

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

June 2001

<b>BUDGET ACTIVITY</b> 7 - OPERATIONAL SYSTEMS DEV			<b>PE NUMBER AND TITLE</b> 0303028A - INTEL SPT TO FORCE XXI						<b>PROJECT</b> H13	
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
H13 INFORMATION DOMINANCE CENTER (IDC) - TIARA	6684	0	452	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.

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 across organizations, 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 centers of gravity, knowledge of battlefield deception, Psychological Operations (PSYOP), public affairs, civil affairs, electronic warfare, Operations Security (OPSEC), and understanding of impact upon destruction or disruption of critical nodes (regional and local). The IDC will support Force Protection/anti-terrorism operations by providing predictive analysis and indications 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 Science and Technology tools that can provide 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 through advanced fusion and visualization techniques, 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 and prototyping of how threat mapping of political, military, economic, and social fabrics will aid in force protection/facilities protection for U.S. forces on the ground now or that might be sent in later. The IDC will be the prototype for fused battlefield visualization picture of the affects of air war at one location on a big screen display; collateral damage; infrastructure damage; location of paramilitary and military forces (Freedom fighters and Serbs); and 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 in Serbia and surrounding regions. In addition, the IDC will leverage an ability to analyze a tactical view of the conflict enabling Army to

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conduct offensive information operations (PSYOP, computer attack, deception and denial, media influence, cover operations) that could be used to compliment the air strikes.

## FY 2000 Accomplishments

- 2687 Core IDC Software/Hardware Integration Contractor Support: This is the key team for integration and prototyping of leading edge technologies into the IDC. In addition, this team prior to integration will perform continuous prototyping of novel solutions. They are fundamentally responsible for overall architectural control and evolution of the composable architecture, which is the foundation for the Land Information warfare Act's (LIWA) operational uniqueness.
- 3997 TUAV Source Selection/System Capabilities Demo Data Storage and Support: This money enables a state of the art 200 Terabyte storage, retrieval, backup and querying capability for a distributed architecture. The IDC is based on a database centric paradigm enabling state of the art business enterprise applications to be incorporated.

Total 6684

## FY 2001 Planned Program

Program not funded

## FY 2002 Planned Program

- 450 Contractor will continue to develop means of integrating leading edge technology into the Information Dominance Center's intelligence production and analysis capability.

Total 450

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<b><u>B. Program Change Summary</u></b>	FY 2000	FY 2001	FY 2002	FY 2003
President's Previous Budget (FY 2001 PB)	6866	0	0	0
Appropriated Value	7000	0	452	0
Adjustments to Appropriated Value	0	0	0	0
a. Congressional General Reductions	0	0	0	0
b. SBIR / STTR	-184	0	0	0
c. Omnibus or Other Above Threshold Reductions	0	0	0	0
d. Below Threshold Reprogramming	0	0	0	0
e. Rescissions	-132	0	0	0
Adjustments to Budget Years Since FY2001 PB	0	0	0	0
Current Budget Submit (FY 2002/2003 PB )	6684	0	452	0

<b><u>C. Other Program Funding Summary</u></b>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
Security and Investigative Activities, BA411128)	2700	4200	0	0	0	0	0	0	0	0

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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.

<b>E. Schedule Profile</b>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Develop Establish Data warehousing/Data mining capability	1Q-4Q			0	0	0	0	0
Develop Establish Conectivity/Collaboration Capability	1Q-4Q			0	0	0	0	0
Develop Information Visualization Capability	1Q-4Q			0	0	0	0	0
C2 Development/Improvements	1Q-4Q			0	0	0	0	0
Design extended IDC capability		1Q		0	0	0	0	0
Develop software/hardware architecture		1Q	1Q-4Q	0	0	0	0	0
Integrate extended capability with current systems		2Q-3Q		0	0	0	0	0
Develop tailored database schema and ontology		3Q		0	0	0	0	0
Conduct preliminary system tests		4Q		0	0	0	0	0
Conduct field tests		4Q		0	0	0	0	0