



Central Test and Evaluation Investment Program Joint Improvement and Modernization Projects

updated: March 2012



Advanced Communications Environment – Faithful Timeslot Messaging (ACE-FTM)

Air Force and Navy Leads

The ACE-FTM project will provide the Benefield Anechoic Facility (BAF), Edwards AFB, CA and the Air Combat Environment Test and Evaluation Facility (ACETEF), Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD with an augmented capability to simulate realistic, high-fidelity network environments for use in the development, evaluation, and operational testing of Link-16-equipped aircraft systems.

Common Range Integrated Instrumentation System (CRIIS)

Air Force Lead

The CRIIS project will provide Major Range and Test Facility Base (MRTFB) components with the capability to collect the highly accurate time, space, position information (TSPI) and selected aircraft data bus information needed for advanced weapon systems testing. As the next generation GPS-based range data system, CRIIS will replace the aging Advanced Range Data System (ARDS) at all major tri-Service T&E ranges.

Directed Energy Test and Evaluation Capability (DETEC)

Army Lead

The DETEC project provides the High Energy Laser Systems Test Facility (HELSTF) and White Sands Test Center (WSTC), White Sands Missile Range (WSMR), NM; the Naval Air Warfare Center Weapons Division (NAWCWD), Point Mugu, CA; and the Naval Air Station (NAS), Patuxent River, MD with a family of new test and evaluation (T&E) technologies and methods to be used in developmental, operational, and live-fire testing of directed energy weapon (DEW) systems and non-DE systems subjected to DE threats.

Gulf Range Mobile Instrumentation Capability (GR-MIC)

Air Force Lead

The GR-MIC project develops capabilities to test net-enabled weapons (NEW) in a realistic live-virtual-constructive (LVC) environment extending the Link-16 line-of-sight at Eglin AFB, FL to target coverage deep into the Gulf of Mexico.

Horizontal Fast Rise Electromagnetic Pulser (HFREMP)

Navy Lead

The HFREMP project will provide Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD with an improved pulser for generating a High Altitude Electromagnetic Pulse (HEMP) early-time (E1) environment that meets current military standards for testing aircraft, mobile systems, and missiles.

integrated Network Enhanced Telemetry (iNET) Block 1

Air Force Lead

The iNET project will provide test ranges with an enhanced test telemetry capability that will support testing of increasingly complex weapons systems despite growing constraints on radio frequency (RF) spectrum availability.



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Joint Command, Control, Communication, Computers, Intelligence, Surveillance, and Reconnaissance (JC4ISR) Interoperability Test and Evaluation Capability (InterTEC)

Navy Lead

The InterTEC project provides an integrated, extensible interoperability test capability that significantly enhances the testing of new and legacy net-centric systems. By integrating its newly developed capabilities with existing interoperability testing tools, InterTEC enables testers to identify battlespace interoperability issues prior to introducing a new system or network-of-systems into the joint battlespace.

Advanced SAM Hardware Simulator Development –Integrated Technical Evaluation Assessing Multiple Sources (ITEAMS)

Defense Intelligence Agency (DIA) / Missile and Space Intelligence Center (MSIC) Lead

The ITEAMS project will use scientific and technical intelligence to provide test ranges with a detailed design of an advanced foreign long-range surface-to-air missile (SAM), and the simulation community with a design process and design “snapshot” that can be used as a guide for future simulator/simulation development activities.

Joint Distributed IRCM Ground Test System (JDIGS)

Navy Lead

The JDIGS project will enable high-fidelity, low-cost ground testing of installed missile warning systems (MWS) and infrared countermeasures (IRCM) systems at the Air Combat Environment Test and Evaluation Facility (ACETEF), Patuxent River, MD and at the Avionics Systems Test & Integration Lab (AV-STIL) test facility, Redstone Test Center (RTC), AL. JDIGS will provide the ground test capability among the MWS, the IRCM systems, and the missile response after a countermeasure is activated.

Joint Gulf Range Complex Upgrade (JGRCU)

Air Force Lead

The JGRCU project will provide the Joint Gulf Range Complex (JGRC) with the capability to test net-enabled weapons (NEW) systems-of-systems in a realistic LVC environment.

Joint Installed Systems Test Facilities Pre-Planned Product Improvement (JISTF P3I)

Navy Lead

The JISTF P3I project will provide Navy JISTF, Patuxent River, MD and the Air Force JISTF, Benefield Anechoic Facility (BAF), Edwards AFB, CA with 3 interrelated multi-spectral test and evaluation capabilities: Infrared Sensor Simulator (IRSS), Advanced Radar Environment Simulator (ARES), and Communication Navigation Identification (CNI). This report does not address CNI (completed in FY2008) or IRSS (completed in FY2010).



