

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

February 2002

BUDGET ACTIVITY 6 - Management support		PE NUMBER AND TITLE 0605718A - Simulation & Modeling for Acq, Rqts, & Tng (SMART)						PROJECT S01		
COST (In Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
S01	INTEGRATION AND EVALUATION CENTER (IEC) SUSTAINMEN	0	0	2694	2685	2778	2872	2962	Continuing	Continuing

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 IEC provides critical support in: (1) developing, testing and evaluating Joint Command, Control, Communication and Computer Intelligence, Surveillance and Reconnaissance (C4ISR) operational concepts, tactics, techniques and procedures (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 the Army's critical SMART Program and Simulation Based Acquisition (SBA) activities; (4) Joint/Services development of Joint Warfighting Concepts and operational TTPs; and (5) development of visualization tools and applications to significantly enhance the CINC's and/or JTF Commander's situational awareness of their battlespace. The IEC is a critical enabling capability in building and testing software applications and operational concepts for JPSD's four current ACTDs: Theater Precision Strike Operations (TPSO) – USFK, Joint Continuous Strike Environment (JCSE) – EUCOM, and Joint Intelligence Surveillance Reconnaissance (JISR) – CENTCOM; and one new proposed ACTD, Theater Effects Based Operations (TEBO) – CINCUNC. The IEC has also proven to be essential for conducting SMART/SBA activities in support of the three critical Army acquisition programs: the Objective Force, Future Combat Systems, and Aerial Common Sensor. The IEC's virtual environment allows the Army to test and evaluate concepts and technologies before making costly, irreversible procurement decisions. The IEC is a unique combination of real tactical and operational systems with constructive and virtual simulations/simulators and state of the art high-fidelity models to provide a Joint Virtual Battlefield testbed which can be used to: (1) design, conduct, collect data and evaluate system-of-systems experiments and demonstrations; (2) support and stimulate geographically dispersed field exercises and operational tests; and (3) support and evaluate the development of joint operational concepts and emerging technologies before integrating them into the CINC's go-to-war C4ISR architecture. This later capability has allowed JPSD to quickly and safely integrate proven concepts and technologies into not only one CINC's architecture, but multi CINC's, thereby enhancing all their capabilities simultaneously and significantly improving joint interoperability. The cited work is consistent with the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan and Project Reliance. The program element, because of its joint nature, does not duplicate, but instead significantly improves and supports ongoing efforts within the Military Departments. 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.

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PROJECT

S01**FY 2001 Accomplishments:**

This Program starts in FY 2003.

FY 2002 Planned Program

This Program starts in FY 2003

FY 2003 Planned Program

- 2694 - Provide enhanced Joint user/developer testbed for rapid prototyping of new systems in C4I and weapon(s) evaluations.
- Support execution of four advanced concept technology demonstrations (TPSO; JISR; JCSE; and TEBO) and two SMART/SBA acquisition programs (FCS and ACS).
- Support planned transition of Theater Precision Strike Operations (TPSO) ACTD in training and simulation support for exercises.
- Provide stimulus in support of training for the Joint Intelligence Surveillance and Reconnaissance (JISR) ACTD and web-based development.

Total 2694

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PROJECT
S01

<u>B. Program Change Summary</u>	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY 2002 PB)	0	0	0
Appropriated Value	0	0	0
Adjustments to Appropriated Value	0	0	0
a. Congressional General Reductions	0	0	0
b. SBIR/STTR	0	0	0
c. Omnibus or Other Above Threshold Reduction	0	0	0
d. Below Threshold Reprogramming	0	0	0
e. Rescissions	0	0	0
Adjustments to Budget Years Since FY 2002 PB	0	0	2694
Current Budget Submit (FY 2003 PB)	0	0	2694

Change Summary Explanation: Funding: FY 2003 - Funds realigned to support the Simulation and Modeling for Acquisition, Requirements and Training (SMART) Program.