

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE						
<b>6 - Management support</b>		<b>0605602A - Army Technical Test Instrumentation and Targets</b>						
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
Total Program Element (PE) Cost	54039	80467	74391	75067	74381	58293	59730	61046
628 Developmental Test Technology & Sustainment	37441	51831	45930	46421	44558	35435	36213	37010
62B OPERATIONAL TESTING INSTRUMENTATION DEVELOPMENT	9920	14511						
62C MODELING AND SIMULATION INSTRUMENTATION	6678	14125	28461	28646	29823	22858	23517	24036

**A. Mission Description and Budget Item Justification:** Increased funding beginning in FY 2007 provides sustainment and improvements to the Army's test infrastructure reflecting an Army leadership decision supporting Congressional and Office of Secretary of Defense interest in implementing the Defense Science Board (DSB) recommendations to increase Test and Evaluation (T&E) funding. The DSB report indicated that testing is not being adequately conducted, resulting in latent defects that can be very costly and impact system's operational effectiveness and that the acquisition process is not delivering high quality, reliable and effective equipment to our military forces. Limited T&E instrumentation investments are a major contributor to the lack of testing and the problems described in the DSB report. Effective FY08, 62B and 62C were combined into one line - 62C - to accurately reflect the interwoven use of both Modeling and Simulation (M&S) and instrumentation in support of operational and developmental testing.

This Program Element provides critical front-end investments for development of new test methodologies; test standards; advanced test technology concepts for long range requirements; future test capabilities; advanced development of M&S and instrumentation prototypes; and the full development of systems for the United States Army Test and Evaluation Command (ATEC), which includes the Developmental Test Command (DTC) at Aberdeen Proving Ground, Maryland and the Operational Test Command (OTC) at Ft Hood, Texas. DTC consists of seven Test Centers: Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; White Sands Missile Range (WSMR), New Mexico; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; Yuma Proving Ground (YPG), Arizona (including the Cold Regions Test Center (CRTC), Fort Greely, Alaska and the Tropical Regions Test Center, Hawaii); Aviation Technical Test Center (ATTC), Fort Rucker, Alabama; Redstone Technical Test Center (RTTC), Redstone Arsenal, Alabama; and Dugway Proving Ground (DPG), Utah. OTC consists of four forward Test Directorates (Airborne Special Operations Test Directorate, Fort Bragg, North Carolina; Air Defense Artillery Test Directorate, Fort Bliss, Texas; Fire Support Test Directorate, Fort Sill, Oklahoma; and Intelligence Electronic Warfare Test Directorate, Fort Huachuca, Arizona) together with five other Test Directorates (Aviation; Close Combat; Command, Control, Communications, and Computers; Engineer and Combat Support; and Future Force) at Ft Hood, Texas. These capabilities support the development and fielding cycle of the Army Transformation as well as Joint Vision 2020 initiatives. Sustainment funding maintains existing testing capabilities at both DTC and OTC by replacing unreliable, uneconomical, and irreparable instrumentation, as well as incremental upgrades of hardware and software for M&S and instrumentation systems to assure adequate test data collection capabilities. This data supports acquisition milestone decisions for all commodity areas throughout the Army including programs such as Future Combat Systems (FCS), Theater High Altitude Area Defense (THAAD), Patriot Advanced Capability Phase 3 (PAC 3), Mobile Gun System (MGS), Armed Reconnaissance Helicopter (ARH), Joint Network Node - Network (JNN-N), Warfighter Information Network - Terrestrial (WIN-T), Joint Tactical Radio System (JTRS), Net Enabled Command and Control (NECC), and the Army Battle Command System (ABCS) with includes Force XXI Battle Command Brigade and Below (FBCB2)/Blue Force Tracking (BFT). This Program Element develops and sustains developmental and operational test capabilities that provide key support to the Army's Transformation. In addition this Program Element supports the Global War on Terror by providing instrumentation to support ATEC's 24/7 mission at Yuma Proving Ground, Arizona - supporting the Joint Improvised Explosive Device Defeat Organization (JIEDDO) - as well as efforts throughout ATEC in support of the

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Army's Rapid Equipping the Force (REF) initiative.

