ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)		February 2004

BUDGET ACTIVITY **6 - Management support**	PE NUMBER AND TITLE **0605718A - Simulation & Modeling for Acq, Rqts, & Tng (SMART)**	PROJECT **S01**

COST (In Thousands)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
S01 INTEGRATION AND EVALUATION CENTER (IEC) SUSTAINMEN	0	2568	1935	1964	2123	2262	2348

A. Mission Description and Budget Item Justification: The Simulation and Modeling for Acquisition, Requirements and Training (SMART) Program will develop essential operational tools and software applications to support ongoing Advanced Concepts Technology Demonstrations (ACTDs) and maintain the current suite of modeling/simulation programs resident in the Joint Precision Strike Demonstration's (JPSD) Integration and Evaluation Center (IEC). The JPSD's mission is to integrate innovative futuristic operational concepts, and tactics, techniques, and procedures (TTPs) with emerging technologies to significantly improve OSD/Army/Combatant Commanders capabilities. The IEC provides the environment that enables the development of SMART tools. This architecture, operational tools and software applications are essential to support ongoing ACTDs and Joint exercises/experiments. The IEC provides critical support in: (1) developing, testing and evaluating Joint Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) operational concepts, TTPs, enabling technologies and systems; (2) developing and evaluating Joint/Services sensor-to-shooter and precision engagement C4ISR architectures; (3) providing a robust/current modeling and simulation environment to support Joint Forces Commands (JFCOM) joint experimental programs and the Army's critical SMART Program and Simulation Based Acquisition (SBA) activities (4) development of visualization tools and applications to significantly enhance the Combatant Commander's and/or JTF Commander's situational awareness of their battle space. The IEC is a critical enabling capability in building and testing software applications for JPSD's current ACTDs. The IEC's virtual environment and its Joint Virtual Battlespace (JVB) environment allows the Army/OSD to test and evaluate concepts and technologies before making costly technology commitments. The IEC has the capability (modeling, simulation and communications) to conduct distributed exercises and experiments in any combination of real tactical and operational systems with constructive and virtual simulations/simulators and state-of-the-art high fidelity models to provide a JVB environment. The IEC and its capabilities are consistent with the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan and Project Reliance. The IEC, located within the Army's Topographic Engineering Center (TEC), has been built and maintained by the Director, Joint Precision Strike Demonstration Project Office (JPSD-PO) at Fort Belvoir, Virginia. JPSD-PO is an OSD/Army chartered program under the Program Executive Officer for Intelligence, Electronic Warfare, and Sensors (PEO-IEW&S), Fort Monmouth, NJ.

This system supports the Current/Future Force transition path of the Transformation Campaign Plan (TCP).

FY05 Funding continues to provide enhanced Joint user/developer testbeds.

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Accomplishments/Planned Program	FY 2003	FY 2004	FY 2005
IEC Sustainment - Funds will provide enhanced Joint user/developer testbed for rapid prototyping of new systems in C4I and weapon(s) evaluations. Support modeling and simulation synthetic operational environment for three advanced concept technology demonstrations: Theatre Precision Strike Operations (TPSO), Joint Intelligence Surveillance and Reconnaissance (JISR), and Joint Continuous Strike Environment (JCSE); and two SMART/SBA acquisition programs: Future Combat System and Aerial Common Sensor. Support planned transition of TPSO ACTD in training and simulation support for exercises. Provide stimulus in support of training for the JISR ACTD and web-based development. Provide secure communications via secret internet protocol router network (SIPRNET) to enable ACTDs to transmit software upgrades and patches in support of tests, evaluations and joint exercises. Provide a geographically distributed network to support joint warfare exercises and experiments.	0	2492	1935
Small Business Innovative Research/Small Business Technology Transfer Programs	0	76	0
Totals	0	2568	1935

B. Program Change Summary	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	0	2654	2731
Current Budget (FY 2005 PB)	0	2568	1935
Total Adjustments	0	-86	-796
Congressional program reductions		-23	
Congressional rescissions			
Congressional increases			
Reprogrammings		-63	
SBIR/STTR Transfer			
Adjustments to Budget Years			-796

Change Summary Explanation - Funding - FY 2005: Funds realigned in support of higher priority programs (-796).