

UNCLASSIFIED  
Fiscal Year 2007 Budget Estimates  
Department of Defense Human Resources Activity  
RDT&E Descriptive Summaries  
FEBRUARY 2006

Exhibit R-2, RDT&E Budget Item Justification					Date: February 2006		
Appropriation/Budget Activity RDT&E, Defense-wide BA 3			R-1 Item Nomenclature: Distributed Learning Advanced Technology Development, 0603769SE				
Cost (\$ in millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	15.990	16.574	14.918	14.604	14.959	15.338	15.726
Project 1: Advanced Distributed Learning (ADL)	15.990	16.574	14.918	14.604	14.959	15.338	15.726
<b>A. Mission Description and Budget Item Justification:</b> 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)).							
<u>Advanced Distributed Learning (ADL):</u> 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. It is becoming the <i>de facto</i> standard across the public and private sectors as well as the Department of Defense and other nations. The program continues to develop partnerships with public education, workforce 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 is directed at a Content Object Repository Discovery and Registration Architecture (CORDRA), establishing 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 2007, the capability to centrally register and discover learning content will be completed with CORDRA. In FY 2008, a capability to link individual training to exercise schedules at U.S. Northern Command will be completed.							

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<p><b>B. Program Change Summary:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;"></th> <th style="width: 15%; text-align: center;"><u>FY 2005</u></th> <th style="width: 15%; text-align: center;"><u>FY 2006</u></th> <th style="width: 15%; text-align: center;"><u>FY 2007</u></th> </tr> </thead> <tbody> <tr> <td>Previous Budget Estimate</td> <td style="text-align: center;">15.990</td> <td style="text-align: center;">14.689</td> <td style="text-align: center;">14.710</td> </tr> <tr> <td>Current Budget Estimate</td> <td style="text-align: center;">15.990</td> <td style="text-align: center;">16.574</td> <td style="text-align: center;">14.918</td> </tr> <tr> <td> Total Adjustments</td> <td style="text-align: center;"> 0</td> <td style="text-align: center;"> +1.885</td> <td style="text-align: center;"> +0.208</td> </tr> <tr> <td>    Congressional Adjustments</td> <td style="text-align: center;">0</td> <td style="text-align: center;">+2.125</td> <td style="text-align: center;">0</td> </tr> <tr> <td>    Program Adjustments</td> <td style="text-align: center;">0</td> <td style="text-align: center;">-0.240</td> <td style="text-align: center;">+0.208</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Change Summary Explanation: FY 2006 reflects Congressional adjustments of \$2.125 million, offset by reductions of \$0.240. Program reductions consist of the Defense-Wide 1% pro-rata rescission (-\$0.167 million) and Section 8125 Economic Assumptions (-0.075 million). Program adjustments increase the ADL program funding by \$0.208 million in FY 2007.</p> <p><b>C. Other Program Funding Summary:</b> not applicable</p> <p><b>D. Acquisition Strategy:</b> not required</p> <p><b>E. Performance Metrics:</b> By FY 2006, 1,000 courses (legacy online and CD ROM) will be cataloged in the ADL Registry and one major adoption by a public education consortium will be completed. By FY 2007, 400 online courses will conform to a SCORM format. By FY 2008, 750 online courses will be SCORM-conformant and registered. Each course comprises a sequence of learning objects.</p>				<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	Previous Budget Estimate	15.990	14.689	14.710	Current Budget Estimate	15.990	16.574	14.918	 Total Adjustments	 0	 +1.885	 +0.208	Congressional Adjustments	0	+2.125	0	Program Adjustments	0	-0.240	+0.208
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Exhibit R-2a, RDT&E Project Justification (Project)					Date: February 2006		
Appropriation/Budget Activity RDT&E, Defense-wide BA 3			Project Name and Number - Advanced Distributed Learning (ADL), Project 1				
Cost (\$ in millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project 1: ADL	15.990	16.574	14.918	14.604	14.959	15.338	15.726
RDT&E Articles Quantity - N/A							
<p><b>A. Mission Description and Budget Item Justification:</b> 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. It is becoming the <i>de facto</i> standard across the public and private sectors. The program continues to develop partnerships with public education, such as the Southern Regional Education Board in 16 states, workforce 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 is directed at a Content Object Repository Discovery and Registration Architecture (CORDRA), establishing 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 2007, the capability to centrally register and discover learning content will be completed with CORDRA. In FY 2008, a capability to link individual training to exercise schedules at U.S. Northern Command will be completed.</p>							
<p><b>B. Accomplishments/Planned Program:</b></p>							
	FY 2005		FY 2006		FY 2007		
Accomplishment/ Effort/Subtotal Cost	15.990		16.574		14.918		
RDT&E Articles Quantity - N/A							

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FY 2005		
<ul style="list-style-type: none"><li>• Completed SCORM 2004 interoperability standard, which is being adopted globally, formally certified 150 products, provided workshops throughout year</li><li>• Convened a "Plugfest" for interoperability testing at the National Institute for Standards and Technology, attended by more than 300</li><li>• Convened an "Implementation Fest" for the military services and vendors in using SCORM, attended by 400</li><li>• Facilitated application of ADL as a technology enabler for training transformation, with more than 40 courses developed for the joint warfighter</li></ul>		
FY 2006 and FY 2007		
<ul style="list-style-type: none"><li>• Complete minor revisions to SCORM 2004 to enhance interoperability and global adoption</li><li>• Conduct technical working group meetings, workshops, "Plugfests" and "Implementation Fests" to encourage SCORM adoption</li><li>• Extend SCORM to immersive learning environments in homeland defense in partnership with the US Northern Command</li><li>• Extend SCORM to technical specification S1000D for technical publications</li><li>• Establish specifications/standards for content object repositories and design a singular ADL registry</li><li>• Develop specification for Repository Application Programming Interface (API) and Concept of Operation for JKDDC Portal Repository including Business Rules, Software Programming Package of Source Code and Final Report Documentation</li><li>• Revise specification for JKDDC Portal Application Programming Interface (API)</li><li>• Revise Concept of Operation for JKDDC Portal Repository including Business Rules and Computer Software Package including Source Code and Final Report Document</li></ul>		

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<p><b>C. Other Program Funding Summary:</b> not applicable</p> <p><b>D. Acquisition Strategy:</b> not required</p> <p><b>E. Major Performers:</b> FY 2005 Concurrent Technologies Corporation, Johnstown, PA, - SCORM 2004 conformance test suite; Institute for Defense Analyses, Alexandria, VA, ADL Common Framework - guide the collaborative development; Joint ADL Co-Lab, Orlando, FL - prototype program and implementation in Services; University of Wisconsin, Madison, WI; University of Tulsa, Tulsa, OK. Carnegie Mellon University.</p> <p>FY 2006 - 2008 Concurrent Technologies Corporation, Johnstown, PA; Institute for Defense Analyses, Alexandria, VA; Joint ADL Co-Lab, Orlando, FL; Carnegie Mellon University, Pittsburgh, PA; University of Wisconsin, Madison, WI; Science Applications International Corporation, San Diego, CA</p>		