

Exhibit R-2, RDT&E Budget Item Justification

Date: February
2008

Appropriation/Budget Activity						R-1 Item Nomenclature: Distributed Learning Advanced Technology Development, 0603769SE		
RDT&E, Defense-wide BA 3								
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Total PE Cost	17.750	13.197	13.538	14.014	14.329	13.972	13.873	
Project 1: Advanced Distributed Learning	17.750	13.197	13.538	14.014	14.329	13.972	13.873	

A. Mission Description and Budget Item Justification: The Department of Defense Human Resources Activity (DHRA) is a DoD-wide Field Activity chartered to support the Under Secretary of Defense for Personnel and Readiness (USD (P&R)).

Advanced Distributed Learning (ADL): This program develops the underlying technologies to make learning and performance support available to service members, anytime, anywhere. The ADL concept enables the ability to migrate online learning content to multiple hardware and software applications using the Sharable Content Object Reference Model (SCORM) standard. It has become the de facto standard and is moving through International Organization of Standards for global accreditation; it is the declared standard within the Department of Defense. The program continues to develop US and international partnerships with public education, vocational training, and life-long learning programs. Policy oversight is managed by the Office of the Deputy Under Secretary of Defense/Readiness (Readiness and Training Policy and Programs). Recent work has established a single registry where all online learning content developed by the Department can be discovered for reuse. In FY 2008, tools to automate content registration will be accomplished and advanced technologies for Joint Individual Augmentee Training will be tested. In FY 2009, specifications and models to link online training and education to relevant multiplayer online games will be accomplished.

B. Program Change Summary:

	FY <u>2007</u>	FY <u>2008</u>	FY <u>2009</u>	FY <u>2010</u>
Previous President's Budget	14.918	14.604	14.959	14.134
Current BER/President's Budget	17.750	13.197	13.538	14.014
Total Adjustments	+2.832	-1.407	-1.421	-0.120
Congressional Adjustments	+2.900	0	0	
Program Adjustments	-0.068	-1.407	-1.421	-0.120

Change Summary Explanation: Program adjustments increase ADL program funding in FY 2007.

C. Other Program Funding Summary: Not Applicable

D. Acquisition Strategy: Not Required

E. Performance Metrics: By FY 2008, 700 online courses will conform to a SCORM format. By FY 2009, 1,000 online courses will be SCORM-conformant. Each course comprises a sequence of learning objects (also known as content packages). By FY 2008, a minimum of 10,000 online learning objects will be registered in the ADL Registry; by FY 2009, 50,000; and by FY 2010, 150,000 learning objects will be registered. By the end of FY2008, an external stewardship organization will take over the maintenance of the SCORM technology, patterned after the transition of the ARPAnet to the Internet.

Exhibit R-2a, RDT&E Project Justification (Project)

Date: February 2008

Appropriation/Budget Activity
RDT&E, Defense-wide BA 3

Project Name and Number –
Advanced Distributed Learning (ADL), Project 1

Cost (\$ in million)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project 1:ADL	17.750	13.197	13.538	14.014	14.329	13.972	13.873
RDT&E Articles Quantity N/A							

A. Mission Description and Budget Item Justification: This program develops the underlying technologies to make learning and performance support available to service members, anytime, anywhere. The ADL concept supports the ability to migrate online learning content to multiple hardware and software applications using the Sharable Content Object Reference Model (SCORM) standard developed earlier. It has become the *de facto* standard and is moving through International Organization of Standards for global accreditation; it is the declared standard within the Department of Defense. The program continues to develop US and international partnerships with public education, vocational training, and life-long learning programs. Policy oversight is managed by the Office of the Deputy Under Secretary of Defense/Readiness (Readiness and Training Policy and Programs). Recent work has established a single registry where all online learning content developed by the Department can be discovered for reuse; it is maintained by the Defense Technical Information Center. In FY 2008, tools to automate content registration will be accomplished and advanced technologies for Joint Individual Augmentee Training will be tested. In FY 2009, specifications and models to link online training and education to relevant multiplayer online games will be accomplished.

B. Accomplishments/Planned Program:

Accomplishment/ Effort/Subtotal Cost	FY 2007	FY 2008	FY 2009	FY 2010
RDT&E Articles Quantity – N/A	17.750	13.197	13.538	14.014

- Issued DoD Instruction 1322.26 which mandates the use of ADL specifications across the Department of Defense
- Established an operational ADL-Registry at the Defense Technical Information Center
- Completion of the SCORM 2004 interoperability standard 3rd edition, which is being adopted globally; 234 products have been formally certified; technical workshops are provided throughout the year
- Convened a “Plugfest” for interoperability testing at Tamkang University in Taiwan. More than 300 individuals/organizations attended
- Convened an annual "Implementation Fest" for the military services and vendors in using SCORM, attended by 400
- Published research articles in leading professional journals on the effectiveness of online learning compared to classroom training
- Developed and tested specialized advanced instructional methods for training Joint Individual Augmentees at the Joint Forces Command.

C. Other Program Funding Summary: not applicable

D. Acquisition Strategy: not required

E. Major Performers:

FY 2007 – Concurrent Technologies Corporation, Johnstown, PA; Institute for Defense Analyses, Alexandria, VA; Joint ADL Co-Lab, Orlando, FL; Alion Science and Technology, Newport News, VA; University of Wisconsin, Madison, WI

FY2008 – FY2009 Concurrent Technologies Corporation, Johnstown, PA; Institute for Defense Analyses, Alexandria, VA; Joint ADL Co-Lab, Orlando, FL; Windwalker Corporation, McLean, VA; Information Experts, Inc (8-a firm) Reston, VA; University of Memphis, Memphis, TN