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**Department of Defense
Fiscal Year (FY) 2026 Budget Estimates**

June 2025



Defense Threat Reduction Agency

Defense-Wide Justification Book Volume 5 of 5

Research, Development, Test & Evaluation, Defense-Wide

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Defense Threat Reduction Agency • Budget Estimates FY 2026 • RDT&E Program

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DTRA Overview for PB26 Justification Books

Program Overview

The United States faces a highly competitive security environment characterized by diverse and dynamic weapons of mass destruction (WMD) threats across multiple domains. Consistent with national strategy and the Interim National Defense Strategic Guidance (INDSG), focused on *Peace Through Strength*, the Defense Threat Reduction Agency (DTRA) is focusing its efforts to counter threats from our strategic nation-state competitors with a focus on the INDOPACIFIC region. China and Russia are expanding and modernizing their nuclear forces, diversifying advanced conventional WMD delivery systems, and actively developing chemical, biological, radiological, and nuclear (CBRN) capabilities that directly threaten the homeland and American security. At the same time, Iran and North Korea are pursuing advanced warfighting capabilities to undermine regional security and global stability in ways that pose considerable risk to U.S. strategy and priorities. Additionally, the potential for natural or accidental release of biological pathogens or hazardous chemicals contributes to an evolving, destabilizing, and dynamic CBRN threat environment.

“China remains intent on modernizing, diversifying, and expanding its nuclear posture. China’s nuclear weapons and advanced delivery systems pose a direct threat to the Homeland and are capable of delivering catastrophic damage to the United States and threatening U.S. military forces here and abroad.

China most likely possesses capabilities relevant to chemical and biological warfare (CBW) that pose a threat to U.S., allied, and partner forces as well as civilian populations.” [Annual Threat Assessment, 2025, ODNI]

DTRA’s Fiscal Year (FY) 2026 budget request invests in delivering the technologies, methodologies, and capabilities required to counter WMD threats and mitigate risk while enabling DoD, the United States Government (USG), and international partners to deter strategic attacks against the United States and its Allies; prevent, reduce, and counter WMD and emerging CBRN threats; and prevail against WMD-armed adversaries in crisis and conflict. In FY 2024, DTRA received an unmodified audit opinion (the highest level of opinion possible), leading the way within the Department and proving that DTRA is accountable for the taxpayer funds entrusted to us.

DTRA’s strategic priorities align with the priorities of the 2025 INDSG, the Nuclear Posture Review, and other strategic guidance documents directing DoD to meet national security goals through deterrence and supporting warfighter lethality and resilience. DTRA aligns operations, activities, and investments primarily focused on China’s WMD threats, but also addresses other adversaries and high-risk regional destabilizers. In its dual roles as a Defense and Combat Support Agency, DTRA is committed to achieving concrete outcomes and strategic effects through its five core functions:

- Ensuring a reliable, resilient strategic deterrent through nuclear surety, mission assurance, and crisis response activities;
- Developing and delivering technical capabilities to the warfighter across the WMD threat spectrum;
- Preventing, reducing and eliminating CBRN threats through targeted and focused risk reduction, arms control, and partner capacity building and warfighter support;

DTRA Overview for PB26 Justification Books

- Providing strategic and operational support through subject matter expertise, technical reach back, tailored analysis, and exercise support; and
- Supporting the Joint Force with plans, concepts, exercises and materiel solutions to address CBRN operational and strategic risks.

As a Combat Support Agency, DTRA remains focused on identifying, developing, and delivering solutions and capabilities required to counter WMD and emerging CBRN threats specifically posed by China, but also applicable to those from Russia, North Korea, and Iran. DTRA supports whole-of-government efforts to prevent the acquisition, proliferation, and use of WMD and associated materials and to confound the decision calculus of WMD-armed adversaries. Given the CBRN-related challenges posed by WMD-armed actors, DTRA will continue to enhance its crisis response readiness and its ability to posture for crisis and conflict.

DTRA's enduring partnerships at the international level, within the DoD, and across the USG, are among the Agency's greatest strengths. DTRA will carefully focus these relationships to better align with whole-of-government activities targeting WMD challenges in accordance with Department priorities. This includes emphasis on collaboration and integration with allies and partners in ways that create enduring advantages for DoD and the USG.

By focusing on addressing these challenges in integrated and cross-cutting ways, DTRA can leverage its highly skilled workforce of subject matter experts to provide the full spectrum of support to counter WMD threats.

The RDT&E portfolio is aligned to support the Department's priorities specifically oriented toward China's WMD development and addresses complex WMD threat problems for the warfighter. This includes understanding the environment, threats, and vulnerabilities; controlling, defeating, disabling, and disposing of threats; and enhancing DoD's ability to safeguard the force and manage consequences and outcomes. DTRA accomplishes this through five integrated thrust areas:

- Understand current and emerging WMD situations, threats, and capabilities: Improve nuclear and radiological hazard assessment techniques, methodologies, and analytic tools (including the use of high-confidence modeling);
- Deny adversary benefits of WMD use: Develop innovative technologies and concepts of operation that enable survivable, hardened, and resilient Joint Forces, which deter adversaries from WMD use;
- Control, reduce, disable, and defeat WMD and emerging threats: Develop and improve direct or indirect physical or functional defeat of WMD threats, as well as capabilities that render adversary WMD programs and systems inoperable, harmless, or nonexistent prior to weapon employment;
- Enhance lethality, protect the Joint Force, and mitigate crisis from WMD: Protect mounted and dismounted forces, reduce casualties, and degrade adversaries' abilities to disrupt operations using chemical, biological, nuclear, and emerged threats attacks;
- Enable cross-cutting capabilities: Model system vulnerabilities and the effects of CBRN warfare on existing networks and infrastructure, as well as the compounding and cascading consequences across dependent networks with complex post-attack/detonation timelines; and improve test instrumentation capability and capacity for test data capture, integration and use.

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Department of Defense
 FY 2026 President's Budget
 Exhibit R-1 FY 2026 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Jun 2025

<u>Appropriation</u>	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
Research, Development, Test and Evaluation, Defense-Wide	689,622	637,833		637,833	614,113		614,113
Total Research, Development, Test, & Evaluation	689,622	637,833		637,833	614,113		614,113

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Department of Defense
 FY 2026 President's Budget
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 (Dollars in Thousands)

Jun 2025

	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
<u>Summary Recap of Budget Activities</u>							
Basic Research	21,387	15,311		15,311	15,643		15,643
Applied Research	209,202	170,615		170,615	161,495		161,495
Advanced Technology Development	398,369	410,112		410,112	393,469		393,469
Advanced Component Development & Prototypes	8,117	7,475		7,475	4,161		4,161
System Development & Demonstration	23,129	24,281		24,281	24,504		24,504
Management Support	29,418	10,039		10,039	14,841		14,841
Total Research, Development, Test, & Evaluation	689,622	637,833		637,833	614,113		614,113
<u>Summary Recap of FYDP Programs</u>							
Research and Development	689,622	637,833		637,833	614,113		614,113
Total Research, Development, Test, & Evaluation	689,622	637,833		637,833	614,113		614,113

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Defense-Wide
 FY 2026 President's Budget
 Exhibit R-1 FY 2026 President's Budget
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 (Dollars in Thousands)

Jun 2025

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Research and Development	689,622	637,833		637,833	614,113		614,113
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Defense-Wide
 FY 2026 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

Jun 2025

<u>Appropriation</u>	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
Defense Threat Reduction Agency	689,622	637,833		637,833	614,113		614,113
Total Research, Development, Test and Evaluation, Defense- Wide	689,622	637,833		637,833	614,113		614,113

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Defense-Wide
 FY 2026 President's Budget
 Exhibit R-1 FY 2026 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Jun 2025

Appropriation: 0400D Research, Development, Test and Evaluation, Defense-Wide

Line No	Program Element Number	Item	Act	Sec	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2026	FY 2026
					Actuals	Enacted	Supplemental	Total	Disc Request	Reconciliation Request	Total
1	0601000BR	DTRA Basic Research	01	U	21,387	15,311		15,311	15,643		15,643
		Basic Research			21,387	15,311		15,311	15,643		15,643
28	0602718BR	Counter Weapons of Mass Destruction Applied Research	02	U	209,202	170,615		170,615	161,495		161,495
		Applied Research			209,202	170,615		170,615	161,495		161,495
40	0603160BR	Counter Weapons of Mass Destruction Advanced Technology Development	03	U	390,581	410,112		410,112	393,469		393,469
41	0603176BR	Advanced Concepts and Performance Assessment	03	U	7,788						
		Advanced Technology Development			398,369	410,112		410,112	393,469		393,469
113	0604551BR	Catapult Information System	04	U	8,117	7,475		7,475	4,161		4,161
		Advanced Component Development & Prototypes			8,117	7,475		7,475	4,161		4,161
146	0605000BR	Counter Weapons of Mass Destruction Systems Development	05	U	14,049	14,841		14,841	14,931		14,931
152	0605141BR	Mission Assurance Risk Management System (MARMS)	05	U	9,080	9,440		9,440	9,573		9,573
		System Development & Demonstration			23,129	24,281		24,281	24,504		24,504
181	0605502BR	Small Business Innovation Research	06	U	17,801						
206	0606853BR	Management, Technical & International Support	06	U	11,617	10,039		10,039	14,841		14,841
		Management Support			29,418	10,039		10,039	14,841		14,841
Total Research, Development, Test and Evaluation, Defense-Wide					689,622	637,833		637,833	614,113		614,113

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Defense Threat Reduction Agency
 FY 2026 President's Budget
 Exhibit R-1 FY 2026 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Jun 2025

Appropriation: 0400D Research, Development, Test and Evaluation, Defense-Wide

Line No	Program Element Number	Item	Act	Sec	FY 2024 Actuals	FY 2025 Enacted	FY 2025 Supplemental	FY 2025 Total	FY 2026 Disc Request	FY 2026 Reconciliation Request	FY 2026 Total
1	0601000BR	DTRA Basic Research	01	U	21,387	15,311		15,311	15,643		15,643
		Basic Research			21,387	15,311		15,311	15,643		15,643
28	0602718BR	Counter Weapons of Mass Destruction Applied Research	02	U	209,202	170,615		170,615	161,495		161,495
		Applied Research			209,202	170,615		170,615	161,495		161,495
40	0603160BR	Counter Weapons of Mass Destruction Advanced Technology Development	03	U	390,581	410,112		410,112	393,469		393,469
41	0603176BR	Advanced Concepts and Performance Assessment	03	U	7,788						
		Advanced Technology Development			398,369	410,112		410,112	393,469		393,469
113	0604551BR	Catapult Information System	04	U	8,117	7,475		7,475	4,161		4,161
		Advanced Component Development & Prototypes			8,117	7,475		7,475	4,161		4,161
146	0605000BR	Counter Weapons of Mass Destruction Systems Development	05	U	14,049	14,841		14,841	14,931		14,931
152	0605141BR	Mission Assurance Risk Management System (MARMS)	05	U	9,080	9,440		9,440	9,573		9,573
		System Development & Demonstration			23,129	24,281		24,281	24,504		24,504
181	0605502BR	Small Business Innovation Research	06	U	17,801						
206	0606853BR	Management, Technical & International Support	06	U	11,617	10,039		10,039	14,841		14,841
		Management Support			29,418	10,039		10,039	14,841		14,841
Total Defense Threat Reduction Agency					689,622	637,833		637,833	614,113		614,113

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Line #	Budget Activity	Program Element Number	Program Element Title	Page
1	01	0601000BR	DTRA BASIC RESEARCH.....	Volume 5 - 1

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line #	Budget Activity	Program Element Number	Program Element Title	Page
28	02	0602718BR	COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH.....	Volume 5 - 7

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line #	Budget Activity	Program Element Number	Program Element Title	Page
40	03	0603160BR	COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT.....	Volume 5 - 27
41	03	0603176BR	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT.....	Volume 5 - 47

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Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line #	Budget Activity	Program Element Number	Program Element Title	Page
113	04	0604551BR	CATAPULT INFORMATION SYSTEM.....	Volume 5 - 51

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Line #	Budget Activity	Program Element Number	Program Element Title	Page
146	05	0605000BR	COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT.....	Volume 5 - 59
152	05	0605141BR	MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS).....	Volume 5 - 73

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181	06	0605502BR	SMALL BUSINESS INNOVATION RESEARCH.....	Volume 5 - 81
206	06	0606853BR	MANAGEMENT TECHNICAL AND INTERNATIONAL SUPPORT.....	Volume 5 - 85

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CATAPULT INFORMATION SYSTEM	0604551BR	113	04.....	Volume 5 - 51
COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	0603160BR	40	03.....	Volume 5 - 27
COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	0602718BR	28	02.....	Volume 5 - 7
COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	0605000BR	146	05.....	Volume 5 - 59
DTRA BASIC RESEARCH	0601000BR	1	01.....	Volume 5 - 1
MANAGEMENT TECHNICAL AND INTERNATIONAL SUPPORT	0606853BR	206	06.....	Volume 5 - 85
MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)	0605141BR	152	05.....	Volume 5 - 73
SMALL BUSINESS INNOVATION RESEARCH	0605502BR	181	06.....	Volume 5 - 81

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*All figures in this exhibit are for the FY 2026 discretionary appropriations
President's Budget request unless otherwise noted.*

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 1: Basic Research					R-1 Program Element (Number/Name) PE 0601000BR / DTRA BASIC RESEARCH							
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	428.749	21.387	15.311	15.643	0.000	15.643	-	-	-	-	-	-
RU: BASIC RESEARCH FOR COUNTERING WMD	428.749	21.387	15.311	15.643	-	15.643	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Basic Research for Countering Weapons of Mass Destruction (CWMD) project, as the nation’s primary basic research portfolio dedicated to CWMD, is a core strategic investor in future scientific and technological progress across the Defense Threat Reduction Agency’s (DTRA) mission areas. This project concentrates on high-risk, high-payoff basic research, leveraging world-class expertise in academia, government, and industry, to increase the foundational body of scientific knowledge supporting DTRA’s Applied Research and Advanced Technology Development projects. This project aligns with DTRA’s strategic objectives that support policy and planning guidance from the Executive Office of the President, the Department of Defense (DoD), and the broader Weapons of Mass Destruction (WMD) threat reduction community. The portfolio addresses this guidance through capability enhancements, projects, and Science and Technology (S&T) investments that support CWMD. Specifically, they include: accelerating the development of standoff radiological/nuclear detection capabilities; securing vulnerable materials; defeating WMD agents; strategic radiation hardened microelectronics; and leveraging science, technology, and innovation through domestic partnerships and agreements.

This project solicits, coordinates, and conducts research to build a robust, forward-looking fundamental research portfolio targeting strategic, mission-focused, basic research with high potential impact for CWMD. The research projects are selected for scientific merit, technical quality, and the potential for innovation. Each research project offers opportunities to expand the knowledge base to help the warfighter, to bring to bear new science solutions with a fresh approach, or to leverage revolutionary approaches to technical surprise, building a foundation for future CWMD solutions. This research will enable new capabilities to control, defeat, disable, and/or dispose of WMD threats.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	14.761	15.311	15.897	-	15.897
Current President's Budget	21.387	15.311	15.643	-	15.643
Total Adjustments	6.626	0.000	-0.254	0.000	-0.254
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	7.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.177	0.000			
• SBIR/STTR Transfer	-0.551	0.000			
• Realignment	0.000	0.000	-0.254	-	-0.254

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency	Date: June 2025
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 1: <i>Basic Research</i>	R-1 Program Element (Number/Name) PE 0601000BR / <i>DTRA BASIC RESEARCH</i>
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Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: RU: *BASIC RESEARCH FOR COUNTERING WMD*

Congressional Add: *Materials Science in Extreme Environments*

Congressional Add Subtotals for Project: RU

Congressional Add Totals for all Projects

	FY 2024	FY 2025
	7.000	0.000
	7.000	0.000
	7.000	0.000

Change Summary Explanation

No changes to investment. The increase from FY 2025 to FY 2026 is due to the combined impact of applying inflation and the reductions below.

- 1) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative.
- 2) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency										Date: June 2025		
Appropriation/Budget Activity 0400 / 1					R-1 Program Element (Number/Name) PE 0601000BR / DTRA BASIC RESEARCH				Project (Number/Name) RU / BASIC RESEARCH FOR COUNTERING WMD			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RU: BASIC RESEARCH FOR COUNTERING WMD	428.749	21.387	15.311	15.643	-	15.643	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Basic Research for Countering Weapons of Mass Destruction (CWMD) project, as the nation’s primary basic research portfolio dedicated to CWMD, is a core strategic investor in future scientific and technological progress across the Defense Threat Reduction Agency’s (DTRA) mission areas. This project concentrates on high-risk, high-payoff basic research, leveraging world-class expertise in academia, government, and industry, to increase the foundational body of scientific knowledge supporting DTRA’s Applied Research and Advanced Technology Development budget activities.

This project aligns with DTRA’s strategic objectives that support policy and planning guidance from the Executive Office of the President, the Department of Defense, and the broader Weapons of Mass Destruction (WMD) threat reduction community. The portfolio addresses this guidance through capability enhancements, projects and Science and Technology (S&T) investments that support CWMD. Specifically, they include accelerating the development of standoff radiological/nuclear detection capabilities; securing vulnerable materials; defeating WMD agents; strategic radiation hardened microelectronics; and leveraging science, technology, and innovation through domestic partnerships and agreements.

This project solicits, coordinates, and conducts research to build a robust, forward-looking fundamental research portfolio targeting strategic, mission-focused, basic research with high potential impact for CWMD. The research projects are selected for scientific merit, technical quality, and the potential for innovation. Each research project offers opportunities to expand the knowledge base to help the warfighter, to bring to bear new science solutions with a fresh approach, or to leverage revolutionary approaches to technical surprise, building a foundation for future CWMD solutions. This research will enable new capabilities to control, defeat, disable, and/or dispose of WMD threats.

