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**Exhibit R-2, PB 2010 DoD Human Resources Activity RDT&E Budget Item Justification** **DATE:** May 2009

<b>APPROPRIATION/BUDGET ACTIVITY</b>					<b>R-1 ITEM NOMENCLATURE</b>					
0400 - Research, Development, Test & Evaluation, Defense-Wide/BA 3 - Advanced Technology Development (ATD)					PE 0603769SE Distributed Learning Advanced Technology Development (ADL)					
<b>COST (\$ in Millions)</b>	<b>FY 2008 Actual</b>	<b>FY 2009 Estimate</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	13.197	13.501	13.822						Continuing	Continuing
Project 1: Advanced Distributed Learning	13.197	13.501	13.822						Continuing	Continuing

**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 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; its use is mandatory throughout the Department of Defense through (DoD Instruction 1322.26). 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 2009, specifications and models to link online training and education to relevant multiplayer online games will be accomplished. A fourth addition of SCORM was released in May 2009. In FY2010, guidelines for integrating technical manuals to SCORM will be published and a strategic plan will be in place to incorporate advances from social networking and other "Web 2.0" technologies into the ADL framework.

**B. Program Change Summary (\$ in Millions)**

	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>
Previous President's Budget	14.604	14.959	14.134	
Current BES/President's Budget	13.197	13.501	13.822	
Total Adjustments	-1.407	-1.458	-0.312	
Congressional Program Reductions	0.000	0.000		
Congressional Rescissions	0.000	0.000		
Total Congressional Increases	0.000	0.000		
Total Reprogrammings	0.000	0.000		
SBIR/STTR Transfer	0.000	0.000		

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<b>Exhibit R-2a, PB 2010 DoD Human Resources Activity RDT&amp;E Project Justification</b>									<b>DATE:</b> May 2009	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400 - Research, Development, Test & Evaluation, Defense-Wide/BA 3 - Advanced Technology Development (ATD)				<b>R-1 ITEM NOMENCLATURE</b> PE 0603769SE Distributed Learning Advanced Technology Development (ADL)					<b>PROJECT NUMBER</b> Project 1	
<b>COST (\$ in Millions)</b>	<b>FY 2008 Actual</b>	<b>FY 2009 Estimate</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Project 1: Advanced Distributed Learning	13.197	13.501	13.822						Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This program develops the 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 (\$ in Millions)**

	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>
Advanced Distributed Learning	13.197	13.501	13.822	
<p><i>FY 2008 Accomplishments:</i></p> <ul style="list-style-type: none"> <li>• Issued DoD Instruction 1322.26 which mandates the use of ADL specifications across the Department of Defense</li> <li>• Established an operational ADL-Registry at the Defense Technical Information Center</li> <li>• 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</li> <li>• Convened a "Plugfest" for interoperability testing at Tamkang University in Taiwan. More than 300 individuals/organizations attended</li> <li>• Convened an annual "Implementation Fest" for the military services and vendors in using SCORM, attended by 400</li> <li>• Published research articles in leading professional journals on the effectiveness of online learning compared to classroom training</li> </ul>				

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<b>B. Accomplishments/Planned Program (\$ in Millions)</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>
<ul style="list-style-type: none"> <li>• Developed and tested specialized advanced instructional methods for training Joint Individual Augmentees at the Joint Forces Command.</li> <li>• Added critical features to SCORM 2004, resulting in the release of the 4th edition documents.</li> </ul>				
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A				
<b>D. Acquisition Strategy</b> Not Required.				
<b>E. Performance Metrics</b> By FY2009, 900 online courses will conform to a SCORM format. By FY2011, 1,400 online courses will be SCORM-conformant. Each course comprises a sequence of learning objects (also known as content packages). By FY2009, a minimum of 15,000 online learning objects will be registered in the ADL Registry; by FY2010, 60,000; and by FY2011, 175,000 learning objects will be registered. Published reports will demonstrate a reduction in time to train of 35% or greater using ADL technologies in comparison to a comparable classroom course.				

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