Provide NDIA Symposium An Overview Of U.S. Army, PEO STRI, PM ITTS TMO Activities
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It should be explicitly noted that the U.S. Government makes no official commitment nor obligation to provide any additional detailed information or an agreement of sale on any of the systems/capabilities portrayed during this presentation that have not been authorized for release.
OUTLINE

- Who We Are
- Mission
- Activities
- Organization (Tie-in with Testing & Training)
- Recently Developed Products
- Future Efforts
- Summary
PM ITTS Mission

Manage the acquisition of optimized Instrumentation, Target and Threat & Foreign System products and services in support of U.S. Army, Department of Defense, Government, Industrial, and International Customers, and execute non traditional missions as assigned or directed by the PEO.
## Organization & Functions

- **Function**
  - Develop devices that detect, measure, record, transmit, & process data
- **Type Testing/Training Supported**
  - Developmental Testing (DT)
  - Operational Testing (OT)
- **Major Customer Supported**
  - ATEC (DTC, OTC), DoD, & Combat System PM’s

- **Function**
  - Develops, operates, & supports Aerial & Ground targets
- **Type Testing/Training Supported**
  - Customer Testing, DT, OT, Live Training, & FMS
- **Major Customer Supported**
  - ATEC (DTC, OTC), DoD, Combat System PM’s, & FMS

- **Function**
  - Develops, operates, & supports threat representative systems
- **Type Testing/Training Supported**
  - DT, OT, Training, & FMS
- **Major Customer Supported**
  - ATEC (DTC, OTC), DoD, Combat System PM’s, & FMS

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**Live Virtual and Constructive!**

TMO MISSION

• MANAGE THE LIFE CYCLE OF TARGETS, OPERATIONAL THREAT VEHICLES, TARGET CONTROL SYSTEMS AND GROUND RANGE SYSTEMS USED IN LIVE AND VIRTUAL TESTING, AND TRAINING.

• PROVIDE BEST VALUE ACQUISITION, SUPERIOR LIFE CYCLE SUSTAINMENT AND OPERATION FOR THE U.S. ARMY AND INTERNATIONAL CUSTOMERS.

• EXECUTE MISSIONS AS ASSIGNED OR DIRECTED BY PEO STRI AND PM ITTS.
PRIMARY ACTIVITIES

Based on Customer Target Requirements

- Aerial – Fixed and Rotary Wing
- Mobile Ground / Foreign Materiel
  - “Real Deal Steel”
  - Surrogates
- Virtual – Models and Simulations
- Precision Targetry Systems
- Auxiliary / Ancillary Equipment
WHAT WE DO

Develop products

Buy products

AND we

- Fly ‘em
- Drive ‘em
- Fix ‘em
- Turnkey Operations
- Target systems flight services supporting Army and Tri-service test and training and FMS requirements
- Low Cost

*Aerial Target Flight Services*

Simulate Aerial Threats World-Wide in Live and Virtual Domains
Mobile Ground Targets

Centrally Manage and Execute:
- Over 340 assets
- Mobile Ground Targets for development and operational testing
- Multiple usage options:
  - Rent
  - Lease
  - Buy

Threat Representative Targets in Live and Virtual Domains
• **Virtual Targets Project**: Building simulation target models capable of being used in synthetic signature prediction analysis software programs

• **Target Generation Laboratory**: Transitioning CAD models into simulation compliant visual, infrared, and radar frequency simulation target models

• **Army Model Exchange**: Distributing simulation target models to simulation developers throughout the Army T&E community

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**3 Interrelated Components**

Supporting M&S for T&E
Provides aerial target and scoring support for Air and Missile Defense (AMD) units requiring home-station training in accordance with DA PAM 350-38, Standards in Training Commission (STRAC) requirements and National Training Center (NTC) support.

- Contractor Operational Teams
- Deployable worldwide
- Very low cost for training & testing
What we have developed recently

Low Cost Movers

Threat Vehicle Surrogate Targets

Virtual Targets

UAS-Ts

JCHAAT
Things we plan to develop/purchase in the next five years

Medium Speed Aerial Targets

Precision Targets

Fully Mission Capable Threat Targets

Looking at technology areas to enhance current capabilities

RPVTs

Rotary Wing Targets
An Individual Product we plan to develop/purchase during the next five years

Precision Targets

Develop state-of-art signature technologies and applications for use on existing targetry or new targetry development efforts to support Army requirements.

Develop concepts that:
- Minimize cost
- Maximize signature fidelity – visual and thermal
- Minimize logistic requirements – reduce handling cost, easily transportable, easy to assemble, recyclable
- Maximize utility – adaptable to CCD&O technologies
An Individual Product we plan to develop/purchase during the next five years

Fully Mission Capable Threat Ground Targets

Acquire and field fully mission capable latest version, Foreign Threat Mobile Ground Targets (MTB, IFV, and APC) to meet emerging requirements for threat representative missions.

Capabilities will include:
Operational Turrets
Communications
Shoot-back capability
Operational Sights
Smoke (VEESS, launchers)
Ancillary Equip
An Individual Product we plan to develop/purchase during the next five years

Remotely Piloted Vehicle Targets

Provide targets with ancillary devices and contractor support services for STRAC mandated live-fire crew gunnery weapon qualifications and missile engagement events.

Government Owned/Contractor Operated Aircraft.
An Individual Product we plan to develop/purchase during the next five years

Medium Speed Aerial Target

Acquire a drone that meets users’ requirements that are below those of the MQM-107.

Develop concepts that:
- Minimize life-cycle cost
- Minimize logistic requirements – reduce handling cost, easily transportable, easy to ready for flight
- Maximize utility – meet many users needs that currently are using higher cost drone
An Individual Product we plan to develop/purchase during the next five years

Rotary Wing Targets

present realistic, threat representative, helicopter targets for use by Test and Evaluation and by Training groups worldwide.
## SUMMARY

**TMO:**

- ALWAYS LOOKING FOR A BETTER, FASTER, CHEAPER PRODUCT FOR OUR CUSTOMERS
- RECOGNIZED LEADER OF AERIAL AND GROUND TARGETS
- READY TO RESPONSIVELY AND RESPONSIBLY SUPPORT T&E AND SPECIAL TRAINING REQUIREMENTS

NEED INDUSTRY TO CONTINUE PROVIDING STATE OF THE ART TECHNOLOGIES FOR ADAPTATION AND INCORPORATION INTO TARGETRY
Providing/Operating Aerial, Ground and Virtual Targets.