



Overview of the Targets Management Office

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Agenda

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- **Overview of Targets Management Office**
 - Mission
 - Organizational Structure
- **Domains**
 - Aerial
 - Ground
 - Target Control
 - Virtual
 - Other
- **Summary**



TMO Mission

PEO STRI

- **Manage total 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, DoD, and international customers.**
- **Execute missions as assigned or directed by PEO STRI and PM ITTS.**



Organization



PEO STRI

PEO: Dr. James T. Blake
Program Executive Officer

U.S. Army Program Executive Office for Simulation, Training and Instrumentation

<http://www.peostri.army.mil/PM-ITTS>

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Army Targets Program

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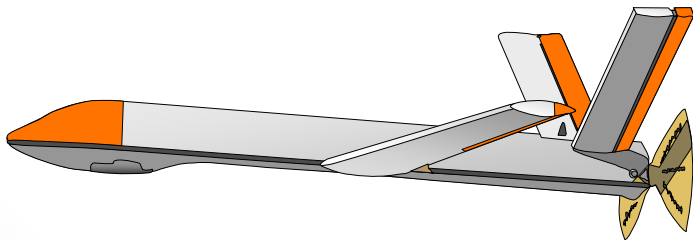
3 Major Areas !





What We Do

PEO STRI



Develop Products



Buy Products



Fly



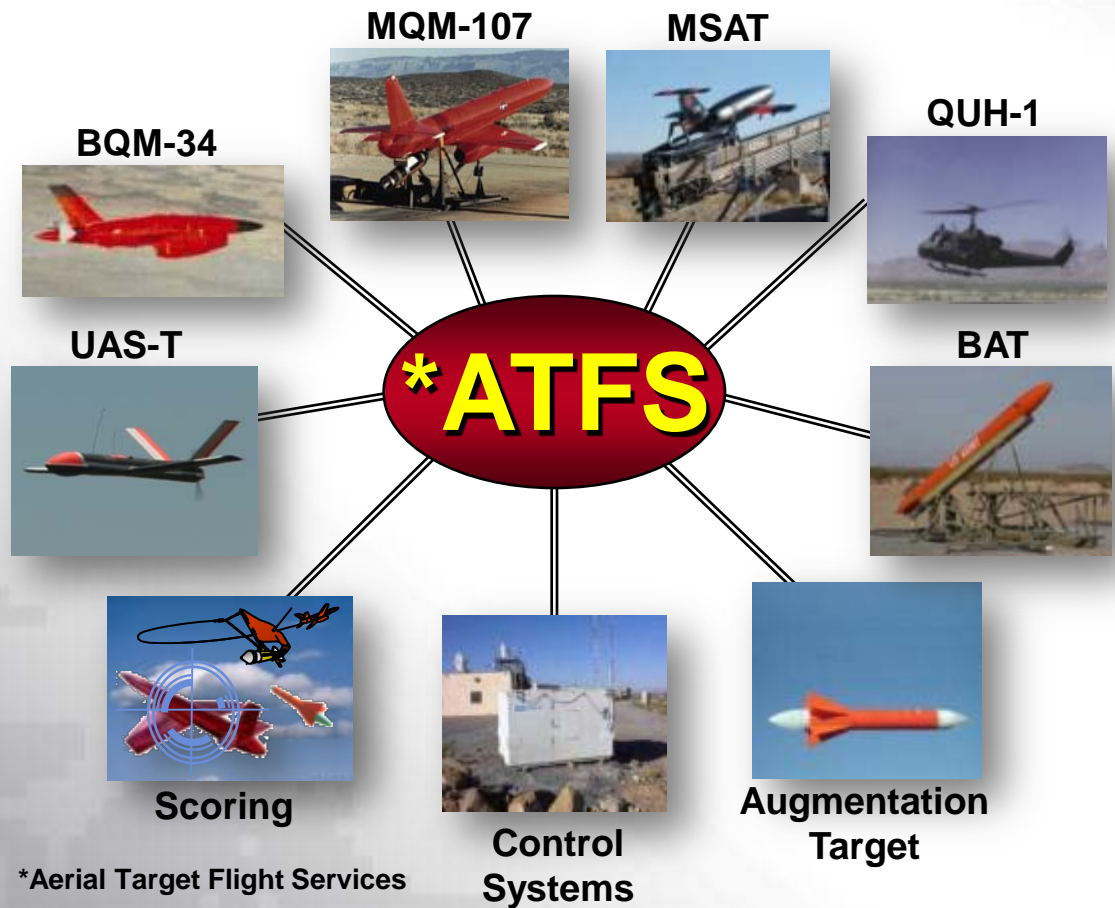
Drive



Sustain



Aerial Targets



- Turnkey Operations
- Target systems flight services supporting Army and Tri-service testing, training and FMS requirements
- Low Cost

Simulate Aerial Threats World-Wide in Live and Virtual Domains



Subscale Aerial Targets



The MQM-107

- Mission Speed: 210 – 525 knots
- Altitude: 100 – 42,000 feet MSL
- External Payload: 100 lb/wing
- Internal Payload: 100 lb max



MQM-107

The MQM-175A/B

- Speed Range: 200 – 350 ktas (cruise)
- Endurance: approx. 30 minutes @ 15k ft (4572m)
- Maximum Altitude: 20,000+ feet (6096m) MSL
- Maneuverability: 3G for 360°



MQM-175A/B



Family of Outlaw Targets



MQM-170A Outlaw



Gross Weight : 120 lbs / 54 kg

Altitude: 12,000 ft

Speed: 115 mph

Endurance: 60 min

MQM-170B Boomer Outlaw



Gross Weight : 130 lbs / 59 kg

Altitude: 14,000 ft

Speed: 100 mph

Endurance: 120 min

MQM-170_ Outlaw ER



Gross Weight : 175 lbs / 79 kg

Altitude: 15,000 ft

Speed: 110 mph

Endurance: 8-10 hrs*

* Not yet verified



Towed Targets

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Towing Platforms

MQM-107



F-16



Learjet

Various Towed Targets

POTA-Tow



TRX-4A



Aerial Gunnery Tow

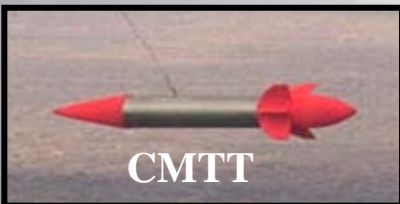


RRTT



Targets are towed on synthetic radar transparent towline (up to 2 miles long).

CMTT



JCHAAT



TIX-IR



**Classified Tows
(RCS Sensitive)**





Mobile Ground Targets

PEO STRI



Centrally Manage and Execute:

- 250 active assets
- Mobile Ground Targets for development and operational testing
- Multiple usage options:
 - Rent
 - Lease
 - Buy
- Provide accreditation support

Range Targetry:

- Design
- Procurement
- Fielding
- Support





Ground Targets



Actuals

TMO has actual threat wheeled and tracked vehicles with operational components for use in destructive and non-destructive testing and training.



ZSU 23/4



T-72



SA-8 TEL



SA-6 Radar



SA-6 TEL



BTR-80

Size	
✓	Full 3D
	2 1/2D
	Subscale
Signatures	
✓	Visual
✓	IR
✓	MMW
✓	Acoustic
✓	Other
Mobility	
✓	Mobile
Turret operational	
✓	Manual
✓	Motorized



Ground Targets



Precision Target Signatures (PTS)

The PTS provides low cost alternatives to threat targets in support of T&E.