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<u><b>B. Program Change Summary</b></u>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	68299	74066	75267	75308
Current BES/President's Budget (FY 2008/2009)	54039	80467	74391	75067
Total Adjustments	-14260	6401	-876	-241
Congressional Program Reductions		-307		
Congressional Rescissions				
Congressional Increases		7300		
Reprogrammings	-14260	-592		
SBIR/STTR Transfer				
Adjustments to Budget Years			-876	-241

FY 2006 funding was realigned to higher priority requirements. FY 2007 Congressional increases for Chemical Biological Defense Material Test and Evaluation Initiative (\$1.65 million), Dugway Testing and Infrastructure Upgrade (\$1.1 million), Mobile Optical Tracking System (\$1.95 million), White Sands Missile Range Study (\$2.6 million). FY 2008 and FY 2009 funding was realigned to higher priority requirements.

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COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	
628      Developmental Test Technology & Sustainment	37441	51831	45930	46421	44558	35435	36213	37010	

**A. Mission Description and Budget Item Justification:** This program provides critical front-end investments for development of new test methodologies, test standards, advanced test technology concepts for long range requirements, future test capabilities, and advanced instrumentation prototypes for the United States Army Developmental Test Command (DTC), a subordinate command of the Army Test and Evaluation Command (ATEC), which includes: Aberdeen Test Center (ATC), Aberdeen Proving Ground, Maryland; White Sands Missile Range (WSMR), New Mexico; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; Yuma Proving Ground (YPG), Arizona (including the Cold Regions Test Center (CRTC), Fort Greely, Alaska and the Tropic Regions Test Center, at various locations); Aviation Technical Test Center (ATTC), Fort Rucker, Alabama; Redstone Technical Test Center (RTTC), Redstone Arsenal, Alabama; and Dugway Proving Ground (DPG), Utah. These capabilities are required to support developmental testing requirements of high priority Army systems being rapidly fielded to Iraq and Afghanistan, and those systems supporting Army Transformation.

A key element within this program is building the Army's network-centric test capability. This capability, comprised of modern simulation and internetting technologies, uses the Department of Defense Architecture Framework to integrate live, virtual and constructive models in realistic live and synthetic environments. A network of Distributed Test Control Centers (DTCCs), each connected to the Defense Research and Engineering Network (DREN), has been installed at each Army test range to bring all of the Army's test capabilities to bear on the complex challenge of system-of-systems testing. Within the DTCC network, an Inter-Range Control Center (IRCC), installed at White Sands Missile Range (WSMR), serves as the primary interface between ATEC test ranges and the Future Combat Systems Lead Systems Integrator System-of-Systems Integration Laboratory (SOSIL). The IRCC will facilitate a complete virtual replication of the battlespace using distributed test assets to exercise, measure and analyze the synergies achieved through the system-of-systems architecture. It will serve as the central test control for distributed tests involving multiple ranges and the SOSIL, and will provide the central analytic data center for comparing tactical common operational pictures with ground truth. This technology investment follows Office of Secretary of Defense guidance for Test and Evaluation test architectures and test and training range interoperability.

Sustaining instrumentation maintains existing capabilities at test facilities by replacing unreliable, uneconomical and irreparable instrumentation, as well as incremental upgrades of instrumentation and software, to assure adequate test data collection capabilities. This project develops and sustains developmental test instrumentation and capabilities that provide the data necessary to support acquisition milestone decisions for all commodity areas throughout the Army and in direct support of all Army Transformation Elements.

<b>Accomplishments/Planned Program:</b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Provides command-level oversight, management and technical support for the DTC test technology and instrumentation investment programs. Technical support includes requirements development, project prioritization and execution of investments accounts for Small Business Innovation Research, Major Construction, Army (MCA), Unspecified Minor MCA, Revitalization and Upgrade of facilities, Production Base Support, Army Test Technology and Sustaining Instrumentation, Major Test and Evaluation (T&E) Investment, and the Central T&E Investment Program. Provides support to ATEC Domain Teams in coordinating development of common instrumentation and technology needs for developmental and operational testing. Provides management and support costs for direct interface with the T&E Executive Agent, management of needs and solutions calls for T&E Reliance oversight, and support of the Army principal of the	5833	5301	5117	5074

