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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Army **Date:** April 2022

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	-	6.895	8.179	-	8.179	8.210	8.202	8.205	8.285	Continuing	Continuing
FM3: <i>Future Interceptor</i>	-	-	6.895	8.179	-	8.179	8.210	8.202	8.205	8.285	Continuing	Continuing

A. Mission Description and Budget Item Justification

This funding line is a key enabler of the Army Modernization Priorities in support of the Missile Segment Enhancement (MSE) program.

The warfighter community is actively developing operational requirements for the Future Interceptor that will defend against current and emerging near-peer threats. The Future Interceptor will complement current sensor programs and is required to be employed in 2028. The Future Interceptor program will provide 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, attitude, and maneuverability. Current funding provides refinements/updates to drafted Architecture Design/Concept Definitions, Performance Study Reports, Program Feasibility/Acquisition Strategy documents already delivered to the USG as part of Phase I. It also continues Virtual Missile Model (VMM) development to support rapid prototyping and concept definition. Products from the Future Interceptor concept definition phase support rapid prototyping technologies that will be used in future efforts to competitively down select to a single vendor.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	7.895	0.000	-	0.000
Current President's Budget	0.000	6.895	8.179	-	8.179
Total Adjustments	0.000	-1.000	8.179	-	8.179
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-1.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	8.179	-	8.179

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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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>			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
FM3: <i>Future Interceptor</i>	-	-	6.895	8.179	-	8.179	8.210	8.202	8.205	8.285	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The warfighter community is actively developing operational requirements for the Future Interceptor that will defend against current and emerging near-peer threats. The Future Interceptor will complement current sensor programs and is required to be employed in 2028. The Future Interceptor program will provide 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, attitude, and maneuverability. Current funding provides refinements/updates to drafted Architecture Design/Concept Definitions, Performance Study Reports, Program Feasibility/Acquisition Strategy documents already delivered to the USG as part of Phase I. It also continues Virtual Missile Model (VMM) development to support rapid prototyping and concept definition. Products from the Future Interceptor concept definition phase support rapid prototyping technologies that will be used in future efforts to competitively down select to a single vendor.

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

	FY 2021	FY 2022	FY 2023
<p>Title: Program Development and Support</p> <p>Description: Provide program development and support for the Future Interceptor program, including technical work, concept definition, modeling & simulation work, and other related efforts.</p> <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> -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 <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> - Refinements/updates to drafted Architecture Design/Concept Definitions - Performance Study Reports - Program Feasibility/Acquisition Strategy documents - Virtual Missile Model (VMM) development <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase is due to inflation and planned lifecycle of the program.</p>	-	6.643	8.179
<p>Title: FY22 SBIR/STTR Transfer</p> <p>FY 2022 Plans:</p>	-	0.252	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Funding transferred in accordance with Title 15 USC ?638			
<i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Funding transferred in accordance with Title 15 USC ?638			
Accomplishments/Planned Programs Subtotals	-	6.895	8.179

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• C53101: <i>MSE Missile</i>	678.148	771.696	1,037.093	-	1,037.093	978.741	982.922	991.265	1,002.608	Continuing	Continuing

Remarks

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 two 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 most advantageous for this project. This submission presents R-4 and R-4a schedule information in 804 Middle Tier terminology that will be updated if necessary.

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army **Date:** April 2022

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Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
DOTC Concept Development																												
Abbreviated Capability Development Document																												
Down-Select to Single Integrator																												
Future Interceptor CDD																												
LTFM Rapid Capability Increment 1 Development (MTA)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army **Date:** April 2022

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DOTC Concept Development	1	2020	4	2023
Abbreviated Capability Development Document	2	2023	2	2023
Down-Select to Single Integrator	2	2023	4	2025
Future Interceptor CDD	1	2024	1	2024
LTFM Rapid Capability Increment 1 Development (MTA)	1	2025	4	2029