

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0203758A - Digitization						PROJECT 374		
COST (In Thousands)	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	14490	9675	9534	8871	6472	6574	6709	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 whole 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 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.	3131	1782	1727
Manage cross-platform software and hardware development, testing, training, and fielding to ensure the coordinated interoperability for each Army Force unit rotation.	3815	2505	2216
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.	2100	1650	1732
Apply university academic and research resources to the integration of Army complex modeling, simulation, and training in support of modernized forces.	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.	3944	2921	3239
Small Business Innovative Research/Small Business Technology Transfer Program		217	
Total	14490	9675	9534

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0203758A - Digitization			PROJECT 374
<u>B. Program Change Summary</u>	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY 2008/2009)	14709	9737	11056	
Current BES/President's Budget (FY 2009)	14490	9675	9534	
Total Adjustments	-219	-62	-1522	
Congressional Program Reductions		-62		
Congressional Rescissions				
Congressional Increases				
Reprogrammings	108			
SBIR/STTR Transfer	-327			
Adjustments to Budget Years			-1522	

Change Summary Explanation: Funding - FY 2009: Funds realigned to higher priority programs.

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 2008

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 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	100815	6204	2-3Q	3421	2-3Q	4454	2-3Q	Cont.	Cont.	
International Digitization	MIPR/PWD	Various	11001								11001	
Technical Analysis	MIPR	MITRE, McLean, VA	9756	1600	1Q	1650	1Q	1780	1Q	Cont.	Cont.	
Other Government Agencies	MIPR	Various	6522									
Single Integrated Ground Picture	MIPR		7281									
Subtotal:			135375	7804		5071		6234		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	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	11772	1350	1-4Q	1404	1-4Q		1-4Q		14526	
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	3836	4Q	3200	4Q	3300	4Q		13447	
Subtotal:			43895	5186		4604		3300			37091	

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0203758A - Digitization	PROJECT 374
---	--	------------------------------

III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	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	16357	1500	1Q						17857	
Studies/Analyses	MIPR	Pentagon, Arlington, VA	2116								2116	
DISM Battalion Test	MIPR/PWD		1000								1000	
Subtotal:			24535	1500							26035	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	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:	203805	14490		9675		9534		Cont.	Cont.	
----------------------------	---------------	--------------	--	-------------	--	-------------	--	--------------	--------------	--