

2EO STRI



PM TRADE COL Mike Flanagan

*Our # 1
Focus*

**Providing our Soldiers
realistic training
environments and
equipment to ensure
they are the best
trained force in the
World**



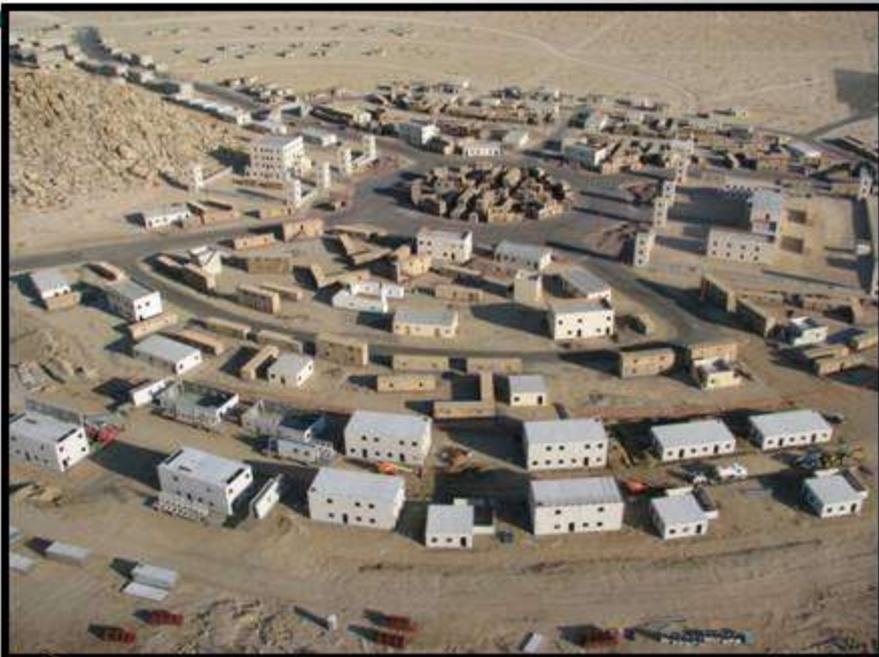
**AFCEA
19 October 2011**

www.LT2portal.org

PM TRADE Develops & Fields Training Ranges and Instrumentation for the US Army and our Allies



Each training range has exercise monitoring and control centers to collect data and develop After Action Review training packages



One of three Instrumented Urban Complexes on a 1000 Sq. Mile Training Range



Realistic Training Environments: This fully instrumented 600+ building complex includes an Embassy, Courthouse, Police Stations, National Army HQ, and a host of other typical urban business with role players to enhance realism.

After Action Reviews (AAR) are the primary means of teaching Soldiers. State-of-the-art Soldier tracking and weapon instrumentation, dynamic targets, and extensive video monitoring throughout all ranges enable detailed AARs.

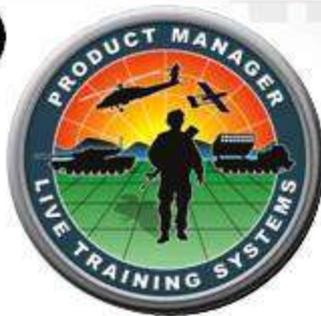
PM TRADE has 3 Major Program Areas



1. Live Training Systems (LTS)

Weapon Firing Simulation Programs

- Individual Weapons: M-16, 50cal (215K Fielded)
- Wireless Independent Dynamic Targets (45K)
- Combat Vehicle Systems: Tanks, Bradley, Stryker (3K)
- Shoulder Launched Munitions (7K)
- Other* (Aviation, IED simulators, Counter IED...)



