

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

February 2002

BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0303028A - Security and Intelligence Activities						PROJECT H13		
COST (In Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost	
H13 INFORMATION DOMINANCE CENTER (IDC) - TIARA	0	2434	5438	6018	5755	5814	5827	0	Continuing	

A. Mission Description and Budget Item Justification: Funds used for the development of a prototype for intelligence analysis and counter-intelligence operations supporting information operation missions. Denying, disrupting, and suppressing the adversary's information flow and his ability to effectively command and control his operations is the Army's goal of waging information-age warfare. The Information Dominance Center (IDC) is a beta development and demonstration facility, which uses advanced indigenously developed software and architectures for harvesting, visualizing, displaying, sharing, analyzing, fusing, and developing courses of action for commanders and decision makers in a real-time environment. The center can address both a tactical or strategic threat across a wide array of transnational and asymmetrical foes.

The IDC will play a critical role in Army's development of a full spectrum information operations capability that spans both the offensive and protective arenas. Key to waging an information war against an enemy will be gaining and maintaining full spectrum battlefield visualization, comprehension of enemy and friendly territory, knowledge of battlefield deception, Psychological Operations (PSYOP), public affairs, civil affairs, electronic warfare, Operations Security (OPSEC), and understanding the impact of critical nodes (regional and local). The IDC will support Force Protection/anti-terrorism operations by providing predictive analysis and warnings of attacks on our soldiers or infrastructure. The IDC also will be employed in support of peacekeeping and humanitarian aid missions. The IDC will demonstrate and test methodologies and tools, providing operational plans to fight asymmetric and asynchronous warfare against transnational and non-aligned threats. This new capability would provide the unique collaborative environment to rapidly acquire diverse information, dynamically achieve situational awareness, and provide tailored courses of action to warfighters and DA decision-makers.

The IDC will correlate data from local and international media as well as operational and intelligence sources. The center will perform evaluation, prototype and threat map political, military, economic, and social fabrics to aid in force protection/facilities protection for U.S. forces on the ground. The IDC will be the prototype for fused battlefield visualization showing the affects of air war at one location on a big screen display; collateral damage; infrastructure damage; location of paramilitary and military forces; and the dislocation of refugees and resultant humanitarian aid issues. The IDC will demonstrate a fused battlefield visualization picture of foreign and U.S. centers of gravity in support of contingency operations to help support diplomatic initiatives. It will prototype a fused, object oriented, GIS-oriented, visualization picture of the major political and economic players at international, national, regional, local levels on all selected regions. In addition, the IDC will leverage an ability to analyze a tactical view of the conflict enabling the Army to conduct offensive information operations (PSYOP, computer attack, deception and denial, media influence, cover operations) that could be used to compliment air strikes.

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H13**FY 2001 Accomplishments:**

Program not funded

FY 2002 Planned Program

- 434 Contractor will develop means of integrating leading edge technology into the Information Dominance Center's intelligence production and analysis capability.
- 2000 Contractor will develop means of integrating leading edge technology in the Expert Radar Signature Solution

Total 2434

FY 2003 Planned Program

- 438 Continue development of Software/Hardware development
- 5000 Technology development to meet validated operational requirements for quick reaction capability (QRC) computer network attack (CNA) weapons in support of Army Commanders.

Total 5438

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<u>B. Program Change Summary</u>	FY 2001	FY 2002	FY 2003
President's Previous Budget (FY 2002 PB)	0	452	451
Appropriated Value	0	2452	0
Adjustments to Appropriated Value	0	0	0
a. Congressional General Reductions	0	-18	0
b. SBIR / STTR	0	0	0
c. Omnibus or Other Above Threshold Reductions	0	0	0
d. Below Threshold Reprogramming	0	0	0
e. Rescissions	0	0	0
Adjustments to Budget Years Since FY2002 PB	0	0	4987
Current Budget Submit (FY 2003 PB)	0	2886	5438

FY02: Increase provides for Expert Radar Signature Solution

FY03: Increase provides Army a flexible, deployable, sustained, computer network attack (CNA) quick reaction capability (QRC).

<u>C. Other Program Funding Summary</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
Security and Investigative Activities, BA411128)	4200	0	0	0	0	0	0	0	6900

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D. Acquisition Strategy: The Army strategy is to add emerging command and control information technology to existing information and decision support architectures. Systems will largely be off-the-shelf procurements. A time and materials contract, awarded to Sterling Software, is used for software and hardware integration. A time and materials contract awarded to SYTEX, Inc. is used for development of intelligence modeling support.

<u>E. Schedule Profile</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>
Develop Information Visualization Capability							
C2 Development/Improvements							
Design extended IDC capability	1Q						
Develop software/hardware architecture	1Q						
Develop tailored database schema and ontology	3Q						
Conduct preliminary system tests	4Q						
Conduct field tests	4Q						

ARMY RDT&E COST ANALYSIS(R-3)

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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 . CNA Weapon Systems	TBD	TBD	0	0		2000		5000	1-4Q	Continue	Continue	Continue
b . Intel Production & Analy Capability	Various	Various	6684	0		434	1-4Q	438	1-4Q	Continue	Continue	Continue
Subtotal:			6684	0		2434		5438		Continue	Continue	Continue

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
Subtotal:			0	0		0		0		0	0	0

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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
			0	0		0		0		0	0	0
Subtotal:												

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
			0	0		0		0		0	0	0
Subtotal:												

Project Total Cost:			6684	0		2434		5438		Continue	Continue	Continue
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