Instrumentable-Multiple Integrated Laser Engagement System (I-MILES)

INVESTMENT COMPONENT

- **Modernization**
- Recapitalization
- Maintenance

MISSION

Provides force-on-force and force-on-target collective training at home stations and Combat Training Centers (CTCs).

DESCRIPTION

The Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) is the Army's primary live simulation system and is composed of several component systems. I-MILES products include man-worn systems, combat vehicle systems, target systems, shoulder-launched systems, and controller devices. The system operates within a live, virtual, and constructive integrated architecture that supports Army and Joint exercises.

The I-MILES Combat Vehicle Tactical Engagement Simulation System (CV TESS) provides live training devices for armored vehicles with fire control systems including Bradley Fighting Vehicles and Abrams Tanks. It interfaces and communicates with CTCs and home station instrumentation, providing casualty and battlefield damage assessments for after-action reporting. I-MILES CV TESS provides real-time casualty effects necessary for tactical engagement training in direct fire force-on-force and instrumented training scenarios.

The I-MILES Individual Weapons System (IWS) is a man-worn dismounted system, providing event data that can be downloaded for use in an after-action review and training assessment. The IWS replaces Basic MILES IWS at home stations and Maneuver CTCs Army-wide.

The Tactical Vehicle Systems (TVS) encompasses the Wireless Independent Target System (WITS) and replaces the previously fielded Independent Target System (ITS) and other Basic MILES currently fielded on non-turret military vehicles. TVS/WITS designs include Stryker variants, tactical wheeled vehicle configurations, and a separate configuration for tracked/oversized vehicles such as the M113 and Mine Resistant Ambush Protected Vehicles.

The Shoulder Launched Munitions (SLM) replaces Basic MILES and provides better training fidelity for blue forces' AT4 weapons and threat weapons using opposing force RPG7 visual modifications.

The Universal/Micro Controller Devices (UCD/MCD) are low-cost, lightweight devices used by observer controllers and maintenance personnel to initialize, set up, troubleshoot, reload, reset, resurrect, and manage participants during live force-on-force training exercises. These modular, self-contained devices interact and provide administrative control of all other MILES devices.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

IWS:

- **Current:** Fielded approximately 14,000 IWS kits to the National Training Center (NTC) and over 64,000 kits Army-wide

MXXI CVS:

- **Current:** Fielded over 400 systems to the NTC and Joint Readiness Training Center

SLM:

- **Current:** Fielded over 1,000 SLM kits to NTC and over 6,000 kits Army-wide

UCD/MCD:

- **Current:** Fielded over 14,000 UCD/MCD kits Army-wide

TVS/WITS:

- **Current:** Fielded approximately 11,000 WITS kits to various home stations

PROJECTED ACTIVITIES

IWS:

- **FY12:** IWS testing completed and begin fielding

UCD/MCD:

- **FY12:** Complete basis of issue

CV TESS:

- **FY12:** CV TESS will complete testing

TVS:

- **FY12:** TVS will begin fielding

ACQUISITION PHASE

Technology Development | Engineering and Manufacturing Development | **Production and Deployment** | Operations and Support

Instrumentable-Multiple Integrated Laser Engagement System (I-MILES)

FOREIGN MILITARY SALES
None

CONTRACTORS
IWS:
CUBIC Defense Sys. (San Diego, CA)
WITS:
Lockheed Martin (Orlando, FL)
TVS:
CUBIC Defense Systems (San Diego, CA)
MXXI CVS:
Lockheed Martin (Orlando, FL)
SLM:
Lockheed Martin (Orlando, FL)
CV TESS:
To be determined