LTS Mission Area

*Simulating live ammunition using **LASERS** and electronic messages to support **Force-on-Force** training exercises – **MILES** devices*

Over 300,000 MILES devices fielded

2. Digitized Training (DT)

Force-on-Target Ranges

- Tank Gunnery Ranges (30 Ranges)
- Instrumented Urban Centers (76 Ranges)
- Small Arms Ranges (110 ranges, 30 Installations)



DT Mission Area

*Instrumenting Live Fire Training (**Force-on-Target**) Ranges supporting tank gunnery and **Urban Range** environments*

Integrating over 200 Live Fire Training Ranges

3. Combat Training Instrumentation Systems (CTIS)

Force-on-Force Training

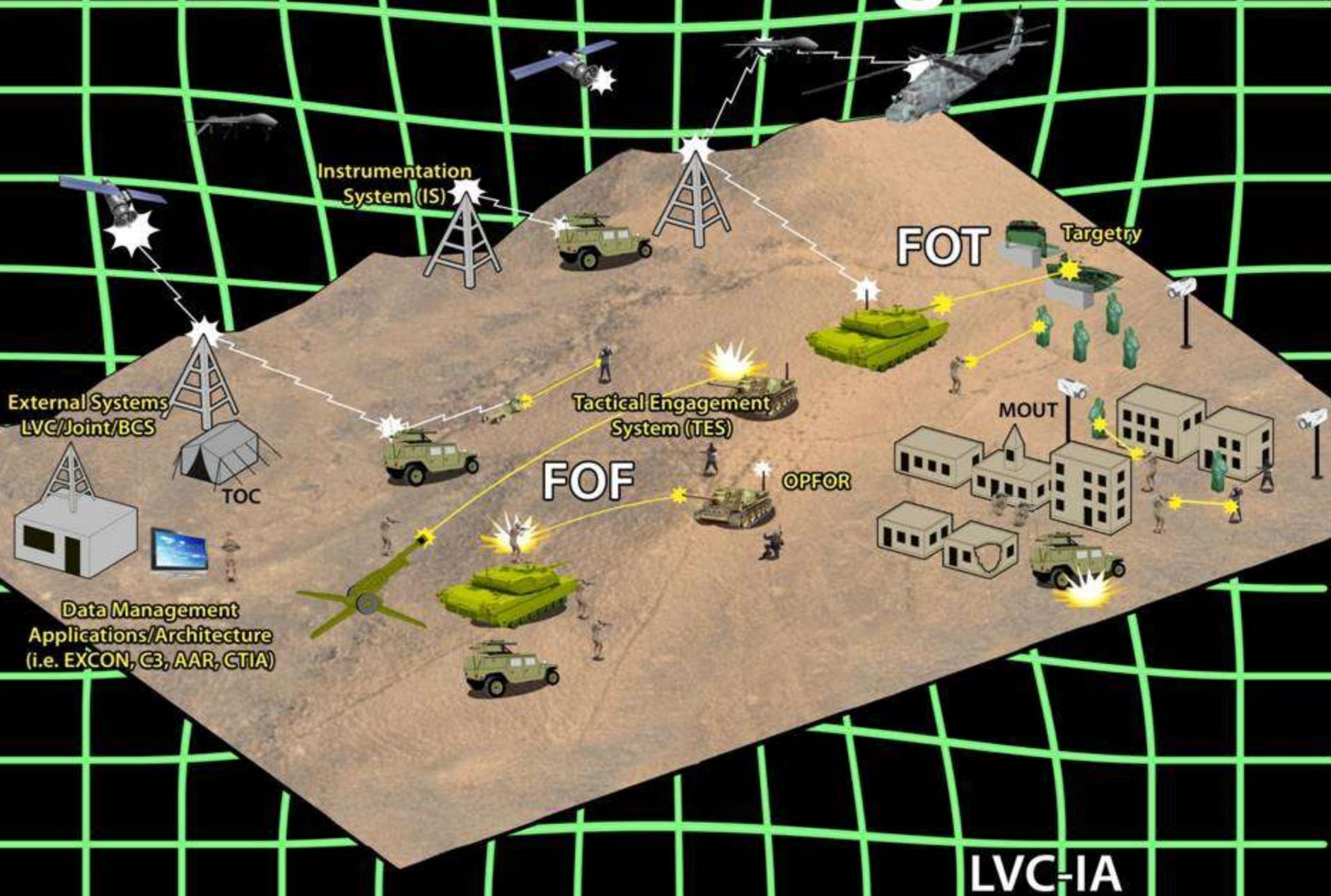
- Maneuver Combat Training Centers (3 CTCs)
- Exportable CTC (1 Mobile Center)
- Portable Training Centers (17 Homestations)
- Soldier Tracking Land Navigation Training (2)