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

	FY 2024	FY 2025	FY 2026
Title: Project RU: Basic Research for Countering WMD	14.387	15.311	15.643
Description: The Basic Research for CWMD project, as the nation’s primary basic research portfolio dedicated to CWMD, is a core strategic investor in future scientific and technological progress across the DTRA mission areas. This project concentrates on high-risk, high-payoff basic research, leveraging world-class expertise in academia, government, and industry, to increase the foundational body of scientific knowledge supporting DTRA’s Applied Research and Advanced Technology Development budget activities.			
FY 2025 Plans:			
- Maintain two University Research Alliances			
University Research Alliances: Materials Science in Extreme Environments:			
- Complete or mature foundational research (progress is performer-specific) in the areas of enhanced computational modeling for agent defeat scenarios, and quantification of uncertainty in nuclear blast simulation modeling.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 1	R-1 Program Element (Number/Name) PE 0601000BR / DTRA BASIC RESEARCH	Project (Number/Name) RU / BASIC RESEARCH FOR COUNTERING WMD

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<p>- Finalize experimental scaling of ablation of targets using optical lasers and X-rays validated by experiments to measure and predict shock impact from nuclear blasts. Transition machine learning analysis in hyperspectral imaging, high speed spectroscopy, and in-situ visualization.</p> <p>University Research Alliances: Interaction of Ionizing Radiation with Matter:</p> <p>-Complete or mature foundational research (progress is performer-specific) including the development and assessment of low-cost methods for assessing chip vulnerability, and implementation of Artificial Intelligence-driven modeling techniques to develop novel semiconductor systems.</p> <p>-Demonstrate enhanced energy resolution from scintillators through a computationally driven surface engineering of photonic crystal structures. Construct machine learning models that can rapidly identify synthesizable materials which are verifiable by theory, simulation, and experiments.</p> <p>FY 2026 Plans:</p> <p>Maintain two University Research Alliances</p> <p>University Research Alliances: Materials Science in Extreme Environments:</p> <p>- Advance knowledge of how materials behave, and chemistries evolve within extreme WMD environments.</p> <p>- Implement machine learning analysis techniques in hyperspectral imaging, high speed spectroscopy, and in-situ visualization.</p> <p>- Develop Artificial Intelligence-based predictions of material behavior.</p> <p>-Transition models, simulations, materials, and analysis techniques to applied research partners.</p> <p>- Initiate rapid response projects to enable new research areas and transitions.</p> <p>- Transition students, postdoctoral researchers (“post docs”), and scientists into critical roles within the DoD and Department of Energy (DOE).</p> <p>- Expand internship and exchange programs with DoD laboratory partners.</p> <p>- Expand workshop and professional development opportunities for students, postdocs, active duty, and DoD civilians.</p> <p>University Research Alliances: Interaction of Ionizing Radiation with Matter:</p> <p>- Research on the impact of Artificial Intelligence on materials modeling.</p> <p>- Increase understanding of material properties and radiation interactions to continue transformative improvements in energy resolution using low-cost solids with high structural flexibility.</p> <p>-Transition models, simulations, materials, and analysis techniques to applied research.</p> <p>- Initiate rapid response projects to enable new research areas and transitions.</p> <p>- Expand Sea Air and Land Challenge and other Science, Technology, Engineering, and Mathematics outreach initiatives engaging a greater number of schools and participants.</p> <p>- Prepare students, postdocs, and researchers for critical roles within the DoD and DOE.</p> <p>FY 2025 to FY 2026 Increase/Decrease Statement:</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 1	R-1 Program Element (Number/Name) PE 0601000BR / DTRA BASIC RESEARCH	Project (Number/Name) RU / BASIC RESEARCH FOR COUNTERING WMD

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
The increase from FY 2025 to FY 2026 is due to inflation.			
Accomplishments/Planned Programs Subtotals	14.387	15.311	15.643

	FY 2024	FY 2025
Congressional Add: Materials Science in Extreme Environments	7.000	0.000
FY 2024 Accomplishments: - Congressional add funding executed by the Material Science in Extreme Environments University Research Alliances led by John Hopkins supporting critical technology areas such as artificial intelligence, machine learning, and model and materials development, with a focus on Technology Readiness Level advancement and transitions. - Increased funding provided for nine principal Material Science in Extreme Environments investigators, research labor, university research equipment to further research and workforce development support.		
FY 2025 Plans: N/A		
Congressional Adds Subtotals	7.000	0.000

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

N/A

Remarks

D. Acquisition Strategy

Procurement methods include competitive selection awards through university partnerships, DTRA's Broad Agency Announcement, and collaborative funding through other organizations.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 2: Applied Research</i>	R-1 Program Element (Number/Name) PE 0602718BR / <i>COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH</i>
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	1,293.436	209.202	170.615	161.495	0.000	161.495	-	-	-	-	-	-
RA: <i>CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES</i>	457.310	38.239	17.202	16.672	-	16.672	-	-	-	-	-	-
RD: <i>NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT</i>	436.687	119.470	102.812	99.178	-	99.178	-	-	-	-	-	-
RG: <i>CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT</i>	216.736	31.621	33.193	27.182	-	27.182	-	-	-	-	-	-
RR: <i>CWMD TEST AND EVALUATION</i>	182.703	19.872	17.408	18.463	-	18.463	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Counter Weapons of Mass Destruction (CWMD) Cross-Cutting Technical and Information Sciences project develops concepts and technologies in the areas of high-speed information processing, modeling and simulation, signal detection, and data-driven decision analysis in support of the Defense Threat Reduction Agency's (DTRA's) technical reachback teams. This project develops and maintains continuously improving collaborative architectures and Weapons of Mass Destruction (WMD) modeling and simulation codes that drive an integrated suite of decision support tools serving the Combatant Commands, other Department of Defense (DoD) agencies, and national and international CWMD partners. This effort also funds research activities that benefit the public through analysis and engagement to reduce and counter threats posed by WMD via the Strategic Trends Research Initiative. Strategic Trends Research Initiative cultivates national and international research community partnerships across domains, bringing scientific, technical, and social science experts together to help understand and anticipate WMD capabilities and threats.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 2: Applied Research</i>	R-1 Program Element (Number/Name) PE 0602718BR / <i>COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH</i>
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B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	208.870	174.955	180.404	-	180.404
Current President's Budget	209.202	170.615	161.495	-	161.495
Total Adjustments	0.332	-4.340	-18.909	0.000	-18.909
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-9.340			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	11.350	5.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	-0.177	0.000			
• SBIR/STTR Transfer	-5.568	0.000			
• Realignment	-0.273	0.000	-18.909	-	-18.909
• Program Adjustments	-5.000	0.000	-	-	-

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

Project: RD: *NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT*

Congressional Add: *Crowd Sourced AI for Detection*

Congressional Add Subtotals for Project: RD

Project: RG: *CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT*

Congressional Add: *Advanced Manufacturing of Energetics*

Congressional Add: *Diagnostic evaluation of transient turbulence*

Congressional Add Subtotals for Project: RG

Congressional Add Totals for all Projects

	FY 2024	FY 2025
	6.350	0.000
	6.350	0.000
	5.000	0.000
	0.000	5.000
	5.000	5.000
	11.350	5.000

Change Summary Explanation

The current President's Budget request is a decrease from the previous President's Budget. The decrease is due to the combined impact of the following reductions and realignments:

- Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative.
- Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."
- Program reduction in Fourth Estate Science and Technology Funding by 2%.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency Date: June 2025

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 2: Applied Research</i>	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH
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- Program reduction in Federally Funded Research and Development Center support.
- Realignment from Project RA – CWMD Cross-Cutting Technical and Information Sciences to DTRA's Operation and Maintenance (O&M) account for the Agency's Chief Data and Artificial Intelligence Office and for the transition of information technology transformation investments to sustainment.
- Realignment to increase investment in Project RD – Nuclear Technologies and Capabilities Development for nuclear environments, effects, and survivability analysis and risk mitigation for U.S. space assets (space-based and ground-based).
- Realignment to increase investment for research into the current pacing threat of Directed Energy Weapons by conducting a study of capabilities and potential future threat levels through 2030.
- Realignment from Project RD – Nuclear Technologies and Capabilities Development to DTRA's O&M account to fund higher priority requirements aligned to Defense budget priorities.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RA / CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RA: CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES	457.310	38.239	17.202	16.672	-	16.672	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Counter Weapons of Mass Destruction (CWMD) Cross-Cutting Technical and Information Sciences project develops concepts and technologies in the areas of high-speed information processing, modeling and simulation, signal detection, and data-driven decision analysis in support of the Defense Threat Reduction Agency's (DTRA's) technical reachback teams. This project develops and maintains continuously improving collaborative architectures and Weapons of Mass Destruction (WMD) modeling and simulation codes that drive an integrated suite of decision support tools serving the Combatant Commands, other Department of Defense (DoD) agencies, and national and international CWMD partners. This effort also funds research activities that benefit the public through analysis and engagement to reduce and counter threats posed by WMD via the Strategic Trends Research Initiative. Strategic Trends Research Initiative cultivates national and international research community partnerships across domains, bringing scientific, technical, and social science experts together to help understand and anticipate WMD capabilities and threats.

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

	FY 2024	FY 2025	FY 2026
Title: RA: CWMD Cross-Cutting Technical and Information Sciences	38.239	17.202	16.672
Description: Project RA develops concepts and technologies in the areas of high-speed information processing, modeling and simulation, signal detection, and data-driven decision analysis.			
FY 2025 Plans:			
- Expand and modernize container technology capabilities integrated with cybersecurity framework methodologies (Zero Trust) within the DTRA Experimentation (computing) Lab's development, security, and operations (DevSecOps) pipeline. This will enable a more secure, agile, and efficient System Development Life Cycle coupled with DoD Enterprise Cloud Environment to create a hybrid on-premise/Cloud solution to meet DTRA mission needs and DoD software development mandates.			
- Increase security modernization of the DTRA Experimentation (computing) Lab's unclassified and DTRA Experimentation (computing) Lab's classified enclaves meeting Defense Information Systems Agency -mandated Risk Management Framework and Continuous Monitoring measurements for an Authority To Operate, to include robust Zero Trust and Comply-to-Connect solutions.			
- Provide ready access to the DoD High Performance Computing Modernization Program resources enabling researchers to rapidly perform detailed computer simulations integral to the successful execution of DTRA's Research & Development Mission.			
- Enable performance engineers and DTRA application teams to collaborate, modernize and optimize the heavily used High Fidelity computer codes for existing and future High-Performance Computing architectures.			
- Provide advanced information technology engineering and component architecture development and integration.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEAR CH	Project (Number/Name) RA / CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Identify legacy code for application modernization for more productive provisioning of High-Performance Computing assets. - Facilitate technical exchanges with partners in 14+ countries and with all geographic and functional Combatant Commands to improve understanding of and refine requests to align developmental CWMD capabilities with critical warfighter needs. - Conduct technology demonstration events for at least two Combatant Commands to showcase capability solutions addressing critical theater CWMD requirements in cooperation with key U.S. allies and increase early joint force operational input to CWMD capability development. - Generate timely and actionable recommendations on countering and mitigating current and future WMD trends and challenges. - Conduct timely and relevant strategic studies and dialogues with international partners to facilitate year-upon-year learning on anticipated future challenges. - Refine strategic research projects to improve tangible outcomes and actionable recommendations for future activities to deter and counter WMD threats. - Provide in-depth research and analysis to anticipate, assess, and address key challenges related to strategic stability, strategic competition, multipolar escalation dynamics, limited WMD development and use, and other WMD threat trends by leveraging expert community resources. - Sponsor external research on strategic WMD and emerging threat topics and execution of bilateral, trilateral, and multilateral strategic dialogues with allies/partners. <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Facilitate technical exchanges with geographic and functional Combatant Commands, military services, and international and interagency partners to improve understanding of and refine CWMD research and development requirements. - Provide high-performance scientific computing capability to WMD communities of interest. - Utilize high-performance scientific computing to inform modernization and optimization of High Fidelity computer codes for existing and future high-performance computing architectures. - Utilize DTRA's Experimental (computing) Lab secure, containerized DevSecOps pipeline to modernize CWMD specific software and systems. - Provide customers access to a secure, virtual, System or Software Development Environment to test CWMD specific software. - Generate timely and actionable recommendations on countering and mitigating current and future WMD trends and challenges. - Conduct timely and relevant strategic studies and dialogues with international partners to facilitate year-upon-year learning on anticipated future challenges. - Refine strategic research projects to improve tangible outcomes and actionable recommendations for future activities to deter and counter WMD threats. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RA / CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
- Provide in-depth research and analysis to anticipate, assess, and address key challenges related to strategic stability, strategic competition, multipolar escalation dynamics, limited WMD development and use, and other WMD threat trends by leveraging expert community resources. - Sponsor external research on strategic WMD and emerging threat topics and execution of bilateral, trilateral, and multilateral strategic dialogues with allies/partners.			
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> The decrease from FY 2025 to FY 2026 is due to the combined reductions and realignment below: 1) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 2) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 3) Realignment from Project RA – CWMD Cross-Cutting Technical and Information Sciences to DTRA's O&M account for the Agency's Chief Data and Artificial Intelligence Office and for the transition of information technology transformation investments to sustainment.			
Accomplishments/Planned Programs Subtotals	38.239	17.202	16.672

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• 0604551BR/RA: CATAPULT INFORMATION SYSTEM	8.117	7.475	4.161	-	4.161	-	-	-	-	-	-
• 0605502BR/RA: SMALL BUSINESS INNOVATION RESEARCH	17.801	0.000	0.000	-	0.000	-	-	-	-	-	-
• 0603160BR/RA: COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	75.766	74.806	63.598	-	63.598	-	-	-	-	-	-

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RA / CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES

D. Acquisition Strategy

Competitive selection of most appropriate performers to fulfill science and technology development needs.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RD: NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT	436.687	119.470	102.812	99.178	-	99.178	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Nuclear Technologies and Capabilities Development encompasses the following related areas:

RDT&E to identify, develop, and exploit signatures associated with nuclear threats in support of U.S. capabilities that detect and interdict such threats; and locate, identify, and track special nuclear material and improve detection factors such as range, time, sensitivity, and accuracy to enhance Service and Special Mission Unit capabilities. These efforts support Department of Defense (DoD) requirements for counterproliferation, nonproliferation, countering emerging threats, and homeland defense.

RDT&E to study signatures associated with adversary nuclear programs and nuclear detonations to gain knowledge or understanding necessary to: determine technical capabilities needed to improve DoD contingency planning activities; improve DoD situational awareness on the nuclear battlefield; and improve capabilities to attribute the source of a nuclear detonation.

Research and develop innovative technologies for the protection of mission-essential personnel, critical military and national defense capabilities, and associated control and support systems during a nuclear event. Research under this project supports the mission critical systems identified under DoD Instruction 3150.09, Chemical, Biological, Radiological, and Nuclear Survivability Policy. System vulnerability research develops nuclear assessment capabilities to support operational planning, weapons effects predictions, and strategic system design. This activity also provides the DoD's nuclear design and protection standards for new and existing systems, e.g., command and control facilities and aircraft. Key systems include the Nuclear Command and Control System, the net-centric thin-line, and both military and civilian satellites and associated support systems. Experimental capabilities research provides the warfighter with unique x-ray, gamma ray, and electromagnetic pulse test capabilities in support of system survivability development, certification, and sustainment. These efforts also support international collaboration, user groups, case study reviews, and the Joint Atomic Information Exchange Group. The human survivability effort conducts research to develop and validate mortality and morbidity models associated with radiological and nuclear weapon effects.

Research and develop modeling tools to support military operational planning, weapons effects predictions, and strategic system design decisions; consolidate validated modeling tools for integrated functionality; predict system responses to nuclear and radiological weapons producing electromagnetic, thermal, blast, shock, and radiation environments; provide detailed adversary nuclear infrastructure characterization to enhance counterforce operations and hazard effects; and, develop foreign nuclear weapon outputs.

Delivers integrated applications, data analysis, and cloud-ready Artificial Intelligence-enhanced capabilities, using a cross-cutting platform supporting the full spectrum of nuclear operations, wargaming, and assessments. Provides timely electronic access to Nuclear Testing Archives supporting validation of the effectiveness of the Nuclear Deterrent and survivability of U.S. military assets without a return to nuclear testing.

