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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Defense Threat Reduction Agency **Date:** March 2024

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604551BR / CATAPULT INFORMATION SYSTEM
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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	12.463	6.953	8.328	7.475	-	7.475	7.625	7.777	7.933	8.100	Continuing	Continuing
RA: <i>CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES</i>	12.463	6.953	8.328	7.475	-	7.475	7.625	7.777	7.933	8.100	Continuing	Continuing

A. Mission Description and Budget Item Justification

Catapult is a private cloud technology-based data analytics platform that provides a continuously augmented, real-time repository of data ingested from a variety of sources including government agencies, combatant commands, intelligence reports and open sources. The Catapult data lake and Attack the Network Tools Suite (ANTS) are adaptable to any National Defense Strategy mission problem set and provide national-level capabilities for data and information discovery, access, aggregation, correlation, visualization, analysis, sharing, and distribution for users from the strategic level to the tactical edge.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	7.130	8.328	7.475	-	7.475
Current President's Budget	6.953	8.328	7.475	-	7.475
Total Adjustments	-0.177	0.000	0.000	-	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.177	0.000			

Change Summary Explanation

There is no change from the previous President's Budget.

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Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604551BR / CATAPULT INFORMATION SYSTEM				Project (Number/Name) RA / CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES			
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
RA: CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES	12.463	6.953	8.328	7.475	-	7.475	7.625	7.777	7.933	8.100	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Catapult is a private cloud technology-based data analytics platform that provides a continuously augmented, real-time repository of data ingested from a variety of sources including government agencies, combatant commands, intelligence reports and open sources. The Catapult data lake and Attack the Network Tools Suite (ANTS) are adaptable to any National Defense Strategy mission problem set and provide national-level capabilities for data and information discovery, access, aggregation, correlation, visualization, analysis, sharing, and distribution for users from the strategic level to the tactical edge.

Catapult uses its RDT&E funding to meet user needs using tools and services that reside in Catapult, a cloud technology-based data analytics platform developed and delivered by DTRA that provides an extensible, continuously augmented, real-time repository of data on emerging threats and worldwide threat actors. Catapult is fully operational and accredited on the Secret Internet Protocol Router Network (SIPRNet) and Joint Worldwide Intelligence Communications System (JWICS). Catapult uses ANTS tools and services to provide national-level capabilities for data and information capture, discovery, access, aggregation, correlation, visualization, analysis, sharing, and distribution for users from the strategic level to the tactical edge.

This project achieves transformational mission capabilities and postures the Agency to meet emerging mission requirements through innovative technology solutions and service upgrades.

A. Mission Description and Budget Item Justification

This project enables DTRA's Catapult Information System Program to design, develop, test and deliver mission capabilities that support the ability to aggregate and analyze data on global emerging threats, threat actors and threat networks. Catapult allows DTRA to rapidly develop, engineer, test and deploy analytical tools, data science methodologies and software applications in support of the warfighter. Catapult and its associated Attack the Network Tool Suite (ANTS) integrates data sources that support the detection and identification of emerging threats, threat networks and actors, command and control, operations, intelligence, and engagement for neutralizing, attacking and defeating both current and emerging threats and threat networks.

Catapult uses its RDT&E funding to meet user needs using tools and services that reside in Catapult, a cloud technology-based data analytics platform developed and delivered by DTRA that provides an extensible, continuously augmented, real-time repository of data on emerging threats and worldwide threat actors. Catapult is fully operational and accredited on the Secret Internet Protocol Router Network (SIPRNet) and Joint Worldwide Intelligence Communications System (JWICS). The Catapult architecture pulls from more than 850 data sources on SIPRNet and more than 170 data sources on JWICS. Catapult uses ANTS tools and services to provide

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national-level capabilities for data and information capture, discovery, access, aggregation, correlation, visualization, analysis, sharing, and distribution for users from the strategic level to the tactical edge.

This project achieves transformational mission capabilities and postures the Agency to meet emerging mission requirements through innovative technology solutions and service upgrades.

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

	FY 2023	FY 2024	FY 2025
<p>Title: RA: CWMD Cross-Cutting Technical and Information Sciences</p> <p>Description: This project enables DTRA's Catapult Information System Program to design, develop, test, and deliver mission capabilities that support the ability to aggregate and analyze data on global emerging threats. Catapult allows DTRA to rapidly develop, engineer, test and deploy analytical tools, data science methodologies and software applications in support of the warfighter. The project achieves transformational mission capabilities and postures the Agency to meet emerging mission requirements through innovative technology solutions and service.</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Develop predictive Data Science models through supervised and unsupervised Machine Learning (ML) against current and emerging threats; including fusion of multi-INT data across unclassified and classified data sets to identify networks and locations of interest to DTRA and its mission partners. - Continue the modernization of Catapult's data model using JADC2-recognized formats, such as National Information Exchange Model (NIEM), or other open and recognized data model standards to improve the cross-compatibility of the Catapult corpus with other data repositories in the DoD. - Continue to standardize open API services to adhere to JADC2 recommendations to improve data accessibility by using familiar lexicon, formats and techniques for retrieving data by data-as-a-service subscribers and citizen data scientists. - Develop the Next Generation of the Catapult Information System to align to the Joint All Domain Command and Control and Joint Warfighting Concept. - Design and implement a cross domain solution to enable data sharing across enclaves. <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Conduct a cloud migration effort to transition Catapult "on-premise" components to a public cloud service provider according to plan approved during the Cloud Readiness Assessment. - Assess architecture, processes, and approaches to implement Catapult capabilities required to satisfy Zero Trust Architecture (ZTA) requirements. - Develop and implement prioritized work streams to enable mission specific use cases in isolated, secure Data Zones for exploration and analysis. 	6.953	8.328	7.475

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
- Plan, develop, build, and deploy an unclassified Catapult data lake for use with unclassified versions of ANTS applications and tools.			
FY 2024 to FY 2025 Increase/Decrease Statement: The decrease from FY 2024 to FY 2025 is due to a non-recurring increase in FY 2024 in response to emerging threats.			
Accomplishments/Planned Programs Subtotals	6.953	8.328	7.475

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• BA2/24/0602718BR: COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	29.047	37.218	21.986	-	21.986	22.538	26.949	23.627	24.113	Continuing	Continuing
• BA3/35/0603160BR: COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	70.234	86.415	82.711	-	82.711	76.041	76.146	86.289	88.165	Continuing	Continuing

Remarks
N/A

D. Acquisition Strategy
Assessment and selection of best performers to provide contractual services to develop and operationalize requirements through the IMAX contract to minimize cost and technical risk. Performer base selection includes research developers across DoD and other Government agency laboratories, academia, and industry.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Defense Threat Reduction Agency		Date: March 2024
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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

Catapult and Technology Analysis	
Catapult Information System Development	
Catapult Information System Test & Evaluation	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Defense Threat Reduction Agency		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Catapult and Technology Analysis</i>				
Catapult Information System Development	1	2023	4	2029
Catapult Information System Test & Evaluation	1	2023	4	2029