CTIS Mission Area

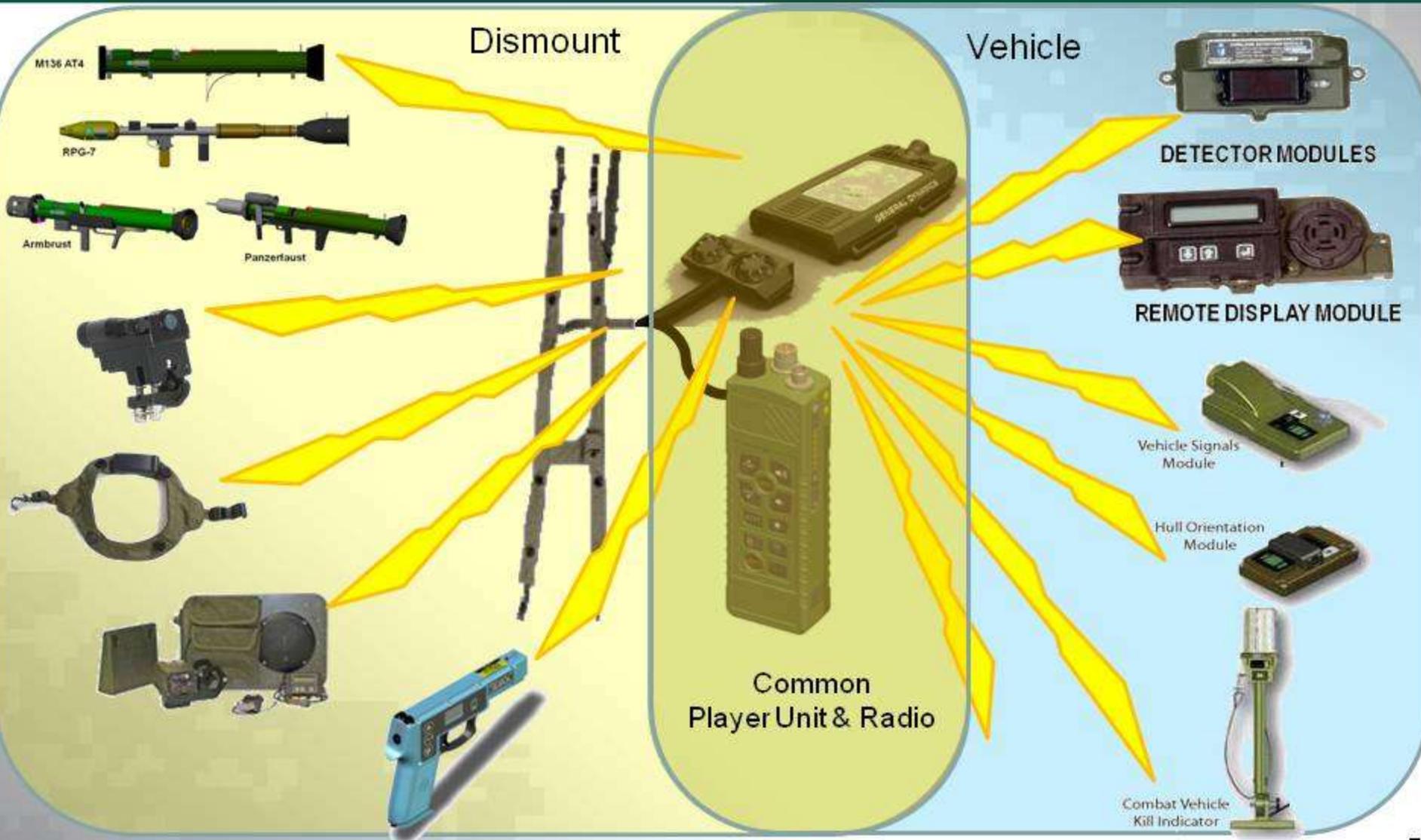
*Instrumenting **Combat Training Ranges (Force-on-Force)** supporting large scale exercises involving 5,000 - 10,000 participants and scalable smaller ranges for use at home installations across the globe*

