

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 2000
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BUDGET ACTIVITY 6 - Management and Support	PE NUMBER AND TITLE 0605326A Concept Experimentation Program
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COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	16954	20785	15410	91943	60295	67147	54192	Continuing	Continuing
D308 Concept Experimentation Program	13583	18823	8931	9373	9340	9315	9291	Continuing	Continuing
D309 Digital Information Technology Testbed	3371	1962	0	0	0	0	0	0	5333
D312 Force XXI Experimentation	0	0	6479	82570	50955	57832	44901	Continuing	Continuing

A. Mission Description and Justification: The Concept Experimentation Program (project 308) enables the U.S. Army Training and Doctrine Command (TRADOC) battle labs and schools to evaluate emerging technologies and other equipment to help define Army mission needs and operational requirements. Projects selected for funding are relatively low cost conceptual evaluations, with high potential for warfighting return on investment. The program provides direct support to Battle Lab Warfighting Experiments (BLWE). The program is also a first look at emerging technologies that have the potential to support the Army's Force XXI design needs. The Digital Information Technology Testbed (project 309), is a functional test bed and model for the DOD and Federal Government to test and integrate new digital technologies for collecting, disseminating and managing information globally. It is also operational multimedia records (management and archives) that enable DOD to meet its Title 10 responsibilities under the Goldwater-Nichols Act through collecting, managing and disseminating information worldwide to achieve knowledge dominance. Force XXI Experimentation (project 312) funds the Army Experimentation Campaign Plan (AECPP) in support of transforming the analog Army into a digital Army.

B. Program Change Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 2000/2001 PB)	13948	16990	73006
Appropriated Value	14041	20990	
Adjustments to Appropriated Value			
a. Congressional General Reductions	-93		
b. SBIR / STTR	-370		
c. Omnibus or Other Above Threshold Reductions		-86	
d. Below Threshold Reprogramming	3432		
e. Rescissions	-56	-119	
Adjustments to Budget Years Since FY 2000/2001 PB			-57596
Current Budget Submit (FY 2001 PB)	16954	20785	15410

Change Summary Explanation: FY 2001 – Reprogrammed from Project 308 to OMA PE 122018 for Army Experimentation Campaign Plan (AECPP) requirements.

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COST (<i>In Thousands</i>)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D308 Concept Experimentation Program	13583	18823	8931	9373	9340	9315	9291	Continuing	Continuing

Mission Description and Justification: The Concept Experimentation Program (CEP) is a key innovative tool which provides TRADOC battle labs and schools the ability to capitalize on emerging technologies, emerging warfighting concepts, and new materiel initiatives. Program growth reflects increased emphasis on Force XXI initiatives and accelerated acquisition methods. Funds are used to acquire, lease or fabricate equipment to conduct experiments to determine military utility or potential to satisfy Army Doctrine, Training, Leader Development, Organization, Materiel and Soldiers (DTLOMS) needs. TRADOC battle labs build on initiatives with greatest potential payoff. Program is also used as a first look at emerging technologies and emerging warfighting concepts that have the potential to support the Army's Force XXI design needs. As the Army moves toward Force XXI, the critical task of designing the force around information requires major investment in information-age capabilities. Constructive, virtual, and live simulations are used to examine warfighting concepts across DTLOMS domains. They cover all aspects of command and control, lethality, survivability, and tempo and are essential to technology insertion in future Army systems and force structure.

FY 1999 Accomplishments:

- 350 Future Fires Command and Control
- 129 Real time Tactical Video Link
- 97 Helmet Mounted Sniper Detection System
- 136 Own the Night Technologies
- 491 Beyond Line of Sight Communications Support for Aviation and Maneuver Support
- 178 Battle Command Vehicle
- 225 Semi-Autonomous Reconnaissance Operations for Mounted Maneuver II
- 200 Rotocraft Pilots Associate (RPA) Interrogation into Army after Next Platforms
- 437 Weather/Terrain Assessment Tool
- 235 Space Technology to Enhance Information Dominance on the Move
- 56 Configured Load Unit Building
- 248 Manned and Unmanned Aerial Platforms
- 132 Warfighters Information Network (WIN) Space-Based Collection and Reporting
- 500 System Linkages (Force XXI/AECP)
- 672 After Action Reporting Capability (Force XXI/AECP)
- 100 Digital Force Coordination Cell (Force XXI/AECP)
- 3500 Communications Linkages (Force XXI/AECP)
- 120 System Architecture for Joint Contingency Force AWE (Force XXI/AECP)

