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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604123D8Z I <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	0.000	274.853	615.246	371.833	-	371.833	380.851	378.872	383.250	392.864	Continuing	Continuing
067: <i>AI/ML Demonstration & Validation</i>	0.000	274.853	615.246	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	890.099
081: <i>AI/ML Scaffolding</i>	0.000	0.000	0.000	139.909	-	139.909	85.354	84.993	95.763	99.724	Continuing	Continuing
082: <i>Digital Talent Management</i>	0.000	0.000	0.000	23.031	-	23.031	24.198	15.940	13.011	13.535	Continuing	Continuing
083: <i>Foundational Enablers</i>	0.000	0.000	0.000	197.511	-	197.511	259.313	266.437	262.748	267.246	Continuing	Continuing
084: <i>Improved Data Quality</i>	0.000	0.000	0.000	11.382	-	11.382	11.986	11.502	11.728	12.359	Continuing	Continuing

Note

New Start (Y/N): No

Beginning in FY 2025 Program Element funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities. The new project codes are: (1) P081 AI/ML Scaffolding; (2) P082 Digital Talent Management; (3) P083 Foundational Enablers; and (4) P084 Improved Data Quality. The prior year funding project codes did not continue after FY 2024 though the overarching goals of the program element are the same. The four new project codes refocus the PE and provide traceability to the current priorities of the CDAO.

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 (NDS) 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 within DoD institutional processes; create enabling digital infrastructure and services that support Components' development and deployment of data, analytics, AI, and digital-enabled solutions; selectively scale proven digital and AI-enabled solutions focused on enterprise and joint use cases; and surge digital services for rapid response to crises and emergent challenges. This also requires CDAO to continue priority projects that align to the mission. This includes expanding the enterprise data repository, establishing a responsible AI ecosystem, executing 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.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	278.340	615.246	595.852	-	595.852
Current President's Budget	274.853	615.246	371.833	-	371.833
Total Adjustments	-3.487	0.000	-224.019	-	-224.019
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	6.700	-			
• SBIR/STTR Transfer	-10.160	-			
• WHS Transfer	-0.027	-	-	-	-
• Realignments	-	-	-224.019	-	-224.019

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 067: *AI/ML Demonstration & Validation*

Congressional Add: *CDAO - DEM / VAL Activities*

	FY 2023	FY 2024
Congressional Add Subtotals for Project: 067	1.513	-
Congressional Add Totals for all Projects	1.513	-

Change Summary Explanation

FY 2023 SBIR/SSTR transfer -\$10.160; WHS transfer -\$0.027.

FY 2025 decrease of \$224.019 is the result of transfer to JADC2 (PE0604122D8Z) in support of Congressional guidance.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities	Project (Number/Name) 067 / AI/ML Demonstration & Validation
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
067: AI/ML Demonstration & Validation	0.000	274.853	615.246	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	890.099
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

Beginning in FY 2025 Program Element funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities. The new project codes are: (1) P081 AI/ML Scaffolding; (2) P082 Digital Talent Management; (3) P083 Foundational Enablers; and (4) P084 Improved Data Quality. The prior year funding project codes did not continue after FY 2024 though the overarching goals of the program element are the same. The four new project codes refocus the PE and provide traceability to the current priorities of the CDAO.

A. Mission Description and Budget Item Justification

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 within DoD institutional processes; create enabling digital infrastructure and services that support Components' development and deployment of data, analytics, AI, and digital-enabled solutions; selectively scale proven digital and AI-enabled solutions focused on enterprise and joint use cases; and surge digital services for rapid response to crises and emergent challenges. This also requires CDAO to integrate the capabilities, personnel, resources, and governance of its constituent organizations, while concurrently focusing on priority projects that align to CDAO's mission. This includes expanding the enterprise data repository; establishing a responsible AI ecosystem; executing the 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.