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Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

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

	FY 2024	FY 2025	FY 2026
<p>Title: RD: Nuclear Technologies and Capabilities Development</p> <p>Description: Project RD develops direct and indirect technologies for the detection of radiation and non- radiative signatures associated with nuclear threats, and advances warfighter capabilities to rapidly locate, characterize, and counter such threats.</p> <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Implement Mission Impacts of Nuclear Events Software for adjudication of nuclear play in four Service, four Combatant Command, two Joint Staff, four DTRA, two US Forces Korea, and four Five Eyes/North Atlantic Treaty Organization (NATO) wargames and exercises. - Complete prototype for next-generation radionuclide particulate collection and analysis system for the International Monitoring System for greater awareness of nuclear testing activities in denied areas. - Deliver improved nuclear weapons environment models that improve vulnerability assessments, reduce uncertainty of fratricide and thermal effects on military systems, and reduce uncertainty from nuclear ground shock. - Deliver improved structure damage models from nuclear air blast insults. - Deliver improved lower-altitude nuclear disturbed environment tools and additional electromagnetic pulse models to contribute to Nuclear Command, Control and Communications modernization efforts, United States Air Force Ground Based Strategic Deterrent, and United States Navy Strategic Systems Programs modernization. - Deliver Electromagnetic Reliability and Effects Prediction toolsets with relevant test data for technical reachback, exercise support, and data visualization of unhardened electromagnetic pulse effects to support nuclear verification and survivability. - Complete Phase 2 of the Comprehensive Endo-/Exo-Atmospheric Nuclear Environment Standard Nuclear Survivability Military Standards revision in support of acquisition programs survivability certification and compliance efforts. - Support Nuclear Weapons Effects survivability testing at the National Ignition Facility; execute experiments for the optimization of X-ray, neutron, and combined environment sources for strategic testing at the National Ignition Facility; and support 41 weeks of strategic user testing and 14 weeks of development testing at the West Coast Facility. - Demonstrate operating capability of Pithon II X-ray Simulator and demonstrate mixed gas and multishell nozzle cold x-ray generation platforms on Quad Eagle. - Transition prototype sensors to replace Geiger tubes for high-dose rate applications to reduce the size, weight, power, and increase the actionable information available to end-users during Conventional Nuclear Integration warfighting. - Develop a prototype Cadmium Zinc Telluride-based multi-function diagnostics tool and perform early operational assessments with end-users to reduce the size, weight, and power, while increasing performance of radiation sensors. - Develop novel nuclear search algorithms, including those that use novel machine learning approaches to improve threat identification software. 	113.120	102.812	99.178

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

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

	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Integrate new capabilities into the Comprehensive Nuclear Effects Model to improve the model’s underground facility response to nuclear strike, model fire ignition and spread from nuclear strike. - Integrate nuclear incident analytic outputs with command and control and geospatial systems in a chemical, biological, radiological, and nuclear (CBRN) warning and reporting networks testbed to provide enhanced situational awareness in support of Conventional Nuclear Integration. Analytics to include yield, height of burst, near-real time hazard prediction and decision support outputs. - Improve Over the Horizon Arms Control capability, replacing Arms Control Enterprise System with a modern application hosted on the Nuclear, Chemical, Biological, Radiological, and high Explosive Analysis Toolset platform in support of arms control monitoring modernization. - Expand and advance Optical Character Recognition and multimedia (video) Artificial Intelligence/Machine Learning methods to increase discoverability of the Defense Threat Reduction Information Analysis Center multimedia collection to support research in the DoD nuclear weapons community. <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Provide actionable information on radiological and nuclear threats across the full range of future contested operating environments; develop foundational techniques to improve radiation mapping capabilities to increase stand-off and reduce the amount of time DoD forces need to spend in radioactive environments; improve sensor electronics to be able to survive harsh maritime, arctic, and highly radioactive environments. - Develop foundational nuclear weapons effects capabilities to enable DoD, National Nuclear Security Administration and United Kingdom (UK) to predict nuclear weapons effects to support strategic contingency planning, including collateral damage estimation. - Expand authoritative DoD data availability on stockpile, foreign, and historical nuclear weapons outputs through Electronic Nuclear Weapons Outputs (eBooks) to meet Nuclear Command, Control and Communications and DoD Instruction 3150.09 CBRN survivability needs. - Develop innovative cutting edge electromagnetic pulse hardening and verification technologies to include device hardness characterization and testing, hardware qualifications, mission critical equipment analysis, and unhardened infrastructure testing. - Deliver unhardened electromagnetic pulse effects tool, Electromagnetic Reliability and Effects Prediction 9.0, with relevant test data from US-UK Joint electromagnetic pulse test campaigns and battlefield electromagnetic pulse testing with Army assets for technical reachback, exercise support, and data visualization. - Provide strategic material certification support for materials and sub-system response in Direct Laser Impulse testing; initiate upgrade of National Ignition Facility Direct Laser Impulse optics and 3D target diagnostics; release X-ray Transport and Radiation Response Analysis toolkit with porous and gas gun materials data. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

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

	FY 2024	FY 2025	FY 2026
<p>- Improve Nuclear, Chemical, Biological, Radiological, and high Explosive Analysis Toolset platform with second- and third-order effects models such as damage to TELECON networks, electric grid, and population movement from nuclear events.</p> <p>- Transition Mission Impacts of Nuclear Events Software and provide nuclear subject matter expertise support for adjudication of nuclear play in four Service, four Combatant Command, two Joint Staff, two US Forces Korea, and four Five Eyes /NATO wargames and exercises.</p> <p>-Complete impact analysis of proliferated Mid-Earth Orbit and Geostationary Earth Orbit satellites nuclear survivability on conventional nuclear integration operations.</p> <p>-Complete scintillation study in support of nuclear survivability analysis request for Army and; combatant commands (USSPACECOM, USSTRATCOM, and USEUCOM) Operational Planning.</p> <p>- Complete persistent nuclear effects survivability study in support of Space Development Agency and US Space Force requests.</p> <p>- Conduct applied research into directed energy weapons environment characterization to guide future investments into detection and sensing capabilities to support development of environment and protection military standards.</p> <p>FY 2025 to FY 2026 Increase/Decrease Statement: The decrease from FY 2025 to FY 2026 is due to the combined impact of the reductions and realignments below: 1) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative. 2) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 3) Reduction in Fourth Estate Science and Technology Funding by 2%. 4) Reduction in Federally Funded Research and Development Center support. 5) Realignment of funds for increased investment in Project RD – Nuclear Technologies and Capabilities Development for nuclear environments, effects, and survivability analysis and risk mitigation for U.S. space assets (space-based and ground-based). DTRA will increase collaboration with U.S. Space Command and U.S. Space Force for support of U.S. space-based deterrence and defense capabilities and enhance these relationships by engaging in joint projects, regular high-level meetings, and shared strategic planning to ensure mutual benefit and sustained positive momentum. 6) Realignment of funds for increased investment for applied research into Directed Energy Weapons environment characterization to guide future investments into detection and sensing capabilities to support development of environment and protection military standards. 7) Realignment from Project RD – Nuclear Technologies and Capabilities Development to DTRA's O&M account to (1) convert secret collateral office space in DTRA's Fort Belvoir headquarters facility to expand Sensitive Compartmented Information</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEAR CH	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
Facility capacity as demand for DTRA support necessitates expanded mission processing on systems accredited for sensitive compartments and (2) fund higher priority requirements aligned to Defense budget priorities.			
Accomplishments/Planned Programs Subtotals	113.120	102.812	99.178

	FY 2024	FY 2025
Congressional Add: Crowd Sourced AI for Detection	6.350	0.000
FY 2024 Accomplishments: This investment uses publicly available distributed sensor data to characterize activities relevant to treaty monitoring and other DoD purposes. This project applies artificial intelligence to the analysis of large data sets to support the design and development of a full-scope artificial intelligence Sensor Network solution.		
FY 2025 Plans: N/A		
Congressional Adds Subtotals	6.350	0.000

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

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026 Base</u>	<u>FY 2026 OOC</u>	<u>FY 2026 Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 0603160BR/RD: COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	55.004	76.872	84.153	-	84.153	-	-	-	-	-	-
• 0605000BR/RD: COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	14.049	14.841	14.931	-	14.931	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Competitive selection of most appropriate performers to fulfill science and technology development needs.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RG / CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RG: CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT	216.736	31.621	33.193	27.182	-	27.182	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Counter Weapons of Mass Destruction (CWMD) Technologies and Capabilities Development encompasses the following areas:
 Defeat Technologies supports Combatant Commands through research, development, and transition of offensive weapons and other capabilities to counter Weapons of Mass Destruction (WMD) while mitigating collateral contamination effects. Technology development focuses on the physical or functional defeat of WMD threat materials, an adversary's ability to deliver the same, and the physical and nonphysical support networks enabling both. It does so through the systematic identification and maturation of technologies capable of defeating WMD agents or agent-based processes and selecting technologies for integration into weapons, delivery systems, or rapid WMD elimination capabilities. This effort includes developing specific WMD agent/agent-based process simulants, sub-scale test infrastructure, and sampling capability required for effective development, testing, and evaluation of next-generation CWMD capabilities. The project places a high priority on understanding, characterizing, and validating potential weapon effects within mathematical confidence as it relates to the unintended release of hazardous threat materials. Energetics research develops materials and weapon design technology providing defeat capabilities for engaging hard and deeply buried targets that are beyond current high explosive blast/fragmentation warhead technology. Technologies with the potential for weapon and capability integration are transitioned to Budget Activity 3, Advanced Technology Development efforts. On a limited basis, technology test data is shared with coalition partners.
 WMD counterforce technologies research develops weapons effects modeling algorithms, full and sub-scale test series required to investigate CWMD weapon effects and sensor performance, and visualization and situational awareness tools to support the next generation Technical Reachback cell. These activities are critical enablers for the development of advanced CWMD planning tools. This effort couples long-range fundamental and applied research with technology development in the physical, life, and computational sciences to support kill chain activities in countering emerging WMD threats.

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

	FY 2024	FY 2025	FY 2026
Title: RG: Counter WMD Technologies and Capabilities Development	26.621	28.193	27.182
Description: Project RG uses applied research to develop CWMD technologies and capabilities.			
FY 2025 Plans:			
- Continue to advance additive manufacturing capabilities within the Next Generation Defeat portfolio in order to enhance/improve current capabilities.			
- Research and develop an initial prototype for small-scale testing of a ruggedized/miniaturized high-powered laser to meet the needs of Explosive Ordnance Disposal CWMD defeat.			
- Research and develop an initial prototype for novel 3-D energetics to enable end-users to disrupt upstream WMD.			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEAR CH	Project (Number/Name) RG / CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

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

	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Develop and improve next generation core Modular Autonomous CWMD System single-platform autonomous navigation as well as multi-agent coordination and data-fusion competencies and core algorithms to enable improved Manned-Unmanned-Teaming. - Finish the final three tests of the Agent Defeat Modeling and Simulation Baseline capstone test series. Perform post-capstone validation of agent release/defeat models and source term generation for collateral effects assessment. - Initiate Legacy Weapons Test Program with focus on pacing and acute time-sensitive mobile WMD threats. - Conduct blast response testing and residual capacity of precast columns, precast beam-column connections, and precast load-bearing walls in collaboration with Singapore. - Accredit and transition Optimized Weapon Load-out tool to the Integrated Munitions Effects Assessment Program improving the accuracy and fidelity of weapons effects models to aid targeting decisions against challenging pacing and acute threats. - Deliver improved automated targeting capabilities utilizing continuous machine learning and trained neural networks to automate portions of the targeting process improving lethality against WMD and Hard and Deeply Buried Targets. - Continue delivery of real-time mapping and situational awareness innovations for subterranean CWMD operations through Edge-Enhanced Mapping & Positioning System. - Develop streaming of underground facility schematics to contact lens displays. - Develop map compression algorithms for communications-limited operations. - Advance novel map visualizations in augmented reality to reduce incidence of mission errors. <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Deliver advanced additive manufacturing capabilities within the Next Generation Defeat portfolio to maintain and enhance existing capabilities, improve weapons performance, and expand manufacturing technical capabilities. - Down select and mature energetic candidates of next generation weapons designed to hold high value Hard and Deeply Buried Targets at risk. - Develop and deliver advanced diagnostics equipment designed to characterize detonation environments. This equipment supports high fidelity modeling and simulation. - Develop Active Denial for Targets Right of Line Evolution capabilities to optimize rubble generation to deny adversary use of Hard and Deeply Buried Targets. - Develop and improve next generation multi-agent coordination and data-fusion core algorithms and software architectures to enable the use of more unmanned systems in parallel with reduced cognitive burden on human operator(s) and teammates. - Develop a prototype set of CWMD modular mission payloads to provide kinetic and non-kinetic effects through integration across a family of autonomous ground and air robots. - Collaborate with military academies to address next generation autonomy challenges while advancing critical science, technology, engineering, and mathematics skills amongst future CWMD workforce. - Develop additional Tactical Assault Kit plug-in tools. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEAR CH	Project (Number/Name) RG / CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Deliver improved untethered foreign language and audio signature analytics, improving United State Special Operations Command (USSOCOM) campaigning capabilities by increasing foreign language translation capacity at the edge and decreasing lag time to exploit opportunities. - Deliver increased integration into networked ground and aerial sensors, improving location data associated with audio feeds by decreasing geo-location error. - Transition the Blue Raptor plug-in, embedded in the Joint Threat Warning System Air 3 program software, to USSOCOM. - Transition real-time mapping and situational awareness innovations for subterranean CWMD operations. - Deliver technical data packages to DoD stakeholders to produce Government off-the-shelf Software for the Mapping and Awareness for CWMD Operations systems. - Develop map compression algorithms for comms-limited operations in subterranean conditions. - Develop 3D maps to simulate breaching blasts to determine hazard standoff for mission personnel. - Advance novel map visualizations in augmented reality to reduce incidence of mission errors. - Develop live streaming capability of facility schematics including key facility attributes (infrastructure, access points, etc.) for use during CWMD operations. - Transition a compact, standalone Subterranean Personnel Tracker solution for tracking personnel in the global positioning system (GPS) -denied environments. - Deliver improved automated targeting capabilities utilizing continuous machine learning and trained neural networks to automate portions of the targeting process improving lethality against WMD and Hard and Deeply Buried Targets. <p>FY 2025 to FY 2026 Increase/Decrease Statement: The decrease from FY 2025 to FY 2026 is due to the combined impact of the reductions below: 1) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 2) Reduction in Fourth Estate Science and Technology Funding by 2%.</p>			
Accomplishments/Planned Programs Subtotals	26.621	28.193	27.182

	FY 2024	FY 2025
Congressional Add: Advanced Manufacturing of Energetics	5.000	0.000
FY 2024 Accomplishments: Reprogramed to Department of Army in FY 2024.		
FY 2025 Plans: N/A		
Congressional Add: Diagnostic evaluation of transient turbulence	0.000	5.000

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEAR CH	Project (Number/Name) RG / CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

	FY 2024	FY 2025
FY 2024 Accomplishments: Received funds in FY 2025.		
FY 2025 Plans: This project seeks to understand and characterize transient turbulent phenomenology for kinetic weapon strikes against chemical or biological storage or production facilities. Results will support enhancement and further development of high-fidelity and fast-running modeling and simulation capabilities resulting in improved predictions of agent fate and collateral effects.		
Congressional Adds Subtotals	5.000	5.000

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

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0603160BR/RG: COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	252.361	246.304	233.668	-	233.668	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Competitive selection of most appropriate performers to fulfill science and technology development needs.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency										Date: June 2025		
Appropriation/Budget Activity 0400 / 2					R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH				Project (Number/Name) RR / CWMD TEST AND EVALUATION			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RR: CWMD TEST AND EVALUATION	182.703	19.872	17.408	18.463	-	18.463	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The CWMD Test and Evaluation project provides a unique national test capability for simulated WMD facilities and processes. This capability provides DTRA's structured and systematic end-to-end test event planning, preparation, management, execution, and data analysis. It also offers test instrumentation (data acquisition systems and optics), scientific analysis and predictions, test article construction, test article/test bed remediation, tunnel mining, architectural and engineering design, systems engineering and integration, and test data management. The project leverages 50 years of expertise in investigating weapons effects and target response across the spectrum of hostile environments that could be created by proliferate nations or terrorist organizations with access to advanced conventional weapons or WMD. Subject matter experts design full and sub-scale testing strategies focusing on weapon-target interaction with fixed soft and hardened facilities to include above ground facilities, cut-and-cover facilities, and deep underground tunnels.