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Test Resource Advisory Group (TRAG).				
Development, acquisition and sustainment of critical test technology and instrumentation: Provides and maintains the necessary test instrumentation, computer and communications systems, data collection, analysis and reporting equipment and other test capabilities to successfully develop and test the Army Future Force. Acquires instrumentation for reliability, availability and maintainability data collection on tracked and wheeled vehicles; replaces automotive transducers for measuring vibration and engine performance and ballistic transducers for measuring chamber pressures during ammunition tests; supports development of common data collection instrumentation used in developmental and operational testing across all test commodity areas; acquires instrumentation for electromagnetic environment effects on ground and air systems; continues replacement and upgrade of range control instrumentation, radar, optics and telemetry equipment used in missile testing; acquires data recorders, signal conditioning equipment, data processing equipment and other instrumentation for aircraft and Unmanned Aerial Systems (UAS) tests; upgrades natural environments test instrumentation used for testing weapon systems, vehicles, munitions and support equipment in extreme hot desert environments as well as extreme cold conditions; continues upgrade of survivability/vulnerability test capabilities in support of live fire and active protection systems; upgrades and replaces mobile range communications equipment and digital end devices and develops advanced test technologies and instrumentation for testing next generation materiel such as hybrid electric propulsion systems, advanced armor protection, multi-spectral sensors, and advanced soldier systems. Funding increase in FY07-FY10 upgrades and replaces an accumulated backlog of obsolete and maintenance intensive instrumentation, which is required to reduce cost growth and achieve personnel efficiencies.	11629	28031	26825	26903
Support of simulation and distributed testing: Provides the necessary synthetic test environments, hardware-in-the-loop capabilities and models and simulations to successfully develop and test the Army Future Force. Continues development of test control simulation tools and test beds which integrate actual field instrumentation data with existing simulations and models to conduct test range management, test setup, simulation model validation and test result validation. Synthetic Environment Integration projects are used to develop and demonstrate the ability to tie all geographically dispersed Army test ranges and synthetic battle-space representations together for system of systems level testing. The Future Combat System (FCS) Lead Systems Integrator and the Program Manager (PM), FCS (BCT) Future Combat System Brigade Combat Team, have built this distributed test capability into their testing strategy. These projects also fund a collaborative knowledge management system to provide a common access for all data/documents within the Army test community. Continues development of a High Level Architecture (HLA) and Department of Defense Test and Training Enabling Architecture (TENA) compliant architecture for integrating internal and external models, software algorithms, virtual test tools, databases, and synthetic environments; integrate synthetic range and image generation, and acquisition of test support tools. Continues development of tools for control and conduct of live, virtual and constructive integrated tests in net-centric warfare environments.	14995	11780	13988	14444
The WSMR Film Elimination Congressional Add: Continues procurement and integration of technologically advanced commercial off-the-shelf digital imaging systems to replace legacy film-based imaging systems at WSMR. Supports non-tracking instruments by acquiring mobile launch support network vans; lenses, portable field computers, field storage devices, media duplicators; and equipment for digital imaging, reproduction, archiving and photo lab support in the Media Transfer Facility.	2013			
WSMR Accelerator Based Neutron Production Study Congressional Add: Supports development of a facility for providing neutron radiation test environments for nuclear effects testing using other than conventional fission reactor technology. The alternative is required because the costs and risks associated with conventional fission reactor technology are prohibitive. The funding will provide an analysis and report on the feasibility of designing and building an alternative neutron radiation test environment for the Army	959			
Aberdeen Technology Transfer Initiative Congressional Add: Supports the issuance of approximately 15 technology transfer contracts to small businesses to enter into technology transfer agreements with Aberdeen Proving Ground (APG). Also supports APG Business	1053			