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

	FY 2023	FY 2024	FY 2025
<p>Title: CDAO: Building Resiliency and Readiness (USD(P&R)) ADVANA</p> <p>Description: The GAO report 18-586R on Military Aviation Mishap findings showed that there are gaps on OUSD(P&R)'s approach for collecting, reporting, and analyzing mishap data due to lack of standardized reporting elements across the military departments' safety centers. Advana is a technology platform that not only houses a collection of enterprise data, but expands the boundaries of a standard data warehouse by arming military and business decision-makers with decision support analytics, visualizations, and data tools. This project will support the Joint Safety Council, once established, to aid in the assessment of Services' aviation mishap data supporting improvement in aviation safety.</p>	1.900	-	-
<p>Title: Chief Digital and Artificial Intelligence Officer</p> <p>Description: The CDAO will continue to lead and oversee the DoD's strategy development and policy formulation for data, analytics, and AI; break down barriers to data and AI adoption within DoD institutional processes; create enabling digital</p>	158.832	420.939	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>infrastructure and services that support Components' development and deployment of data, analytics, AI, and digital-enabled solutions; selectively scale proven digital and AI-enabled solutions focused on enterprise and joint use cases; and surge digital services for rapid response to crises and emergent challenges. This also requires CDAO to integrate the capabilities, personnel, resources, and governance of its constituent organizations, while concurrently focusing on priority projects that align to CDAO's mission. This includes expanding the enterprise data repository; establishing a responsible AI ecosystem; executing the 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.</p> <p>FY 2024 Plans: In FY 2024, the CDAO will continue to make progress in transforming the Department through AI, and understanding the importance of remaining agile and adapting to meet diverse needs. The CDAO's functions and products will be tailored to meet these needs, and the personnel supporting these efforts are the CDAO's front-line of support to DoD components.</p> <p>The CDAO will continue to build on the Responsible AI eco-system to ensure the ethical, legal and moral foundations of our AI activities is reflected in every step of AI Development and implementation processes. CDAO will continue to work to ensure that RAI flows through AI Assurance processes.</p> <p>The CDAO team will work with Joint, Service, and partner platforms to develop a long-term strategy to ensure that Enterprise Capabilities meets the Department's needs. The CDAO will take the critical, tested and proven enterprise platforms and capabilities, such as access controls, data and service integration, and AL/MLOps pipeline to continue development of foundational services to be shared and used by the Department. This effort will facilitate the creation of a superhighway of countless platforms and systems to move data, analytics, capabilities, and integrate enterprise services to enable the acceleration of AI across the Department.</p> <p>FY 2024 growth will support the following:</p> <ul style="list-style-type: none"> - Development of campaigning decision support tools for DoD's Dynamic Campaigning efforts - Provide high-performance computing resources for AI test and evaluation - Development of tools to continuously assess AI performance - Development of AI interoperability standards - Development of AI research and development hubs - Creation of a center for AI assurance expertise 			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<ul style="list-style-type: none"> - Development of a containerized AI tool platform, a centralized library of AI packages, and a centralized library of foundational models - Development of AI test and evaluation courses at DAU and an AI training platform - DoD digital language proficiency incentives - Analytics capabilities of the Artificial Intelligence and Data Accelerator (ADA) initiative at the Combatant Commands - Three year pilot effort to provide embedded analytics support teams at the Services, Principal Staff Assistants, and select Defense Agencies and Field Activities - Three year development and experimentation of JADC2 capabilities initiated by INDOPACOM, NORTHCOM and EUCOM to operationalize a data integration layer for use across all Combatant Commands - Global Information Dominance Experiments (GIDE) to assess progress for operational, strategic and global applications <p>FY 2024 to FY 2025 Increase/Decrease Statement: Beginning in FY 2025 Program Element funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities. The new project codes are: (1) P081 AI/ML Scaffolding; (2) P082 Digital Talent Management; (3) P083 Foundational Enablers; and (4) Improved Data Quality. The prior year funding project codes did not continue after FY 2023 though the overarching goals of the program element are the same. The four new project codes refocus the PE and provide traceability to the current priorities of the CDAO. FY 2025 decrease is also the result of reprogramming Joint All-Domain Command & Control (JADC2)-related funding from this PE to PE 0604122D8Z in support of Congressional guidance.</p>			
<p>Title: Artificial Intelligence and Data Accelerator (ADA)</p> <p>Description: ADA is a DSD initiative to accelerate the deployment of data-enabled automation platform and development capabilities to each CCMD. ADA is designed to help CCMDs determine their long-term data and AI capability and needs and whether existing platforms can be scaled to address them. This funding addresses the AI component of ADA which will enable AI capability development and demonstration across three subcomponents: AI-Enabled Joint Operating System; CCMD Experimentation; and AI Integration Service Programs.</p> <p>The ADA effort was directed by the DSD to accelerate the deployment of data-enabled automation platforms and development capabilities to each CCMD. It is designed to transform how CCMDs conduct globally-integrated data management, including both warfighting and business decision analytics, and provide a data foundation to enable workflow and command and control automation capabilities. ADA is a campaign of learning to identify data and joint all domain command and control (JADC2) operational needs, discover obstacles to implementation of modern capabilities, and develop joint solutions. The ADA initiative is led by the CDAO.</p>	76.790	76.790	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p><i>FY 2024 Plans:</i> In FY 2024, CDAO plans to continue to build ADA support and partnerships to solve data, process, and infrastructure challenges at scale. ADA accomplishes this via on-site data personnel to augment CCMD capabilities, access to artificial intelligence (AI) experts to deploy tailored process solutions, deep reach back to DoD enterprise services, and close integration with the JADC2 experimentation community. ADA seeks to learn fast and scale outcomes broadly. As effective solutions are developed in one CCMD, they will be made available across the enterprise for further development and implementation. ADA is not solely focused on capability delivery, but designed to address both materiel and non-materiel challenges to data management. ADA discovery efforts across a range of capability areas include workforce development, acquisition practices, software modernization, IT infrastructure, and outdated processes are included. The ADA team will provide recommendations to the CDAO, JADC2 partners, and other governance bodies as appropriate. The ADA plan envisions a modest level of data management support for each CCMD by deploying the Advana and intelligence support platforms to each CCMD and the Joint Staff and embedding teams of data, analytics, and AI experts within the CCMDs to identify and resolve use cases.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Beginning in FY 2025 Program Element funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities. The new project codes are: (1) P081 AI/ML Scaffolding; (2) P082 Digital Talent Management; (3) P083 Foundational Enablers; and (4) Improved Data Quality. The prior year funding project codes did not continue after FY 2023 though the overarching goals of the program element are the same. The four new project codes refocus the PE and provide traceability to the current priorities of the CDAO. FY 2025 decrease is also the result of reprogramming Joint All-Domain Command & Control (JADC2)-related funding from this PE to PE 0604122D8Z in support of Congressional guidance.</p>			
<p><i>Title:</i> Joint Artificial Intelligence (AI) Test and Evaluation (T&E) Infrastructure Capability (JATIC)</p> <p><i>Description:</i> At the direction of the DSD and recommendation of the NSCAI report, CDAO established the JATIC to enable enterprise-scale rapid development, testing, and deployment of AI capabilities across warfighting domains. The JATIC will enable enterprise-scale rapid development, testing, and deployment of AI capabilities across warfighter domains and will migrate the DoD towards Joint All Domain Test & Evaluation. This funding will support JATIC foundational programs such as: Adversarial AI T&E, AI/ML model card standards, Scalable AI Test Harness, CDAO data repository, data service marketplace, and ontologies.</p> <p><i>FY 2024 Plans:</i> FY 2024 funding will be utilized to support JATIC efforts to include the T&E Factory, Scalable AI T&E Harness, Adversarial AI T&E, AI/ML model cards, as well as a data repository, data service marketplace, and ontologies.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></p>	12.727	18.081	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Beginning in FY 2025 Program Element funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities. The new project codes are: (1) P081 AI/ML Scaffolding; (2) P082 Digital Talent Management; (3) P083 Foundational Enablers; and (4) Improved Data Quality. The prior year funding project codes did not continue after FY 2023 though the overarching goals of the program element are the same. The four new project codes refocus the PE and provide traceability to the current priorities of the CDAO. JATIC funding is now aligned to P081 AI/ML Scaffolding.</p> <p>Title: Chief Digital and Artificial Intelligence Officer - Advana</p> <p>Description: The Advancing Analytics (Advana) platform is the single enterprise authoritative data management and analytics platform for the Secretary of Defense, Deputy Secretary of Defense, and Principal Staff Assistants (PSAs), with inputs from all DoD Components in alignment with the 5 May 2021 Creating Data Advantage memorandum signed by the Deputy Secretary of Defense. In FY 2024, CDAO will continue to develop and expand existing platform infrastructure, operations, and technical architecture to meet senior leadership and customer demand as outlined in Section 1513 of the National Defense Authorization Act for FY 2023. This tool suite provides Senior Leaders near real time awareness of the entire deployment process (planning stage through execution to closure) for people, equipment, and supplies within a specific Area of Responsibility. The crisis in Ukraine created a critical, time-sensitive demand for further rapid data aggregation and ongoing development support to inform senior leader decision-making on deployment of personnel and equipment, including Non-Combatant Evacuation, Covid-19 considerations, and humanitarian aid, among other potential problem sets. Additional service support resources are needed for 24/7 operating demands required for future incidents, and globally distributed staff embedded within several Combatant Commands. This work also results in additional infrastructure, license, and labor costs. Advana must also expand to environments such as (Joint Worldwide Intelligence Communication System) to support data needs and operations at higher classification levels. The benefit of having preplanned, established frameworks and mechanisms for data interoperability between DoD components and other agencies can increase speed to insight and relevance for critical information necessary for time constrained decision support.</p> <p>FY 2024 Plans: In FY 2024, the CDAO will continue to make progress in transforming the Department through AI, and understanding the importance of remaining agile and adapting to meet its diverse needs. Specifically, CDAO will continue to expand the existing Advana platform infrastructure, operations, and technical architecture to meet senior leadership and customer demand. CDAO will continue to expand its current inventory of automated data connections within Advana by establishing new connections to Authoritative Data Sources (ADS) as prioritized by SD/DSD, OSD senior leadership, Joint Staff, the Military Services, and the</p>	23.091	99.436	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Combatant Commands (CCMDs). CDAO and the Advana team will continue to provide readily available access to authoritative data for informed decision-making for DoD stakeholders and senior leaders.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Beginning in FY 2025 Program Element funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities. The new project codes are: (1) P081 AI/ML Scaffolding; (2) P082 Digital Talent Management; (3) P083 Foundational Enablers; and (4) Improved Data Quality. The prior year funding project codes did not continue after FY 2023 though the overarching goals of the program element are the same. The four new project codes refocus the PE and provide traceability to the current priorities of the CDAO. Advana funding is now aligned to P083 Foundational Enablers and P084 Improved Data Quality.</p>			
Accomplishments/Planned Programs Subtotals	273.340	615.246	-