Live Training

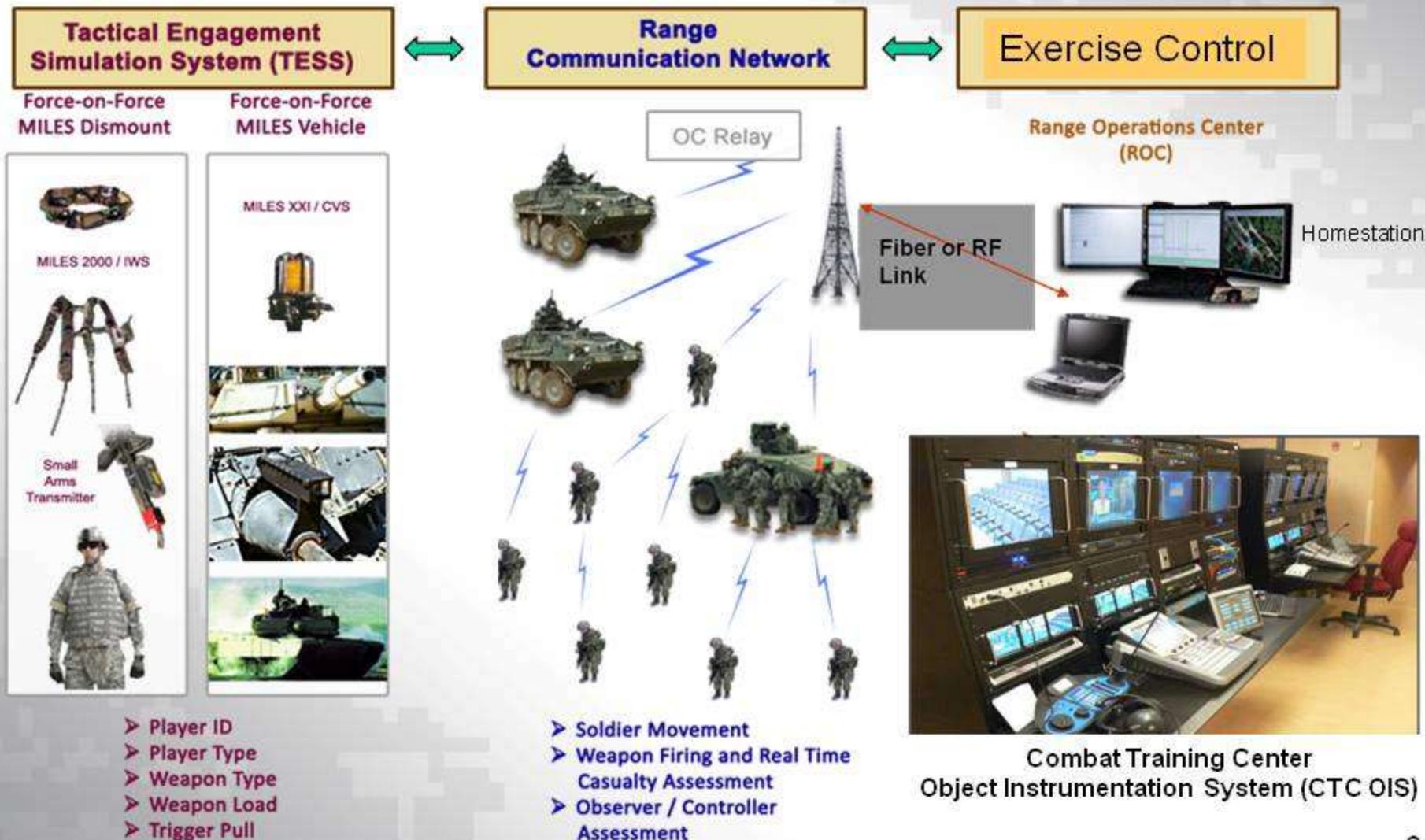


LVC-IA

Personal Area Network (PAN)



