ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	Exhibi	it)	Fe	ebruary 2	003	
BUDGET ACTIVITY 7 - Operational system development			E NUMBER .)203758A						PROJECT 374	
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	Cost to	Total Cost
374 HOR BATTLEFLD DIGITIZN	31420	32158	18251	18716	15349	15733	9952	11296	Continuing	183695

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) Unit Set Fielding (USF) operationally releases, fields, and incorporates materiel systems as part of the whole C4ISR system of systems architecture associated with the critical mission threads the Army rquires to support Strategic National Tasks. USF serves as the synchronizing process, ensuring that fieldings are implemented in an integrated and complimentary fashion and support a unit's modernization with minimum disruption to unit readiness. 4) Softwar

Accomplishments/Planned Program 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.	FY 2002 4832	FY 2003 4688	FY 2004 3993	FY 2005 4050
Provide technical, analytical, and management support for implementation of information operations on the digitized battlefield.	1608	1689	1100	1130
Coordinate, integrate, and synchronize all aspects of material system fieldings to include tracking, recording, and resolving issues for system of systems synchronization and database management, the TCP priorities.	1518	1597	1000	1020
Provide through validation of evolving digital requirements/architecture to ensure realistic/adequate data flows, mission thread analysis, interoperability, human resourece engineering, security and phsical layout of the Transformation Campaign Plan.	1325	1505	900	910

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Accomplishments/Planned Program (continued)	·	FY 2002	FY 2003	FY 2004	FY 2005		
Develop C4I systems software baselines and manage Horizontal Technology interoperability, performance, and scheduling. Perform System Integration for		1019	0	0	0		
Synchronize system/platform integration, through the use of common components	nents, across ground and aviation programs.	4386	0	0	0		
Migrate full Joint interoperability and integration standards, including the rob with Ground systems, and robust networked and databased integration of We synergistic operational capabilities to the force.		0	5174	2558	2666		
Manage integration of Analysis, Modeling and Design (AMD, including softworther systems. Support the increased ingegration of training and test systems		0	2885	0	0		

Apply emerging horizontal integrated information technologies, capitalizing on the synergism achieved through system of system fieldings

Integrate and synchronize interoperability across C4ISR programs in support of testing, training, and fielding system of systems

developments to the force. Provide efforts in architecture to strengthen and leverage S&T advanced capabilities, like flexibility and

Integrate and synchronize modeling and simulation interoperability with programs in support of testing and training of systems

Apply university academic and research resources to the integration of Army modeling, simulation, and training in support of modernized

Support Joint and Coalition interoperability programs to improve operational integration in accordance with JV 2010, including C4I

Coalition Warfare, Command and Control System Interoperability Program (C2SIP) efforts, interoperability database developments, operational system architectures, the Simulation of C2 Information Systems Connectivity Experiments (SINCE) and the Multilateral

Provide strategic planning to the Army Experimentation Campaign Program (AECP). Design and manage Unit Set configuration and

Improve network management across all fielded digitized systems to support increased activity.

developments as part of Simulation and C2 Information Systems Connectivity Experiments (SINCE).

execution. Perform management and oversight of the 3 views of architecture (system, operational, and technical).

Identify Embedded Training Design Support tasks, methodologies, research, and development in the use of simulation.

0203758A Digitization

forces.

Interoperability Program (MIP).

across functional areas.

extensibility.

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3942

3475

1430

1630

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BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0203758A - Digitization			PROJE 374	CCT
Accomplishments/Planned Program (continued) Support Digital Intelligence Situation Mapboard (DISM) Battalion Testand integration rese	earch with SINCGARS	FY 2002 1000	FY 2003 2800	FY 2004 0	FY 2005 0
Totals		31420	32158	18251	18716

B. Program Change Summary	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	32027	28968	32465	33405
Current Budget (FY 2004/2005 PB)	31420	32158	18251	18716
Total Adjustments	-607	3190	-14214	-14689
Congressional program reductions				
Congressional rescissions		-530		
Congressional increases		4800		
Reprogrammings	251	-186		
SBIR/STTR Transfer	-858	-894		
Adjustments to Budget Years			-14214	-14689

Starting FY2004: Transfer of civilian salaries and contractor support to OMA.

