

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Threat Reduction Agency **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 2: Applied Research</i>	R-1 Program Element (Number/Name) PE 0602134BR / <i>Counter Improvised-Threat Advanced Studies</i>
--	--

COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.000	1.677	3.699	0.000	-	0.000	-	-	-	-	-	-
JC: <i>Enable Rapid Capability Delivery</i>	0.000	0.502	2.500	0.000	-	0.000	-	-	-	-	-	-
JS: <i>Assist Situational Understanding</i>	0.000	1.175	1.199	0.000	-	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Defense Threat Reduction Agency (DTRA) Counter Improvised - Threat Advanced Studies program element (PE) funds technology outreach to produce studies that will drive earlier understanding of technologies and scientific theories for future programs to enhance the Department of Defense's ability to effectively counter asymmetric threats. Asymmetric threats are characterized by an environment in which an adversary employs a combination of conventional weapons, irregular tactics, and/or terrorism to obtain their objectives. The end-state of the PE is to evaluate the feasibility and practicality of research projects, taking the most promising proposals and translating them into practical prototypes for use against asymmetric threats.

Activities within this PE are driven by efforts to understand, anticipate, illuminate, isolate, and enable timely research that hastens the development of new capabilities for countering global asymmetric threats and emerging technologies.

B. Program Change Summary (\$ in Millions)	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	1.677	3.699	7.340	-	7.340
Current President's Budget	1.677	3.699	0.000	-	0.000
Total Adjustments	0.000	0.000	-7.340	-	-7.340
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Realignments	0.000	0.000	-7.340	-	-7.340

Change Summary Explanation

The decrease in FY 2022 from the previous President's Budget is due to 1) the realignment of RDT&E resources from Project JC - Enable Rapid Capability Delivery to Project RA - CWMD Cross-Cutting Technical and Information Sciences in PE 0602718BR for technology-driven CWMD capability development and evaluation activities to develop cross-cutting innovative and agile new technologies that more effectively counter the full spectrum of WMD by anticipating new

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Threat Reduction Agency		Date: May 2021
Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 2: <i>Applied Research</i>	R-1 Program Element (Number/Name) PE 0602134BR / <i>Counter Improvised-Threat Advanced Studies</i>	
<p>threats while responding to current and constantly evolving threats, and 2) the realignment of resources from Project JS - Assist Situational Understanding to Project RA - CWMD Cross-Cutting Technical and Information Sciences in PE 0602718BR for strategic research and dialogues program activities in support of National Defense Strategy priorities, 3) the realignment of resources from Project JC - Enable Rapid Capability Delivery to O&M for advisory services in support of cross-cutting research and development activities.</p>		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Threat Reduction Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602134BR / Counter Improvised-Threat Advanced Studies	Project (Number/Name) JC / Enable Rapid Capability Delivery
--	---	---

COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
JC: Enable Rapid Capability Delivery	0.000	0.502	2.500	0.000	-	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Defense Threat Reduction Agency (DTRA) takes a deliberate, structured, and proactive approach to meet future capability gaps and requirements through continuous study. DTRA enables DoD, the U.S. Government, and International Partners to counter and deter Weapons of Mass Destruction and emerging threats. The mission is embodied in three capability areas: understand the environment, threats, and vulnerabilities; control, defeat, disable, and dispose of WMD and asymmetric threats; and safeguard the force and manage consequences.

Activities within this project are driven by current and anticipated asymmetric threats. The applied research enables the understanding and shaping of new theories and development of new technologies in support of Combatant Commands and the DoD. The applied research will drive programmatic action to anticipate, illuminate, isolate, and mitigate asymmetric threats.

This project will investigate emerging threat technologies as well as developing analysis support tools that identify emergent capability requirements and associated gaps. It provides timely acquisition and delivery of solutions to address evolving threats.