	FY 2023	FY 2024
Congressional Add: CDAO - DEM / VAL Activities	1.513	-
FY 2023 Accomplishments: FY 2023 increase will support vertical munitions and fuel data integration pilots, as well efforts to deliver tactical artificial intelligence at Combatant Commands.		
Congressional Adds Subtotals	1.513	-

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

N/A

Remarks

D. Acquisition Strategy

The CDAO acquisition, management, and contracting strategy follows guidance outlined in the DoD 5000 series directives, Federal Acquisition Regulation (FAR) and FAR supplement policies and procedures. Management uses project management tools and meetings to ensure delivery of stated capabilities and performance criteria.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Office of the Secretary Of Defense		Date: March 2024
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FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Artificial Intelligence and Data Accelerator	
ADA	█
CDAO: Building Resiliency and Readiness (USD(P&R)) ADVANA	
CDAO: Building Resiliency and Readiness (USD(P&R)) ADVANA	█
Joint Artificial Intelligence (AI) Test and Evaluation (T&E) Infrastructure Capability (JATIC)	
Joint Artificial Intelligence (AI) Test and Evaluation (T&E) Infrastructure Capability (JATIC)	█
Establishment of the Chief Digital and Artificial Intelligence Officer - Advana	
Advana	█
Establishment of the Chief Digital and Artificial Intelligence Officer	
CDAO	█

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Artificial Intelligence and Data Accelerator	
ADA	████████████████████
CDAO: Building Resiliency and Readiness (USD(P&R)) ADVANA	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Office of the Secretary Of Defense		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Artificial Intelligence and Data Accelerator				
ADA	4	2022	4	2024
CDAO: Building Resiliency and Readiness (USD(P&R)) ADVANA				
CDAO: Building Resiliency and Readiness (USD(P&R)) ADVANA	4	2022	4	2024
Joint Artificial Intelligence (AI) Test and Evaluation (T&E) Infrastructure Capability (JATIC)				
Joint Artificial Intelligence (AI) Test and Evaluation (T&E) Infrastructure Capability (JATIC)	4	2022	4	2024
Establishment of the Chief Digital and Artificial Intelligence Officer - Advana				
Advana	4	2022	4	2024
Establishment of the Chief Digital and Artificial Intelligence Officer				
CDAO	4	2022	4	2024

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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
081: <i>AI/ML Scaffolding</i>	0.000	0.000	0.000	139.909	-	139.909	85.354	84.993	95.763	99.724	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

New Start (Y/N): No
 Beginning in FY 2025 funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities. The project is continuation of the activities that was captured under AI/ML Demonstration & Validation from FY 2024

A. Mission Description and Budget Item Justification

The mission of the AI/ML Scaffolding project is developing, providing, brokering, and advising on the infrastructure, data, tools, services and best practices needed to accelerate appropriate AI/ML development and adoption.

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

	FY 2023	FY 2024	FY 2025
Title: AI/ML Scaffolding	-	-	139.909
<p>Description: CDAO's AI/ML Scaffolding efforts include:</p> <ul style="list-style-type: none"> * AI Test & Evaluation and Assurance Case Best Practices: Tailorable T&E frameworks that balance structure with flexibility to provide guidance on critical AI testing challenges, including: <ul style="list-style-type: none"> - AI T&E frameworks to support development of AI T&E policy and guidance, and T&E strategies and plans for systems with AI. - Example Assurance Cases - DoD LLM Benchmarks - Frameworks will be publicly releasable and made available to customers through CDAO and DoD publication means. Assurance Case examples and DoD LLM Benchmarks will be released at the classification level of the systems and data used to generate them * Alpha-1: provides enterprise services for DoD AI/ML development to give a baseline to DoD AI/ML projects. Services provided by Alpha-1 will be employed at the discretion of the partnering projects. CDAO will fund and provide some amount of capabilities, partnering projects which can elect to augment with additional funds or capabilities. * Digital Ecosystem Reference Architecture Model (DREAM): effort to continuously deliver AI/ML to mission spaces. <ul style="list-style-type: none"> - DREAM exists to address major impediments to the adoption of AI/ML across the department, including DoD's lack of relevant technical capability, need for continuous capability update and awareness of technical innovation. - DREAM provides strategic technical awareness of relevant technologies that support the adoption of AI/ML across the DoD. - DREAM provides a reference architecture model for continuous delivery of assured AI/ML to mission spaces. 			

