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T&E Instrumentation Infrastructure - Maximum Utilization of Available Resources Session

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FALSE IMPRESSION CAVEAT



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 or capabilities portrayed during this presentation that have not been authorized for release.



OUTLINE



- Who We Are
- Mission
- Activities
- Organization
- Products
- Future Efforts
- Summary



ORGANIZATION



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TMO MISSION



- 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 CUSTOMER.
- 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 (both conventional and unconventional)
 - Foreign Systems
 - Surrogates
- Virtual Models and Simulations
- Precision Targetry Systems
- Auxiliary / Ancillary Equipment



















WHAT WE DO



MATERIAL DEVELOPER





Acquire Products





CUSTOMER SUPPORT







Fly Drive Sustain



AERIAL TARGETS





Remote Piloted Vehicle Target



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



UAS-T

Simulate Aerial Threats World-Wide in Live and Virtual Domains



BroadSword and Outlaw



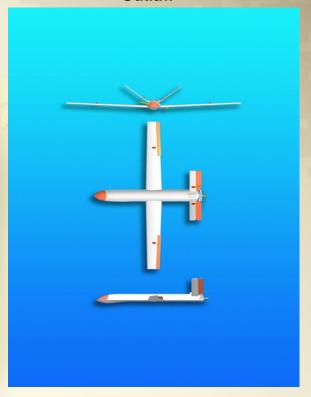
BroadSword



BroadSword is available in carbon fiber or fiberglass for variable radar signatures

> Payload is a trade between required airspeed, altitude, and flight duration

Outlaw



Length..... 8.4 ft (2.56 m) Wingspan...13.6 ft (4.15 m) Speed.....125 mph Average Basic Weight...70 lbs Gross Weight... 120 lbs

AERIAL TARGETS



MOBILE GROUND TARGETS





Threat Representative Targets in Live and Virtual Domains

MOBILE GROUND TARGETS



VIRTUAL TARGETS







- 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









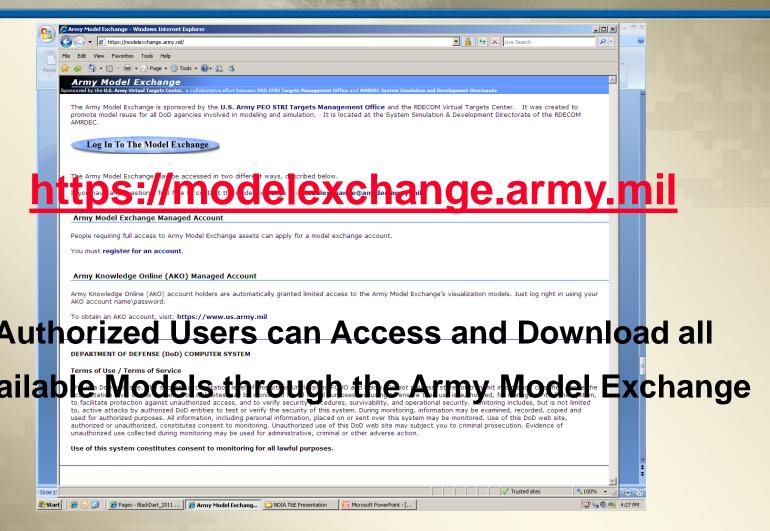






Army Model Exchange







WHAT WE HAVE DEVELOPED/ PURCHASED RECENTLY



Precision Target Signature

URAL 375







BMP-2



UAS-Ts







JCHAAT



FIVE YEAR FORECAST TO DEVELOP/PURCHASE



Precision Targets - Mobility



Fully Mission Capable
Threat Targets



Medium Speed Aerial Targets



Looking at technology areas to enhance current capabilities



Technical Vehicle w/crew representation

High Speed Aerial Targets





Rotary Wing Targets



Common Control System



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 REASONABLY PRICED, STATE OF THE ART TECHNOLOGIES FOR ADAPTATION AND INCORPORATION INTO TARGETRY



PROVIDING/OPERATING AERIAL, GROUND & VIRTUAL TARGETS