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

	FY 2024	FY 2025	FY 2026
Title: RR: Countering WMD Test and Evaluation	19.872	17.408	18.463
Description: Project RR provides innovative science and technology to enable the development, evaluation, and validation of capabilities for DTRA, DoD, and federal partners that maintain U.S. superiority in CWMD and emerging threats, mitigate the risks of technological surprise, and respond to the warfighter's CWMD requirements.			
FY 2025 Plans:			
<ul style="list-style-type: none"> - Improve efficiency and effectiveness of DTRA's RDT&E programs by procuring and guaranteeing availability of software tools that provide rapid analysis and modeling. - Purchase necessary test and life safety equipment in support of RDT&E programs. - Support test bed construction, geological surveys, and site remediation. - Provide calibration and life cycle management of safety and air sampling monitoring equipment. - Provide testing support for Agent Defeat Modeling and Simulation Baseline efforts to improve modeling capabilities. - Provide integration of fluorescence detection, chemical sensors, and radiological detectors into autonomous unmanned ground vehicle platforms. - Deliver four test campaigns across three novel test activities to refine collection of Tactics, Techniques and Procedures; validate new sensors; and broaden U.S. Government search, collection, and characterization capabilities. - Provide program management, operational/logistics support, and explosives support consisting of test planning, fielding, management, safe execution and results analysis for 100 blast tests. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RR / CWMD TEST AND EVALUATION

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

	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Support operational and developmental testing at three fixed locations (Kirtland Air Force Base, White Sands Missile Range, and the Nevada National Security Site) and maintain an expeditionary capability to enable testing activities at multiple remote locations. - Provide explosives support including planning, operations, explosives development, procurement, explosives safety, operational use, fielding, firing, and disposal of explosives for operational and developmental testing. - Remediate a penetration test target at White Sands Missile Range to comply with White Sands Missile Range agreements to remove targets no longer required. - Clean-up and close open pits and remove abandoned cable hazards on the Small and Intermediate Test Beds on White Sands Missile Range. - Protect the local Albuquerque Community through improvements to the in-house seismic/acoustic laboratory, enabling safe conduct of explosive testing at Kirtland Air Force Base. <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Conduct remediation of a penetration test structure (DIVINE ALBATROS 2) at White Sands Missile Range in compliance with White Sands Missile Range agreements to remove targets no longer required. - Maintain 30-year White Sands Missile Range U.S. Fish and Wildlife Service Golden Eagle permit for the DTRA Granite Site. - Sustain life safety equipment in support of Test, Evaluation, and Assessment Programs. - Research potential geologically threat-representative sites to serve as Hard and Deeply Buried Targets defeat capability testbeds for future Hard and Deeply Buried Targets test and evaluation activities. Deliver studies on the efficacy of the potential sites to support future operational needs. - Support the expansion of the Technical Examination and Assessment Monitoring Site on Kirtland Air Force Base to support future arms control RDT&E and training requirements. - Support integration of toxin simulants and pharmaceutical-based agents into Test and Evaluation program. - Provide certification of test personnel utilizing small, unmanned aircraft systems for CWMD testing and evaluation. - Provide maintenance, remediation, and test support on DTRA test beds. - Ensure that DTRA facilities, test articles, and capabilities, including secure communications on test beds, are maintained and available to support test and assessment activities. - Sustain Government Owned Equipment used for explosive disposal, explosive storage, batching concrete, conducting construction quality assurance, and other specialized functions. - Modernize a seismic diagnostics capability that provides critical support to air-delivered explosive weapon and facility vulnerability / protection test and evaluation activities. - Support airdrop weapon tests, providing real-time “high-order” detonation determination to allow safe re-entry of DTRA personnel to the test sites after a weapon drop from an aerial platform or static detonations. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RR / CWMD TEST AND EVALUATION

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
- Support open-air explosion tests at Kirtland Air Force Base while protecting residential areas around the base from blast effects damage. - Improve in-house far-field acoustic overpressure prediction tool and validate the prediction tool using the collected test data at Kirtland Air Force Base. - Provide program management, operational/logistics support, and explosives support consisting of test planning, fielding, management, safe execution and results analysis for up to 40 CWMD test and evaluation activities, including agent defeat phenomenology studies, structural response testing, and user assessments for new radiological and nuclear technologies. - Support open-air explosion tests at Kirtland Air Force Base while protecting residential areas around the base from blast effects damage. - Improve in-house far-field acoustic overpressure prediction tool and validate the prediction tool using the collected test data at Kirtland Air Force Base. - Provide program management, operational/logistics support, and explosives support consisting of test planning, fielding, management, safe execution and results analysis for up to 40 CWMD test and evaluation activities, including agent defeat phenomenology studies, structural response testing, and user assessments for new radiological and nuclear technologies.			
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> The increase from FY 2025 to FY 2026 is due to the combined impact of the following: 1) Increased investment in WMD national testbed assets to ensure state of the art RDT&E facilities are available for CWMD capability development. 2) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 3) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."			
Accomplishments/Planned Programs Subtotals	19.872	17.408	18.463

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• 0603160BR/RR: COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	7.450	12.130	12.050	-	12.050	-	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602718BR / COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	Project (Number/Name) RR / CWMD TEST AND EVALUATION

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

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0603176BR/RR: <i>ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT</i>	7.788	0.000	0.000	-	0.000	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Competitive selection of most appropriate performers to fulfill science and technology development needs.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 3: Advanced Technology Development (ATD)	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	1,824.544	390.581	410.112	393.469	0.000	393.469	-	-	-	-	-	-
RA: CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES	345.718	75.766	74.806	63.598	-	63.598	-	-	-	-	-	-
RD: NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT	313.366	55.004	76.872	84.153	-	84.153	-	-	-	-	-	-
RG: CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT	1,150.190	252.361	246.304	233.668	-	233.668	-	-	-	-	-	-
RR: CWMD TEST AND EVALUATION	15.270	7.450	12.130	12.050	-	12.050	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Counter Weapons of Mass Destruction (CWMD) Technologies and Capabilities Development project develops advanced technologies and weapon concepts and validates their applicability to CWMD. Research encompasses the following areas:

Defeat Technologies supports Combatant Commands through research, development, and transition of offensive weapons and other capabilities to counter Weapons of Mass Destruction (WMD) while mitigating collateral contamination effects.

Enable rapid capability delivery supports urgent warfighter operational requirements in countering WMD and emerging threats, often below the level of armed conflict. This research develops and delivers urgent CWMD capabilities to provide Combatant Commands a competitive advantage against WMD-capable adversaries with a focus on innovative, agile, achievable, and effective technology solutions for DoD sensitive and classified programs, Combatant Command hybrid warfare support, and competition below the level of armed conflict.

Counter emergent threat technologies research develops and transitions a full spectrum of new technologies to counter emergent WMD threats providing combatant commanders improved offensive capabilities in support of near-peer emerging threats and counter-proliferation missions that combat weapons of mass destruction. This research supports the U.S. Special Operations Command (USSOCOM) in two areas: (1) counter proliferation research is a collaborative effort to develop advanced, warfighter-unique technologies to defeat WMD development and acquisition pathways, to include defeat of the devices themselves, while minimizing risks to U.S. forces; and (2) counter emerging threats concepts and technologies to integrate and synchronize activities that prevent violent extremist organizations and rogue nation states from developing, acquiring, proliferating, or using WMD. This effort supports Commander, USSOCOM responsibilities under the Chairman, Joint Chiefs of Staff Unified Command Plan.

Counterforce technologies research develops, integrates, demonstrates, and transitions advanced sensors, surveillance, and target defeat planning technologies to enable the warfighter to hold WMD-related targets at risk. There are three core research efforts in this project: Technical Reconnaissance; CWMD Weapons Effects; and, Applied CWMD Computational, Physical and Life Science Research.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603160BR / <i>COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT</i>
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Target assessment technologies research develops, applies, and transitions processes and technologies providing advanced capabilities in the areas of WMD Targets Immersive Mission Planning (TIMP), and Full Dimensional Defeat Enterprise (FDDE). Nuclear - Advanced Automated Target Development automates intelligence input to provide more realistic target input parameters incorporating 3-D models. WMD-TIMP provides an interactive virtual reality platform for mission planning that mitigates impact of characterization uncertainty by allowing mission planners to execute multiple planning iterations with varied uncertainty parameters. FDDE aims to develop an enterprise capability for finding and identifying a facility, characterizing its function and physical layout, determining current or future vulnerabilities to available defeat mechanisms, planning and executing an attack, assessing damage, and denying reconstitution efforts. The dynamic capabilities encompassed in this effort provide Combatant Commands and the intelligence community tools and processes needed to hold at risk high value hard targets and WMD targets possessed by adversaries.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	400.947	418.044	420.147	-	420.147
Current President's Budget	390.581	410.112	393.469	-	393.469
Total Adjustments	-10.366	-7.932	-26.678	0.000	-26.678
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-7.932			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	8.500	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-10.366	0.000			
• Realignments	0.000	0.000	-26.678	-	-26.678
• Program Adjustments	-8.500	0.000	-	-	-

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

Project: RG: *CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT*

Congressional Add: *Advanced Manufacturing of Energetic Materials*

	FY 2024	FY 2025
	8.500	0.000
Congressional Add Subtotals for Project: RG	8.500	0.000
Congressional Add Totals for all Projects	8.500	0.000

Change Summary Explanation

The current President's Budget request is a decrease from the previous President's Budget. The decrease is due to the combined impact of the following reductions and realignments:

- Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency Date: June 2025

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603160BR / <i>COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT</i>
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- Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."
- Reduction in Fourth Estate Science and Technology Funding by 2%.
- Reduction in Federally Funded Research and Development Center support.
- Realignment in funding to increase investment in Project RD – Nuclear Technologies and Capabilities Development for nuclear environments, effects, and survivability analysis and risk mitigation for U.S. space assets (space-based and ground-based). This increased investment will provide a study of the current pacing threat of Directed Energy Weapon (DEW) capabilities and possible future threat levels through 2030.
- Realignment in funding to increase investment for DEW survivability analysis against strategic systems, defense critical capabilities, and mission-critical systems.
- Realignment in funding to increase investment for strengthening future arms control with resources realigned from DTRA's O&M account and lower priority requirements elsewhere in this project.
- Realignment in funding from Project RA - CWMD Cross-Cutting Technical and Information Sciences and Project RG - CWMD Technologies and Capabilities Development to DTRA's O&M account to (1) convert secret collateral office space in DTRA's Fort Belvoir headquarters facility to expand Sensitive Compartmented Information Facility capacity as demand for DTRA support necessitates expanded mission processing on systems accredited for sensitive compartments and (2) fund higher priority requirements aligned to Defense budget priorities.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	Project (Number/Name) RA / CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RA: CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES	345.718	75.766	74.806	63.598	-	63.598	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Counter Weapons of Mass Destruction (CWMD) Cross-Cutting Technical and Information Sciences project provides technical expertise through continuous reachback and quick reaction support to the United States and its allies across the CWMD mission space. The project performs continuous modeling of ad hoc computational analyses on the consequences of Weapons of Mass Destruction (WMD) in consultation with military and civilian planners, warfighters, and first responders. The project also supports international CWMD cooperation by developing technologies and concepts suitable for foreign release.

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

	FY 2024	FY 2025	FY 2026
Title: RA: CWMD Cross-Cutting Technical and Information Sciences	75.766	74.806	63.598
<p>Description: Project RA develops modeling and simulation capabilities and provides technical reachback support to maintain and increase decision advantages for the United States and its allies through improved situational understanding across the complete CWMD mission space.</p> <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Provide 24/7 technical reachback assistance, decision support and planning support to Combatant Commands (CCMD), Services, interagency and other government customers to support immediate mission and operational environments; respond to over 1300 requests for information/assistance with over 95% timeliness in responses. - Develop comprehensive capability for modeling atmospheric release and effects of chemical, biological, radiological, and nuclear (CBRN) material, incorporating the latest threat developments and trends into the Hazard Prediction and Assessment Capability (HPAC) model; develop multi-operating system containerized version to meet Security, Development, and Operations guidance and streamline integration and transition. - Rapidly prototype software applications and data science solutions to enhance CWMD situational awareness and information sharing, synchronization of operations, and identification of WMD threats. Maintain rotating portfolio in various stages of development, from initial concept through transition to advanced developer or to the customer for sustainment. - Develop data integration, analysis and visualization solutions in support of mission partners; apply advanced analytics to develop novel capabilities for illuminating and disrupting procurement and proliferation networks and coordinating CWMD operations; transition operational prototype applications/processes to supported commands/units or sustainment programs. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
<p>- Deliver engineering /vulnerability studies identifying areas for continued capability development to support CCMD counter threats; develop/deliver rapid prototype CWMD and emerging threat capabilities addressing emerging theater CWMD requirements, with focus on: vulnerabilities analysis, human-machine interfaces, networked sensing and signatures, next generation communications, and disruptive technologies.</p> <p>- Develop and deliver critical technical capabilities responsive to urgent, emergent theater requirements in support of critical strategic partners via non-traditional, efficient acquisition pathways; deliver timely technical capabilities in response to emergent needs that would otherwise not be met in the required timeline.</p> <p>- Enhance and integrate toolset under the DTRA Requirements Management Tool to capture, document, decompose, and prioritize DTRA RDT&E activities, including the identification and de-confliction of redundancies across DTRA, greater DoD and broader government CWMD capability development activities.</p> <p>FY 2026 Plans:</p> <p>- Transition to the National Geospatial Agency, the production process and methods to develop building data (e.g. construction and population) in support of CCMD requirements for Civilian Harm Mitigation and Response.</p> <p>- Facilitate the initial operational use of agent-based analytic tools and techniques needed to link massively interacting systems (e.g. population behavior, infrastructure, etc.) at a level that allows inference of possible reactions and effects.</p> <p>- Deliver HPAC 8.0 with enhanced CBRN capabilities to include urban transport, up-to-date agents and data, and container architecture enhancing integration to web-based tools.</p> <p>- Develop and test cross-cutting CBRN capabilities in support of emergent CCMD/customer requirements, including sensor communications backhaul and virtual reality / augmented reality for WMD incident responders.</p> <p>- Utilize Applied Data Science to provide rapid prototype software applications and data science solutions to enhance CWMD situational awareness and information sharing, synchronization of operations, and identification of WMD threats.</p> <p>- Leverage federated DoD Platform as a Service (Air Force Platform 1, Operational Development, Security, and Operations (DevSecOps) for Intelligence, Surveillance, and Reconnaissance NEXGEN, and a Data Science Platform) to support DevSecOps, Advanced Analytics, and Transition Hosting on Non-classified Internet Protocol, Secret Internet Protocol, and Joint Worldwide Intelligence Communication System.</p> <p>FY 2025 to FY 2026 Increase/Decrease Statement:</p> <p>The decrease from FY 2025 to FY 2026 is due to the combined reductions and realignments below:</p> <p>1) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative.</p> <p>2) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	Project (Number/Name) RA / CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
3) Reduction in Fourth Estate Science and Technology Funding by 2%.			
4) Realignment to DTRA's O&M account to (1) convert secret collateral office space in DTRA's Fort Belvoir headquarters facility to expand Sensitive Compartmented Information Facility capacity as demand for DTRA support necessitates expanded mission processing on systems accredited for sensitive compartments and (2) fund higher priority requirements aligned to Defense budget priorities.			
5) Realignment to Project RD - Nuclear Technologies and Capabilities Development for research into the Directed Energy Weapons pacing threat and space related nuclear weapons effects assessments			
Accomplishments/Planned Programs Subtotals	75.766	74.806	63.598

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• 0604551BR/RA: CATAPULT INFORMATION SYSTEM	8.117	7.475	4.161	-	4.161	-	-	-	-	-	-
• 0602718BR/RA: COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	38.239	17.202	16.672	-	16.672	-	-	-	-	-	-
• 0605502BR/RA: SMALL BUSINESS INNOVATION RESEARCH	17.801	0.000	0.000	-	0.000	-	-	-	-	-	-

Remarks

D. Acquisition Strategy
Assessment and selection of best performer for developmental requirements to meet specific military capability needs.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency										Date: June 2025		
Appropriation/Budget Activity 0400 / 3					R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT				Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RD: NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT	313.366	55.004	76.872	84.153	-	84.153	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

RDT&E to identify, develop, and exploit signatures associated with nuclear threats in support of U.S. capabilities that detect and interdict such threats; and locate, identify, and track special nuclear material and improve detection factors such as range, time, sensitivity, and accuracy to enhance Service and Special Mission Unit capabilities. These efforts support Department of Defense (DoD) requirements for countering terrorism, counter proliferation, nonproliferation, countering rogue states, and homeland defense.

RDT&E to systematically study signatures associated with adversary nuclear programs and nuclear detonations to gain knowledge or understanding necessary to: determine technical capabilities needed to improve DoD contingency planning activities; improve DoD situational awareness on the nuclear battlefield; and improve capabilities to attribute the source of a nuclear detonation.

Research and develop innovative technologies for the protection of mission-essential personnel, critical military and national defense capabilities, and associated control and support systems during a nuclear event. Research under this project supports the mission critical systems identified under DoD Instruction 3150.09, Chemical, Biological, Radiological, and Nuclear Survivability Policy. System vulnerability research develops nuclear assessment capabilities to support operational planning, weapons effects predictions, and strategic system design. This activity also provides the DoD's nuclear design and protection standards for new and existing systems, e.g., command and control facilities and aircraft. Key systems include the Nuclear Command and Control System, the net-centric thin-line, and both military and civilian satellites and associated support systems. Experimental capabilities research provides the warfighter with unique x-ray, gamma ray, and electromagnetic pulse (EMP) test capabilities in support of system survivability development, certification, and sustainment. These efforts also support international collaboration, user groups, case study reviews, and the Joint Atomic Information Exchange Group. The human survivability effort conducts research to develop and validate mortality and morbidity models associated with radiological and nuclear weapon effects.

Research and development modeling tools to support military operational planning, weapons effects predictions, and strategic system design decisions; consolidate validated modeling tools for integrated functionality; predict system responses to nuclear and radiological weapons producing electromagnetic, thermal, blast, shock, and radiation environments; provide detailed adversary nuclear infrastructure characterization to enhance counterforce operations and hazard effects; and, develop foreign nuclear weapon outputs.

Delivers integrated applications, data analysis, and cloud-ready artificial intelligence-enhanced capabilities, cross-cutting platform supporting full spectrum of nuclear operations, wargaming, and assessments.

Provides timely electronic access to Nuclear Testing Archives supporting validation of the effectiveness of the Nuclear Deterrent and survivability of U.S. military assets without a return to nuclear testing.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency	Date: June 2025
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Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT
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Delivers research on options for adapting arms control approaches and implementing related risk reduction concepts over the next 15 years. Provides an in-depth appraisal of verification approaches from issues such as ability to monitor space behaviors to international bio-monitoring system architecture or advanced conventional weapons monitoring/accountability/verification and applications of these concepts to both current treaties and/or future risk reduction measures.