Variants



T-72



BMP-2



BTR-80

- Full-Scale
- 3-D decoy/surrogate
- T-72M, BMP-2, BTR-80 variants
- Visual Signature
- IR Signature with Heater Kit option
- Mobile
- Durable
- Minimal Logistic Footprint
- Validated decoy/surrogate

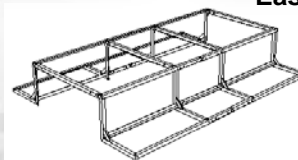
Simple and Robust Mobility Options



Trailer Mounted



Universal Scissor-lift Trailer
Easy Up – Easy Down



Universal Sub-Frame

IR Heater Kit



Minimal Logistic Footprint



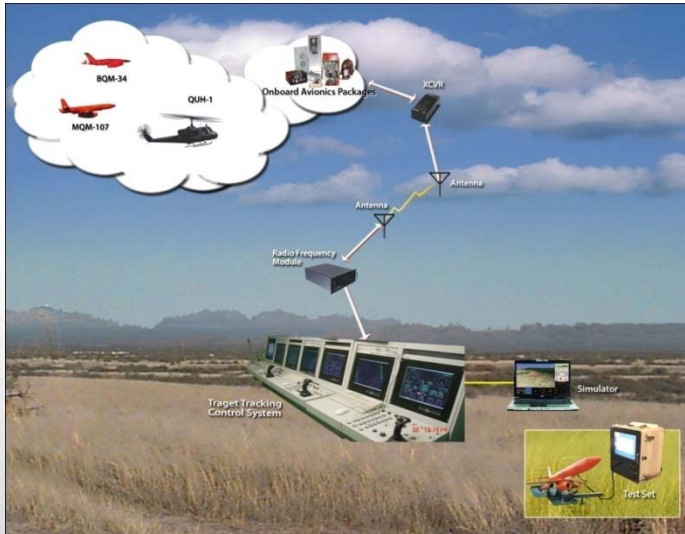
PTS BMP-2s Ready for Shipment



Army Ground & Aerial Target Control System (AGATCS)

PEO STRI

Existing TTCS-U*



*TTCS-U – Target Tracking Control System - Upgrade



AGATCS

Air and ground targets may include, but are not limited to the variants shown:

