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**Exhibit R-2, RDT&E Budget Item Justification: PB 2011 DoD Human Resources Activity** **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603769SE: <i>Distributed Learning Advanced Technology Development (ADL)</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	13.323	13.765	13.986	0.000	13.986	13.592	13.470	13.425	13.384	Continuing	Continuing
Project 1: <i>Advanced Distributed Learning</i>	13.323	13.765	13.986	0.000	13.986	13.592	13.470	13.425	13.384	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 bodies 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. A fourth edition 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.

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

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	13.538	14.014	0.000	0.000	0.000
Current President's Budget	13.323	13.765	13.986	0.000	13.986
Total Adjustments	-0.215	-0.249	13.986	0.000	13.986
• Congressional General Reductions		-0.249			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.215	0.000			
• Advanced Distributed Learning	0.000	0.000	13.986	0.000	13.986

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**Exhibit R-2A, RDT&E Project Justification:** PB 2011 DoD Human Resources Activity **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>				<b>PROJECT</b>			
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				PE 0603769SE: <i>Distributed Learning</i> <i>Advanced Technology Development (ADL)</i>				Project 1: <i>Advanced Distributed Learning</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total 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: <i>Advanced Distributed Learning</i>	13.323	13.765	13.986	0.000	13.986	13.592	13.470	13.425	13.384	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 bodies 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). A fourth edition of SCORM was issued 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. In FY2011, virtual-world technologies will be incorporated through collaboration with industry and academia.

**B. Accomplishments/Planned Program (\$ in Millions)**

	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
Advanced Distributed Learning	13.323	13.765	13.986	0.000	13.986
Advanced Distributed Learning  <i>FY 2009 Accomplishments:</i> <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</li> <li>• Completion of the SCORM 2004 interoperability standard 4th edition, which is being adopted globally; more than 300 products have been formally certified; technical workshops are provided throughout the year</li> </ul>					

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<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A		
<b>D. Acquisition Strategy</b> Not Required.		
<b>E. Performance Metrics</b> By FY 2010, 2,500 online courses will conform to a SCORM format. By FY 2011, 4,000 online courses will be SCORM-conformant. Each course comprises a sequence of learning objects (also known as content packages). By FY 2010, a minimum of 10,000 online learning objects will be registered in the ADL Registry; by FY 2011, 50,000; and by FY 2012, 100,000 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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