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

	FY 2024	FY 2025	FY 2026
<p>Title: RD: Nuclear Technologies and Capabilities Development</p> <p>Description: Project RD develops, integrates and transitions radiation detection technologies, and systems, tools, techniques, and procedures that take advantage of non-radiation based signatures, in order to advance warfighter capabilities to rapidly detect, localize, characterize, and interdict nuclear and radiological threats.</p> <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Deliver Mission Impacts of Nuclear Events (MINES) support of the analysis and assessment of Combatant Command (CCMD) operation plans, course of action development, and concept of operations to support mission impacts of nuclear detonations in the ground, air, maritime & space domains. - Complete testing of machine-language tool for component identification and expand artifacts reference dataset for foreign equipment inspections to support arms control inspections, verifications, and authentications. - Complete 3D models for topography effects on yield estimation and comparative data analysis for U.S. Indo-Pacific Command areas of interest; complete xenon integration into a multi-function atom-trap trace analysis system and testing for potential International Monitoring System integration. - Conduct space-based prompt diagnostics characterization preliminary design review and develop plan for component ground testing to provide relevant forensic data supporting attribution in the event of a nuclear attack. Model and simulate improvements to detector response for prompt data collection to support U.S. Prompt Diagnostics System mission and deliver improved ground debris collection capabilities. - Demonstrate interdependent infrastructure models using water, petroleum, and transportation with coupling to a significant nuclear weapons effect environment and deliver 14 new integrated or updated capabilities through Nuclear Capabilities Services (NuCS) 2025 for strategic contingency planning and damage estimation efforts. - Deliver moving receiver radiation dose, eye damage/flash blindness, source-region EMP, and radiation hardness standard computation tool to U.S. Army via Enhanced Nuclear Weapons Effects Database for maneuver planning and North Atlantic Treaty Organization support. - Deliver Military-Standards (MIL-STDs) and handbooks that keep pace with threat, technology, and methodologies to ensure the warfighter has the tools necessary to develop a survivable strategic deterrent; provide test and evaluation support for Phase 2 of the Comprehensive Endo-/Exo-Atmospheric Nuclear Environment Standard (CANES) revision. 	55.004	76.872	84.153

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

	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Transition modular radiation detection systems to meet the needs of Explosive Ordnance Disposal, Special Operations Forces, National Guard Bureau, 20th Chemical, Biological, Radiological, and high-Explosive (CBRNE), and DTRA Technical Support Groups (TSGs), while ensuring every system is interoperable with the widely used Tactical Assault Kit (TAK) ecosystem. - Support end-user early operational assessments and transition activities to ensure radiation sensor prototype capabilities meet the minimum criteria to be inserted into a program-of-record or for direct procurement and develop an application programming interface to reduce time and cost of integration with Service and CCMD training tools. - Refresh Nuclear, Chemical, Biological, Radiological, and high-Explosive (NCBRE) Analysis Toolset Consequence Assessment user interface and integrate latest Linux version of the Hazard Prediction and Assessment Capability to improve system performance; deliver updates to Comprehensive Nuclear Effects Model providing one canvas for all available nuclear effects calculations for CCMDs, Services, and DTRA Technical Reachback. - Enhance the historical nuclear testing archive at Defense Threat Reduction Information Analysis Center (DTRIAC). - Deliver verified water shock environment tool to U.S. Army and NuCS Team for seaport damage to support U.S. Army planners' operations for nuclear environments. - Publish two updated nuclear weapons effects chapters for the Nuclear Weapons Effects Manual One. - Enhance the historical nuclear testing archive at the DTRIAC, - Modernize the Defense Stockpile Management System. <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Transition modular radiation detection systems to meet the needs of Explosive Ordnance Disposal, Special Operations Forces, National Guard Bureau, 20th CBRNE, and DTRA TSGs, while ensuring every system is interoperable with the widely used TAK ecosystem. - Develop a modular unmanned family of passive sensors to provide a flexible and cost-effective solution to address platform payload constraints. - Perform MIL-STD-810G testing to ensure DoD radiation sensors set the standard for reliability in difficult (e.g. maritime, arctic) environments, including growing a product line of nuclear-survivable sensors. - Start Phase 1 of the Satellite Systems Nuclear Survivability Protection Standard (SSNS-P) MIL-STD-3065 revision focusing on lessons learned from analysis of satellite survivability studies of various orbital regimes. - Conduct Phase 1 of the Satellite Systems Nuclear Survivability Design/Verification, Military Handbook (MIL-HDBK)-533 revision, drawing on and exploiting information gained from collaboration efforts with U.S. Space Command and U.S. Space Force and their acquisition program offices. - Complete impacts analysis of proliferated Mid-Earth Orbit and Geostationary Earth Orbit satellites nuclear survivability on conventional nuclear integration operations. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2024	FY 2025	FY 2026
<p>- Deliver MINES support of the analysis and assessment of CCMD operation plans, course of action development, and concept of operations; incorporates initial space domain modeling for exo-atmospheric nuclear detection modeling and visualization, route planning capability for Chemical, Biological, Radiological and Nuclear (CBRN) hazards, ground shock for underground impacts, and three-dimensional plume visualization.</p> <p>- Develop monitoring, verification, and other technologies/capabilities to support and prepare for future arms control requirements for increased arms-control negotiation options and more accurate and faster on-site treaty verification; complete Phase 1 design of radionuclide particulate system modernization for faster confirmation of covert nuclear test/operations; transition a persistent airborne nuclear weapon characterization capability, intended for operations in a nuclear environment as part of information resilience, to Air Force Technical Applications Center.</p> <p>- Provide common core nuclear effects calculation engine with expanded collateral damage estimates through NuCS.</p> <p>- Improve space nuclear effects capabilities, expanding to support Nuclear Command, Control, and Communications and DoD Instruction 3150.09 CBRN survivability analytic needs, for High Altitude Nuclear Effects.</p> <p>- Deliver MIL-STDs and handbooks that keep pace with threat, technology, and methodologies to ensure the warfighter has the tools necessary to develop a survivable strategic deterrent; provide test and evaluation support for Phase 3 of the CANES revision; provide T&E support for Phase 1 of the SSNS-P MIL-STD-3065 and Phase 1 of the Satellite Systems Nuclear Survivability Design/Verification MIL-HDBK-533 revisions; and updates to facility and aircraft standards to reflect changes in the EMP threat environment.</p> <p>- Integrate advanced human effects capabilities, fire spread modeling, and high altitude nuclear effects modeling into the NCBRE Analysis Toolset.</p> <p>- Deliver analysis and assessments of potential verification approaches from issues on ability to monitor space behaviors, international monitoring system architecture, advanced conventional weapons monitoring/accountability/verification and the applications of these concepts to both current treaties and/or future risk reduction measures.</p> <p>-Research the need for, and ability to conduct, a directed energy weapon survivability analysis against Strategic Systems, Defense critical capabilities, and Mission-Critical Systems.</p> <p>FY 2025 to FY 2026 Increase/Decrease Statement: The increase from FY 2025 to FY 2026 is due to the combined reductions and realignments below: 1) Realignment for increased investment in Project RD – Nuclear Technologies and Capabilities Development for nuclear environments, effects, and survivability analysis and risk mitigation for U.S. space assets (space-based and ground-based). DTRA will increase collaboration with U.S. Space Command and U.S. Space Force for support of U.S. space-based deterrence and defense capabilities and enhance these relationships by engaging in joint projects, regular high-level meetings, and shared strategic planning to ensure mutual benefit and sustained positive momentum.</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
2) Realignment for increased investment for Directed Energy Weapon survivability analysis against strategic systems, defense critical capabilities, and mission critical systems. These increases are offset by realignments from elsewhere in this project, Project RA - CWMD Cross-Cutting Technical and Information Sciences, and Project RG - CWMD Technologies and Capabilities.			
3) Realignment in funding to increase investment for strengthening future arms control with resources realigned from DTRA's O&M account and lower priority requirements elsewhere in this project.			
4) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."			
5) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."			
Accomplishments/Planned Programs Subtotals	55.004	76.872	84.153

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• 0602718BR/RD: COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	119.470	102.812	99.178	-	99.178	-	-	-	-	-	-
• 0605000BR/RD: COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	14.049	14.841	14.931	-	14.931	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Assessment and selection of best performer for developmental requirements to meet specific military capability needs.

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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RG: CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT	1,150.190	252.361	246.304	233.668	-	233.668	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Counter Weapons of Mass Destruction (CWMD) Technologies and Capabilities Development project develops advanced technologies and weapon concepts and validates their applicability to CWMD. Research encompasses the following areas:

Defeat Technologies supports Combatant Commands through research, development, and transition of offensive weapons and other capabilities to counter Weapons of Mass Destruction (WMD) while mitigating collateral contamination effects.

Enable rapid capability delivery supports urgent warfighter operational requirements in countering WMD and emerging threats, often below the level of armed conflict. This research develops and delivers urgent CWMD capabilities to provide Combatant Commands a competitive advantage against WMD-capable adversaries with a focus on innovative, agile, achievable, and effective technology solutions for DoD sensitive and classified programs, Combatant Command hybrid warfare support, and competition below the level of armed conflict.

Counter emergent threat technologies research develops and transitions a full spectrum of new technologies to counter emergent WMD threats providing combatant commanders improved offensive capabilities in support of near-peer emerging threats and counter-proliferation missions that combat weapons of mass destruction. This research supports the U.S. Special Operations Command (USSOCOM) in two areas: (1) counter proliferation research is a collaborative effort to develop advanced, warfighter-unique technologies to defeat WMD development and acquisition pathways, to include defeat of the devices themselves, while minimizing risks to U.S. forces; and (2) counter emerging threats concepts and technologies to integrate and synchronize activities that prevent violent extremist organizations and rogue nation states from developing, acquiring, proliferating, or using WMD. This effort supports Commander, USSOCOM responsibilities under the Chairman, Joint Chiefs of Staff Unified Command Plan.

Counterforce technologies research develops, integrates, demonstrates, and transitions advanced sensors, surveillance, and target defeat planning technologies to enable the warfighter to hold WMD-related targets at risk. There are three core research efforts in this project: Technical Reconnaissance; CWMD Weapons Effects; and, Applied CWMD Computational, Physical and Life Science Research.

Target assessment technologies research develops, applies, and transitions processes and technologies providing advanced capabilities in the areas of WMD Targets Immersive Mission Planning (TIMP), and Full Dimensional Defeat Enterprise (FDDE). Nuclear - Advanced Automated Target Development automates intelligence input to provide more realistic target input parameters incorporating 3-D models. WMD-TIMP provides an interactive virtual reality platform for mission planning that mitigates impact of characterization uncertainty by allowing mission planners to execute multiple planning iterations with varied uncertainty parameters. FDDE aims to develop an enterprise capability for finding and identifying a facility, characterizing its function and physical layout, determining current or future vulnerabilities to available defeat mechanisms, planning and executing an attack, assessing damage, and denying reconstitution efforts. The dynamic capabilities encompassed in this effort provide Combatant Commands and the intelligence community tools and processes needed to hold at risk high value hard targets and WMD targets possessed by adversaries.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<p>Title: RG: Counter WMD Technologies and Capabilities Development</p> <p>Description: Project RG develops advanced technologies and weapon concepts and validates their applicability to CWMD.</p> <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Demonstrate electromagnetic pulse (directed energy) effects capabilities in a developed prototype on a relevant WMD hardened structure as prioritized by end users. - Develop additional full-scale WMD manufacturing facility target model to test multiple agent and facility defeat capabilities. - Optimize rubble generation in support of active denial of adversary's use of hardened and deeply buried targets (HDBTs). - Develop and deliver high density high explosive materials to hold high value HDBT at risk. - Spiral develop unmanned kinetic weapon system for precision defeat of WMD platforms and infrastructure to deter WMD aggression in U.S. Indo-Pacific Command (USINDOPACOM). - Test special purpose kinetics and other precision effects improved by additive manufacturing processes. - Test prototype that determines presence of WMD materials behind barriers to identify current and emerging WMD threats against combat forces in USINDOPACOM. - Test capability to bypass WMD mechanical security to support efforts to increase situational awareness of adversarial WMD activities in USINDOPACOM. - Conduct functional utility test of universal decoding prototypes for operational utility against USINDOPACOM threats. - Provide offensive, scalable, and flexible options for execution of overt and discreet counter proliferation and CWMD operations to deny, delay, degrade, disrupt, defeat, or destroy facilities, critical nodes, and other WMD capabilities in support of USSOCOM and other CCMDs. - Development and transition of Kinetic Barrier Defeat Tools, Maritime System Defeat Tools, and Critical Node Defeat Tools for CCMD use. - Development of WMD Facility Defeat operational support technologies for CCMD use. - Transition next generation 6G/ & "Next G" radio frequency threat countermeasures capability to USSOCOM, CCMDs, and other U.S. government partners. - Provide diagnostic and defeat tools against emergent CWMD requirements for specific Explosive Ordnance Disposal (EOD) render safe operations. - Deliver capability integrating tools to create and modify buildings in a computer-based simulation/model to share targeting data with other targeting systems seamlessly; implement capability for cloud computing to accelerate targeting processing. - Release Integrated Munitions Effect Assessment (IMEA) V13.0 in new, modular architecture that enables greater sharing with key allies, cloud computing and supports seamless interoperability with targeting community. 	243.861	246.304	233.668

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Develop and integrate baseline mobile missile launcher models with WMD capabilities into IMEA to support rapid targeting and weapons effects predictions for pacing and acute threats. - Integrate modules to simulate combined kinetic and non-kinetic (direct energy/cyber) effects. - Integrate hypersonic system characterization and weapons data in models to allow for dynamic targeting of WMD targets including delivery systems. - Integrate dynamic weapon capabilities (penetration, fracturing) for adversarial weapons systems into Vulnerability Assessment and Protection Option (VAPO). - Move VAPO to net-centric cloud-based solution, enabling broader accessibility to multiple user communities and allowing for faster delivery time on capability enhancements for improved bug fix capability and version control, enhanced security, and better control over user access and experience. - Provide Targeting Weaponing Assistance Cell weaponing Subject Matter Experts to deliver ~500 (estimated) Targeting Recommendation Packages and participate in Targeting Planning Conferences in support of USINDOPACOM and U.S. European Command (USEUCOM). - Support weapon development and weapon effects phenomenology programs such as the Legacy Weapons Test Program with test design, requirements, and execution support ensuring operational requirements are met and validated models are integrated into weaponing planning tools. - Mature Full Dimensional Defeat Enterprise (FDDE) organization and functionality featuring workshops, demonstrations and CCMD exercise support. - Enhance FFDE agent-based modeling approach to system of systems analysis of WMD targets, expanding functional agent libraries and facility templates, including larger system of facilities and cross-domain targeting. - Fully integrate Automated Advanced Target Development (A2TD) capability to produce automated Underground Targeting and Assessment System models on selected target sets to include automated procedures for feature extraction of observables, automated geology characterization, using Defense Intelligence Agency (DIA) Underground Facility Analysis Center (UFAC) approved layouts. - Coordinate with and receive certification from National Geospatial Intelligence Agency for point positioning capability to allow direct aim point determination without the requirement for separate geo-recertification of the point in a separate system. - Initiate WMD Target Immersive Mission Planning project to leverage target models built through A2TD and FDDE to create a 3D immersive virtual reality environment for iterative mission planning. - Develop Nuclear-Automated Advanced Target Development prototype ready for Verification and Validation which provides more realistic target input parameters by incorporating existing state of the art 3D UFAC DIA models for the basis of calculation. <p>FY 2026 Plans:</p>			

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Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / <i>COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT</i>	Project (Number/Name) RG / <i>CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Develop and deliver Next Generation Agent Defeat and Advanced Energetics programs through innovative use of additive manufacturing technologies while maintaining weapons platform integration, enhancing performance, and supporting mission diversity. - Partner with DTRA's Technical Support Groups and Training Integration Branch to transition a group of autonomous ground and air robots equipped with CWMD-specific modular-mission-payloads that can meet a subset of tactical situational awareness, logistics, and casualty evacuation requirements. - Demonstrate electromagnetic pulse (directed energy) effects capabilities on CWMD hardened structures. - Develop additional applicability and effects with the Super Polymer Advanced Absorbent Material and demonstrate capability on a relevant Chem/Bio target simulation. - Transition Next Gen (6G/Next G) radio frequency threat countermeasures capability for EOD render safe operations to USSOCOM and other U.S. government entities. - Transition Augmented Reality capability and dataset modules to user program of record for EOD render safe operations. - Deliver final reports to the Departments of Defense, Justice, and Energy on hydrodynamic tests from predictive modeling campaigns. - Develop process for the removal of brittleness in production of all aspects of U.S. munitions. - Develop competitive industry prototypes for Hyper Nomad for advanced mobile missile detection capabilities. - Implement next generation, ultra-low-visibility, automated technical sensing, and machine learning tools to identify weapons of mass destruction via radio frequency, seismic, acoustic, electro-magnetic, cyber, optical, and/or chemical signatures. - Transition five sets of a novel detection capability to USSOCOM improving their capability by 100% for wide area search of emerging and pacing biological and chemical threats. - Transition to the Air Force Technical Applications Center operations center the Sensor Placement Optimization Tool that accounts for both environmental conditions and sensing capabilities enabling the DoD to efficiently place Chemical, Biological, Radiological and Nuclear (CBRN) sensors increasing the probability of detecting WMD activity. - Demonstrate the capability to accurately emplace acoustic sensors to aid in the support of future arms control initiatives. - Utilize leading edge technologies in additive manufacturing and Artificial Intelligence (AI) / Machine Learning (ML) to rapidly prototype a rugged, field-based system to fuse CBRN detection and sample processing technologies analyze emerging WMD threats in near real-time to support USSOCOM offensive operations. - Transition three CBRN sensing payloads with fully autonomous capability to create 3-D maps and detect/delineate WMD threats in subterranean environments. - Support weapon development and weapon effects phenomenology programs with test design, requirements, and execution support ensuring operational requirements are met and validated models are integrated into weaponeering planning tools. - Deliver enhanced Adversarial Weapons Asset Protection Toolkit capability in VAPO tool via a critical expansion to the library of adversarial weapons, adding the highest priority weapons for USINDOPACOM and USEUCOM. 			

