and allowing the FO to adjust fires

# Aviation TESS Modernization



STR1



## Aviation TESS Modernization

- As rotary wing fleet is modernized, the TESS on the aircraft need to be upgraded with it
- Currently, upgrading the aviation TESS to be able to work with UH-60M aircrafts
- Currently developing TESS for the Kiowa CASUP program (OH-58F)
- Preparing to upgrade TESS for the CH-47F aircraft



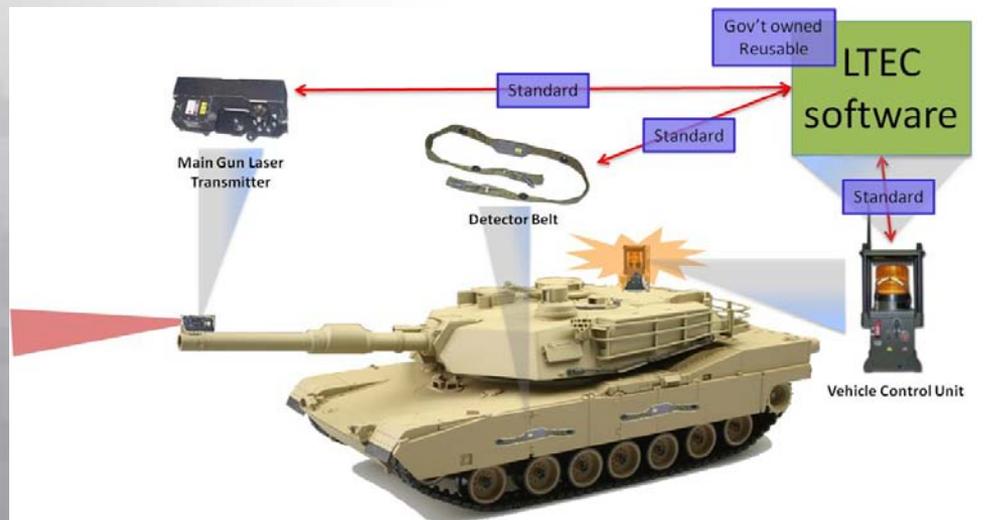
# Live Training Engagement Composition (LTEC) Overview

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## Live Training Engagement Composition (LTEC)

- LTEC will provide a set of reusable core capabilities for live force on force training
- LTEC enables embedding of training capabilities into platforms and for dismounts using organic assets, eliminating the need for appending training systems (hardware, devices, etc.)
- System PMs can incorporate some, all, or none of LTEC capabilities that meets their training needs.
- LTEC will be highly modular and be able to grow to add additional training capabilities
- Currently, LTEC is capable of replacing the MILES “brain box” or the components that performs MILES adjudication and pass the information to the platform devices – (Stryker Vehicle Data Electronic Terminal (VDET))





## **PM Training Devices (TRADE)**

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