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Development Office labor to research, define, and issue the contracts and to monitor the contracting effort.					
Dugway Testing and Infrastructure Upgrades Congressional Add: The Dugway Proving Ground is charged with testing a broad range of sensor technologies across a variety of operational scenarios and environmental conditions including those encountered in urban operations. This presents very challenging requirements for test and evaluation (T&E) tools that can provide both high-fidelity simulated results and accurate ground truth data for sensor performance verification. By tying the modeling and simulation (M&S) software tools more closely to the actual sensor ground truth instrumentation, a more comprehensive T&E capability can be achieved. This will enable DPG to substantially improve its capabilities for improving our defense against chemical, biological and radiological threats. The Defense Advanced Research Projects Agency is funding an effort to design and build a highly engineered autonomous version of an eye-safe LIDAR (light detection and ranging) system for detecting and mapping aerosols out to ranges greater than 10 kilometers. A breadboard version of this system was developed and deployed as part of the Pentagon Shield 2004 program. It provided unprecedented profiles of aerosol distributions and flow patterns in the vicinity of the Pentagon and will be deployed for full time unattended operation in support of the Pentagon Force Protection Agency. M&S software has also been developed for providing an understanding of how threat clouds will evolve on the battlefield and in urban environments as they are affected by meteorology and terrain. The purpose of this project is to build one or more eye-safe LIDAR referee systems, to develop elastic backscatter LIDAR calibration procedures and models, and to merge and fuse multiple LIDAR and other referee system data with atmospheric dispersion and LIDAR models, in order to generate the best possible aerosol cloud characterization and tracking.	959	1100			
Chemical Biological Defense Materiel Test and Evaluation Initiative (CBDMTEI) Congressional Add: Supports the creation of a Technology Development, Application and Commercialization Center to promote licensing of inventions and submission of research proposals. Also showcases DPG technology to business and education institutions, and sponsors activities to showcase capabilities of small business and educational institutions of interest to DPG.			1650		
White Sands Missile Range Study Congressional Add: Provides an updated range wide Environmental Impact Statement (EIS) that covers a broad range of joint RDT&E activities. WSMR is the largest major range and test facility base in the Department of Defense. A variety of test and training activities occur at WSMR, each of which require environmental consideration per the National Environmental Protection Act (NEPA) and state environmental regulations. As the range mission evolves to meet the DoD transformational needs, the environmental documentation, process and uses of the range must also evolve. On January 6, 2006, the Army announced the location of the Evaluation Brigade Combat Team at Ft. Bliss/White Sands Missile Range and the establishment of a center for conducting the system design and development of the Future Combat System. This new type of RDT&E activity will not only transform the Army, but it will transform the use of WSMR and the region support infrastructure.			2600		
Small Business Innovative Research/Small Business Technology Transfer Programs			1369		
<b>Total</b>	<b>37441</b>	<b>51831</b>	<b>45930</b>	<b>46421</b>	

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COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	
62B OPERATIONAL TESTING INSTRUMENTATION DEVELOPMENT	9920	14511							

**A. Mission Description and Budget Item Justification:** This project provides for the technical development, enhancement, upgrade and maintenance of essential non-major instrumentation related technology programs. The various projects will achieve cost effective data collection, data reduction, data analysis, telemetry, and processing capability in support of robust and credible operational tests as required by the Department of Defense (DOD) and Congress. The increased sophistication of the Army's new weapons as well as communication and control systems demands new instrumentation's ability to capture test data non-intrusively. The data must be collected at high rates and in massive volumes. After the essential data is collected, it must be reduced to the essential elements necessary for effective evaluation. As the Army's digitization and transformation of the battlefield continues, this development effort allows Army Test and Evaluation Command's Operational Test Command (OTC) to modernize and develop its non-major instrumentation to be more robust, reliable and less intrusive in terms of integrating automated instrumentation during operational tests. The goal is to expand data collection, reduction, and analysis of the collected data and test control capability, while reducing future operational test costs. This project supports multiple instrumentation development efforts leading to improved command and control, increased mobility, expanded remote data collection from various tactical sites. In many instances instrumentation must have a transmission capability to central receiving, control, and evaluation stations at various test directorates, and the capability to support Real-Time Casualty Assessments which measures simulated attrition of forces during simulated battlefield engagements. OTC's test directorates are located at Fort Hood, TX, Fort Bragg, NC, Fort Bliss, TX, Fort Huachuca, AZ, and Fort Sill, OK. These programs support Operation Iraqi Freedom (OIF), Operation Enduring Freedom (OEF), and the Current to Future transition path of the Transformation Campaign Plan. Beginning FY 2008 funding from PE Number 0605602A Project 62B for modeling, simulation, and instrumentation development and the subsequent sustainment of all systems are identified under the PE line 0605602A Project 62C.

<b>Accomplishments/Planned Program:</b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY06 Accomplished Projects: The accomplished and planned projects fall within the test technology areas as outlined in the latest Army Test Resource Master Plan of June 2006. These projects fall within Performance Instrumentation Systems, Time Space Position Information (TSPI) and Telemetry Systems, Network Control Systems and Data Management, and Imaging Systems. technology categories. The accomplished projects: Operational Test Command (OTC) Analytic, Simulation and Instrumentation Suite (OASIS) Integration FY06 Phase I, Extensible C4I (Command, Control, Communications, Computers, and Intelligence) Instrumentation System Fire Support Application (ExCIS-FSA), Global Positioning System (GPS) Modernization, Multimedia Data Transfer system, Family of Digital Data Collector Test Bed, Neutral Network Based Software, Intelligence and Electronic Warfare (IEW) Test Operation Capability, Digital Asset Management System, High Speed Data Recording System, Data Collection and Analysis Van, Mobile Surveillance & Target Acquisition Radar, Intelligence Modeling and Simulation for Evaluation (IMASE), Operational Test Tactical Engagements System (OT-TES), and Test Technology Execution Centers (TTEC).	8578			
Small Business Innovative Research/Small Business Technology Transfer Programs		409		
FY07 Planned Program: ExCIS, Performance Instrumentation Systems, Time Space Position Information (TSPI) and Telemetry Systems, Network Control Systems and Data Management, and Imaging System technology categories: Network Instrumentation Test Systems,		12152		