PE 0603160BR: *COUNTER WEAPONS OF MASS DESTRUCTION*
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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	Project (Number/Name) RG / CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
- Mature FDDE organization and functionality featuring workshops, demonstrations and CCMD exercise support using agent-based modeling for system of systems analysis of WMD targets. - Develop and transition new pilot/exploratory Unmasking Denial and Deception technological and process approaches for finding and characterizing the toughest "Unknown/Unknown" targets that are masked by denial and deception techniques. FY 2025 to FY 2026 Increase/Decrease Statement: The decrease from FY 2025 to FY 2026 is due to the combined reductions and realignment below: 1) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 2) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 3) Reduction in Fourth Estate Science and Technology Funding by 2%. 4) Reduction in Federally Funded Research and Development Center support. 5) Realignment from this project to DTRA's O&M account to (1) convert secret collateral office space in DTRA's Fort Belvoir headquarters facility to expand Sensitive Compartmented Information Facility capacity as demand for DTRA support necessitates expanded mission processing on systems accredited for sensitive compartments and (2) fund higher priority requirements aligned to Defense budget priorities.			
Accomplishments/Planned Programs Subtotals	243.861	246.304	233.668

	FY 2024	FY 2025
Congressional Add: Advanced Manufacturing of Energetic Materials	8.500	0.000
FY 2024 Accomplishments: Reprogrammed to Department of Army in FY 2024.		
FY 2025 Plans: N/A		
Congressional Adds Subtotals	8.500	0.000

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• 0602718BR/RG: COUNTER WEAPONS	31.621	33.193	27.182	-	27.182	-	-	-	-	-	-

PE 0603160BR: COUNTER WEAPONS OF MASS DESTRUCTION
 ADVA...
 Defense Threat Reduction Agency

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency	Date: June 2025
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Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	Project (Number/Name) RG / CWMD TECHNOLOGIES AND CAPABILITIES DEVELOPMENT
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
OF MASS DESTRUCTION APPLIED RESEARCH											

Remarks

D. Acquisition Strategy

Assessment and selection of best performer for developmental requirements to meet specific military capability needs.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	Project (Number/Name) RR / CWMD TEST AND EVALUATION
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RR: CWMD TEST AND EVALUATION	15.270	7.450	12.130	12.050	-	12.050	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Countering Weapons of Mass Destruction (CWMD) Test and Evaluation project provides a unique national test capability for simulated Weapons of Mass Destruction (WMD) facilities and processes. This capability provides DTRA's structured and systematic end-to-end test event planning, preparation, management, execution, and data analysis. It also offers test instrumentation (data acquisition systems and optics), scientific analysis and predictions, test article construction, test article/test bed remediation, tunnel mining, architectural and engineering design, systems engineering and integration, and test data management. The project leverages 50 years of expertise in investigating weapons effects and target response across the spectrum of hostile environments that could be created by proliferative nations or terrorist organizations with access to advanced conventional weapons or WMD. Subject matter experts design full and sub-scale testing strategies focusing on weapon-target interaction with fixed soft and hardened facilities to include above ground facilities, cut-and-cover facilities, and deep underground tunnels.

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

	FY 2024	FY 2025	FY 2026
Title: RR: CWMD Test and Evaluation	7.450	12.130	12.050
<p>Description: This project employs technology development, modeling-and-simulation, and analysis support tools to meet Combatant Command requirements and anticipated threats. DTRA provides timely acquisition and delivery of solutions that respond to asymmetric threat requirements and gaps.</p> <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Finalize Data and Management Handling capability to manage two PetaBytes of historic test data and 200 TeraBytes per year of future data archived and accessible in compliance with DoD Scientific and Technical Information Program. - Develop new data analysis and visualization tools. Expand access to various networks. - Instrument test ranges and conduct 100 individual test events in support of RDT&E programs. - Replace 20% of instrumentation and data acquisition equipment in accordance with 5-year life cycle management plan. - Develop and replace obsolete and end of life data acquisition systems to ensure state-of-the-art testing capability for DTRA. - Enhance optics capabilities to enable testing at multiple locations simultaneously. - Provide test range support and DTRA facility support at Nevada National Security Site to enable end-to-end testing for four national-level CWMD tests (customers are expected to include 14 DoD and other USG Agencies). - Perform repairs and remediation of 1,000 feet of the DTRA-owned, deeply-buried underground tunnel test complex at Capitol Peak on White Sands Missile Range. 			

PE 0603160BR: COUNTER WEAPONS OF MASS DESTRUCTION
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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	Project (Number/Name) RR / CWMD TEST AND EVALUATION

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

	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Develop, refine, and upgrade existing modeling and simulation tools, most notably the Tunnel Air Blast model that incorporates the effects of debris on the resulting air blast in the tunnel, leading to a greatly improved capability to forecast air blast pressures resulting from in-tunnel detonations. - Integrate the results of the geotechnical characterization, the Z-model for penetration prediction, and geostatistical analysis into a fast-running tool that will provide accurate penetration predictions for selecting aim points and scoping penetration tests at the New Granite site. Includes 3D Rockworks model for visualization of site geologic variability. - Conduct 30 classified, independent operational assessments of new/novel kit/capabilities for Combatant Commands. - Produce 35 letters of observation and final reports. - Provide technical, instrumentation, and communications end-items and bench stock required to ensure the test division remains full mission capability, relevant to emerging test requirements, and updates items in accordance with service life plan. - Purchase various radio-frequency equipment to update stock of cabling, omni-directional antennas, and measurement systems. - Purchase various monitoring and analysis tools to support susceptibility, new tool, and network effects assessments. - Purchase Electronic Warfare/Electronic Surveillance and general radio-frequency collection, analysis, testing and measurements training for relevant capabilities to expand into the growing testing and evaluation support realm as services acquire more capabilities to execute in the mission space. <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Sustain a capability to manage 2 Petabytes of historic test data and 200 Terabytes per year of future data in compliance with DoD Scientific and Technical Information Program. Ensures data is accessible and available for Artificial Intelligence/Machine Learning tool development. - Provide diagnostics support for 40 CWMD test and evaluation activities at White Sands Missile Range, Nevada National Security Site, Kirtland Air Force Base, and other remote locations. - Enable the expansion and modernization of critical test range infrastructure. - Modernize diagnostic test and evaluation capabilities. - Fully operationalize high speed video camera capability to enable activities at two locations simultaneously. - Replenish bench stock of long-lead specialized items. - Sustain the diagnostic resources to support test and evaluation fielding, execution, and recovery for four mid-scale tests simultaneously. - Conduct research and development to develop new CWMD test and evaluation diagnostic capabilities to support the DTRA mission set. - Fully operationalize autonomous impulse momentum gage for measurements of blast with debris capability. - Fully operationalize fluorescence detector for measuring simulated chemical agents capability. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603160BR / COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	Project (Number/Name) RR / CWMD TEST AND EVALUATION

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

	FY 2024	FY 2025	FY 2026
- Develop, refine, and upgrade modeling and simulation tools (M&S) used by DTRA Reachback (M&S tools include the Integrated Munitions Effects Assessment and Blast Overpressure, Gemini, Thermal Airblast, LS-DYNA, Second-Order Hydrodynamic Automatic Mesh Refinement Code, Virtual Reality Equipment, Ansys Fluent Computational Fluid Dynamics model). - Conduct up to 28 independent operational assessments of new/novel kit/capes for U.S. Special Operations Command, U.S. Central Command, Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense, U.S. Army Intelligence and Security Command and others; support fielding determinations for new capabilities that address urgent needs and the development of new/novel CWMD technology to strengthen joint force ability to defeat adversary threats.			
<i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> The decrease from FY 2025 to FY 2026 is due to the combined impact of the reductions below: 1) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative. 2) Reduction in Fourth Estate Science and Technology Funding by 2%.			
Accomplishments/Planned Programs Subtotals	7.450	12.130	12.050

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

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026 Base</u>	<u>FY 2026 OOC</u>	<u>FY 2026 Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 0602718BR/RR: COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	19.872	17.408	18.463	-	18.463	-	-	-	-	-	-
• 0603176BR/RR: ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	7.788	0.000	0.000	-	0.000	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603176BR / <i>ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT</i>
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	6.343	7.788	0.000	0.000	0.000	0.000	-	-	-	-	-	-
RR: <i>CWMD TEST AND EVALUATION</i>	6.343	7.788	0.000	0.000	-	0.000	-	-	-	-	-	-

Note

On November 9, 2020, the Deputy Secretary of Defense directed the programmatic transfer of the National Assessment Group (NAG) from the Office of the Under Secretary of Defense for Acquisition & Sustainment (OUSD(A&S)) to DTRA for a better alignment of similar missions. This Program Element (PE), established in the FY 2023 budget request includes the RDT&E funding associated with this transfer.

A. Mission Description and Budget Item Justification

The NAG conducts rapid, secure, and independent assessments of critical and unique technologies to support the Military Services, other government agencies, and DTRA. This rapid assessment group provides independent assessments of critical and unique technologies and capabilities for customers in the areas of counter WMD and emerging threats. The NAG provides an independent review/analysis and reporting of operational assessments, capability demonstrations, and test events.

B. Program Change Summary (\$ in Millions)

	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026 Base</u>	<u>FY 2026 OOC</u>	<u>FY 2026 Total</u>
Previous President's Budget	7.990	0.000	0.000	-	0.000
Current President's Budget	7.788	0.000	0.000	-	0.000
Total Adjustments	-0.202	0.000	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	-0.202	0.000			
• Realignments	0.000	0.000	0.000	-	0.000

Change Summary Explanation

Funds in program element 0603176BR Project RR were realigned to Project RR in PE 0603160BR during FY 2025 to better integrate this activity administratively into the RDT&E portfolio.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency										Date: June 2025		
Appropriation/Budget Activity 0400 / 3					R-1 Program Element (Number/Name) PE 0603176BR / <i>ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT</i>				Project (Number/Name) RR / <i>CWMD TEST AND EVALUATION</i>			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RR: <i>CWMD TEST AND EVALUATION</i>	6.343	7.788	0.000	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

On November 9, 2020, the Deputy Secretary of Defense directed the programmatic transfer of the National Assessment Group (NAG) from the Office of the Under Secretary of Defense for Acquisition & Sustainment (OUSD(A&S)) to DTRA for a better alignment of similar missions. This PE, established in the FY 2023 budget request includes the RDT&E associated with this transfer.

A. Mission Description and Budget Item Justification

The National Assessment Group (NAG) conducts rapid, secure, and independent assessments of critical and unique technologies to support the Military Services, other government agencies, and DTRA. This rapid assessment group provides independent assessments of critical and unique technologies and capabilities for customers in the areas of counter weapons of mass destruction (CWMD) and emerging threats. The NAG provides an independent review/analysis and reporting of operational assessments, capability demonstrations, and test events. Funds in program element 0603176BR Project RR were realigned to Project RR in PE 0603160BR during FY 2025 to better integrate this activity administratively into the RDT&E portfolio.

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

	FY 2024	FY 2025	FY 2026
Title: Project RR: CWMD Test and Evaluation	7.788	-	-
Description: Project RR conducts independent assessments, analyses, reviews, capability demonstrations and test events.			
Accomplishments/Planned Programs Subtotals	7.788	-	-

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

Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• 0602718BR/RR: <i>COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH</i>	19.872	17.408	18.463	-	18.463	-	-	-	-	-	-
• 0603160BR/RR: <i>COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT</i>	7.450	12.130	12.050	-	12.050	-	-	-	-	-	-

PE 0603176BR: *ADVANCED CONCEPTS AND PERFORMANCE ASSESS...*

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603176BR / <i>ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT</i>	Project (Number/Name) RR / <i>CWMD TEST AND EVALUATION</i>

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

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	PE 0604551BR / CATAPULT INFORMATION SYSTEM											
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	19.416	8.117	7.475	4.161	0.000	4.161	-	-	-	-	-	-
RA: <i>CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES</i>	19.416	8.117	7.475	4.161	-	4.161	-	-	-	-	-	-

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 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 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	8.328	7.475	7.625	-	7.625
Current President's Budget	8.117	7.475	4.161	-	4.161
Total Adjustments	-0.211	0.000	-3.464	0.000	-3.464
• 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	-0.211	0.000			
• Realignment	0.000	0.000	-3.464	-	-3.464

Change Summary Explanation

The decrease from the previous President's Budget is due to a funding realignment from Catapult development and testing activities in Project RA - CWMD Cross-Cutting Technical and Information Sciences to fund higher priority Agency requirements in DTRA's O&M account.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency										Date: June 2025		
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 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RA: CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES	19.416	8.117	7.475	4.161	-	4.161	-	-	-	-	-	-
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 the Defense Threat Reduction Agency's (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, and engagement for neutralizing, attacking and defeating both current and emerging counter weapons of mass destruction (CWMD) threats.

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. Catapult provides an extensible continuously augmented, near real-time updated data analytic platform of information regarding threats and threat networks along with a set of discovery, access, aggregation, correlation, analysis and sharing tools and services. 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 930 data sources on SIPRNet and more than 290 data sources on 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.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency	Date: June 2025
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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
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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 2024	FY 2025	FY 2026
<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 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 the plan approved during the Cloud Readiness Assessment. - Assess architecture, processes, and approaches to implement Catapult capabilities required to satisfy Zero Trust Architecture requirements. - Develop and implement prioritized work streams to enable mission specific use cases in isolated, secure Data Zones for exploration and analysis. - Plan, develop, build, and deploy an unclassified Catapult data lake for use with unclassified versions of ANTS applications and tools. <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Optimize the Catapult Data Platform including analysis of Cloudera data platform alternatives and migration assessment, catapult framework improvements to add additional data types to the Catapult data lake and enhance catapult capabilities providing text translation and optical character recognition for catapult data, implement prioritized work streams to enable mission specific use cases in isolated, secure Data Zones for exploration and analysis. - Expand advanced data science capabilities including large language model ontology processing improvements, metadata tagging enhancements and natural language processing as a service. - Innovate data analysis and data visualization capabilities providing updated common Countering Weapons of Mass Destruction/ Chemical, Biological, Radiological, and Nuclear information visualization from Catapult data lake feeds, advanced grouping visuals, and geospatial search enhancements. <p>FY 2025 to FY 2026 Increase/Decrease Statement:</p>	8.117	7.475	4.161

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
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

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

	FY 2024	FY 2025	FY 2026
The decrease from FY 2025 to FY 2026 is due to the maturity of Catapult along the Software Acquisition Pathway. With reductions to RDT&E funding, the Catapult Program Management Office will focus mainly on sustainment efforts, while still providing substantial development efforts toward optimization, expansion, and innovations of the Catapult data platform and its analytics.			
Accomplishments/Planned Programs Subtotals	8.117	7.475	4.161

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

Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• 0602718BR/RA: COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	38.239	17.202	16.672	-	16.672	-	-	-	-	-	-
• 0605502BR/RA: SMALL BUSINESS INNOVATION RESEARCH	17.801	0.000	0.000	-	0.000	-	-	-	-	-	-
• 0603160BR/RA: COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	75.766	74.806	63.598	-	63.598	-	-	-	-	-	-

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-4A, RDT&E Schedule Details: PB 2026 Defense Threat Reduction Agency		Date: June 2025
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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Catapult and Technology Analysis</i>				
Catapult / Attack the Network Tool Suite (ANTS) Support	1	2023	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	52.859	14.049	14.841	14.931	0.000	14.931	-	-	-	-	-	-
RD: NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT	52.859	14.049	14.841	14.931	-	14.931	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Counter Weapons of Mass Destruction (CWMD) Systems Development program element supports the development and demonstration of technologies and systems for the CWMD mission, including modeling and simulation capabilities, verification and monitoring technologies, and decision support systems.

B. Program Change Summary (\$ in Millions)

	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026 Base</u>	<u>FY 2026 OOC</u>	<u>FY 2026 Total</u>
Previous President's Budget	14.414	14.841	15.069	-	15.069
Current President's Budget	14.049	14.841	14.931	-	14.931
Total Adjustments	-0.365	0.000	-0.138	0.000	-0.138
• 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	-0.365	0.000			
• Realignment	0.000	0.000	-0.138	-	-0.138

Change Summary Explanation

No changes to investment. The increase from FY 2025 to FY 2026 is due to the combined impact of applying inflation and the reductions below.

- 1) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative.
- 2) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency										Date: June 2025		
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT				Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RD: NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT	52.859	14.049	14.841	14.931	-	14.931	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project supports the development of capabilities for the Defense Threat Reduction Agency (DTRA) to counter proliferation and weapons of mass destruction (WMD) and to model the consequences of the use of nuclear weapons and integrate these capabilities for Combatant Command use. This project encompasses the following related areas.

DTRA's Enhanced Consequence Analysis (ECA) program performs research and development to improve the reliability and effectiveness of capabilities related to the consequence of execution of a nuclear weapon. This program delivers nuclear weapon effects (NWE) decision support tools for use during strategic and operational planning. The ECA program directly supports U.S. and allied warfighter planning requirements, including the Integrated Strategic Planning and Analysis Network Increment 5, an acquisition category 1A Major Automated Information System that supports developing nuclear and conventional force application plans.

DTRA's Nuclear Arms Control Technologies (NACT) program performs research and development to improve the sustainability, reliability, and effectiveness of capabilities related to its operational mission to install, operate, maintain, and sustain the waveform and radionuclide nuclear detonation detection stations and a radionuclide analysis laboratory comprising the majority of the U.S. portion of the International Monitoring System (IMS). This system delivers data continuously to the U.S. monitoring and verification community supporting warfighter and interagency nuclear-event response in support of the United States and Department of Defense (DoD). The NACT program directly supports U.S. and allied warfighter and national technical monitoring requirements and provides vital data used by the treaty monitoring community, warfighter planners, DoD, other U.S. Government agencies, and international agencies.

The Nuclear Capabilities Services (NuCS) program performs RDT&E to improve capabilities to model nuclear weapon effects environments and simulate the response of systems and networks to these effects. Starting with NWE modeling and simulation (M&S) capabilities rooted in the DoD nuclear testing program, NuCS augments these legacy codes through integration of higher-fidelity reduced-order models built by DTRA applied research efforts that combine first-principle science & technology M&S and experimental research. Through technology updates to legacy codes and integration of new models, NuCS provide a standard source of NWE M&S capabilities for all DoD users. The ECA program integrates NuCS capabilities and these M&S capabilities with operational databases and systems and works with end-users to provide a user experience specifically designed for nuclear planning. Together, these programs support United States and allied planning and decision making in the event of nuclear weapon use.

