

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	0	0	66164	0	0	0	0	0	0	0
361 INTELLIGENCE SIMULATION SYSTEMS	0	0	4200	0	0	0	0	0	0	0
362 WARFIGHTER SIMULATION	0	0	61964	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program element funds the engineering development of constructive and wargame simulations used to realistically train commanders and their battlestaffs on today's complex battlefield conditions. Project D361 funds the engineering development of systems to train Army military intelligence analysts. In FY02, the funding continues the development of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT), which will provide Battle Command training by creating a realistic intelligence information environment that is exploited and reported by Military Intelligence (MI) soldiers to battle commanders and staff. Project D362, Warfighters' Simulation (WARSIM) develops the Army's premier wargame simulation for training leaders and battlestaffs at Brigade, Division, Corps, and echelons above Corps. WARSIM will replace the current legacy systems Corps Battle Simulation (CBS), Tactical Simulation (TACSIM), and integrate Combat Service Support/Tactical Simulation System (CSS/TSS). It also develops the Land component for the Joint Simulation System (JSIMS). WARSIM will provide functionality not currently available (digital operations, stability and support operations, information ops), link to unit organizational C4I equipment, improve exercise generation and after-action reporting, and significantly reduce the number of role players required to support training exercises, thus reducing operational costs. The FY02 funding supports the completion of software development for the initial Version Release for the Army. This system supports the Objective path of the Transformation Campaign Plan (TCP). Note that these projects transferred beginning in FY02 from PE 604715A, Projects D241 and D396.

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DEVELOPMENT**

<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	0	0	0	0
Adjustments to Budget Years Since FY2001 PB	0	0	66164	
Current Budget Submit (FY 2002/2003 PB)	0	0	66164	0

This Program Element was established and the program funding transferred from PE 0604715A, Projects D241 and D396.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT				PROJECT 361			
COST (In Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
361	INTELLIGENCE SIMULATION SYSTEMS	0	0	4200	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> This project funds the engineering development of systems to realistically train Army military intelligence analysts. In FY02, the funding continues the development of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT), which will provide Battle Command training by creating a realistic intelligence information environment that is exploited and reported by Military Intelligence (MI) soldiers to battle commanders and staff.</p> <p>This system supports the Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> 2418 Continue development of IEWTPT 566 Target Signature Array (TSA) definition and continue integration of IEWTPT with WARSIM/WIM 369 Early user interface at Fort Huachuca for continuous user feedback. 847 Systems engineering and Security accreditation <p>Total 4200</p>											

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SYSTEMS DEVELOPMENT**

PROJECT

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<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA3, Appropriation NA0100, Training Devices, Nonsystem	77274	115866	74481	0	0	0	0	0	0	0
RDTE, PE 0604715, Project D241	51545	53139	30458	0	0	0	0	0	0	0

C. Acquisition Strategy:Competitive development based on performance specifications.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
IEWTPT CONTRACT AWARD			1Q	0	0	0	0	0
IEWTPT Milestone C				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)										June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT					PROJECT 361		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . IEWTPT EMD	C/CPIF/FFP	Motorola Inc., Scottsdale, AZ	0	0		2418	1Q	0	0	0	0	Continue
Subtotal:			0	0		2418		0		0	0	Continue
Remarks: This program transferred from PE 604715A, Project D241 in FY02.												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . IEWTPT Engineering Support	Multiple	Various	0	0		1187	1Q	0	0	0	0	Continue
Subtotal:			0	0		1187		0		0	0	Continue

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT					PROJECT 361		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . IEWTPT Development Test	Various	Multiple	0	0		180	1Q	0	0	0	0	Continue
Subtotal:			0	0		180		0		0	0	Continue
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . IEWTPT Program Management	Various	Multiple	0	0		415	1Q	0	0	0	0	Continue
Subtotal:			0	0		415		0		0	0	Continue
Project Total Cost:			0	0		4200		0		0	0	Continue

