ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)								February 2006	

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

COST (In Thousands)	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
374 HOR BATTLEFLD DIGITIZN	24055	13152	13373	10187	11456	10835	8485	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; Integration of physical interfaces and logical mechanisms between and across multiple battlefield operating systems and across multiple Program Executive Offices, providing improved capability to operate in the common battlefield picture/SA and common operating environment (COE). Enhance synchronization of maneuvers, direct/indirect fires, intelligence and targeting, and reduce fratricide. 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 oprationally releases, fields and ancorporates 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.

Accomplishments/Planned Program	FY 2005	FY 2006	FY 2007
Conduct technical interoperability studies, perform interoperability/integration analyses, analyze networked weapon system and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) system compatibility, and assess technical and operational test plans, activities, and results.	3665	2713	3158
Manage cross-platfrom software development and fielding and ensure oordinated ensuring interoperability among the various weapon platforms.	5575	3530	4115
Integrate and synchronize interoperability across C4ISR programs in support of testing, training, and fielding system of systems developments to the force. Continue application across current and future force.	1963	1909	2100
Single Integrated Ground Picture (SIGP) is an Army-led, multi-service initiative that maximizes the effectiveness of mission execution and significantly enhances the warfighting capabilities for U.S., Allied and Coalition Ground Forces by providing integrated information of the ground-based battlespace to the warfighter.The Single SIGP focus is the development of Joint processes, methods, architectures, standards, Operational Concept and Concept of Operations that provides the Warfighter with enhanced ground picture of the battlespace, enabling the Warfighters to more precisely and decisively command and control that battlespace.	7291	0	0
Apply university academic and research resources to the integration of Army modeling, simulation, and training in support of modernized forces.	2050	1000	0
Support Joint and Coalition interoperability programs to improve operational integration in accordance with Joint Planning Guidance, including C4I Coalition Warfare, interoperability database developments, operational system architectures and coalition data strategies.	0	0	0
Support digitization technical integration with Active and Reserve Components both CONUS and OCONUS.	3511	4000	4000

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2006

BUDGET ACTIVITY **7 - Operational system development**	PE NUMBER AND TITLE **0203758A - Digitization**			PROJECT **374**
Total		24055	13152	13373

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2006

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

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	29045	12343	13061
Current BES/President's Budget (FY 2007)	24055	13152	13373
Total Adjustments	-4990	809	312
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases		1000	
Reprogrammings	-4990		
SBIR/STTR Transfer			
Adjustments to Budget Years		-191	312

Change Summary Explanation: Funding - FY 2005: Funds transferred to new PE 0605737A, Defense Foreign Language, as directed by Congress to support the Broadband Foreign Language Training program and Satellite Communications for Learning (SCOLA).

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.

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Budget Item Justification

ARMY RDT&E COST ANALYSIS (R3)

February 2006

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 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
System/Software Integration	MIPR/PWD	Various	87324	8239	1Q	5252	2-3Q	6423	2-3Q	Continue	0	0
International Digitization	MIPR/PWD	Various	11001	0	1Q	0		0		0	11001	0
Technical Analysis	MIPR	MITRE, McLean, VA	6447	1709	1Q	1600		1600	1Q	Continue	0	0
Other Government Agencies	MIPR	Various	6522	0		0		0		0	0	0
Single Integrated Ground Picture	MIPR		0	7281		0		0		0	0	0
Subtotal:			111294	17229		6852		8023		Continue	11001	0

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Directorate of Integration Office Operations	In House	Pentagon, Arlington, VA	9207	1265	1-4Q	1300		1350	1-4Q	0	0	0
Digitization Planning, Internet and graphics support	MIPR	General Dynamics Corp. Pentagon, Arlington, VA	6999	0		0		0		0	6999	0
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	16383	3511	3Q	0		0		0	0	0
Other Integration Support	MIPR	L3Com, Pentagon	2119	0		0		0		0	2119	0
System Eng. & Field Integration, Internet and graphics support.	PWD	TBD, Pentagon & NC3, Arlington, VA	0	0	2Q	4000		4000	2Q	0	0	0
Subtotal:			34708	4776		5300		5350		0	9118	0

III. Test And Evaluation	Contract	Performing Activity &	Total	FY 2005	FY 2005	FY 2006	FY 2006	FY 2007	FY 2007	Cost To	Total	Target

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ARMY RDT&E COST ANALYSIS

ARMY RDT&E COST ANALYSIS (R3)

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

	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost	Value of Contract
Other Govt. Agencies	MIPR	Various	5062	0		0		0		0	5062	0
University XXI Initiatives	PWD	Univ. of Texas and Texas A&M	12692	2050		1000		0		0	0	0
Studies/Analyses	MIPR	Pentagon, Arlington, VA	2116	0		0		0		0	2116	0
DISM Battalion Test	MIPR/PWD		1000	0		0		0		0	1000	0
Subtotal:			20870	2050		1000		0		0	8178	0

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0									

Remarks: Not Applicable

| **Project Total Cost:** | | | **166872** | **24055** | | **13152** | | **13373** | | **0** | **28297** | **0** |

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ARMY RDT&E COST ANALYSIS