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

	FY 2024	FY 2025	FY 2026
Title: RD - Nuclear Technologies and Capabilities Development	14.049	14.841	14.931
FY 2025 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Integrate impacts to infrastructure capabilities into cloud-ready nuclear planning tools for U.S. Strategic Command (USSTRATCOM), UK/Ministry of Defense, and North Atlantic Treaty Organization (NATO)/ Supreme Headquarters Allied Powers Europe (SHAPE). - Implement algorithms to enable transition of infrasound propagation models to DoD systems and complete Operational Test and Evaluation of next generation International Monitoring System (IMS) radionuclide lab analysis capability. - Complete installation of 32nd IMS station and deliver improved "state of health" IMS performance and predictive algorithms for monitoring arrays using artificial intelligence/machine learning techniques. - Demonstrate emerging-threat monitoring capability that leverages current systems and extend comprehensive analyses of sensor data from DTRA/Department of State/National Nuclear Security Administration (high-explosive experiments by leveraging machine learning techniques). <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Develop multi-mission monitoring capabilities through the Nuclear Arms Control Technologies effort to improve U.S. IMS, strategic DoD missions, and Interagency emergency response while strengthening arms control and preparing for WMD crisis events. - Transition installation of 32nd U.S. IMS station into operations, enabling DoD's nuclear explosion monitoring capacities and detection of evasive nuclear tests. - Start testing and evaluation of next-gen radionuclide particulate sampler for potential IMS integration to improve detection capability. - Begin integration testing of transformative noble gas analysis system in preparation for transition to DoD to improve nuclear detonation attribution. - Provide USSTRATCOM higher fidelity targeting analytic capabilities via ECA, expanding to meet UK/Ministry of Defense, and NATO/SHAPE needs. <p>FY 2025 to FY 2026 Increase/Decrease Statement: The increase from FY 2025 to FY 2026 is due to the combined impact of applying inflation and the reductions below. 1) Reduction in discretionary travel funding to align with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative." 2) Reduction in contracts for Advisory and Assistance Services to promote efficiencies and advance the policies of the Administration in alignment with Executive Order 14222, "Implementing the President's Department of Government Efficiency Cost Efficiency Initiative."</p>			
Accomplishments/Planned Programs Subtotals	14.049	14.841	14.931

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

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

<u>Line Item</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u> <u>Base</u>	<u>FY 2026</u> <u>OOB</u>	<u>FY 2026</u> <u>Total</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>FY 2030</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0603160BR/RD: COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	55.004	76.872	84.153	-	84.153	-	-	-	-	-	-
• 0602718BR/RD: COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH	119.470	102.812	99.178	-	99.178	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Assess government, academic, and industrial performers and make selections based upon a "best fit for task" criteria. Common government awardees include DoD Service Laboratories and the Department of Energy National Laboratories.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT
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Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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			
Enhanced Consequence Analysis (ECA) capability development	C/CPFF	Booz Allen Hamilton : McLean, VA	6.625	1.807	Nov 2023	1.829	Nov 2024	0.000		-		0.000	Continuing	Continuing	10.261
Nuclear Capabilities Service (NuCS) nuclear weapon effects models and integration development	C/CPFF	Applied Research Associates : Raleigh, NC	2.935	2.536	Dec 2023	3.487	Dec 2023	0.000		-		0.000	0.000	8.958	8.958
Nuclear, Chemical, Biological, Radiological and high-Explosive (NCBRE) Analysis Toolset (NATs) development	C/CPFF	Leidos : San Diego, CA	0.000	0.000		0.500	Dec 2024	0.000		-		0.000	0.000	0.500	0.500
Nuclear Capabilities Service (NuCS) nuclear weapon effects models and integration development	C/TBD	TBD : TBD	0.000	0.000		0.000		3.586	Dec 2025	-		3.586	0.000	3.586	3.586
Enhanced Consequence Analysis (ECA) capability development	C/TBD	TBD : TBD	0.000	0.000		0.000		1.829	Nov 2025	-		1.829	0.000	1.829	1.829
Nuclear, Chemical, Biological, Radiological and high-Explosive (NCBRE) Analysis Toolset (NATs) development_2	C/CPFF	TBD : TBD	-	-		-		0.500	Dec 2025	-		0.500	Continuing	Continuing	0.500
Subtotal			9.560	4.343		5.816		5.915		-		5.915	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Defense Threat Reduction Agency												Date: June 2025			
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT					Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT					

Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Radionuclide sensor, station, laboratory and network improvements	FFRDC	Pacific Northwest National Laboratory : Richland, WA	5.783	1.101	Dec 2023	0.919	Dec 2024	1.440	Dec 2025	-		1.440	Continuing	Continuing	9.243
Seismic and Infrasound sensor, station, and network improvements; validation and verification testing	FFRDC	Sandia National Laboratory : Albuquerque, NM	6.060	1.461	Dec 2023	1.043	Dec 2024	1.287	Dec 2025	-		1.287	Continuing	Continuing	9.851
Radionuclide sensor, station, and network improvements	MIPR	Air Force Technical Application Center : Patrick AFB, FL	1.638	0.000		0.000		0.000		-		0.000	0.000	1.638	1.638
Radionuclide sensor, station, laboratory and network improvements	C/CPFF	General Dynamics Mission Systems, Inc. : Fairfax, VA	2.086	0.661	Nov 2023	0.788	Jan 2025	0.798	Jan 2026	-		0.798	Continuing	Continuing	4.333
Station and network improvements	C/CPFF	Leidos Innovations Corp : Alexandria, VA	0.935	0.000		0.403	Nov 2024	0.460	Nov 2025	-		0.460	Continuing	Continuing	1.798
Seismic and Infrasound sensor, station, and network improvements	C/CPFF	Pennsylvania State University : State College, PA	1.584	0.300	Feb 2024	0.400	Jan 2025	0.300	Jan 2026	-		0.300	Continuing	Continuing	2.584
Seismic and Infrasound sensor, station, and network improvements; validation and verification testing	C/CPFF	University of Alaska Fairbanks : Fairbanks, AK	0.538	0.260	Mar 2024	0.411	Mar 2025	0.419	Mar 2026	-		0.419	Continuing	Continuing	1.628
Radionuclide sensor, station, laboratory and network improvements	FFRDC	Argonne National Laboratory : Argonne, IL	0.802	0.000		0.400	Mar 2025	0.100	Mar 2026	-		0.100	Continuing	Continuing	1.302
Seismic and Infrasound sensor, station, and network improvements; validation and verification testing	MIPR	University Affiliated Research Center, University of Alaska : Fairbanks, AK	1.865	0.371	Jan 2024	0.760	Jan 2025	0.828	Jan 2026	-		0.828	Continuing	Continuing	3.824

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Appropriation/Budget Activity 0400 / 5				R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT				Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT							

Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Radionuclide sensor, station, and network improvements	FFRDC	Savannah River National Laboratory : Savannah River Site Aiken, SC	2.219	0.000		0.000		0.000		-		0.000	0.000	2.219	2.219
Radionuclide sensor, station, and network improvements	C/CPFF	Draper : Cambridge, MA	3.300	0.124	Feb 2024	0.224	Feb 2025	0.000		-		0.000	0.000	3.648	3.648
Seismic and Infrasound sensor, station, and network improvements; validation and verification testing	C/CPFF	National Nuclear Center of Kazakhstan : Kazakhstan	0.550	0.000		0.000		0.000		-		0.000	0.000	0.550	0.550
Applied Research Associates : Albuquerque, NM	C/CPFF	Applied Research Associates : Albuquerque, NM	0.450	0.000		0.000		0.000		-		0.000	0.000	0.450	0.450
Seismic and Infrasound sensor, station, and network improvements; comprehensive analysis of high explosive experiments	FFRDC	Lawrence Livermore National Laboratory : Livermore, CA	0.000	0.555	Dec 2023	0.275	Dec 2024	0.000		-		0.000	0.000	0.830	0.830
Seismic and Infrasound sensor, station, and network improvements; comprehensive analysis of high explosive experiments	C/CPFF	Applied Research Associates : Arlington, VA	0.000	0.456	Feb 2024	0.111	Nov 2024	0.350	Nov 2025	-		0.350	Continuing	Continuing	0.917
Seismic and Infrasound sensor, station, and network improvements; new station development and installation	C/CPFF	University of Alaska Fairbanks : Fairbanks, AK	0.000	1.043	Apr 2024	1.048	Mar 2025	0.300	Nov 2025	-		0.300	Continuing	Continuing	2.391
Support costs for acquisitions ending before reporting period	C/Various	Various : Various	10.600	-		-		-		-		-	0.000	10.600	10.600
Subtotal			38.410	6.332		6.782		6.282		-		6.282	Continuing	Continuing	N/A

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Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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			

Remarks
Prior Year funding for Support Cost Category acquisitions ending before FY23 totals \$10.6M.

Test and Evaluation (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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			
Enhanced Consequence Analysis (ECA) T&E	C/CPFF	Booz Allen Hamilton : McLean, VA	2.220	1.539	Nov 2023	1.571	Nov 2024	0.000		-		0.000	0.000	5.330	5.330
NuCS T&E	C/CPFF	Applied Research Associates : Raleigh, NC	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	0.500
NuCS T&E_2	C/CPFF	Applied Research Associates : Raleigh, NC	1.808	1.754	Sep 2024	0.589	Sep 2025	0.000		-		0.000	0.000	4.151	4.151
NuCS T&E_3	C/TBD	TBD : TBD	0.000	0.000		0.000		1.000	Dec 2025	-		1.000	Continuing	Continuing	1.000
Enhanced Consequence Analysis (ECA) T&E	C/TBD	TBD : TBD	0.000	0.000		0.000		1.571	Nov 2025	-		1.571	Continuing	Continuing	1.571
Subtotal			4.528	3.293		2.160		2.571		-		2.571	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 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			
Travel	Reqn	Various : Various	0.361	0.081	Nov 2023	0.083	Nov 2024	0.163	Nov 2025	-		0.163	Continuing	Continuing	0.688
Subtotal			0.361	0.081		0.083		0.163		-		0.163	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Defense Threat Reduction Agency		Date: June 2025
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FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
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

Enhanced Consequence Analysis (ECA)	
Test and evaluation of ECA integrated nuclear weapon effects models in preparation for deployment on strategic and operational planning networks	[REDACTED]
Update ECA decision support tools and integrate new nuclear weapon effects models once mature and available to meet DoD and Allied planning requirements	[REDACTED]
Train users on the employment, assumptions, and limitations of ECA nuclear weapon decision support tools	[REDACTED]
Nuclear Capabilities Services (NuCS)	
Develop NuCS Demonstration Environment for Model Outputs (NuCS DEMO) application and establish initial capability for early user assessment engagements on DoD networks	[REDACTED]
Develop initial training materials for NuCS 2023 production release; release training materials	[REDACTED]
Conduct annual user review; implement changes to NuCS products; release NuCS 2025	[REDACTED]
Conduct annual user review; implement changes to NuCS products; release NuCS 2026	[REDACTED]

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT
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	FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
	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
response missions to enhance nuclear-event response capabilities																												
Optimize and improve IMS seismic, infrasound, and radionuclide sensors: comprehensive analysis of high explosive experiments																												
<i>Nuclear, Chemical, Biological, Radiological and high-Explosive (NCBRE) Analysis Toolset (NATs)</i>																												
Demonstrate NATs decision support tool capabilities; Conduct ongoing V&V of NATs for production release; conduct early user assessment for each release																												
Conduct review of training materials for users, develop or revise training materials based on changes made to releases, and support training classes																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Enhanced Consequence Analysis (ECA)				
Test and evaluation of ECA integrated nuclear weapon effects models in preparation for deployment on strategic and operational planning networks	1	2024	4	2030
Update ECA decision support tools and integrate new nuclear weapon effects models once mature and available to meet DoD and Allied planning requirements	1	2024	4	2030
Train users on the employment, assumptions, and limitations of ECA nuclear weapon decision support tools	1	2024	4	2030
Nuclear Capabilities Services (NuCS)				
Develop NuCS Demonstration Environment for Model Outputs (NuCS DEMO) application and establish initial capability for early user assessment engagements on DoD networks	1	2024	1	2025
Develop initial training materials for NuCS 2023 production release; release training materials	1	2024	4	2026
Conduct annual user review; implement changes to NuCS products; release NuCS 2025	1	2024	2	2025
Conduct annual user review; implement changes to NuCS products; release NuCS 2026	1	2024	2	2026
Conduct annual user review; implement changes to NuCS products; release NuCS 2027	1	2025	2	2027
Conduct annual user review; implement changes to NuCS products; release NuCS 2028	1	2026	2	2028
Conduct annual user review; implement changes to NuCS products; release NuCS 2029	1	2027	2	2029

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605000BR / COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DEVELOPMENT	Project (Number/Name) RD / NUCLEAR TECHNOLOGIES AND CAPABILITIES DEVELOPMENT
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Conduct annual user review; implement changes to NuCS products; release NuCS 2030	1	2028	2	2030
Conduct annual training review of training materials for users, develop new training materials based on changes made to annual release as required	1	2024	4	2030
<i>Nuclear Arms Control Technology</i>				
Optimize and improve IMS seismic, infrasound, and radionuclide sensors	1	2024	4	2025
Optimize and improve IMS station performance: validation and verification testing of RDTE concepts to enable operational implementation	1	2024	4	2030
Optimize and improve IMS seismic, infrasound, and radionuclide sensors: testing and evaluation of next generation systems	1	2024	4	2030
Optimize and improve IMS seismic, infrasound, and radionuclide sensors: support of DoD and Interagency nuclear-event response missions to enhance nuclear-event response capabilities	1	2024	4	2028
Optimize and improve IMS seismic, infrasound, and radionuclide sensors: comprehensive analysis of high explosive experiments	1	2024	4	2027
<i>Nuclear, Chemical, Biological, Radiological and high-Explosive (NCBRE) Analysis Toolset (NATs)</i>				
Demonstrate NATs decision support tool capabilities; Conduct ongoing V&V of NATs for production release; conduct early user assessment for each release	1	2025	4	2030
Conduct review of training materials for users, develop or revise training materials based on changes made to releases, and support training classes	1	2025	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

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 0605141BR / <i>MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)</i>
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	24.599	9.080	9.440	9.573	0.000	9.573	-	-	-	-	-	-
MA: <i>MARMS</i>	24.599	9.080	9.440	9.573	-	9.573	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Mission Assurance Risk Management System (MARMS) is a Department of Defense (DoD) risk management system that directly supports the Secretary of Defense Mission Assurance responsibilities as defined in the DoD Directive 3020.40, Mission Assurance, with the objectives of creating resilience and supporting critical processes to enable the protection of assets and ensuring defense critical missions across 17 Mission Assurance Related Programs and Activities. MARMS functions as an integration framework spanning multiple security domains that will support risk-informed decision-making, resource investment, and improved synchronization at different levels within DoD. MARMS supports multiple Joint Capability Areas: Command and Control, Logistics, and Protection. MARMS is a joint program and an acquisition category III software-intensive and situational awareness program in the agile-based Adaptive Acquisition Framework – Software Pathway.

B. Program Change Summary (\$ in Millions)

	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026 Base</u>	<u>FY 2026 OOC</u>	<u>FY 2026 Total</u>
Previous President's Budget	9.316	9.440	9.573	-	9.573
Current President's Budget	9.080	9.440	9.573	-	9.573
Total Adjustments	-0.236	0.000	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	-0.236	0.000			

Change Summary Explanation

No changes to investment. Increase from FY 2025 to FY 2026 reflects the rate of inflation.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605141BR / MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)	Project (Number/Name) MA / MARMS
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
MA: MARMS	24.599	9.080	9.440	9.573	-	9.573	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Mission Assurance Risk Management System (MARMS) is a Department of Defense (DoD) risk management system that directly supports the Secretary of Defense's Mission Assurance (MA) responsibilities as defined in the DoD Directive 3020.40, Mission Assurance, with the objectives of creating resilience and supporting critical processes to enable the protection of assets and ensuring defense critical missions. MARMS will function as an integration framework spanning multiple security domains that will support risk-informed decision-making, resource investment, and improved synchronization at different levels within DoD. MARMS supports multiple Joint Capability Areas: Command and Control, Logistics, and Protection.

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

	FY 2024	FY 2025	FY 2026
Title: MA - Mission Assurance Risk Management System	9.080	9.440	9.573
<p>Description: MARMS is a multi-year enduring program that will federate a family of MA systems to be integrated as an enterprise solution defined in the MARMS Information System Initial Capabilities Document (ICD) and Requirements Definition Package (RDP) for Increment 1. The RDP-1 defines multiple spirals of major technological improvements. Each spiral is comprised of multiple Capability Drops (CD) that define specific capabilities. Increment 2 using the Adaptive Framework's Software ICD integrates four new Mission Assurance Related Programs and Activities (MARPA's) and adds new CD.</p> <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Improve the core DTRA capabilities of the Information Sharing Registry (CD1) and the Mission Assurance Viewer and Analysis Portal on Non-classified Internet Protocol Router Network/Secret Internet Protocol Router Network/Joint Worldwide Intelligence Communications System (JWICS) to continue to enhance the capability and improve data management for the Increment 2 risk data. - Continue to enhance the data integration and collection capabilities for the new instance of the Mission Assurance Viewer and Analysis Portal on JWICS (CD5). - Continue to build out the capabilities of the Assessment Modules (CD2) to allow for assessment data collection across multiple MARPA's as per Increment 2 validated joint requirements. - Continue to develop and populate data within base capability [Data Registry, Enterprise Viewer, Cross Domain] for Unclassified MARMS Architecture to support Increment 2 MARPA's. <p>FY 2026 Plans:</p> <ul style="list-style-type: none"> - Continue to improve the core DTRA capabilities of the Information Sharing Registry (CD1) by enhancing the capability and improving data management for Increment 2 MARPA's. 			