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

	FY 2023	FY 2024	FY 2025
<p>* Enterprise Platforms & Capabilities (EPC) AI/ML Operations: implements the core Advana principles to bring Data and Analytics to the DoD. It provides:</p> <ul style="list-style-type: none"> - Scalable compute, access to open source and industry leading packages, models, and programming languages - Ability to build, deploy, test, maintain, and monitor machine learning models built on top of live enterprise data - Access to foundational models and catalog of production/available models - Utilization of various development environments, tools, and platforms - Assessment of Large Language Models (LLMs) in accordance with CDAO guidance <p>* Joint AI Test Infrastructure Capability (JATIC): At the direction of the DSD and recommendation of the NSCAI report, CDAO established the JATIC to enable enterprise-scale rapid development, testing, and deployment of AI capabilities across warfighting domains. The JATIC will enable enterprise-scale rapid development, testing, and deployment of AI capabilities across warfighter domains and will migrate the DoD towards Joint All Domain Test & Evaluation. This funding will support JATIC foundational programs such as: Adversarial AI T&E, AI/ML model card standards, Scalable AI Test Harness, CDAO data repository, data service marketplace, and ontologies.</p> <p>* Perceptor: On behalf of the DoD enterprise, Perceptor will pursue the following needs:</p> <ul style="list-style-type: none"> - Accelerate the operationalization of AI systems - Increase analytic and AI reuse - Improve AI performance in production environments and reduce risk of AI degradation over time - Integrate AI insight in existing tools and interfaces - Operationalize AI inference on data streams and at the edge / ingest <p>* Continuous Operational Behavior, Robustness, and Resilience Assessment (COBRRA): provides tools for continuous monitoring of AI models after deployment to ensure continuous validation and verification of performance characteristics among changing environmental and operational conditions</p> <p>* Responsible AI (RAI): RAI is critical to decision makers, warfighters, industry partners, and public trust in the technologies that the Department develops and deploys. The CDAO RAI effort:</p> <ul style="list-style-type: none"> - Operationalizes the DoD AI Ethical Principles - Oversees the Deputy Secretary of Defense's RAI Strategy and Implementation Pathway (S&IP) - Coordinates with offices throughout the DoD and federal government - Integrates RAI to build capacity of best practices and tools for AI <p>* Smart Sensor: Smart Sensor is an effort to develop an AI and autonomy software effort enabling Group 5 UAS to conduct surveillance and reconnaissance missions in C2 and GPS-denied environments. This effort will enable autonomous, persistent, airborne surveillance and reconnaissance in contested environments via AI-enabled sensor fusion.</p> <p>* Test & Evaluation Infrastructure Gap Studies: CDAO's Test & Evaluation Infrastructure Gap Studies provide an evidence-based assessment of both the current state and desired state of DoD's T&E ecosystem necessary for accomplishing robust and</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 081 / <i>AI/ML Scaffolding</i>

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

efficient testing of AIESs. This product series covers T&E broadly, and future work will cover resource gaps preventing sufficient evaluations of Adversarial AI. These studies provide tailored, tangible recommendations for infrastructure investments.

FY 2025 Plans:

In FY 2025 CDAO's AI/ML Scaffolding efforts in the PE will continue its work from FY 2024:

* AI T&E and Assurance Case Best Practices

- DoD LLM Benchmark Example
- DoD LLM Benchmark Guide
- AI Operational Testing Framework
- AI Systems Integration Testing Framework

The FY 2025 AI T&E and Assurance Case Best Practices effort is aimed at developing guidance towards the T&E of novel technologies and the implementation of AI into systems with greater complexity and higher consequence. Beginning with LLMs, the CDAO's focus is ensuring that the Department has the sufficient guidance on their appropriate usage, and an understanding of their novel risks. Within AI Operational and Systems Integration testing frameworks, the CDAO will provide guidance and example assurance cases in the employment of AI into operator-AI workflows, and complex systems of systems.

* DREAM:

- Reference Architecture Model development: Develop core principles and design and architect relevant AI/ML scaffolding capabilities based on survey results and mission needs from across the department
- DoD AI Federation Activities: Establish CTO-peer touchpoints within related organizations in OSD, components and services, and industry partners to share and discuss strategic needs and approach
- Vendor Engagement and Awareness: Leverage tech-focused vendor panels to understand trends and capabilities and develop and share strategic insights with CDAO leadership and department federates
- - Enabling Activities: Support development of the reference architecture model, through survey execution and inventory review, experiment design and execution of potential data patterns and management capabilities, policy development and execution
- Provide much needed administrative and program management support

* EPC AI/ML Operations:

- Ability to continuously monitor, retrain, and deploy machine learning models
- Safely and securely utilize open source tools and foundational models
- Document and catalog production models and promote efficient reuse
- Provide decision advantage that's enabled by AI/ML to organizations that currently lack the capability (Models-as-a-Service)

* JATIC:

- Scalable AI T&E Harness - Acquire automated, scalable, enterprise-level TEVV tools for evaluating standardized model performance and data quality; develop performance benchmarks for well-known modalities and tasks.

FY 2023	FY 2024	FY 2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
<ul style="list-style-type: none"> - Adversarial AI T&E - Building on the work within DARPA GARD, JATIC efforts will focus on developing realistic adversarial AI techniques that have real utility within integrated cyber-physical red teams - AI/ML model cards - Creating model cards, in collaboration with CDAO Responsible AI, to communicate key model / dataset information to key AI/ML stakeholders, providing them with the relevant information they need to make decisions. - Data repository, data service marketplace, and ontologies - Standards, protocols, and ontologies for common AI/ML tasks, including CV and FMV have been created. FY 2025 effort will create ontologies for DoD-unique applications and the data repository to enable them. * Perceptor: <ul style="list-style-type: none"> - Core Software Support: Lifecycle management of internal tools, libraries, and line code, performance enhancement, user interface improvements, documentation and version control - Deployment Integration: Support to mission partners standing up or moving instances of Perceptor, upgrade operations, data source connection support, analytic containerization and repository support - Customer Engagement: Use case review and advice, user feedback to developers and program managers for rapid iteration and deployment, community building for analytic and data connector sharing - Cybersecurity: Generation of artifacts to support accreditation and approval to operate decisions, DoD RMF certification requirements, patching and container hardening * COBRRA: <ul style="list-style-type: none"> - Operational model monitoring: Monitoring of model performance on operational systems, after deployment, to ensure continuous assurance of behavior, robustness, resilience, and performance of our deployed models - Data drift identification: software tools to identify when data seen in operations has drifted from the data which a model was trained and tested on, in which case, the model's predictions may no longer hold or be at risk of failure - Continuous validation learning systems: Many of our future deployed AI systems will be required to continuously learn and adapt to their environment in order to keep up with the speed of future warfare. COBRRA will provide lightweight software, deployable at the edge, to continuously assure these updates to learning systems - Outlier detection: COBRRA will provide live outlier detection to provide operators with warnings for outlier situations when they should be wary of model predictions or actions * Responsible AI: <ul style="list-style-type: none"> - RAI Tools: <ul style="list-style-type: none"> - RAI Knowledge Sharing Tools (RAI Portal, Use Case Repository, Incident Repository) - RAI Governance Tools (Executive Dashboard, RAI Process Flow Tool, RAI Program Management Tool, RAI Budgeting Tool) - Auditability Tools (Bias Bounty, System Cards) - HSI/HMT Tools (HMT Red Teaming Guidebook and Tools, BlueSky Integration) 			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 081 / <i>AI/ML Scaffolding</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<ul style="list-style-type: none"> - Tool Integration (Explainability, OOD, Competence Estimation, Privacy Risk, Robustness, Algorithmic Recourse, Imitation/Extraction Risk, Continuous Monitoring Tools) - RAI Best Practices : - RAI Framework (RAI Toolkit) - RAI Risk Resources (Risk Management Framework and Profiles Development, Civilian Harms and Mitigation Project, Harms/Impact Analysis, High Consequence Risk & Tradeoffs Framework) - Integrating Generative AI Responsibly - RAI Workforce and Organization Development (RAI 101, RAI Awareness Training) - RAI Integration and Outreach: - Partnerships and Policy (Mission Partnerships [including Integration and Piloting of RAI Tools], RAI Data and AI Review Board, RAI Community of Interest, RAI Academic Consortium) * Smart Sensor: - Sensor Autonomy: AI-enabled sensor control - Non-GPS Position, Navigation & Timing: Geo-registration, visual navigation, alternate navigation - AI-enabled reasoning - Autonomy Framework: Autonomy control station and platform communications - Perception: Automated target recognition, tracking & fusion * T&E Infrastructure Gap Studies: - National AI T&E Infrastructure Capability (NAITIC) Gap Study (aka T&E Gap Study); data collection and analyses include: - Enterprise AI T&E Goals, including rationales - Demand for AI T&E infrastructure capabilities, primarily from programs, Services, and others looking to deliver AI-enabled capabilities (AIECs) - Baseline Supply of AI T&E infrastructure capabilities available to meet the demand, encompassing both current (descriptive) and future (normative) views - Gaps between current and future demand and supply of AI T&E infrastructure to meet government test goals - Actions that can be taken to meet test objectives via investments to close gaps in AI T&E infrastructure - AI Cyber Study to evaluate the cybersecurity posture of the infrastructure used to develop, test, and deploy artificial intelligence (AI); catalog AI services and infrastructure, evaluate risks, and recommend appropriate changes; consider conducting direct cybersecurity posture assessments and red teaming of a subset of this infrastructure. <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense	Date: March 2024
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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 081 / <i>AI/ML Scaffolding</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Starting in FY 2025, funding was realigned from P067 AI/ML Demonstration & Validation. Some budget increases in AI T&E and Assurance Case Best Practices and JATIC were highlighted in the FY 2025 base plans.			
Accomplishments/Planned Programs Subtotals	-	-	139.909