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

	FY 2020	FY 2021	FY 2022
Title: JC: Enable Rapid Capability Delivery	0.502	2.500	0.000
Description: This project will assess current and emerging technologies that address the evolving asymmetric threat environment.			
FY 2021 Plans: - Support the three U.S. Military Service Academies' CAPSTONE research efforts, through guidance, mentoring, and funding projects associated with evolving asymmetric threats to foster next-generation research against these threats. - Support and facilitate exploration of progressive technology innovations in three to five white papers that address key asymmetric threats that directly support Combatant Commanders' requirements and grow the pipeline of potential capabilities to counter asymmetric threat networks.			
FY 2022 Plans: N/A			
FY 2021 to FY 2022 Increase/Decrease Statement: The decrease from FY 2021 to FY 2022 is due to 1) the realignment of resources from this project to Project RA - CWMD Cross-Cutting Technical and Information Sciences in PE 0602718BR for technology-driven CWMD capability development and			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Threat Reduction Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602134BR / <i>Counter Improvised-Threat Advanced Studies</i>	Project (Number/Name) JC / <i>Enable Rapid Capability Delivery</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
evaluation activities to develop organizationally cross-cutting innovative and agile new technologies that more effectively counter the full spectrum of WMD, by anticipating new threats while responding to current and constantly evolving threats, and 2) the realignment of RDT&E resources to O&M for advisory services in support of cross-cutting research and development activities to operationalize forecasting methodologies.			
Accomplishments/Planned Programs Subtotals	0.502	2.500	0.000

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• 30/0603134BR/JC: <i>Counter Improvised-Threat Simulation</i>	49.528	3.861	0.000	-	0.000	-	-	-	-	-	-
• 100/0604134BR/JC: <i>Counter Improvised-Threat Technology Demonstration, Prototype Development, and Testing</i>	103.793	11.491	0.000	-	0.000	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Threat Reduction Agency **Date:** May 2021

Appropriation/Budget Activity 0400 / 2					R-1 Program Element (Number/Name) PE 0602134BR / Counter Improvised-Threat Advanced Studies				Project (Number/Name) JS / Assist Situational Understanding			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
JS: Assist Situational Understanding	0.000	1.175	1.199	0.000	-	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This project sponsors innovative studies that leverage expertise from academia and world-class research institutions in government and industry. It cultivates research community partnerships and is forward-looking to: help understand the environment, threats and vulnerabilities; anticipate and plan for emerging improvised threats; and leverage innovative approaches for future Counter Improvised Threat (C-IT) solutions to prevent or mitigate battlefield operational surprise in support of Combatant Commands (CCMDs) and deployed Warfighters.

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

	FY 2020	FY 2021	FY 2022
Title: JS: Assist Situational Understanding	1.175	1.199	0.000
Description: This project conducts analytical research studies to counter emerging improvised threats.			
FY 2021 Plans: - Conduct up to five research studies to support countering WMD and improvised threat networks. - Support collaborative relationships with the analytical community. - Conduct annual project reviews to ensure progress toward study objectives. - Assess the focus and scope of C-IT challenges within our internal portfolio and across the broader analytic community to synchronize efforts and ensure successful partnerships. - Focus on identifying and closing gaps in U.S. and Allies' technology vulnerabilities, developing methodologies to counter emerging threat networks, and in forming material solution investments.			
FY 2022 Plans: N/A			
FY 2021 to FY 2022 Increase/Decrease Statement: The decrease from FY 2021 to FY 2022 is due to the realignment of resources from this project to Project RA - CWMD Cross-Cutting Technical and Information Sciences in PE 0602718BR for strategic research and dialogues program activities in support of National Defense Strategy priorities.			
Accomplishments/Planned Programs Subtotals	1.175	1.199	0.000

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Threat Reduction Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 2	R-1 Program Element (Number/Name) PE 0602134BR / <i>Counter Improvised-Threat Advanced Studies</i>	Project (Number/Name) JS / <i>Assist Situational Understanding</i>

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 100/0604134BR/JS: <i>Counter Improvised-Threat Technology Demonstration, Prototype Development, and Testing</i>	1.687	8.440	0.000	-	0.000	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Competitive selection of most appropriate performers to fulfill analytical development needs. Performer base includes best-of-breed researchers across the Department of Defense and other government agency laboratories, academia, industry, and international partner organizations.