

Central Test and Evaluation Investment Program



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OUTLINE

- Program Overview**
- Joint Improvement Modernization Project (JIM)**
- Resource Enhancement Project (REP)**
- Test Technology Development and Demonstration (TTD&D)**
- Summary**



PROGRAM OVERVIEW BACKGROUND

- Established in FY90**
- 1999 -- CTEIP Transferred to DOT&E**
- Funding Level Approximately \$120M/year**



PROGRAM OVERVIEW OBJECTIVES

- Apply State-of-the-Art Technologies to Correct Test Deficiencies**
- Improve Interoperability and Interconnectivity Between Facilities, Ranges, and Test Centers**
- Achieve Consistency, Commonality, and Interoperability in *Targets*, Test Instrumentation, and Threat Simulators**



PROGRAM OVERVIEW

PROJECT CATEGORIES

Joint Improvement and Modernization (JIM)

- Improves Test Capabilities Base
- 75% of CTEIP Budget

Resource Enhancement Project (REP)

- » \$20M
- Short Term (within 2 years) OT Shortfalls

Test Technology Development and Demonstration (TTD&D)

- » \$6-8M
- Transition Technology From Labs to Test Capabilities



JIM CRITERIA

- Have Multi-Service Applicability**
- Be Developmental in Nature**
- Not Be Used for Procurement**



JIM

TARGET RELATED PROJECTS

- **Multi- Service Target Control System (MSTCS)**
 - **Advanced Target Control Development**
 - **Enhanced Range Applications Program (EnRAP) Commonality**

- **Joint Advanced Missile Instrumentation (JAMI)**
 - **Cooperative Vector Scoring**
 - **GPS Technology Development**



JIM MSTCS

- Goal Is to Upgrade Existing Tri-Service Target Control Systems While Providing Interoperability**
 - **Spectrally Efficient and Reliable Radio Frequency Links**
 - **Interoperable Ground Station**
 - **IOC FY05**
- Will Provide Same or More Target Control Capability Than Existing Service Capability**
- Reqs Coordination and Cost Comparisons Have Been Completed**



MSTCS

Advanced Target Control Development

- Service Interoperable High Capacity Data Links**
- Universal Application of GPS for TSPI With Attendant Enhanced 3-D Accuracy**
- Autonomous Control Using Onboard TSPI and Waypoint Navigation**
- Automatic Full-Scale Target Landing Without Radar Instrumentation Augmentation (Using Kinematic GPS)**



REP OBJECTIVES

- Ensure that Service and DoD Agency Acquisition Programs Are Provided the Resources to Test in the Most Realistic Operational Environment**
- Resolve Near-Term OT Resource Shortfalls That Could Introduce High Risk in Scheduled Evaluation of New Weapons Systems or System Upgrades**



REP CRITERIA

- Meets Near Term (Usually 2 Years) High Priority OT&E Requirements**
- Responds to Emerging Technologies, New Test Requirements and Changes in Intel**
- Unanticipated OT Shortfall Which Precludes Service/Agency Programming and Budgeting**



REP

TEST CAPABILITY EXAMPLES

- IR Signature Models of DoD Full Scale Target (QF-4)
- Anti-Submarine Warfare (ASW) Target
- Mobile Programmable USW Countermeasure Threat Emulator



TTD&D OBJECTIVES

- Facilitate the Transition of Mature Technology From Laboratories to the T&E Community for the Purpose of Enhancing Test Capabilities**

- Reduce Technical Risk in Testing for Future Weapon Programs**



TTD&D CRITERIA

- Facilitate the Development or Demonstration of a New Technology**

- Subprojects Expected to Be Available for Transition to Field Use Within Three Years**

- Subproject Funding Limited to Approximately \$500K Per Year**



TTD&D THRUST AREAS

- Identified on an Annual Basis to Ensure They Support:**
 - **National T&E / Training / Warfighting Priorities**
 - **DoD Guidance and Policy As Published in the Defense Technology Area Plan**
 - **Evolving Technologies Focused on T&E / Training / Warfighting**
 - **Current and Future T&E / Training / Warfighting Capabilities**
- Subproject Proposals Are Not Constrained to “Thrust Areas’ Only**



TTD&D EXAMPLE SUBPROJECTS

- Multi-Band Telemetry Antennas for Tactical Munitions**
- Plug and Play Open Architecture Participant Package**
- Common Event Network Test Instrumentation System**



SUMMARY

- CTEIP Established to Fund High Priority, Critical Joint-Use Test Capability Projects**
- Applies State-of-the-Art Technologies to Correct Deficiencies in DoD Capabilities**
- Fosters Consistency, Commonality, and Interoperability**
- Improves the Overall Efficiency of the Test Process**



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