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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604403A / <i>Future Interceptor</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	-	1.918	-	7.895	-	7.895	-	-	-	-	-	-
FM3: <i>Future Interceptor</i>	-	1.918	-	7.895	-	7.895	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Future Interceptor program will provide improved operational effectiveness against evolving air, missile, and hypersonic threats within the lower tier portion of the ballistic missile defense battlespace. The future interceptor will increase Air and Missile Defense (AMD) capability through increased velocity, altitude, and maneuverability.

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	2.000	7.992	7.993	-	7.993
Current President's Budget	1.918	0.000	7.895	-	7.895
Total Adjustments	-0.082	-7.992	-0.098	-	-0.098
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-7.992			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.082	-			
• Adjustments to Budget Years	-	-	-0.098	-	-0.098

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604403A / Future Interceptor				Project (Number/Name) FM3 / Future Interceptor			
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
FM3: Future Interceptor	-	1.918	-	7.895	-	7.895	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Future Interceptor program will provide improved operational effectiveness against current and evolving air, missile, and hypersonic threats within the lower tier portion of the ballistic missile defense battlespace. The future interceptor will increase Air and Missile Defense (AMD) capability through increased velocity, altitude, and maneuverability. Program funding supports existing Other Transaction Agreements (OTAs) with multiple vendors currently providing definition and analysis of interceptor concepts to address the evolving theatre ballistic missile and hypersonic threats requirement. Existing OTAs are contributing to requirements definitization and subsequent execution of the Analysis of Alternatives (AoA). The acquisition program will competitively select a future interceptor to complement existing Air and Missile Defense (AMD) capabilities to overmatch evolving threat.

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

	FY 2020	FY 2021	FY 2022
Title: Program Development and Support	1.918	-	7.895
Description: Provide program development and support for the Future Interceptor program, including technical work, concept definition, modeling & simulation work, and other related efforts.			
FY 2022 Plans: -Complete execution of concept definitions through Other Transactions Agreements (OTA) -Complete simulation-based performance assessments of concept definitions -Develop Acquisition Strategy -Support development and execution of Analysis of Alternatives (AoA) and Capability Development Document			
FY 2021 to FY 2022 Increase/Decrease Statement: The \$7,895K increase from FY 2021 to FY 2022 is due to the initiation of Future Interceptor studies and analysis.			
Accomplishments/Planned Programs Subtotals	1.918	-	7.895

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
• C53101: MSE Missile	702.437	678.148	776.696	-	776.696	-	-	-	-	-	-

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army	Date: May 2021
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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604403A / <i>Future Interceptor</i>	Project (Number/Name) FM3 / <i>Future Interceptor</i>
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D. Acquisition Strategy

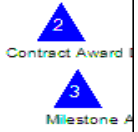
To provide improved operational effectiveness, the Army will use the Defense Ordnance Technology Consortium (DOTC) OTA to execute a competitive initial concept definition (CD) with multiple contractors. From the CD phase, rapid prototype development approaches will utilize detailed modeling and simulation of the future interceptor as well as conduct prototype development of high-risk hardware technologies. The prototype technologies and detailed simulation based interceptor design will be used to competitively down select to a single vendor. This approach and the resulting technologies and designs will inform the selection of Acquisition Strategy (traditional or 804 Middle Tier) most advantageous for this project. This PB21 submission presents R-4 and R-4a schedule information in traditional acquisition terminology that will be updated with 804 Middle Tier terminology if utilized.

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604403A / <i>Future Interceptor</i>	Project (Number/Name) FM3 / <i>Future Interceptor</i>
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Event Name	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
Initial Concept Development	[Redacted]				[Redacted]																							
Initial Modeling & Simulation Development	[Redacted]				[Redacted]																							
Concept Development	[Redacted]				[Redacted]				[Redacted]				[Redacted]															
Modeling & Simulation Development	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]											
Material Development Decision (MDD)	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]											
Analysis of Alternatives	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Future Interceptor CDD	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]											
Competitive RFP	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Contract Award Downselect	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Milestone A	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604403A / <i>Future Interceptor</i>	Project (Number/Name) FM3 / <i>Future Interceptor</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Initial Concept Development	2	2020	4	2020
Initial Modeling & Simulation Development	2	2020	4	2020
Concept Development	2	2022	1	2026
Modeling & Simulation Development	2	2022	4	2025
Materiel Development Decision (MDD)	4	2023	4	2023
Analysis of Alternatives	1	2025	1	2026
Future Interceptor CDD	1	2024	1	2025
Competitive RFP	1	2025	4	2025
Contract Award Downselect	3	2026	3	2026
Milestone A	3	2026	3	2026