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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Office of the Secretary Of Defense **Date:** April 2022

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603769D8Z I <i>Advanced Distributed Learning</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	56.842	6.588	6.056	0.201	-	0.201	0.213	0.223	0.227	0.232	-	-
<i>776: Advance Distributed Learning (ADL)</i>	56.842	6.588	6.056	0.201	-	0.201	0.213	0.223	0.227	0.232	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

New Start (Y/N): No

Based on a Memorandum of Agreement between OUSD(P&R) and DHRA, the Advanced Distributed Learning (ADL) program is transferred to DHRA for oversight responsibilities from P&R to DHRA. This agreement transfers funds encompassing Operation and Maintenance (O&M), Defense-Wide and Research, Development, Test and Evaluation (RDT&E) appropriations. No civilian or military authorization will transfer with this action. Remaining funding pays for one contractor to fulfil ADL's requirements and residual actions and may also be transferred in future budgets. The reduction of \$342,000 was as a result of the Congressional reduction to general FFRDC funding.

A. Mission Description and Budget Item Justification

This program supports the Department's initiative Taking Care of People.

Advanced Distributed Learning (ADL) program is helping DoD evolve its distributed learning systems (e.g., online courses, smartphone-based learning, and DoD-wide enterprise systems for training and education). These improvements benefit DoD in several ways: (1) EFFICIENCY: Increase business systems' efficiency, saving time and resources, by eliminating duplications and developing shared services for digital learning technology and data. (2) EFFECTIVENESS: Improve the quality and efficiency of training/education delivery via online systems by developing modern technologies, integrated data systems, and associated learning science, ultimately impacting personnel readiness.

This program was originally established in response to Section 378 of Public Law 105-261, the National Defense Authorization Act for FY 1999. Other authorities were later provided through, for example, the Defense Planning Guidance. The ADL program directly supports all DoD Components, and as a leader in the field of distributed learning technologies, also coordinates with other Federal agencies, Allies, and Partners. This leads to the program's third benefit: (3) INTEROPERABILITY: It strengthens interagency, interorganizational, and multinational interoperability by developing shared distributed learning capabilities and policy and through leadership in DoD, Federal, and Coalition communities of practice.

The program's work falls into three interrelated categories: (A) Modernization, (B) Documentation, and (C) Coordination. The "modernization" work involves Advanced Technology Development (RDT&E subfield Advanced Technology Development 6.3) in technical areas such as e-learning, mobile learning, IT/data interoperability, learner data modeling and analytics, and associated learning science. These efforts inform the program's "documentation" work, including the authoring and upkeep of technical guidance and policy documents, such as DoD Instruction 1322.26 ("Distributed Learning") and software/data interoperability specifications. Finally,

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the documentation work drives “coordination” efforts, which consist of implementation support and interagency, interorganizational, and international (e.g., NATO) coordination.

This program’s modernization investments are vetted through the Defense ADL Advisory Committee, a working group of military personnel and DoD/Federal civilians who formally represent their organizations’ distributed learning interests. These requirements are also aligned to DoD/Federal strategic direction, such as the DoD Digital Modernization Strategy, DoD and Federal Data Strategies, and Personnel and Readiness Strategy for 2030. They are also considered against emerging industry trends and technologies.

B. Program Change Summary (\$ in Millions)	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>
Previous President's Budget	6.765	6.398	0.000	-	0.000
Current President's Budget	6.588	6.056	0.201	-	0.201
Total Adjustments	-0.177	-0.342	0.201	-	0.201
• Congressional General Reductions	-	-0.342			
• Congressional Directed Reductions	-0.001	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.176	-			
• Adjustments to Budget Year	-	-	0.201	-	0.201

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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C. Accomplishments/Planned Programs (\$ in Millions)	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>
Title: Advance Distributed Learning (ADL)	6.588	6.056	0.201
Description: Advance Distributed Learning (ADL) program serves as the innovation hub for distributed learning across DoD and other government agencies. The ADL program supports DoD-wide initiatives for innovation, modernization, and advancement of			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
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online and mobile electronic training capabilities as well as associated enterprise-wide software/data services. Activities include advanced technology design and development, demonstrations, assessments, and associated policy stewardship. Results improve efficiencies and reduce costs, in part, by reducing time spent in face-to-face instruction, allowing more time for practical application and repetition, increasing interoperability (which enables discovery, retrieval, and reuse of distributed learning content), and researching and prototyping methods of distributed learning with superior motivational and learning outcomes.

FY 2022 Plans:

1. Enterprise Course Catalog -- Finalize transition of the Enterprise Course Catalog by completing remaining developmental test and evaluation efforts. Complete any remaining steps to obtain cybersecurity accreditation for operation of the system. Implement the associated standard for Learning Metadata, and coordinate with the CDO Council to potentially expand relevant shared services from this effort into other DoD systems (e.g., for linked data).
2. Enterprise Learner Record Repository -- Build the Learner Profile data standard. Conduct developmental testing of the prototype, demonstrating safe data integration of learner records across multiple DoD organizations.
3. Learning Services Ecosystem -- Total Learning Architecture (TLA) Enterprise Architecture, i.e., the software/data backbone across digital training and education technologies. Work on the developmental environment will continue with Defense Components to support implementation of the TLA with their systems (i.e., modernizing legacy technology). Produce DevSecOps documentation to help these organizations transition the TLA. This work is the "data backbone" for Enterprise Digital Learning Modernization.
4. Update Distributed Learning Policy -- Continue to coordinate with the Defense ADL Advisory Committee to incorporate new requirements into existing Defense policy, as required. Additional work is anticipated to integrate updated guidance on data standards and the enterprise architecture. New guidance on Identity, Credential, and Access Management as well as data privacy, data handling, and single sign-on will also be considered in support of the Enterprise Course Catalog and Enterprise Learner Record Repository.
5. Coordination -- Continue to coordinate with Defense Allies and Partners on distributed learning, to include the NATO Training Group, Partnership for Peace Consortium, and The Technical Cooperation Program. Work with DoD groups (e.g., Defense ADL Advisory Committee, CDO Council, Joint Enterprise Standards Committee) and professional technical organizations to enact and govern software/data standards and digital learning science.

FY 2023 Plans:

FY 2021	FY 2022	FY 2023

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Based on a Memorandum of Agreement between OUSD(P&R) and DHRA, the Advanced Distributed Learning (ADL) program is transferred to DHRA for oversight responsibilities from P&R to DHRA. This agreement transfers funds encompassing Operation and Maintenance (O&M), Defense-Wide and Research, Development, Test and Evaluation (RDT&E) appropriations. No civilian or military authorization will transfer with this action. Remaining funding pays for one contractor to fulfil ADL's requirements and residual actions.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Based on a Memorandum of Agreement between OUSD(P&R) and DHRA, the Advanced Distributed Learning (ADL) program is transferred to DHRA for oversight responsibilities from P&R to DHRA. This agreement transfers funds encompassing Operation and Maintenance (O&M), Defense-Wide and Research, Development, Test and Evaluation (RDT&E) appropriations. No civilian or military authorization will transfer with this action. Remaining funding pays for one contractor to fulfil ADL's requirements and residual actions.</p>				
Accomplishments/Planned Programs Subtotals		6.588	6.056	0.201
D. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
E. Acquisition Strategy				
N/A				