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FY 1999 Accomplishments: (continued)		
•	118 Network for Tactical Operations Center Radios (Force XXI/AECP)	
•	5409 Tactical Operations Centers/Enroute Mission Planning and Rehearsal Tool (TOC/EMPRS) (Force XXI/AECP)	
•	250 Army Experiment 6	
Total	13583	
FY 2000 Planned Program:		
•	5327 Concept experimentation to be determined by CEP Schedule and Review Committee.	
•	1909 Experimentation at the Mounted Maneuver Battle Lab (MMBL)	
•	677 Battle Command Reengineering CEP	
•	323 Air and Missile Defense Maneuver Operations CEP	
•	133 Military Police/Engineer Urban Robot CEP	
•	336 AECP – System Linkages – CCTT (Division Capstone Exercise)	
•	553 AECP – System Linkages (Division Capstone Exercise)	
•	2125 AECP – C4I AAR Integration (Division Capstone Exercise)	
•	405 AECP - Operational Architecture/Digital Command Post Support (Joint Contingency Force Advanced Warfighting Experiment)	
•	1200 AECP – Data Collection (Joint Contingency Force Advanced Warfighting Experiment)	
•	5078 AECP - Enroute Mission Planning and Rehearsal System (EMPRS) (Joint Contingency Force Advanced Warfighting Experiment)	
•	250 Army Experiment 7 (AE7)	
•	507 Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) Program	
Total	18823	
FY 2001 Planned Program:		
•	8931 Concept experimentation to be determined by Sep 00 CEP Schedule and Review Committee.	
Total	8931	

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BUDGET ACTIVITY 6 - Management and Support				PE NUMBER AND TITLE 0605326A Concept Experimentation Program				PROJECT D309	
<i>COST (In Thousands)</i>	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D309 Digital Information Technology Testbed	3371	1962	0	0	0	0	0	0	5333
<p><u>Mission Description and Justification:</u> The DoD Information Technology Testbed (DITT) is a functional concept exploration, testbed and prototyping program established under charter by the Assistant Secretary of Defense for Command, Control, Communications and Intelligence (ASD C3I) to develop innovative, enterprise wide solutions to information, document, record and knowledge management. The DITT, located at Ft. Leavenworth, KS, develops methodologies to share and utilize information across organizations at the DOD level, develops solutions for emerging issues/problems and prototypes massive archive systems to house and access multimedia databases that can be used to support both Army and Joint operations. The DITT system will be used to conduct operational testing of COTS/GOTS software/hardware IAW the DOD Electronic Document and Record Management (EDRM) Strategic Plan and will perform limited conformance testing of software products against various information management standards for the IEEE.</p> <p>FY 1999 Accomplishments:</p> <ul style="list-style-type: none"> • 190 Multimedia Research Library System – System Test • 225 Multimedia Research Library System – Video Prototype • 2956 Multimedia Research Library System – Baseline Operational System <p>Total 3371</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 535 Operational Software Testing (RMA solutions, document management, workflow) (Base) • 785 Operational Hardware Testing (Hierarchical Storage, Multimedia Capture Systems) (Base) • 225 Digital Library Community of Interest (COI) Integration/Prototype (Phase 1) • 240 Medical Community of Interest (COI) Integration/Prototype (Phase 1) • 124 Multimedia Archive Analyst System (Phase 2) • 53 Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) Program <p>Total 1962</p> <p>FY 2001 Planned Program: Project not funded in FY 2001</p>									
Project D309			<i>Page 4 of 5 Pages</i>			Exhibit R-2A (PE 0605326A)			

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BUDGET ACTIVITY 6 - Management and Support				PE NUMBER AND TITLE 0605326A Concept Experimentation Program				PROJECT D312	
COST (In Thousands)	FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D312 Force XXI Experimentation	0	0	6479	82570	50955	57832	44901	Continuing	Continuing
<p>Mission Description and Justification: The Army Experimentation Campaign Plan (AECPP) mission is to experiment with forces enabled with information based command and control, advances in training and leader development, technology enhancements, and joint interoperability to realize improvements in warfighting capability and strategic responsiveness. The objective of experimentation is to increase our Army's strategic responsiveness for an expanded range of missions while preserving our core capability of warfighting. FY01 funds are to be divided amongst the experimental axes: Heavy, Light, and Strike Force. Operational guidelines require new concepts to meet national strategy and anticipate emerging threats; increase interoperability; maintain doctrine, training, leader development, organization, materiel, and soldiers change in balance; and concepts will be subject to rigorous analysis and experimentation to inform senior army leadership decisions. Initiatives include developing system of systems linkages; exploring and developing new training support packages, digital AAR capabilities, system engineering and architecture development, and simulation/stimulation architecture and engineering development.</p> <p>FY 1999 Accomplishments: Funded in Project D308</p> <p>FY 2000 Planned Program: Funded in Project D308</p> <p>FY 2001 Planned Program:</p> <ul style="list-style-type: none"> • 6479 Force XXI Experimentation / Advanced Warfighting Experiments per the Army Experimentation Campaign Plan (AECPP) Funding Integrated Processing Team priorities. <p>Total 6479</p>									