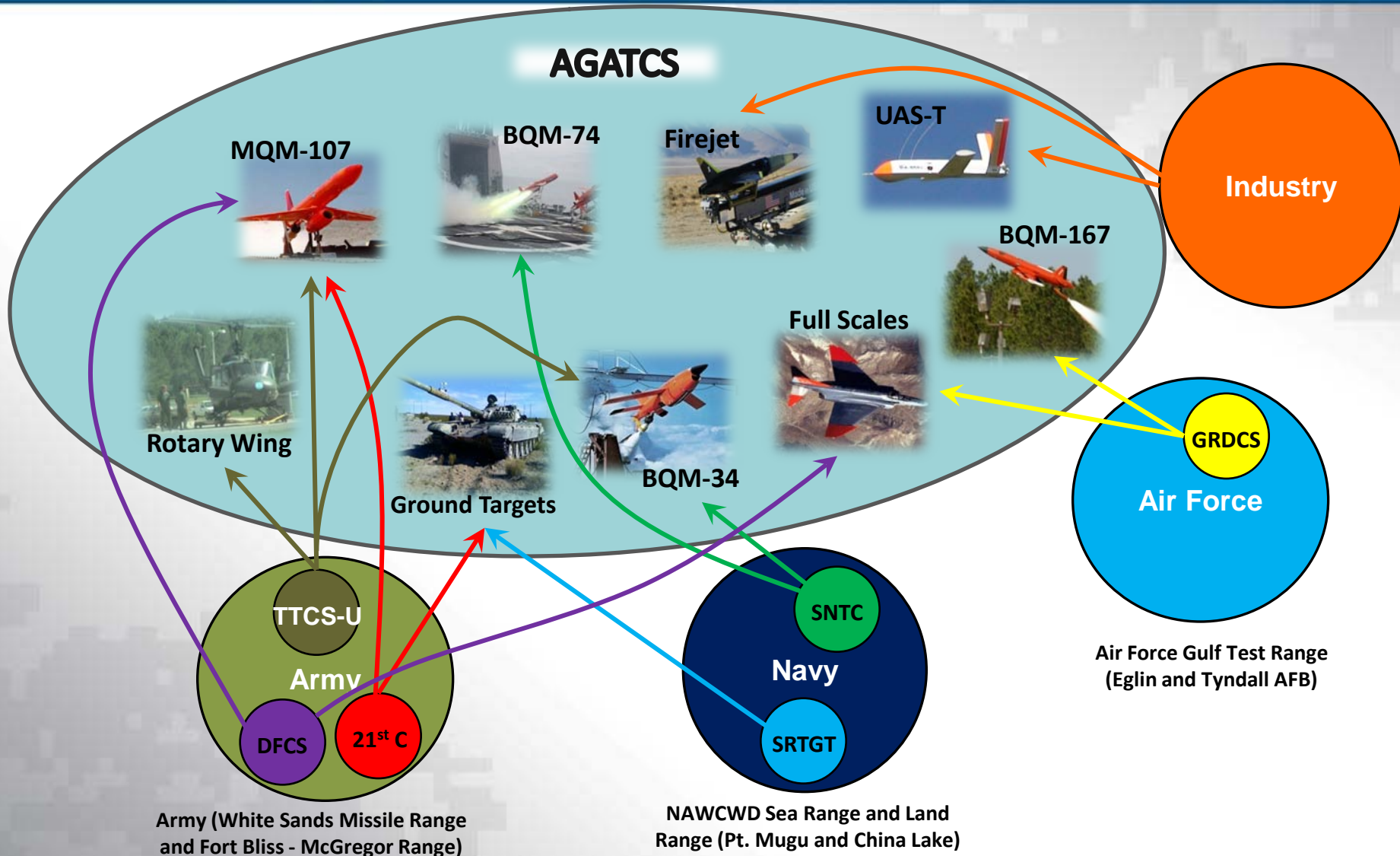


Unclassified



AGATCS Development

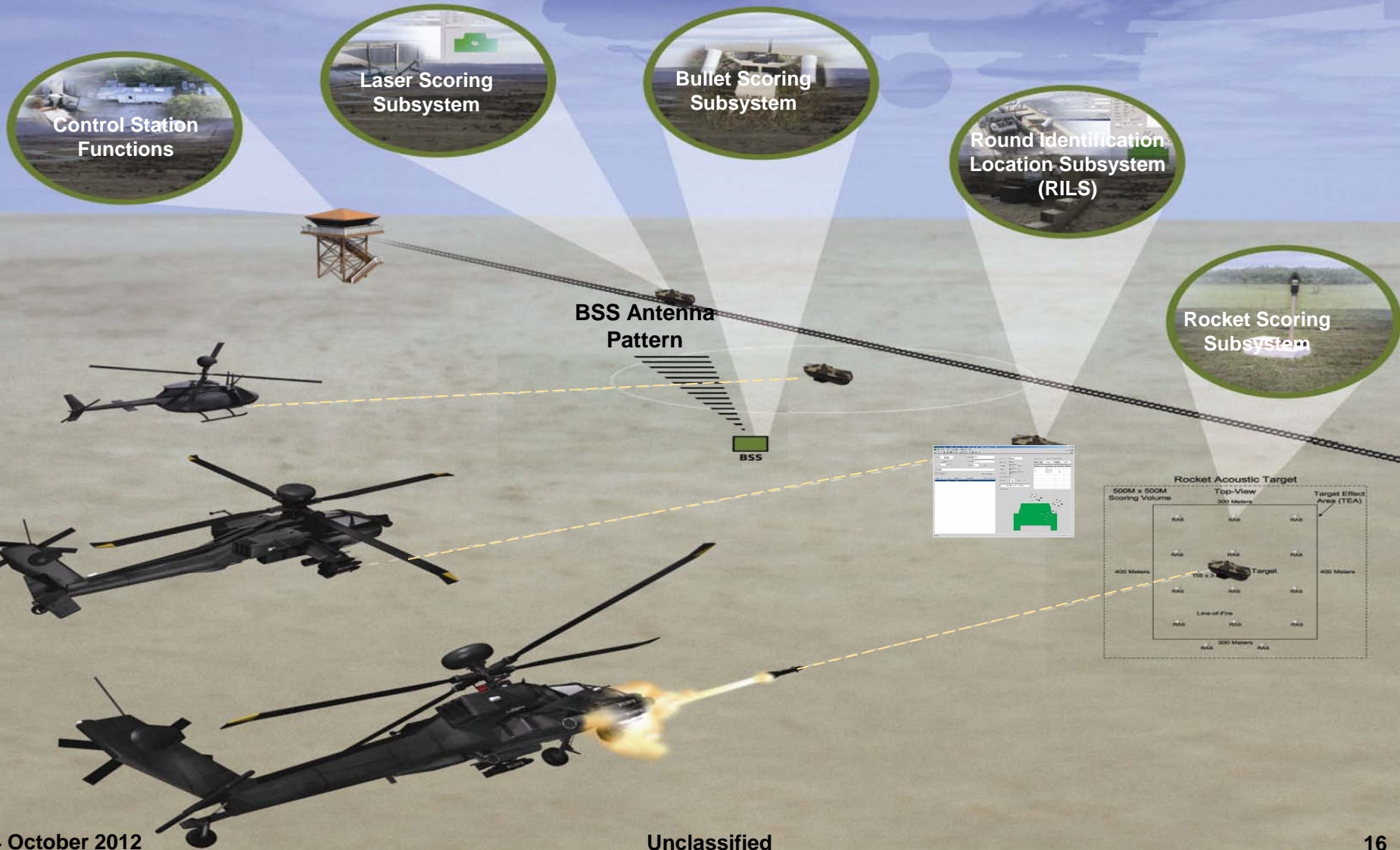
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Leveraging existing technology to develop the control system for targets of the future

