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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Office of the Secretary Of Defense **Date:** March 2023

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0606135D8Z I <i>Chief Digital Artificial Intelligence Officer</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	13.132	17.247	-	17.247	9.243	5.464	5.672	5.785	Continuing	Continuing
069: <i>Artificial Intelligence &amp; Machine Learning Technologies</i>	0.000	0.000	13.132	17.247	-	17.247	9.243	5.464	5.672	5.785	Continuing	Continuing

**Note**

New Start (Y/N): No

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

The Chief Digital and Artificial Intelligence Officer (CDAO) supports the Department's initiatives to build enduring advantage and build a resilient Joint Force and defense ecosystem. The CDAO is responsible for strengthening and integrating data, artificial intelligence, and digital solutions in the Department in support of the National Defense Strategy and Section 1513 of the National Defense Authorization Act (NDAA) for FY 2023.

The functions of the CDAO are as follows: lead and oversee the DoD's strategy development and policy formulation for data, analytics, and AI; break down barriers to data and AI adoption; create enabling digital infrastructure and services; selectively scale and provide digital and AI-enabled solutions focused on enterprise and joint use cases; and surge digital services. The CDAO will continue priority projects that align to the mission. This includes expanding the enterprise data repository; establishing a responsible AI ecosystem; developing the AI and Data Accelerator (ADA) initiative; and developing a Data, Analytics, and AI Adoption Strategy. These various lines of effort will support the overarching mission of accelerating the Department's adoption of data, analytics, and AI to preserve decision advantage across the Joint Force.

This exhibit encompasses two activities: AI Acquisition Training and Responsible AI (RAI) and AI Governance Tools.

The DoD must overhaul its acquisition processes and prioritize technical and acquisition training as highlighted in the 2018 National Defense Strategy, the 2018 DoD Artificial Intelligence Strategy, and the 2021 National Security Commission on Artificial Intelligence (NSCAI) Final Report. This funding will provide the basis of the training platform -Digital DNA Pilot Program- in partnership with OUSD(A&S).

It is also incumbent on the Department to ensure all its AI-enabled systems will be safe and adhere to ethical standards and that they are used in a manner that contributes to the efficiency, effectiveness, and legitimacy of the Department's AI capabilities. This requirement funds activities to develop, procure and maintain the necessary commercial and DoD-customized tools to put the DoD AI Ethical Principles into practice across the entire AI product lifecycle. RAI leaders across the Department are going to need access to and utilize tools that support the capability development process, including in areas of explainability of models, bias detection, and other areas necessary for RAI. This requirement provides for the integration of commercially available tools, to include an Explainable AI tool, Synthetic Data & Anonymization tool, Data Management and Traceability tool, Continuous Integration/ Continual Delivery tool, Auto-Machine Learning tool, Bias Mitigation tool, and the Interference Time tool, into the developer's workflow to operationalize the DoD AI Ethics Principles. By doing so, these tools will not only provide technical assessments

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through the project lifecycle, but also allow for traceability and reliability to ensure safe and ethical systems from design to development and deployment to use. This requirement also funds the development of DoD-customized assessments and tools that RAI leads will use across the AI product and acquisition lifecycles.

<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2022</u></b>	<b><u>FY 2023</u></b>	<b><u>FY 2024 Base</u></b>	<b><u>FY 2024 OCO</u></b>	<b><u>FY 2024 Total</u></b>
Previous President's Budget	0.000	13.132	17.247	-	17.247
Current President's Budget	0.000	13.132	17.247	-	17.247
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

**Change Summary Explanation**

No change in FY 2024 funding.

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<b>Appropriation/Budget Activity</b> 0400 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0606135D8Z / Chief Digital Artificial Intelligence Officer				<b>Project (Number/Name)</b> 069 / Artificial Intelligence & Machine Learning Technologies			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
069: Artificial Intelligence & Machine Learning Technologies	0.000	0.000	13.132	17.247	-	17.247	9.243	5.464	5.672	5.785	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project encompasses two activities: AI Acquisition Training and RAI and AI Governance Tools.

The DoD must overhaul its acquisition processes and prioritize technical and acquisition training as highlighted in the National Defense Strategy for 2018, the 2018 DoD Artificial Intelligence Strategy, and the 2021 NSCAI Final Report. This funding will provide the basis of the training platform -Digital DNA Pilot Program- in partnership with OUSD(A&S).

