• 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

- Surface-to-Air Engagements
- Air-to-Ground Engagements
- Indirect Fire Engagements
- Direct Fire Engagements

- Casualty Assessment/Treatment
- Improvised Explosive Devices
- Minefields (I-MILES)
- Observer/controller
- Civilians on the Battlefield
- Forward Observer

- Global Positioning System
- Unmanned Aerial System (UAS)
- Existing Instrumentation Communication Infrastructure
- UAS Control Station
- Equipment Damage/Repair
- Indirect Fire Engagements
- Mortar/Artillery Engagement
- Mortar/Artillery Engagement (I-MILES)

- Global Positioning System
- Unmanned Aerial System (UAS)
- Equipment Damage/Repair
- Indirect Fire Engagements
- Mortar/Artillery Engagement
- Mortar/Artillery Engagement (I-MILES)
I-MILES Product Overview

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

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

- 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

- 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)).

Live Training Engagement Composition (LTEC)
PM Training Devices (TRADE)

Address: PEO STRI/ATTN: SFAE-STRI-PM TRADE
12350 Research Parkway
Orlando, Florida 32826-3276

Telephone/FAX
(407) 384-5201 (O) | (407) 384-5210 (FAX)
TRADE@peostri.army.mil