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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Defense Threat Reduction Agency **Date:** February 2020

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 0603134BR / <i>Counter Improvised-Threat Simulation</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	23.366	13.648	49.528	0.000	3.861	3.861	59.179	60.803	61.661	63.394	Continuing	Continuing
JC: <i>Enable Rapid Capability Delivery</i>	23.366	13.648	49.528	0.000	3.861	3.861	59.179	60.803	61.661	63.394	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Threat Reduction Agency (DTRA) advanced technology development program element funds the assessment, analysis, experimentation, evaluation, and testing of systems to counter asymmetric threats to determine feasibility for prototyping, spiral development, Program of Record investment and potential for immediate fielding.

Understanding asymmetric threats is the driving force behind DTRA's deliberate, structured, and proactive approach to understanding, anticipating, illuminating, isolating, and/or mitigating threats through identified needs. DTRA is working to bring concepts and theories forward to assist and hasten the development of subsystems and components along with integration into prototypes for field experiments and/or laboratory tests.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	13.648	49.528	0.000	50.110	50.110
Current President's Budget	13.648	49.528	0.000	3.861	3.861
Total Adjustments	0.000	0.000	0.000	-46.249	-46.249
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Realignment	-	-	0.000	-14.279	-14.279
• Defense Wide Review (DWR) Adjustments	-	-	0.000	-31.970	-31.970

Change Summary Explanation

The decrease in FY 2021 from the previous President's Budget submission is due to:

(1) a realignment of funds to PE 0603160BR (Counter Weapons of Mass Destruction Advanced Technology Development) to increase investment in WMD counterterrorism activities, and

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)
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(2) Defense-Wide Review (DWR) adjustment of -\$31.970 million resulting from reductions to DTRA's lowest priority RDT&E programs and the the transfer of C-IED programs to the Army to better align RDT&E efforts with the C-IED mission holder. The Army assumes executive agent responsibilities for C-IED effective 1 October 2020.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Defense Threat Reduction Agency										Date: February 2020		
Appropriation/Budget Activity 0400 / 3					R-1 Program Element (Number/Name) PE 0603134BR / Counter Improvised-Threat Simulation				Project (Number/Name) JC / Enable Rapid Capability Delivery			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
JC: Enable Rapid Capability Delivery	23.366	13.648	49.528	0.000	3.861	3.861	59.179	60.803	61.661	63.394	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project is driven by current and projected threat activities. It enables the timely validation, resourcing, applied research and prototype development and delivery to counter threats that continue to impact US forces. The project supports the evaluation of integrated technologies or prototype systems in a realistic environment to counter asymmetric threats.

DTRA performs experiments and modeling and simulations in the pursuit of advanced technology development. The outcomes of these experiments are incorporated into new or existing prototypes to enhance system performance while reducing cost.

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

Title: JC: Enable Rapid Capability Delivery

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.

FY 2020 Plans:

- Improve detection capabilities through baseline threat signatures for vehicles, explosives, and other threats in support of sensor capability development.
- Develop common database for signatures for DoD and other government agencies to use for sensor development and tactics, techniques, and procedures (TTPs).
- Conduct testing and evaluation of future technology development in support of countering – asymmetric threats.
- Increase the processing, exploitation, and dissemination of data for integrated sensors identifying improvised threat facilitation networks.
- Enhance integration of sensors identifying improvised threat facilitation networks.

FY 2021 Base Plans:

N/A

FY 2021 OCO Plans:

FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
13.648	49.528	0.000	3.861	3.861

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
- Develop 12 acquisition threat signal packages for databases with hardware and software implementation plans to update current capabilities across the Combatant Commands, ensuring a more robust capability response to asymmetric threats.					
- Conduct two evaluation events to verify and analyze threat signal inputs to improve ability of capabilities to counter asymmetric threat networks.					
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> The decrease from FY 2020 to FY 2021 reflects a decrease due to: (1) a realignment of funds to PE 0603160BR (Counter Weapons of Mass Destruction Advanced Technology Development) to increase investments in WMD counterterrorism activities and, (2) Defense-Wide Review (DWR) adjustments of -\$31.970 million resulting from reductions to DTRA's lowest priority RDT&E programs and the transfer of C-IED programs to the Army to better align RDT&E efforts with the C-IED mission holder. The Army assumes executive agent responsibilities for C-IED effective 1 October 2020.					
Accomplishments/Planned Programs Subtotals	13.648	49.528	0.000	3.861	3.861

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 10/0602134BR/JC: Counter Improvised-Threat Advanced Studies	0.000	0.502	0.000	2.500	2.500	6.117	6.564	6.657	6.830	Continuing	Continuing
• 97/0604134BR/JC: Counter Improvised-Threat Technology Demonstration, Prototype Development, and Testing	158.660	103.793	0.000	9.841	9.841	29.146	19.430	18.803	18.641	Continuing	Continuing

Remarks

D. Acquisition Strategy

Competitive Selection to determine the optimal performer who can produce a viable deliverable within schedule and budget.