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Family of Digital Data Collectors Test Bed, IEW Test Operations Capability, Mobile Surveillance & Target Acquisition Radar, Multimedia Data Transfer System, Alternative Power Source for Future Combat System (FCS), ExCIS FSA, GPS Modernization, High Speed Data Recording System, Command Audio/Video Modernization, OT-TES Support, Quick Look Instrumentation Workstation, Secure Wide Band Satellite Common Link, and Digital Asset Management System.				
Congressional increases for HQ Operational Test Command Air Defense Artillery Test Directorate developing Mobile Optical Tracking System.	1342	1950		
<b>Total</b>	<b>9920</b>	<b>14511</b>		

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COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	
62C MODELING AND SIMULATION INSTRUMENTATION	6678	14125	28461	28646	29823	22858	23517	24036	

**A. Mission Description and Budget Item Justification:** A. Mission Description and Budget Item Justification: Increased funding in FY07 develops synthetic environments and instrumentation systems necessary to test FCS and Future Force systems under realistic operational conditions. This project provides the critical foundation necessary to develop and sustain the Army Test and Evaluation Commands (ATEC) current and future modeling and simulation (M&S) instrumentation efforts. ATECs M&S efforts include: Operational Test Tactical Engagements System (OT-TES); Command, Control and Communication Driver (C3 Driver); Test Technology Execution Centers (TTEC); Test and Evaluation Enterprise Architecture (TEEA); Intelligence Modeling and Simulation for Evaluation (IMASE); Extensible C4I Instrumentation System Fire Support Application (ExCIS-FSA); Simulation Testing Operations Research Model (STORM); and Operational Test Command (OTC) Analytic, Simulation and Instrumentation Suite (OASIS) Integration and Management. All these systems will benefit Armys Acquisition Category (ACAT) I, II, and III systems under operational test and series of Future Combat Systems. Beginning FY 2008 funding from PE Number 0605602A Project 62B for modeling, simulation, and instrumentation development and the subsequent sustainment of all systems are identified under the PE line 0605602A Project 62C.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY06 Accomplishments Programs: Funds utilized for the high priority modeling and simulation instrumentation systems, such as development and sustainment of OT-TES, IMASE, STORM, TTEC, STORM, and OASIS.	4198			
FY07 Planned Programs: Funds will be utilized for the development and sustainment of high priority modeling and simulation instrumentation systems, such as Next Generation Command, Control, Communications, and Intelligent Engineering and Evaluation Systems (NG CEES), M&S Preparation and Integration for FCS OT, M&S Architecture and Requirement for FCS, ExCIS FSA, IMASE, OASIS Integration, Neural Network Based Software, and TTEC Base.		11288		
Small Business Innovative Research/Small Business Technology Transfer Programs		398		
FY08 and FY09 Planned Programs: Funds will be utilized for the development and sustainment of high priority modeling and simulation instrumentation systems. The following programs are planned: OT-TES sustainment and minor upgrades, TTEC, TEEA, IMASE, Performance Instrumentation Systems, Time Space Positioning Information (TSPI) and Telemetry System, Network Control Systems and Data Management, Imaging Systems, Sustainment of OTC MS&I Inventory, ExCIS FSA, STORM, OASIS Integration and Management, Air Defense Artillery Simulation.			26325	26603
Funds development of the C3 Driver. The C3 Driver supports the Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) Army Battle Command System (ABCS) 6.3, 6.4, Brigade Combat Team, Joint Tactical Radio System, and Warfighter Information Network -Tactical development and integration at the Central Technical Support Facility and contractor locations as the Army's single simulator/stimulator.	2480	2439	2136	2043
<b>Total</b>	<b>6678</b>	<b>14125</b>	<b>28461</b>	<b>28646</b>