Instrumentation Systems: Home Station and Combat Training Centers



Water Cooler Talk (Network buzz for me)



- 1. Common Operating Environment (COE) Initiative**
- 2. Net Integrating Events (NIE)**
- 3. Information Assurance (IA)**
- 4. Embedded Training: Green Boxes for Training**
- 5. Budget Implications**

Common Operating Environment



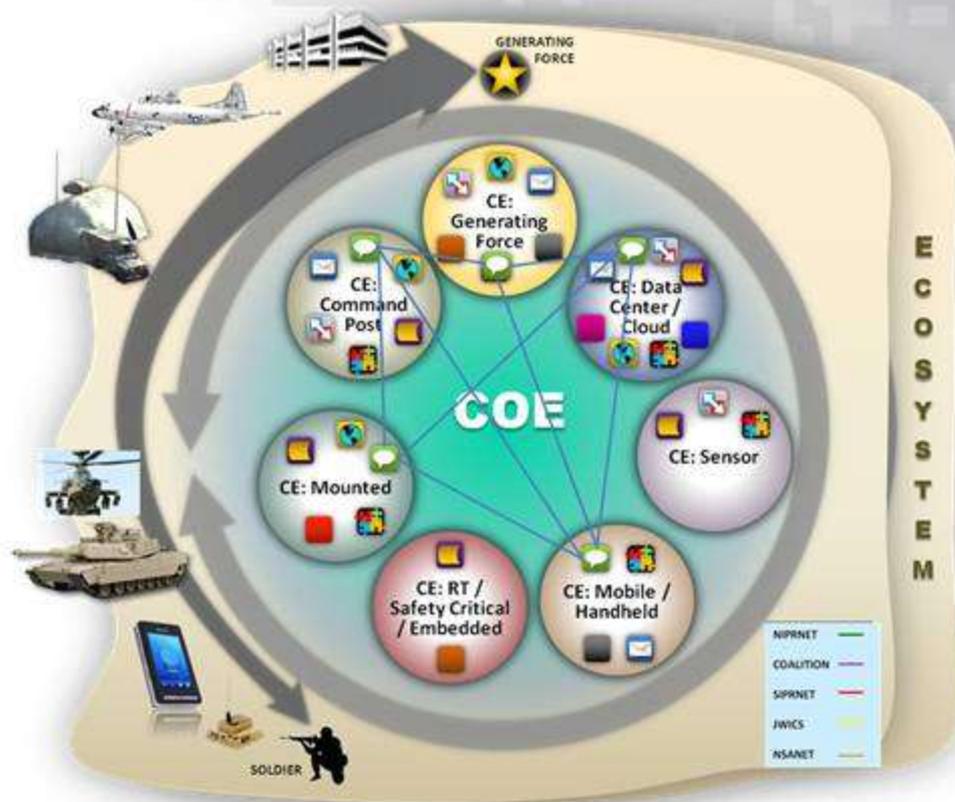
Current State:

- Interoperability painful and costly
- Unnecessary duplication / inefficient sustainment
- Process inconsistent with rate of change of technology

CIO G6 Vision: Standards, products, architectures, and processes that enable agility and interoperability

Computing Environments: Clusters similar systems based on mission environments to facilitate implementation

- **Real Time / Safety Critical / Embedded:** standards for embedded vehicle training, e.g., VICTORY
- **Mobile / Handheld:** standards for embedded training for dismounted soldier w/mobile handheld devices (JTRS, Android)?
- **Sensor:** standards for lasers?
- **Mounted:** Standards for on-board or on-platform embedded training capabilities



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