

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

June 2001

BUDGET ACTIVITY

**3 - ADV TECHNOLOGY DEV**

PE NUMBER AND TITLE

**0603007A - Manpower, Personnel and Training Advanced  
Tech**

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	4887	7008	3120	0	0	0	0	0	0	0
792 PERSONNEL PERFORMANCE & TRAINING	4887	5026	3120	0	0	0	0	0	0	0
79A ARMY TRAINING SUPPORT CENTER	0	1982	0	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.**

The objective of this program element (PE) is to develop and demonstrate advanced soldier-oriented technologies to enhance soldier and unit performance in the Army's transformation to the Objective Force. A key goal of this program is the reduction of training and other personnel costs through the development of effective training strategies that incorporate appropriate mixes of live, virtual, and constructive simulations. Research and development (R&D) efforts include designing new ways to efficiently develop collective training; developing and demonstrating prototype training methods and programs that improve mission performance; devising training strategies using distributed training technology to conduct multi-site training, assessment, and feedback; and evaluating the effectiveness of compressed gunnery training strategies for the Reserve Component. R&D will also design innovative methods and technologies to develop effective leaders for small team operations and for developing Battle Commanders for the digitized battlefield. Work in this program element is consistent with the Army Science and Technology Master Plan, the Army Modernization Plan, and Project Reliance. This PE is managed by the U.S. Army Research Institute (ARI) for the Behavioral and Social Sciences. This program supports the Objective Force transition path of the Transformation Campaign Plan(TCP).

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<u><b>B. Program Change Summary</b></u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	4981	3072	3115	0
Appropriated Value	5030	7072	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	0	0	
b. SBIR / STTR	-94	0	0	
c. Omnibus or Other Above Threshold Reductions	-14	0	0	
d. Below Threshold Reprogramming	0	0	0	
e. Rescissions	-35	-64	0	
Adjustments to Budget Years Since FY2001 PB	0	0	5	
Current Budget Submit (FY 2002/2003 PB )	4887	7008	3120	0

Change Summary Explanation: Funding - FY 2001 Congressional adds were received for Aircrew Coordination Training (+2000) and Assistance to Army Training Support Center/Learning Systems Institute for development and evaluation of reusable educational software packages(+2000).

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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
792      PERSONNEL PERFORMANCE & TRAINING	4887	5026	3120	0	0	0	0	0	0	0
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> The objective of this program element(PE) is to develop and demonstrate advanced soldier-oriented technologies to enhance soldier and unit performance in the Army's transformation to the Objective Force. A key goal of this program is the reduction of training and other personnel costs through the development of effective training strategies that incorporate appropriate mixes of live, virtual, and constructive simulations. Research and development (R&amp;D) efforts include designing new ways to efficiently develop collective training; developing and demonstrating prototype training methods and programs that improve mission performance; devising training strategies using distributed training technology to conduct multi-site training, assessment, and feedback; and evaluating the effectiveness of compressed gunnery training strategies for the Reserve Component. R&amp;D will also design innovative methods and technologies to develop effective leaders for small team operations and for developing Battle Commanders for the digitized battlefield. Work in this program element is consistent with the Army Science and Technology Master Plan, the Army Modernization Plan, and Project Reliance. This PE is managed by the U.S. Army Research Institute (ARI) for the Behavioral and Social Sciences. This program supports the Objective Force transition path of the Transformation Campaign Plan (TCP).</p> <p><b><u>FY 2000 Accomplishments</u></b></p> <ul style="list-style-type: none"> <li>•      4887      - Developed refined performance assessment tools for Force XXI unit training in the Close Combat Tactical Trainer (CCTT) and other simulation environments.</li> <li>                 - Developed Laser Marksmanship Training System (LMTS) tool for predicting Army Reserve soldier rifle marksmanship qualification, for U.S. Army Reserve Command (USARC) use in reducing live-fire time and ammunition needed for qualification purposes..</li> <li>                 - Tested synchronous distributed training of complex cognitive skills and observed 35% improvement over current training methods.</li> <li>                 - Designed prototype Special Forces recruiting strategies and adaptability assessment tools that enhanced the SF assessment and development process.</li> <li>                 - Assessed the Army's current command climate and identified to senior leadership issues of concern to soldiers.</li> <li>                 - Based on a one-year Congressional add for Aircrew Coordination Training, initiated development and demonstration of prototype crew coordination training program.</li> </ul> <p>Total    4887</p>										

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PROJECT

**792****FY 2001 Planned Program**

- 2933 - Develop and demonstrate new training and performance assessment technologies that prepare operators and commanders to take advantage of evolving digital systems.
  - Conduct annual assessment of Army command climate, identifying trends and new issues of concern to soldiers.
  - Test Internet delivery of collaborative learning versus platform instruction.
  - Develop preliminary guidelines for use by the U.S. Army Intelligence School to train cognitive skills and declarative/factual knowledge using distributed learning technologies.
- 1989 - The objective of this one-year Congressional add is to complete development and demonstration of an aircrew coordination training program.
- 104 - Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs.

Total 5026

**FY 2002 Planned Program**

- 3120 - Plan the computer automation of certain instructor functions in collaborative learning environments.
  - Evaluate the training of digital procedures for soldiers through distributed learning over the Internet.
  - Conduct annual assessment of Army command climate and trends over time, and identify new issues of concern to soldiers.
  - Determine training requirements for mounted units as part of contingency force operations.
  - Identify the training/coaching strategies and mentoring processes effective leaders use to develop individuals in team contexts.
  - Determine impact of increasing training demands (PERSTEMPO) on Reserve Component (RC) turbulence and attrition.

Total 3120