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT				PROJECT 362		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
362 WARFIGHTER SIMULATION	0	0	61964	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> This Project funds the engineering development of Warfighter Simulation (WARSIM), the Army's premier wargaming simulation for training leaders and battlestaffs at Division, Corps, and echelons above Corps. WARSIM will replace the current legacy systems Corps Battle Simulation (CBS), Tactical Simulation (TACSIM), and Combat Service Support/Tactical Simulation System (CSS/TSS). It also develops the Land component for the Joint Simulation System (JSIMS). WARSIM will provide functionality not currently available (digital operations, stability and support operations, information ops), link to unit organic C4I equipment, improve exercise generation and after-action reporting, and significantly reduce the number of role players required to support training exercises, thus reducing O&M costs. The FY02 funding supports the completion of software development for the initial Version Release for the Army.</p> <p>This system supports the Objective transition path of the Transformation Campaign Plan (TCP).</p> <p><u>FY 2002 Planned Program</u></p> <ul style="list-style-type: none"> 11442 Procure the balance of the equipment needed for the Operational Test Corps/Div suite for XVIII Abn Corps, Fort Bragg and the Bde/Bn suite for 101st Abn Div, Fort Campbell. 14332 Complete the software development, integration and release of WARSIM Version 1.0. 29880 Continue development of the software models for WARSIM Version 2.0. 4225 Initiate requirements analysis and definition of the functionality and begin software development of WARSIM Version 3.0. 2085 Perform Post Deployment Software Support. <p>Total 61964</p>										

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SYSTEMS DEVELOPMENT**

PROJECT

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<u>B. Other Program Funding Summary</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Compl</u>	<u>Total Cost</u>
RDTE,A 0604715A Non system Training Devices Engineering Development, D241	51545	53139	30458	0	0	0	0	0	0	0
RDTE,A 0604715A Non system Training Devices Engineering Development, D396	12318	19717	0	0	0	0	0	0	0	0
RDTE,A 0604715A, Project 24A, WARSIM, 3 YR FUNDS, P.L. 106246	5000	0	0	0	0	0	0	0	0	0
OPA3 Appropriation NA0100, Training Devices, Nonsystem	77274	115866	74481	0	0	0	0	0	0	0

This PE was established and funding transferred from PE 0604715A, D241 and D396. The OPA3 project funds the production and fielding of WARSIM world-wide.

C. Acquisition Strategy:Competitive development based on performance specifications.

<u>D. Schedule Profile</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Award WARSIM System Development Contract			1Q	0	0	0	0	0
Award WIM System Development Contract			1Q	0	0	0	0	0
Army Functional Assessments			1Q	0	0	0	0	0
Hardware Initial Production Decision			2Q	0	0	0	0	0
WARSIM/JSIMS Version 1.0 Release			2Q	0	0	0	0	0
WARSIM IOTE			3Q	0	0	0	0	0
Milestone C/System Materiel Release				0	0	0	0	0
*Dates indicated are completion dates				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604742A - CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT					PROJECT 362		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . WARSIM EMD	C/CPAF	Lockheed Martin Info Sys, Orlando FL	0	0		34544	1Q	0	0	0	0	Continue
b . WIM EMD	C/CPAF	MRJ Inc, Orlando FL	0	0		11127	1Q	0	0	0	0	Continue
c . WARSIM PDSS	C/CPAF	Lockheed Martin Info Sys, Orlando FL	0	0		2085	4Q	0	0	0	0	Continue
Subtotal:			0	0		47756		0		0	0	Continue
Remarks: FY02 WARSIM/WIM EMD values include procurement of IOTE test suites.												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Engineering & Tech Spt	C/CPFF	MITRE FFRDC	0	0		440	1Q	0	0	0	0	Continue
b . Data Mgt Repository	C/CPFF	Veridien, Orlando FL	0	0		316	1Q	0	0	0	0	0
c . Software Engineering	C/CPFF	AST, Orlando FL	0	0		1110	1Q	0	0	0	0	Continue
d . Functional Description of the Battlespace	Multiple	Various	0	0		4305	1Q	0	0	0	0	Continue
e . WARSIM IPT	Multiple	Various	0	0		2549	1Q	0	0	0	0	Continue

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II. Support Cost (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		8720		0		0	0	Continue
Subtotal:												
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Army Functional Assessments	Multiple	Various	0	0		1814	1Q	0	0	0	0	Continue
b . Verification, Validation and Accreditation	Multiple	Various	0	0		1614	1Q	0	0	0	0	Continue
Subtotal:			0	0		3428		0		0	0	Continue

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Management	Multiple	Various	0	0		1895	1Q	0	0	0	0	Continue
b . Cost Analysis Support	C/CPFF	Adv Sys Tech, Inc., Orlando FL	0	0		165	1Q	0	0	0	0	Continue
Subtotal:			0	0		2060		0		0	0	Continue
Project Total Cost:			0	0		61964		0		0	0	Continue