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 081 / <i>AI/ML Scaffolding</i>
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
AI/ML Scaffolding	C/Various	AI/ML Scaffolding : Various	-	-		-		139.909		-		139.909	Continuing	Continuing	-
Subtotal			-	-		-		139.909		-		139.909	Continuing	Continuing	N/A

Remarks
 The activities include, not limited to Alpha-1, Responsible AI, Smart Sensor, Perceptor, Digital Ecosystem Reference Architecture Model (DREAM), JATIC, T&E Infrastructure Gap Studies, AI T&E and Assurance Case Best Practices, Maritime Object Detection (MOD), COBRRA, and AI/ML operations. Beginning in FY 2025 Program Element funding was realigned and the schedule reflects the activity under the realigned PE even though these activities were conducted previously (therefore these activities are not new starts).

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	-	139.909	-	139.909	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities	Project (Number/Name) 081 / AI/ML Scaffolding

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AI/ML Scaffolding																												
AI/ML Operations																												
COBARRA																												
MOD																												
AI T&E and Assurance Case Best Practices																												
T&E Infrastructure Gap Studies																												
JATIC																												
DREAM																												
Smart Sensor																												
Responsible AI																												
Joint Program Office Global Planning Software Initiative																												
Alpha-1																												
Perceptor																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 081 / <i>AI/ML Scaffolding</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>AI/ML Scaffolding</i>				
AI/ML Operations	1	2025	4	2029
COBRRRA	1	2025	4	2029
MOD	1	2025	4	2029
AI T&E and Assurance Case Best Practices	1	2025	4	2029
T&E Infrastructure Gap Studies	1	2025	4	2029
JATIC	1	2025	4	2029
DREAM	1	2025	4	2029
Smart Sensor	1	2025	4	2029
Responsible AI	1	2025	4	2029
Joint Program Office Global Planning Software Initiative	1	2026	4	2029
Alpha-1	1	2025	4	2029
Perceptor	1	2025	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense										Date: March 2024		
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0604123D8Z / Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities					Project (Number/Name) 082 / Digital Talent Management		
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
082: Digital Talent Management	0.000	0.000	0.000	23.031	-	23.031	24.198	15.940	13.011	13.535	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

New Start (Y/N): No

Beginning in FY 2025 funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities.

A. Mission Description and Budget Item Justification

The mission of the Digital Talent Management project is to lead, oversee, support, empower, and educate the data, analytics, and AI workforce as the OSD Functional Community Manager (FCM) – this workforce is referred to as the Defense Digital Workforce (DDW).

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

	FY 2023	FY 2024	FY 2025
Title: Digital Talent Management Efforts	-	-	23.031
<p>Description: CDAO's Digital Talent Management program includes five core lines of effort (projects):</p> <ul style="list-style-type: none"> - FCM/DDW: Lead & oversee the Department's data, analytics, and AI workforce; Implement work-role coding; experiment, learn, share best practices (Pilots) - ANALYTICS & PLANNING: Analyze digital workforce supply, demand, trends and critical gaps - DEVELOPMENT: Create learning journeys and career pathways for digital practitioners; Provide data and AI education to senior leaders and all DoD personnel - DIGITAL COMMONS: Establish a "one-stop" Community of Practice with tools and resources - DIGITAL FUTURES: Cultivate tomorrow's DoD Digital Warfighters through internal and external partnerships 			
<p>FY 2025 Plans:</p> <p>In FY 2025 the CDAO will continue its Digital Talent Management program:</p> <ul style="list-style-type: none"> - Experiment: Work with DoD partners to learn digital talent management best practices - Understand: Analyze digital workforce supply, demand, trends and critical gaps - Guide: Publish a series of best practices playbooks and provide resources for the community - Develop: Create learning journeys and support career pathways for advancement - Change: Tackle policy, barriers and blockers - Educate: Provide data and AI education to senior leaders and all DoD personnel 			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense	Date: March 2024
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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 082 / <i>Digital Talent Management</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
- Maintain: Be an advocate for the digital workforce			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Starting in FY 2025, funding was realigned from P067 AI/ML Demonstration & Validation.			
Accomplishments/Planned Programs Subtotals	-	-	23.031

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities	Project (Number/Name) 082 / Digital Talent Management
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Digital Talent Management	C/Various	Digital Talent Management : Various	-	-		-		23.031		-		23.031	Continuing	Continuing	-
Subtotal			-	-		-		23.031		-		23.031	Continuing	Continuing	N/A

Remarks
Beginning in FY 2025 Program Element funding was realigned and the schedule reflects the activity under the realigned PE even though these activities were conducted previously (therefore these activities are not new starts).

