

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0203758A - Digitization					PROJECT 374		
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	Cost to Complete	Total Cost	
374 HOR BATTLEFLD DIGITIZN	12878	14709	9737	11056	10453	8097	8262	8460	Continuing	Continuing	

A. Mission Description and Budget Item Justification: Horizontal Battlefield Digitization is a strategy that allows warfighters, from the individual soldier and platform to echelons above corps, to share critical situational awareness (SA) and command and control information. It applies digital information technologies to acquire, exchange, and employ data throughout the battlespace, providing a clear and accurate common relevant picture for leaders at all levels. This timely sharing of information significantly improves the ability of commanders and leaders to quickly make decisions, synchronize forces and fires, and increase the operational tempo. Digitization is a means of realizing a fully integrated command and control capability to the platoon level, including interoperability links with joint and multi-national forces. The major efforts included in the program element are: 1) Integration and synchronization of the Army's interoperability efforts; coordination of interoperability efforts between joint and multi-national forces; and the synchronization of combat material and training efforts to develop and deploy Army information technologies. 2) Systems engineering and integration of hardware and software interfaces between and across multiple battlefield operating systems and across multiple Program Executive Offices, providing System of Systems (SOS) capabilities that satisfy warfighter requirements and enable the prosecution of mission operations by providing one Common Operational Picture (COP). 3) Software Blocking to synchronize system developments in order to support System of System (SOS) interoperability for legacy, interim and objective forces. 4) Unit Set Fielding operationally releases, fields and incorporates materiel systems as part of the whold C4ISR system of systems architecture. 5) Field integration to Active and Reserve Components both CONUS and OCONUS to support field use of digitized equipment.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Conduct technical interoperability assessments, perform interoperability/integration analyses, analyze networked weapon system and Situational Awareness (SA), Command and Control (C2), Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems compatibility, and assess technical and operational test plans, activities, and results.	2713	3158	1782	2250
Manage cross-platform software and hardware development, testing, training, and fielding to ensure the coordinated interoperability for each Army Force unit rotation.	3530	4115	2505	3105
Integrate and synchronize interoperability across SA/C2/C4ISR programs in support of acquisition synchronization, testing, training, and fielding System of Systems capabilities to the Army Force. Continue application across current and future force.	1909	2100	1650	1781
Apply university academic and research resources to the integration of Army complex modeling, simulation, and training in support of modernized forces.	1615	1500		
Support Joint and Coalition interoperability programs to improve integration and interoperability in accordance with Army Software Blocking Policy, Joint Planning Guidance, Coalition Specifications, Joint Capabilities Integration and Development System (JCIDS) requirements.			600	620
Support digitization technical integration with Active and Reserve Components both CONUS and OCONUS.	3111	3836	3200	3300
Total	12878	14709	9737	11056

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<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	13152	13373	10187	11456
Current BES/President's Budget (FY 2008/2009)	304408	303491	325643	417911
Total Adjustments	291256	290118	315456	406455
Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases		1336		
Reprogrammings	-274			
SBIR/STTR Transfer				
Adjustments to Budget Years			-450	-400

FY 2006/2006 Congressional increases for University XXI at University of Texas/University of Texas A & M.

C. Other Program Funding Summary Not applicable for this item.

D. Acquisition Strategy To validate/demonstrate concepts and requirements, near term efforts are focused on developing a seamless battlefield software architecture and digitized hardware systems to include: evaluation of the horizontal battlefield digitization resources for systems, acquisition, integration, and testing of digital capability across multiple command and control, communications, sensors, and weapons platforms. The result will be an integrated, synchronize capability designed to meet the near-term requirements of the Stryker Brigade Combat Teams and the Army Future Force. Also supports the Army's role in joint and multi-national digitization programs, battle command efforts and Joint Battlefield Situational Awareness.

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
7 - Operational system development			0203758A - Digitization									374		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
System/Software Integration	MIPR/PWD	Various	95563	5252	2-3Q	6423	2-3Q	3483	2-3Q	4515	2-3Q	Cont.	Cont.	
International Digitization	MIPR/PWD	Various	11001										11001	
Technical Analysis	MIPR	MITRE, McLean, VA	8156	1600	2Q	1600	1Q	1650	1Q	1780	1Q	Cont.	Cont.	
Other Government Agencies	MIPR	Various	6522											
Single Integrated Ground Picture	MIPR		7281											
Subtotal:			128523	6852		8023		5133		6295		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Directorate of Integration Office Operations	In House	Pentagon, Arlington, VA	10472	1300	1-4Q	1350	1-4Q	1404	1-4Q	1461	1-4Q		15987	
Digitization Planning, Internet and graphics support	MIPR	General Dynamics Corp. Pentagon, Arlington, VA	6999										6999	
Info Ops, System Eng. & Field Integration, Internet and graphics support.	PWD	Quantum Res International, Pentagon & NC3, Arlington, VA, Ft. Monroe, VA, & Ft. Hood, TX and others	19894											
Other Integration Support	MIPR	L3Com, Pentagon	2119										2119	
System Eng. & Field Integration, Internet and graphics support.	PWD	Quantum Res International, Pentagon & Arlington, VA, Ft. Monroe, VA, & Ft. Hood, TX		3111	4Q	3836	4Q	3200	4Q	3300	4Q		13447	
Subtotal:			39484	4411		5186		4604		4761			38552	

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III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Other Govt. Agencies	MIPR	Various	5062										5062	
University XXI Initiatives	PWD	Univ. of Texas and Texas A&M	14742	1615	4Q	1500	1Q						17857	
Studies/Analyses	MIPR	Pentagon, Arlington, VA	2116										2116	
DISM Battalion Test	MIPR/PWD		1000										1000	
Subtotal:			22920	1615		1500							26035	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														

Remarks: Not Applicable

Project Total Cost:	190927	12878		14709		9737		11056		Cont.	Cont.	
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