

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)						February 2003					
BUDGET ACTIVITY 6 - Management support				PE NUMBER AND TITLE 0605718A - Simulation & Modeling for Acq, Rqts, & Tng (SMART)			PROJECT S01				
COST (In Thousands)				FY 2002 Actual	FY 2003 Estimate	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	0	2654	2731	2815	2902	3005	3029
<p><u>A. Mission Description and Budget Item Justification:</u> 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). Joint Precision Strike Demonstration’s (JPSD) 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 Integration and Evaluation Center (IEC) provides the environment that enables the development of SMART tools. This architecture, operational tools and software applications are essential to support ongoing Advanced Concepts Technology Demonstrations (ACTDs) and Joint exercises/experiments. The IEC provides critical support in: (1) developing, testing and evaluating Joint 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 Battle space (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 Objective transition path of the Transformation Campaign Plan (TCP).</p> <p>FY 2004 funds will be utilized for continuous IEC capability improvement to enable Army/Joint/coalition modeling and simulation synthetic operational environment.</p>											

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IEC Sustainment - FY 2002 Funding was provided in PE 0603238A, Global Surveillance/Air Defense, Precision Strike, project 177. 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 (TPSO; JISR; and JCSE), and two SMART/SBA acquisition programs (Future Combat System (FCS) and Aerial Common Sensor (ACS)). Support planned transition of Theatre 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. 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.																																																							
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