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Joint Mobile Infrared Countermeasures Test System (JMITS)

OSD Lead

The JMITS program provides Edwards AFB, CA and the Naval Air Weapons Station (NAWS), China Lake, CA with the capability to test infrared countermeasures (IRCM) systems in an open-air environment while they are installed in their intended host aircraft.

Joint Unmanned Aircraft Systems Mission Environment (JUAS ME)

Navy Lead

The JUAS ME project will provide the Air Combat Environment Test and Evaluation Facility (ACETEF), Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD; the U.S. Army Aviation and Missile Research, Development, and Engineering Center, Redstone Arsenal, AL; and the U.S. Air Force Simulation and Analysis Facility (SIMAF), Wright Patterson AFB, OH with an immersive test capability for testing and evaluating unmanned aircraft systems (UASs) and their sensors, weapon systems, and command and control systems in simulated operational mission environments, including a representation of the National Airspace System (NAS).

Joint Urban Test Capability (JUTC)

Army Lead

The JUTC project will develop an urban environment for developmental and operational testing. The integrated JUTC capability will be composed of a test architecture, structural augmentation, test tools, human social-cultural behavior representations, and management and control element.

Multi-Level Secure – Joint/Coalition Network Environment (MLS-JCNE)

Navy Lead

The MLS-JCNE project will provide a persistent, interoperable, and reusable multi-level secure and cross-domain solution (MLS/CDS) joint/coalition data management network architecture for the Department of Defense (DoD) research, development, test, and evaluation (RDT&E) environment. The capability will be demonstrated at selected sites and made available for all other DoD RDT&E facilities.

Next-Generation Electronic Warfare Environment Generator (NEWEG)

Navy Lead

The NEWEG project will build on the work of the FY2010 CTEIP Tri-Service Electronic Warfare Test Capabilities Study (TEWTCS), and will provide ranges and ground test facilities with electronic warfare simulation capabilities for testing future electronic attack and electronic support measures systems.

Objective Helicopter Icing Spray System (OHISS)

Army Lead

The OHISS project will provide test ranges with the capability to conduct in-flight aircraft icing and rain testing.

Pacific Region Interoperability Test and Evaluation Capability (PRITEC)

Navy Lead

The PRITEC project will provide test and training facilities in the Pacific with improved connectivity, flexibility, interoperability, and reliability of network-distributed test data, simulations, and situational awareness information.



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Range Element – Network Enterprise Technology (RE-NET)

Air Force Lead

The RE-NET project provides the Joint Gulf Range Complex (JGRC) with a more realistic and robust environment in which to test net-enabled weapons (NEWs) and Link-16 systems.

Subminiature Flight Safety System (SFSS)

Air Force Lead

The SFSS project will provide the Air Armament Center, Eglin AFB, FL with a flight termination system (FTS) small enough to fit into the limited space available in many new missiles and other flight munitions.

Soft-Impact Location Capability (SILC)

Navy Lead

The SILC project provides the test community with the capability to safely and effectively conduct long-range ordnance testing using shallow-water ocean impact areas.

Space Threat Assessment Testbed (STAT)

Air Force Lead

The STAT project will provide Arnold Engineering Development Center (AEDC), Arnold AFB, TN with a ground test satellite component simulation capability that replicates the space environment and allows early design and performance assessments.

Savannah Combat Readiness Training Center Training Enabled Maneuver Instrumentation (STEM)

Air Force Lead

The STEM project will provide the Joint Gulf Range Complex (JGRC) with a more realistic and robust environment in which to test net-enabled weapons (NEWs) and Link-16 systems.

Towed Airborne Plume Simulator (TAPS)

OSD Lead

The TAPS project will provide the Center for Countermeasures (CCM), White Sands Missile Range (WSMR), NM with the capability to measure the performance of missile warning systems (MWSs) and infrared countermeasures (IRCM) systems mounted on U.S. aircraft.

Unmanned Aerial Vehicle (UAV) Systems Operations Validation Program (USOVP)

Air Force Lead

The USOVP project will provide the Department of Defense (DoD) and its federal agency partners with the ability to conduct testing for lower-priority unmanned aircraft system (UAS) programs in DoD-restricted airspace and the national airspace system (NAS). In addition, USOVP will develop and validate test and evaluation (T&E) processes and procedures for a variety of on-board flight systems that support UAS-enabling technologies.