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	-	23.031	-	23.031	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities	Project (Number/Name) 082 / Digital Talent Management
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FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Digital Talent Management	
Digital Talent Management	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 082 / <i>Digital Talent Management</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Digital Talent Management				
Digital Talent Management	1	2025	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense										Date: March 2024			
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0604123D8Z / Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities					Project (Number/Name) 083 / Foundational Enablers			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost	
083: Foundational Enablers	0.000	0.000	0.000	197.511	-	197.511	259.313	266.437	262.748	267.246	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

Note

In FY 2024, The CDAO completed the following activities on the Acquisition Ecosystem:

- Tradewinds/AcqBot -- IL5 Deployment; Senior Leader Dashboard; Proactive data indexed market research; Chat, with proposals capability; Tradewinds webpage refresh to integrate visual and audio media content; Integration of RAI toolkit to Tradewinds; Incorporate training and education content; Platform workflow.
- Solutions Marketplace -- TSM updates with CDAO customer teams (CTO, ADVANA, Algorithmic Warfare, Responsible AI); Explainer video publication to increase ease of use and awareness for both industry and government; Example award workflows and video tutorials for prospective Government users.
- Culture Design and Implementation -- Culture Science Assessment Results; Culture Design Playbook.
- AI Fundamentals/Literacy -- FY 2023 Cohort #6 – XVIII Airborne Corps 5-7 Dec; FY 2024 Cohort #1 – Navy Acquisition 13-14 Dec; FY 2023 Cohort #2 – Air Force 2-8 Feb; FY 2024 Cohort #3 – SOCOM 5-7 Mar.

The DDS continues to serve as DoD’s premier digital service team providing quick, current year digital solutions to the warfighter. DDS continues to specialize in rapid response, prototyping, cybersecurity, and technical assessments. Examples of FY 2024 projects include, delivering digital scaffolding to the U.S. Army to transform the Forward Area Air Defense (FAAD) into a modern data system; improving the candidate experience for individuals applying to DoD positions serviced by the Washington Headquarters Service (WHS); building a solution that will improve fuel efficiencies for Tankers in IndoPacom; leading the first-ever classified bug bounty; and implementing DoD’s first ever continuous bug bounty.

In other foundational enablers area, the CDAO continues in implementation of C3.ai, AWS Diode, Tableau, Athena, Virtualitics, AWS SageMaker, Google Apigee, ESRI, RStudio via Databricks, Graphframes via Databricks, Data Catalog on SIPR, EDL on SIPR, Upgrade to Next Gen ML Search, grow to 100K+ users, and support 9 community spaces and their requirements. The CDAO also deploys its immuta data access policy engine as well as Common Data Model Ontology capabilities. On SUNet, the CDAO refreshed its enterprise H/W and S/W and hardening the network and performing the cyber monitoring and providing the defensive postures against any emerging threats. The CDAO continues to provide and deliver any necessary components and support associated with deployment and effective and efficient maintenance of the data, analytics tools and training plans.

A. Mission Description and Budget Item Justification

The mission of the Foundational Enablers project is to deliver enabling projects and capabilities to support CDAO’s mission and functions. Enablers provide the foundation for the CDAO Big 5 Plays and include:

- Acquisition Ecosystem
- Advana Platform
- SUNet
- CDAO Centrally Managed Support
- Defense Digital Services

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense	Date: March 2024
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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 083 / <i>Foundational Enablers</i>
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- Enterprise Platforms and Capabilities (EPC): Data Engineering, Data Operations, and Data Governance

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

	FY 2023	FY 2024	FY 2025
<p>Title: Foundational Enablers Efforts</p> <p>Description: CDAO’s Foundational Enablers efforts in this PE include:</p> <ul style="list-style-type: none"> * Acquisition Ecosystem: provides rapid, effective, and efficient acquisition support to CDAO and DoD at large (through decentralized offerings) by providing contracting capabilities, guidance, and a highly trained acquisition workforce. The CDAO Acquisition Ecosystem provides several types of contracting mechanisms / vehicles such as CSOs, OTAs, BOAs, and BPAs; expedited contracting processes; and AI-driven tools to streamline federal procurements. * Advana Platform: the Advana Platform effort is responsible for providing the Secretary of Defense (SD), Deputy Secretary of Defense (DSD), Joint Staff, Principal Staff Assistants (PSAs), and each Military Service with enterprise data acquisition, data operations, and data analytics capabilities within a Government and Military-owned environment hosted in DoD and NGA clouds as well as available at the edge. The Advana Platform delivers 24/7 continuous operations on NIPR, SIPR, JWICS, SUNet, and Edge environments and supports a rapidly growing user community that now exceeds 75,000+ users, 450+ data connections, hosts the DoD Federated Data Catalog, hosts the DSD Pulse applications, and provides the core infrastructure for the CDAO Data Integration Layer. The “Creating Data Advantage” Memo, signed by DSD on 5 May 2021, directs that “The Advancing Analytics (Advana) platform is the single enterprise authoritative data management and analytics platform for the Secretary of Defense, Deputy Secretary of Defense, and Principal Staff Assistants (PSAs), with inputs from all DoD Components”. * Secure Unclassified Network (SUNet) Enterprise: SUNet is a National Security System used as an AI development environment and Multi-national collaboration & data sharing environment for non-traditional partners (Sky Blue). Its unique capabilities include: <ul style="list-style-type: none"> - Unique and Extensible US Government Platform: - Designed as an Open Architecture, Non-Proprietary USG capability - Internet accessible, GIG-Waiver precludes special hardware/software required to access, alternative MFA - Supports commercial, non-traditional development, and non-CAC multi-national partners. Government (IL-5) and Industry Data Protection. Hybrid, On-Prem, Multi-cloud Enterprise - AI Development & Non-Traditional Partner Data Sharing used to deploy 250+ AI models, label 208+ million objects, and build over 1,000+ models from 30+ vendors - Partner collaboration platform for 25+ international partners, multiple mission profiles * CDAO Centrally Managed Support: Centrally managed support provides basic and advanced workforce enabling tools to empower the CDAO to advance mission for DoD. * Defense Digital Services (DDS): The Defense Digital Services (DDS) effort provides DoD with highly-technical expertise to advise on and rapidly develop, prototype, and deploy digital solutions to meet the needs of the warfighter and the policymaker. Digital solutions provided by this effort include prototypes, technology assessments of government digital services, cybersecurity solutions via bug bounties, and surging digital services for crises response. 	-	-	197.511

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 083 / <i>Foundational Enablers</i>

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

* Enterprise Platforms and Capabilities (EPC) Data Engineering, Data Operations, and Data Governance: CDAO's Enterprise Platforms and Capabilities (EPC) Data Engineering, Data Operations, and Data Governance effort implements enterprise data acquisition, data engineering, data governance, data cataloging, and data integration capabilities available to 75,000+ Advana users and is required to support several top-priority CDAO use cases across the Department. These top-priority use cases include DSD Pulse metrics, the DoD Audit, the Federated Data Catalog, GIDE, J4 Operational Logistics, J35S Orion, J8 GFMDI, J7 JEXNET, all BASI products, and 300+ production applications hosted in the Advana platform. This effort also develops and sustains the expanding the number of enterprise data connections feeding data from Authoritative Data Sources (ADS) into the Federated Data Catalog hosted in Advana. This effort manages and currently sustains 450+ active data connections feeding data into the Federated Data Catalog.