It is also incumbent on the Department to ensure all its AI-enabled systems will be safe and adhere to ethical standards and that they are used in a manner that contributes to the efficiency, effectiveness, and legitimacy of the Department’s AI capabilities. This requirement funds activities to develop, procure and maintain the necessary commercial and DoD-customized tools to put the DoD AI Ethical Principles into practice across the entire AI product lifecycle. RAI leaders across the Department are going to need access to tools that support the capability development process, including in areas of explainability of models, bias detection, and other areas necessary for RAI. This requirement provides for the integration of commercially available tools to include an Explainable AI tool, Synthetic Data & Anonymization tool, Data Management and Traceability tool, Continuous Integration/ Continual Delivery tool, Auto-Machine Learning tool, Bias Mitigation tool, and the Interference Time tool into the developer’s workflow to operationalize the DoD AI Ethics Principles. By doing so, these tools will not only provide technical assessments through the project lifecycle, but also allow for traceability and reliability to ensure safe and ethical systems from design to development and deployment to use. This requirement also funds the development of DoD-customized assessments and tools that RAI leads will use across the AI product and acquisition lifecycles.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Artificial Intelligence (AI) Acquisition Training	-	6.695	6.637
<b>Description:</b> The DoD must overhaul its acquisition processes and prioritize technical and acquisition training as highlighted in the National Defense Strategy for 2018, the DoD Artificial Intelligence Strategy for 2018, and the 2021 NSCAI Final Report. This funding is earmarked to provide the basis of the training platform - DoD AI Acquisition Training Platform - in partnership with OUSD(A&S).			
<b>FY 2023 Plans:</b> In FY 2023, CDAO plans to develop AI-specific acquisition content for existing Defense Acquisition University platforms and to build a DoD AI training portal for DoD components acquiring AI capabilities.			
<b>FY 2024 Plans:</b>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>In FY 2024, CDAO plans to continue developing AI-specific acquisition content for existing Defense Acquisition University platforms and to build a DoD AI training portal for DoD components acquiring AI capabilities.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2024 decrease is due to expected savings in software licensing costs.</p>				
<p><b>Title:</b> Responsible Artificial Intelligence (RAI) and Artificial Intelligence (AI) Governance Tools</p> <p><b>Description:</b> It is incumbent on the Department to ensure all its AI-enabled systems will be safe and adhere to ethical standards and that they are used in a manner that contributes to the efficiency, effectiveness, and legitimacy of the Department's AI capabilities as outlined in the National Defense Strategy and Section 1513 of the National Defense Authorization Act (NDAA) for 2023. This requirement funds activities to develop, procure and maintain the necessary commercial and DoD-customized tools to put the DoD AI Ethical Principles into practice across the entire AI product lifecycle. RAI leaders across the Department are going to need access to utilize tools that support the capability development process, including in areas of explainability of models, bias detection, and other areas necessary for RAI. This requirement provides for the integration of commercially available tools to include an Explainable AI tool, Synthetic Data &amp; Anonymization tool, Data Management and Traceability tool, Continuous Integration/Continual Delivery tool, Auto-Machine Learning tool, Bias Mitigation tool, and the Interference Time tool into CDAO's AI/ML platforms, which will embed the operationalization of the DoD AI Ethics Principles into the developer's workflow. By doing so, these tools will not only provide technical assessments through the project lifecycle, but also allow for traceability and reliability to ensure safe and ethical systems from design to development and deployment to use. This requirement also funds the development of DoD- customized assessments and tools that RAI leads will use across the AI product and acquisition lifecycles.</p> <p><b>FY 2023 Plans:</b> In FY 2023, CDAO Plans to develop and maintain the DoD AI Inventory tool, an information-sharing portal website, an executive dashboard, and customized DoD governance tools, and to procure and maintain commercially available tools to support RAI activities.</p> <p><b>FY 2024 Plans:</b> In FY 2024, CDAO will continue to develop and maintain the DoD AI Inventory tool and customized DoD governance tools, and to procure and maintain commercially available tools to support RAI activities.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2024 increase funds the development and implementation of web-based and application-based tools reflective of the initial RAI assessments and tools generated in FY 2023.</p>		-	6.437	10.610
<b>Accomplishments/Planned Programs Subtotals</b>		-	13.132	17.247

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**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

N/A