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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604132D8Z I <i>Missile Defeat Project</i>
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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	301.336	14.288	0.000	0.000	-	0.000	-	-	-	-	-	-
072: <i>Missile Defeat Project</i>	301.336	14.288	0.000	0.000	-	0.000	-	-	-	-	-	-

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 000

Note

In FY 2021, Missile Defeat Project resources transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping), Project Code 722, Time Sensitive Targeting and Defeat (TSTD), to provide alignment and focus on the development of key technologies and modernization within OUSD(R&E) identified capability thrust priorities.

A. Mission Description and Budget Item Justification

The Missile Defeat Project counters the growing global advancement and proliferation of road-mobile ballistic missile threats. The Missile Defeat Project coordinated and integrated Department of Defense and Intelligence Community efforts to develop counter-threat capability. In order to carry out the important role initiated by Missile Defeat, in accordance with the 2017 National Defense Authorization Act, in FY 2019, the Missile Defeat Project transferred activities initiated under Missile Defeat to other stakeholders. In FY 2021, Missile Defeat Project residual resources and capabilities transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping), Project Code 722, Time Sensitive Targeting and Defeat (TSTD), in support of an expanded Multi-Domain TSTD alignment of key technology development and modernization.

Activities will be coordinated with the Services, appropriate Agencies, and the Combatant Commands to transition these developments into viable warfighting capabilities.

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	14.816	0.000	0.000	-	0.000
Current President's Budget	14.288	0.000	0.000	-	0.000
Total Adjustments	-0.528	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.525	-			
• Program Adjustments	-0.003	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604132D8Z / <i>Missile Defeat Project</i>				Project (Number/Name) 072 / <i>Missile Defeat Project</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
<i>072: Missile Defeat Project</i>	301.336	14.288	0.000	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 000

Note

In FY 2021, Missile Defeat Project resources transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping), Project Code 722, Time Sensitive Targeting and Defeat (TSTD), to provide alignment and focus on the development of key technologies and modernization within OUSD(R&E) identified capability thrust priorities.

A. Mission Description and Budget Item Justification

The Time Sensitive Target Defeat (TSTD) transferred all initiated activities to the Office of Under Secretary of Defense for Research and Engineering (OUSD(R&E)), Time Sensitive Target Defeat Office in FY 2019. The residual resources are transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping) to provide alignment and focus supporting development of key technologies and modernization within OUSD(R&E) identified capability thrust priorities.

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

	FY 2020	FY 2021	FY 2022
Title: Missile Defeat Project efforts	14.288	-	-
<p>Description: Missile Defeat will support the operational demonstration and assessments of sensors, command and control (C2), processing, exploitation, and dissemination (PED), and transition of residual capabilities to mission partners.</p> <p>Missile Defeat Accomplishments:</p> <ul style="list-style-type: none"> • Completed the transition of the Pack Hunt decision aid collection management tool enhancement to evolve the operational state of the environment. • Accomplished upstream data fusion and machine-to-machine enhancement to increase the wide area of the find fix target track capabilities against time sensitive targets. • Integrated enhancement to the common intel picture enhancement by fusing a myriad of tactical and national data feeds in near-real time. • Instituted the SNAPGLASS module to fill existing seams across an element of kill chains to reduce latency. • Executed a live fly exercise called JUKEBOX 18 (JB18) to demonstrate incorporated prototype capabilities enabling new kill webs for future weapon systems. • Demonstrated the deployment of synthetic aperture radar and C2 payloads during JB18 to show case the evolution of future warfare. • FY 2021 residual resources are transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping), Project Code 722, Time Sensitive Targeting and Defeat (TSTD). 			

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Office of the Secretary Of Defense	Date: May 2021
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Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604132D8Z / <i>Missile Defeat Project</i>	Project (Number/Name) 072 / <i>Missile Defeat Project</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Accomplishments/Planned Programs Subtotals	14.288	-	-

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

N/A

Remarks

D. Acquisition Strategy

In order to carry out the important effort initiated by Missile Defeat, FY 2021 residual resources and capabilities are transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping), Project Code 722, Time Sensitive Targeting and Defeat (TSTD) in support of an expanded Multi-Domain TSTD alignment of key technology development and modernization.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604132D8Z / Missile Defeat Project	Project (Number/Name) 072 / Missile Defeat Project
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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Various	C/TBD	MULTI : MULTI	301.336	14.288		-		-		-		-	Continuing	Continuing	-
Subtotal			301.336	14.288		-		-		-		-	Continuing	Continuing	N/A
Project Cost Totals			301.336	14.288		0.000		-		-		-	Continuing	Continuing	N/A

Remarks

N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

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FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
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

Missile Defeat Project	
Project TRIPPWIRE Concept Experimentation and Transition to Service	██████████
C2PED Prototyping Enhancements Concept Experimentation TSTD	██████████
Establish TSTD Roadmap	██████████
Proposed Cyber, Bi-Static, and AI/ML PED Capabilities	██████████
Continue portfolio development activities in support of end-to-end kill chain	██████████

FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
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

Missile Defeat Project	
Project TRIPPWIRE Concept Experimentation and Transition to Service	██████████
C2PED Prototyping Enhancements Concept Experimentation TSTD	██████████
Establish TSTD Roadmap	██████████
Proposed Cyber, Bi-Static, and AI/ML PED Capabilities	██████████
Continue portfolio development activities in support of end-to-end kill chain	██████████

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Missile Defeat Project</i>				
Project TRIPPWIRE Concept Experimentation and Transition to Service	1	2019	4	2020
C2PED Prototyping Enhancements Concept Experimentation TSTD	1	2019	4	2020
Establish TSTD Roadmap	1	2019	4	2020
Proposed Cyber, Bi-Static, and AI/ML PED Capabilities	1	2019	4	2020
Continue portfolio development activities in support of end-to-end kill chain	1	2019	4	2020