Aerial Weapon Scoring System

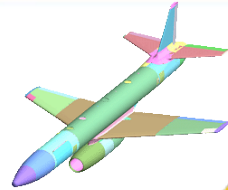
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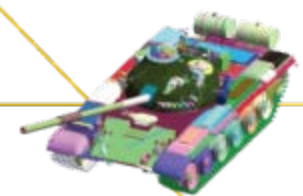


Virtual Targets

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- **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





Irregular Warfare Vehicles & Mannequins

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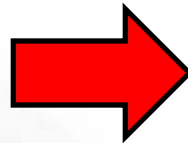
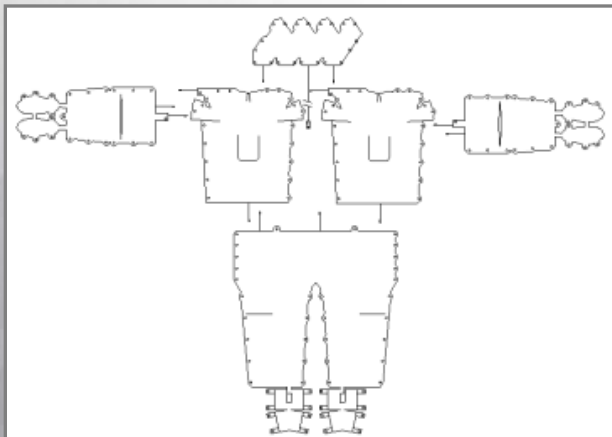
Thermal Insurgents Mannequin (TIM)

PEO STRI



- Can be suspended and hung with cord or supported by a pole
- Sufficient IR fidelity to support detection and tracking with US missile systems
- Ballistically transparent and does not impact lethality modeling
- Operate off of 120 Volts AC

+





Range Target Systems

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Deployable Ranges



Designed to bring range capabilities to the soldiers.

Precision Scoring



Technology that provides efficient marksmanship training.



Optional Equipment/Services

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- **Mannequins (IR)**
- **Camouflage Netting (ULCANS)**
- **Mobile Camouflage System (MCS)**
- **IR Kits for any threat vehicle**
- **Operations & Maintenance**
- **Night Vision Goggles**
- **ATVs**
- **Guns (SAWs/M16A3s/9mm)**
- **Radios**
- **Threat Communications Capability**
- **Target Accreditation reports**





Deployable Operations

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Target systems can be deployed to virtually any range in the world. Operations are fully self-contained with no range support required.

We will come to you!





Summary



- 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