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C. Other Program Funding Summary: Not Applicable		
D. Acquisition Strategy: To validate/demonstrate concepts and requirements, n digitized appliqué hardware systems to include: evaluation of the horizontal battl capability across multiple command and control, communications, sensors, and w term requirements of the First Digitized Division, Second Digitized Division by 2 Army Transformation Force. Also supports the Army's role in joint and multi-nat functions; and manages Manpower and Personnel Integration (MANPRINT) mod	efield digitization resources for systems, acquisition reapons platforms. The result will be an integrated 1003, and First Digitized Corps by the end of 2006, ional digitization programs; coordinates/manages s	n, integration, and testing of digital digital capability designed to meet the near- the Stryker Brigade Combat Teams and the

BUDGET ACTIVITY 7 - Operational system development					LYSIS(R-3) PE NUMBER AND TITLE 0203758A - Digitization					February 2003 PROJECT 374				
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cos		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Target Value of Contract		
a . System Integration/Software Blocking	MIPR/PWD	Various	59186	15154	1Q	16451	1Q	16916	1Q	Continue	Continue	C		
b . International Digitization	MIPR/PWD	Various	11001	2951	1Q	600	1Q	600	1Q	Continue	Continue	C		
c . Technical Analysis	MIPR	MITRE, McLean, VA	4028	1090) 1Q	1200	1Q	1200	1Q	Continue	Continue	C		
d . Other Government Agencies	MIPR	Various	6022	500) 1Q	0	1Q	0		0	6522	C		
Subtotal:			80237	19695	5	18251		18716		Continue	Continue	C		
			_											
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cos		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Target Value of Contract		
a . Directorate of Integration Office Operations	In House	Pentagon, Arlington, VA	6192	1400	1-4Q	0		0		0	7592	C		
b . Digitization Planning, Internet and graphics support	MIPR	Veridian Corp. Pentagon, Arlington, VA	5299	1700) 1Q	0		0		0	6999	C		

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BUDGET ACTIVITY 7 - Operational system	- Operational system development					PE NUMBER AND TITLE 0203758A - Digitization					PROJECT 374			
II. Support Cost	Contract	Performing Activity &	Total	FY 200	FY 2003	FY 2004	FY 2004	FY 2005	FY 2005	Cost To	Total	Target		
(continued)	Method & Type	Location	PYs Cost	Cos		Cost	Award Date	Cost	Award Date	Complete	Cost	Value of		
c . Info Ops, System Eng. Integration & Ops Spt.	PWD	Quantum Res International, Pentagon, Arlington, VA, Ft. Monroe, VA, & Ft. Hood, TX and others	11026	410	1Q	0		0		0	15126	(
d . Other Integration Support	MIPR	L3Com, Pentagon	1923	19	i 1Q	0		0		0	2119	(
			24440	739	5	0		0		0	31836	(
Subtotal:			21110			-		-						
	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 200 Cos	FY 2003 t Award	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Value o		
			Total	FY 200	FY 2003 t Award Date	FY 2004						Value of Contrac		
III. Test and Evaluation	Method & Type MIPR	Location	Total PYs Cost	FY 200 Cos	FY 2003 t Award Date	FY 2004 Cost	Award	Cost	Award	Complete	Cost	Targe Value of Contrac (
III. Test and Evaluation a . Other Govt. Agencies	Method & Type MIPR	Various Univ. of Texas and	Total PYs Cost 4935	FY 200 Co:	FY 2003 Award Date 1Q	FY 2004 Cost	Award	Cost 0	Award	Complete 0	Cost 5062	Value of Contrac		
III. Test and Evaluation a . Other Govt. Agencies b . University XXI Initiatives	Method & Type MIPR PWD	Various Univ. of Texas and Texas A&M Pentagon, Arlington,	Total PYs Cost 4935 8692	FY 200 Co: 12 200	FY 2003 Award Date 1Q	FY 2004 Cost 0	Award	Cost 0	Award	Complete 0 0	5062 10692	Value of Contract		

BUDGET ACTIVITY 7 - Operational system de			ANALYSIS(R-3)					February 2003							
	7 - Operational system development					PE NUMBER AND TITLE 0203758A - Digitization					PROJECT 374				
III. Test and Evaluation Cont (continued) Meth Type	hod &	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac			
Subtotal:			16603	5067		0		0		0	21670	(
V. Management Services Cont Meth Type	hod &	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac			
Subtotal:			0	0		0		0		0	0	(
Remarks: Not Applicable			101000	22150		10051		1071							
Project Total Cost:			121280	32158		18251		18716		Continue	Continue	(