FY 2025 Plans:

In FY 2025 CDAO's Foundational Enablers efforts in this PE will continue its FY 2024 activities and expand its work:

- * Acquisition Ecosystem:
 - TradewindAI.com: CDAO Acquisition's webpage of news & offerings
 - Tradewind Portal: OT Challenge postings, Requests for Information, Communities of interest (inc. TryAI CSO, AI Talent 2.0 BOAs, and other vehicles)
 - Solutions Marketplace: A centralized, video repository of readily awardable AI/ML, digital and data analytics solutions
 - Contract Writing System/AcqBot: Prototype project which applies AI, natural language processing (NLP), and robotic process automation (RPA) in a practical manner and intuitive workflow to assist with requirements generation
 - Public Private Partnership (PPP): Pilot to establish a new paradigm for a 'Global – Open & Trusted Ecosystem of Partners' where IP and work products can be shared as well as protected
 - On Demand AI Fundamentals: Pilot Training program to teach acquisition officials how to identify AI opportunities, set strong foundations for implementation, and overcome bureaucratic and procurement barriers
- * Advana Platform: continuous delivery, sustainment, and expansion of operational enterprise capabilities available in Advana NIPR, SIPR, JWICS, and Edge environments, including:
 - Institutionalize data, analytics, and AI-driven decision advantage | Drive timely, data-driven decisions and actions that support mission success by embedding accessible and approachable products and capabilities into the daily operations of our customers
 - Deliver a positive and reliable customer experience for all users | Provide an intuitive, interactive, and pleasant customer experience across applications and tools that make it easy to get work done, request assistance, and provide feedback
 - Provide secure, scalable, and cost-effective enterprise solutions | Deliver scalable, secure, and audit-compliant architecture and enterprise capabilities. Maximize our return on investment by operating as a secure, cost-effective shared service provider on multiple security domains with ATO (NIPR, SIPR, JWICS, SUNet, and Edge)

FY 2023	FY 2024	FY 2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 083 / <i>Foundational Enablers</i>

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

	FY 2023	FY 2024	FY 2025
<p>- Accelerate DoD’s data, analytics, and AI capabilities with world-class enterprise offerings Deliver world-class capabilities that lead DoD to adopt leading transformative data solutions (e.g., predictive / prescriptive methods, emerging capabilities) to drive data driven decision advantage at scale and enable mission and warfighter success</p> <p>* CDAO Centrally Managed Support:</p> <ul style="list-style-type: none"> - Emerging Foundational Enablers: Resources that contribute to the operational effectiveness of CDAO, SD and DSD priorities - Cyber Security Support Activities <p>* DDS:</p> <ul style="list-style-type: none"> - Prototyping digital solutions - Technology Assessments of in-development digital solutions <p>- Cybersecurity:</p> <ul style="list-style-type: none"> - Hack the Pentagon - Rapid Response Bug Bounties - Classified Bug Bounties - Crises Response <p>* EPC Data Engineering, Data Operations, and Data Governance: continuous delivery, sustainment, and expansion of existing data connections, automated data operations, cross domain service integrations, and data cataloging enterprise services available in Advana NIPR, SIPR, JWICS, and Edge environments, including:</p> <ul style="list-style-type: none"> - Delivering a scalable, automated, event-driven enterprise service designed to automatically move data between the Advana landing zone throughout the medallion architecture, through automated cross-domain solutions, and to external partner platforms using external data sharing capabilities available in Advana - Managing the automated data operations layer and data governance capabilities available in the Advana NIPR, SIPR and JWICS environment. This architecture currently supports 450+ operational data connections, 75,000+ Advana users, and 2,000+ Federated Data catalog users - Delivering and continuously expanding the DoD Federated Data Catalog hosted in the Advana environment. This Data Catalog provides all users, data stewards, and senior leadership with an automated enterprise capability to enable large-scale data discovery, cataloging of AI/ML models, and provides detailed metadata for each catalog asset <p>* SUNet Enterprise:</p> <ul style="list-style-type: none"> - Integration with the Advana ecosystem of enterprise platforms and capabilities operating on NIPR, SIPR, JWICS, and Edge. - Pipelines: CDAO will provide scalable, reliable, standardized pipelines for DoD to provide baseline requirements for AI development to include Data, AI, and Tool pipelines - Partners: CDAO has scoped an 'AI Journey' that will allow DoD to develop AI solutions any range of users, uncleared to cleared, hands-on to hand-held, boardroom to battlefield to develop AI capabilities across the enterprise. SUNet will enable non-traditional vendors and academia to participate in and drive AI in DoD 			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 083 / <i>Foundational Enablers</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>- Cross platform connection: SUNet is a key piece in the Federated AI Enterprise and the base of CDAO's AI Scaffolding. Secure connections to other platforms (Advana, SIPR) to push data, models, and accredited tools are nascent. This effort will scale, standardize, and automate the process to improve the AI landscape, allowing best practices to be shared across platforms.</p> <p>- Platform Enhancements: State of the art tools, software, and licenses will be made available to users in order to attract them to the CDAO's Federated AI Enterprise and AI Scaffolding. Enhancements to make the platform cheaper, efficient, robust, and scalable</p> <p>- Hardware Refresh: Large portions of the hardware nearing end of life. Investments in new, cutting-edge processors, firewalls, switches, etc. will enhance the platforms security and performance.</p> <p>- Security Enhancements: Critical security teams have been short staffed or over-burdened with additional tasks. In addition to upgrading tools, licenses, and hardware, security teams will be supplemented</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Starting in FY 2025, funding was realigned from P067 AI/ML Demonstration & Validation. The most notable increase will be for the SUNet, which will be integrated into the Advana ecosystem and will be provide the baseline platform to providing data and connection between DoD and its outside stakeholders.</p>			
Accomplishments/Planned Programs Subtotals	-	-	197.511

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities	Project (Number/Name) 083 / Foundational Enablers
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Foundational Enablers	C/Various	Foundational Enablers for CDAO : Various	-	-		-		197.511		-		197.511	Continuing	Continuing	-
Subtotal			-	-		-		197.511		-		197.511	Continuing	Continuing	N/A

Remarks
 These activities include not limited to Acquisition Ecosystem, Defense Digital Services, business analytics, Campaign Decision Support, Advana platform, SUNet enterprise, and data engineering, data operations, and data governance. Beginning in FY 2025 Program Element funding was realigned and the schedule reflects the activity under the realigned PE even though these activities were conducted previously (therefore these activities are not new starts).