PE 0605141BR: MISSION ASSURANCE RISK MANAGEMENT SYSTEM...

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency	Date: June 2025
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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605141BR / MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)	Project (Number/Name) MA / MARMS
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Consolidate Cross Domain Solution contracts and capabilities with the consolidated cloud hosting solution (CD1, CD6, CD7, & CD9) to realize efficiencies. - Continue to build out the capabilities of the Enterprise Viewer (CD2, CD4 & CD8) to allow for assessment data collection for Increment 2 MARPAs. - Plan for Increment 3 MARPA integration. <p>FY 2025 to FY 2026 Increase/Decrease Statement: The increase from FY 2025 to FY 2026 is due to inflation.</p>			
Accomplishments/Planned Programs Subtotals	9.080	9.440	9.573

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

N/A

Remarks

D. Acquisition Strategy

The acquisition strategy for MARMS is based on its designation as a joint DoD program and being a software-intensive and situational awareness program. Therefore, it is aligned to follow the acquisition construct defined by the agile-based DoD Instruction 5000.87 Adaptive Acquisition Framework – Software Pathway. In order to accomplish the Mission Assurance Strategy and Policy of aligning and integrating the risk based data for the 17 MARPA, the MARMS Program Management Office will build on the initial foundational/baseline information technology capabilities and data integration investments for Increments 1 and 2 for the remaining MARPAs per the guidance of the Deputy Assistant Secretary of Defense for Defense Continuity and Mission Assurance and the Joint Staff J36 Mission Assurance Branch. Joint Capabilities Integration and Development System Information Technology-Box terminology of Modernize and Integrate, Initial Operating Capability/Full Operational Capability, will be phased out with continuous Development, Security, and Operations as an enduring program.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605141BR / MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)	Project (Number/Name) MA / MARMS
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Product Development (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mission Assurance and Risk Management System (MARMS) Hosting	PO	Multiple : Multiple	1.130	0.975	Oct 2023	0.975	Oct 2024	1.000	Oct 2025	-		1.000	Continuing	Continuing	0.000
Capability Drop (CD) 1 - Information Sharing	MIPR	U.S. Army Futures Command (AFC) : Picatinny Arsenal, NJ	10.499	1.764	Nov 2023	2.000	Nov 2025	3.000	Dec 2025	-		3.000	Continuing	Continuing	0.000
CD2 - Assessment Capability	MIPR	USAF : Washington, DC	2.351	2.000	Feb 2024	2.000	Feb 2025	0.900	Feb 2026	-		0.900	Continuing	Continuing	0.000
CD3 - Existing System Upgrades	MIPR	Multiple : Multiple	3.238	1.400	Feb 2024	1.400	Feb 2025	1.300	Nov 2025	-		1.300	Continuing	Continuing	0.000
CD4/5/8 - Workspace/Viewers	C/CPFF	Appdiction Studio, LLC : Fort Belvoir, VA	4.701	1.441	Apr 2024	1.565	Apr 2025	2.000	Apr 2026	-		2.000	Continuing	Continuing	0.000
CD 6/7/9 - Data Management Solutions	PO	Multiple : Multiple	1.419	1.000		1.000		0.700		-		0.700	0.000	4.119	4.119
Subtotal			23.338	8.580		8.940		8.900		-		8.900	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2024		FY 2025		FY 2026 Base		FY 2026 OOC		FY 2026 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Office Subject Matter Expertise Support	FFRDC	Institute for Defense Analysis : Ft. Belvoir, VA	0.667	0.250	Nov 2023	0.250	Nov 2024	0.373	Nov 2025	-		0.373	Continuing	Continuing	1.540
Program Management Office Subject Matter Expertise Support	C/CPFF	Nakupuna Solutions, LLC : Ft. Belvoir, VA	0.594	0.250	May 2024	0.000		0.000		-		0.000	0.000	0.844	0.844
Program Management Office Subject matter Expertise Support	C/TBD	TBD : Fort Belvoir	0.000	0.000		0.250	Jul 2025	0.300	Jul 2026	-		0.300	Continuing	Continuing	0.850
Subtotal			1.261	0.500		0.500		0.673		-		0.673	Continuing	Continuing	N/A

PE 0605141BR: MISSION ASSURANCE RISK MANAGEMENT SYSTEM...

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Exhibit R-4, RDT&E Schedule Profile: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605141BR / MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)	Project (Number/Name) MA / MARMS
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FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
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

Mission Assurance and Risk Management (MARMS)	
Mission Assurance and Risk Management System (MARMS) Hosting	
Capability Drop (CD) 1: Information Sharing	
CD 2: Assessment Capability	
CD 3: Existing System Upgrades	
CD 4/5/8: Workspace/Viewer	
CD 6/7/9: Data Management Solutions	
PMO SME Support	

FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				FY 2030			
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

Mission Assurance and Risk Management (MARMS)	
Mission Assurance and Risk Management System (MARMS) Hosting	
Capability Drop (CD) 1: Information Sharing	
CD 2: Assessment Capability	
CD 3: Existing System Upgrades	
CD 4/5/8: Workspace/Viewer	
CD 6/7/9: Data Management Solutions	
PMO SME Support	

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Exhibit R-4A, RDT&E Schedule Details: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605141BR / <i>MISSION ASSURANCE RISK MANAGEMENT SYSTEM (MARMS)</i>	Project (Number/Name) MA / MARMS
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Mission Assurance and Risk Management (MARMS)</i>				
Mission Assurance and Risk Management System (MARMS) Hosting	1	2023	4	2030
Capability Drop (CD) 1: Information Sharing	1	2023	4	2030
CD 2: Assessment Capability	1	2023	4	2030
CD 3: Existing System Upgrades	1	2023	4	2030
CD 4/5/8: Workspace/Viewer	1	2023	4	2030
CD 6/7/9: Data Management Solutions	1	2023	4	2025
PMO SME Support	1	2023	4	2030

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605502BR / <i>SMALL BUSINESS INNOVATION RESEARCH</i>
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	0.000	17.801	0.000	0.000	0.000	0.000	-	-	-	-	-	-
RA: <i>CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES</i>	0.000	17.801	0.000	0.000	-	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs provide the means for stimulating technological innovation in the private sector, strengthens the role of small business in meeting the Department of Defense (DoD) research and development needs; fosters and encourages participation of minority and disadvantaged businesses in technological innovation; and increases the commercial application of the DoD supported research and development results. These efforts are responsive to Public Law 106-554 and the SBIR and STTR Extension Act of 2022 (Public Law 117-183).

B. Program Change Summary (\$ in Millions)

	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026 Base</u>	<u>FY 2026 OOC</u>	<u>FY 2026 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	17.801	0.000	0.000	-	0.000
Total Adjustments	17.801	0.000	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	17.801	0.000			

Change Summary Explanation

Funding for the SBIR program is consolidated in this program element during the year of execution.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605502BR / <i>SMALL BUSINESS INNOVATION RESEARCH</i>	Project (Number/Name) RA / <i>CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES</i>
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
RA: <i>CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES</i>	0.000	17.801	0.000	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This project provides the means for stimulating technological innovation in the private sector; strengthens the role of small business in meeting the DoD research and development needs; fosters and encourages participation of minority and disadvantaged businesses in technological innovation; and increases the commercial application of the DoD supported research and development results. These efforts are responsive to Public Law 106-554.

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

	FY 2024	FY 2025	FY 2026
Title: RA: <i>CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES</i>	17.801	0.000	0.000
<p>FY 2025 Plans: Once SBIR/STTR funds are reprogrammed in the Year of Execution, DTRA plans on accomplishing the following:</p> <ul style="list-style-type: none"> - Develop technologies that demonstrate capabilities to detect, identify, and differentiate high performance concrete and ultra-high performance concrete; research advancements in ultrasonic pulse velocity, pulsed fiber lasers, laser induced plasma shockwave generation, acoustic technologies, laser-based ultrasonic testing, laser scanning technologies (ex. LiDAR), and laser-induced breakdown spectroscopy. - Develop computational modeling tools to reconstruct heavy weapon repeated firing events in combat scenarios and to quantify blast exposure and risk injury scores to service members; enable accurate prediction of the blast dose from a single exposure and the cumulative blast dose from repeated exposures encountered during prolonged firing in combat operations - Develop and demonstrate a fast-running approach, tool, or methodology for determining the necessary laser and tamper parameters to achieve a desired impulse on a material or 3D structure of interest. - Develop Nuclear Plume Advisory Algorithm to demonstrate on simulated scenes for use in satellite products. - Develop synthetic and game environments for information resilience training and exercises to understand and mitigate Foreign Malign Influence. - Research technologies to enable the real-time streaming of radiation sensor data in subsea (underwater) environments. - Research and develop applications of nanoelectromechanical systems towards the development of an ultracompact handheld-sized airborne alpha contamination monitoring system. 			

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605502BR / <i>SMALL BUSINESS INNOVATION RESEARCH</i>	Project (Number/Name) RA / <i>CWMD CROSS-CUTTING TECHNICAL AND INFORMATION SCIENCES</i>

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

	FY 2024	FY 2025	FY 2026
<p>- Develop non-cryogenic, spectroscopic radiation imaging technologies capable of imaging high-energy gamma radiation resulting from the neutron interrogation of a chemical munition and the ability to correctly identify the atomic composition of the target, including any casing materials.</p> <p>- Develop ultra-compact, high-voltage, high energy density, capacitors, and related advanced dielectric materials to support the development of advanced portable x-ray radiographic imaging systems.</p> <p>- Develop technologies that can automatically extract and analyze classification markings from historical nuclear testing documents; streamline the manual classification review process by leveraging machine learning models to identify existing classifications, extract document topics and sensitive information, and present the results in a structured format for expert review.</p> <p>FY 2026 Plans: FY 2026 plans for SBIR and STTR activities are dependent on outcomes of work completed during FY 2025 efforts currently in progress. Exact plans for FY 2026 will be developed during the 3rd and 4th quarters of FY 2025. Funding for FY 2026 SBIR/STTR efforts is expected to be approximately \$15M.</p>			
Accomplishments/Planned Programs Subtotals	17.801	0.000	0.000

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

Line Item	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
• 0604551BR/RA: <i>CATAPULT INFORMATION SYSTEM</i>	8.117	7.475	4.161	-	4.161	-	-	-	-	-	-
• 0602718BR/RA: <i>COUNTER WEAPONS OF MASS DESTRUCTION APPLIED RESEARCH</i>	38.239	17.202	16.672	-	16.672	-	-	-	-	-	-
• 0603160BR/RA: <i>COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT</i>	75.766	74.806	63.598	-	63.598	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0606853BR / <i>MANAGEMENT TECHNICAL AND INTERNATIONAL SUPPORT</i>
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COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
Total Program Element	10.039	11.617	10.039	14.841	0.000	14.841	-	-	-	-	-	-
MN: <i>DEFENSE CRITICAL INFRASTRUCTURE - MISSION ASSURANCE</i>	10.039	11.617	10.039	14.841	-	14.841	-	-	-	-	-	-

Note

This program element supports the development of a series of advanced analytic efforts to more effectively identify risks and threats to Surge Layer Defense and, more broadly, Department of Defense's (DoD's) Mission Assurance (MA) as identified in the current Interim National Defense Strategic Guidance (INDSG).

A. Mission Description and Budget Item Justification

The Defense Threat Reduction Agency (DTRA), as the DoD Center of Excellence for Mission Assurance Assessments, has been tasked by Deputy Assistant Secretary of Defense for Defense Continuity and Mission Assurance with leading change within the MA community on behalf of Office of the Under Secretary of Defense to ensure best practices are documented during the Joint Mission Assurance Assessments (JMAA), Balanced Survivability Assessments (BSA), and Red Team Assessments. Including but not limited to dependency analysis, asymmetric threats, cyber operations, general engineering, security operations, and emergency management. In partnership with the Critical Infrastructure Defense Analysis Center (CIDAC) and the U.S. Department of the Navy's Defense Critical Infrastructure - Mission Assurance program, DTRA's Mission Assurance program will perform mission analysis; engineering and commercial infrastructure network interdependency analysis; MA assessments; information enterprise design, implementation, and support; and defense industrial base supply chain network and related analysis. Efforts provide broad leadership, best practices, research, development, coordination, support to DoD Components around specific focus areas to drive solution-oriented efficiencies, collaboration, and results that benefit the entire DoD MA enterprise.

B. Program Change Summary (\$ in Millions)	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total
Previous President's Budget	11.919	12.115	12.358	-	12.358
Current President's Budget	11.617	10.039	14.841	-	14.841
Total Adjustments	-0.302	-2.076	2.483	0.000	2.483
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-2.076			
• 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	-0.302	0.000			
• Realignment	0.000	0.000	2.483	-	2.483

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Exhibit R-2, RDT&E Budget Item Justification: PB 2026 Defense Threat Reduction Agency **Date:** June 2025

Appropriation/Budget Activity
0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6:
RDT&E Management Support

R-1 Program Element (Number/Name)
PE 0606853BR / *MANAGEMENT TECHNICAL AND INTERNATIONAL SUPPORT*

Change Summary Explanation

The increase from the previous President's Budget is due to increased investment to support the growth of onsite assessment of DoD Dependencies in this program element, funded by a realignment of resources from DTRA's Operation and Maintenance (O&M) account.

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency										Date: June 2025		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0606853BR / MANAGEMENT TECHNICAL AND INTERNATIONAL SUPPORT				Project (Number/Name) MN / DEFENSE CRITICAL INFRASTRUCTURE - MISSION ASSURANCE			
COST (\$ in Millions)	Prior Years	FY 2024	FY 2025	FY 2026 Base	FY 2026 OOC	FY 2026 Total	FY 2027	FY 2028	FY 2029	FY 2030	Cost To Complete	Total Cost
MN: DEFENSE CRITICAL INFRASTRUCTURE - MISSION ASSURANCE	10.039	11.617	10.039	14.841	-	14.841	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project supports the development of a series of advanced analytic efforts to more effectively identify risks and threats to Surge-Layer Defense and, more broadly, DoD's Mission Assurance (MA) as identified in the current Interim National Defense Strategic Guidance (INDSG). The Defense Threat Reduction Agency (DTRA) as the DoD Center of Excellence for Mission Assurance Assessments has been tasked by Deputy Assistant Secretary of Defense for Defense Continuity and Mission Assurance with leading change within the MA community on behalf of OSD to ensure best practices are documented during Joint Mission Assurance Assessments, Balanced Survivability Assessments, and Red Team Assessments. Including but not limited to dependency analysis, asymmetric threats, cyber operations, general engineering, security operations, and emergency management. In partnership with the Critical Infrastructure Defense Analysis Center (CIDAC) and the U.S. Department of the Navy's Defense Critical Infrastructure - Mission Assurance program, DTRA's Mission Assurance program will perform mission analyses; engineering, and commercial infrastructure network interdependency analyses; MA assessments; information enterprise design, implementation, and support; and defense industrial base supply chain network and related analysis. Efforts provide broad leadership, best practices, research, development, coordination, and support to DoD Components around specific focus areas to drive solution-oriented efficiencies, collaboration, and results that benefit the entire DoD MA enterprise.

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

	FY 2024	FY 2025	FY 2026
Title: MN - Defense Critical Infrastructure - Mission Assurance	11.617	10.039	14.841
Description: This program establishes an integrated and comprehensive approach to deliver vastly improved threat data and operational support to the DoD mission assurance enterprise.			
FY 2025 Plans:			
- Provide oversight and program management of the CIDAC program in coordination with the Office of the Under Secretary of Defense for Policy (OUSD(P)), the U.S. Navy, and the U.S. Air Force.			
- Provide DoD products to facilitate DoD dependency analysis, vulnerability, and risk assessments.			
- Development of an enterprise knowledge platform to perform "outside the wire" threat analysis (J2) and build and maintain the CIDAC's Threats Information Technology Environment (J6) driving transformational threat analysis and advanced analytics for CIDAC.			
FY 2026 Plans:			

PE 0606853BR: MANAGEMENT TECHNICAL AND INTERNATIONAL S...

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Exhibit R-2A, RDT&E Project Justification: PB 2026 Defense Threat Reduction Agency		Date: June 2025
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0606853BR / <i>MANAGEMENT TECHNICAL AND INTERNATIONAL SUPPORT</i>	Project (Number/Name) MN / <i>DEFENSE CRITICAL INFRASTRUCTURE - MISSION ASSURANCE</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2024	FY 2025	FY 2026
<ul style="list-style-type: none"> - Provide oversight and program management of the CIDAC program in coordination with the OUSD(P), the U.S. Navy, and the U.S. Air Force. - Provide DoD products to facilitate DoD dependency analysis, vulnerability, and risk assessments. - CIDAC delivers threat and vulnerabilities assessments derived from information from the Intelligence Community, interagency, state and local partners, law enforcement partners, homeland defense organizations and the commercial sector to inform the DoD strategic risk decision-making processes. <p><i>FY 2025 to FY 2026 Increase/Decrease Statement:</i> The increase from FY 2025 to FY 2026 is to support the growth of onsite assessment of DoD Dependencies.</p>			
Accomplishments/Planned Programs Subtotals	11.617	10.039	14.841

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

N/A

Remarks

D. Acquisition Strategy

N/A