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	-	197.511	-	197.511	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 083 / <i>Foundational Enablers</i>

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Foundational Enablers																												
Data Engineering, Data Operations, and Data Governance	[REDACTED]																											
SUNet Enterprise	[REDACTED]																											
Advana Platform	[REDACTED]																											
Campaign Decision Support	[REDACTED]																											
Business Analytics	[REDACTED]																											
Defense Digital Services	[REDACTED]																											
Acquisition Ecosystem	[REDACTED]																											
Various CDAO Analytics Support and Enablers	[REDACTED]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 083 / <i>Foundational Enablers</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Foundational Enablers</i>				
Data Engineering, Data Operations, and Data Governance	1	2025	4	2029
SUNet Enterprise	1	2025	4	2029
Advana Platform	1	2025	4	2029
Campaign Decision Support	1	2025	4	2029
Business Analytics	1	2025	4	2029
Defense Digital Services	1	2025	4	2029
Acquisition Ecosystem	1	2025	4	2029
Various CDAO Analytics Support and Enablers	1	2025	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 084 / <i>Improved Data Quality</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
<i>084: Improved Data Quality</i>	0.000	0.000	0.000	11.382	-	11.382	11.986	11.502	11.728	12.359	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

New Start (Y/N): No

Beginning in FY 2025 funding was realigned under four new project codes to correctly align PE funding in support of Chief Digital and Artificial Intelligence Officer (CDAO) priorities.

In FY 2024, The CDAO supported to Office of the Under Secretary of Defense for Personnel & Readiness Office of Force Resiliency Violence Prevention Cell with its On-site Installation Evaluation dashboards that provide visibility into command climate for targeted action and identification of best practices for the Deputy's Workforce Council's quarterly climate updates. Dashboards also inform selection for onsite visits, which are used to compile the Annual On-Site Installation Evaluation Report and drives implementation of the prevention workforce. PSA Analytic product teams provided improved data quality and inputs to Performance analytics across DoD PSAs. Deployed RDIM RAVEN Core. Completed MVP to JS J4 LOG SIP/COP. In addition, the CDAO gather data sources and develop analytic models that support the Campaign Assessment Feedback Loop (CAFL), develops Campaign Encyclopedia application that provide visualizations of key campaign indicators and trends, and leverages Fly-Away teams to deliver digital tools and capabilities that enable components to provide improved campaign decision support to senior leaders. The CDAO also provides direct support to the CCMDs, Joint Staff and relevant Joint Task force in response to emerging crisis around the globe, including but not limited to developing operational data pipelines rapidly to meet commanders' information requirements and ensure common operating pictures across commands share reusable components and data. The CDAO also led in efforts to make difficult to parse unstructured data availed and useful in context to DoD leaders and decision makers.

A. Mission Description and Budget Item Justification

The mission of the Improved Data Quality project is to set the conditions for quality data Defense-wide, beginning with data product management for logistics and personnel data, and creating quality data at scale through empowering data leaders, building alignment through re-use of data management best practices, and providing enterprise services that connect platforms and practitioners.

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

	FY 2023	FY 2024	FY 2025
Title: Improve Data Quality Efforts	-	-	11.382
<p>Description: CDAO's Improve Data Quality efforts in this PE include: * Logistics-focused efforts to create a data and analytic environment that propels data-driven decision advantage for senior leaders through end-to-end logistics analysis that optimizes planning, increases resiliency and security, and mitigates disruptions and risk</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 084 / <i>Improved Data Quality</i>

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

* EPC Data and AI Management efforts to implement enterprise data sharing and automated data quality assessment capabilities hosted in the Advana platform.

- These efforts deliver automated Data Quality (DQ) assessment capabilities applied to each data connection feeding data to the Federated Data Catalog.
- These enterprise data management capabilities are designed to enable improved decision-making capabilities for the Department's leadership using Authoritative Data Sources (ADS) connected to Advana applications, dashboards, models, and automated metrics.
- These efforts provide continuous design, development, and delivery of large-scale, enterprise data integration and automated data quality assessment services. These services are required to support senior leadership's efforts to make data-driven decisions while utilizing the Federated Data Catalog hosted in the Advana environment to discover, access and utilize enterprise data.

FY 2025 Plans:

In FY 2025, the CDAO will continue to address Joint Staff J4 operational logistics visibility strategic questions, use the Supply Chain Risk Evaluation Environment as a catalyst to construct supply chain risk & resiliency analytic portfolio and provide key marquee enterprise products (e.g., personnel, logistics, readiness, program evaluation) while enabling more self-service for enterprise customers through a comprehensive list of services and foundational high-quality products. Partner with DoD Components to establish the structure for the Department's analytic enterprise to develop and sustain quality analytical products that are scalable, transparent, and authoritative. Provide development and analytic framework to enable analytics aligned to DoD's functional areas and PSA responsibilities. Support the development of well-designed tools and products using AI/ML capabilities to raise data quality, advance analytic methods using modern tools, and solve customers' most urgent analytic challenges. Integrate enterprise analytics into executive decision support initiatives to provide quality, timely, and PSA-approved analytics. This includes analytics for Logistics, Financial Management, Readiness, Procurement, Acquisition, Health, Global Force Management, and People. Provide production tools to support campaign assessment and quantify strategic completion in support of the Secretary of defense. In addition, the CDAO will consolidate the search tools, increase the capability of generative Ai enable search and summarization, continue foundational data engineering on logistics data in support of future incidents, and participate in CCMD and service component command exercises to refine future information requirements. The CDAO will also create the automated data quality metrics in the Federated Data Catalog, including assessments of completeness, uniqueness, and timeliness, and tracking historical data quality through integration with the Federated Data Catalog hosted by Advana.

FY 2024 to FY 2025 Increase/Decrease Statement:

Starting in FY 2025, funding was realigned from P067 AI/ML Demonstration & Validation. The CDAO conducted large scale data quality improvement in the logistics and people space in partnership with USD(P&R) and USR(A&S) those effort transition to maintenance and management by data owners throughout FY 2024. In FY 2025, the CDAO

FY 2023	FY 2024	FY 2025

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
will produce primarily new enterprise data products that tackle the departments toughest data problems as well as cross cutting problems where data is too cross functional and interconnected for a component below DoD level to manage.			
Accomplishments/Planned Programs Subtotals	-	-	11.382

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Office of the Secretary Of Defense **Date:** March 2024

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities	Project (Number/Name) 084 / Improved Data Quality
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Improved Data Quality	C/Various	Improved Data Quality : Various	-	-		-		11.382		-		11.382	Continuing	Continuing	-
Subtotal			-	-		-		11.382		-		11.382	Continuing	Continuing	N/A

Remarks
 The on-going effort to improve the data quality for the DoD. The activity includes, not limited to logistics data, data and AI management. Beginning in FY 2025 Program Element funding was realigned and the schedule reflects the activity under the realigned PE even though these activities were conducted previously (therefore these activities are not new starts).

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	-	11.382	-	11.382	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 084 / <i>Improved Data Quality</i>

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Improved Data Quality																												
Data and AI Management																												
Selected Data Domain Quality Improvement																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604123D8Z / <i>Chief Digital and Artificial Intelligence Officer (CDAO) - Dem/Val Activities</i>	Project (Number/Name) 084 / <i>Improved Data Quality</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Improved Data Quality</i>				
Data and AI Management	1	2025	4	2029
Selected Data Domain Quality Improvement	1	2025	4	2029