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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	7.880	8.040	8.058	-	8.058	8.068	8.154	8.245	8.327	Continuing	Continuing
FM3: <i>Future Interceptor</i>	-	7.880	8.040	8.058	-	8.058	8.068	8.154	8.245	8.327	Continuing	Continuing

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Air and Missile Defense Modernization Priority.

The Future Interceptor will defend against current and emerging air, missile, and hypersonic threats in the lower tier of the ballistic missile defense battlespace. The Future Interceptor increases Air and Missile Defense (AMD) capability through improved velocity, altitude, and maneuverability characteristics. Requested funding refines and updates Architecture Design/ Concept Definitions, Performance Study Reports, and Program Feasibility / Acquisition Strategies delivered to the USG in Phase 1. It continues Virtual Missile Model (VMM) development to support and establish concept definitions. Products from the Future Interceptor concept definitions phase validate and establish technical approaches needed to inform future efforts to competitively down select to a single vendor.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	8.179	8.040	8.042	-	8.042
Current President's Budget	7.880	8.040	8.058	-	8.058
Total Adjustments	-0.299	0.000	0.016	-	0.016
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.299	-			
• Adjustments to Budget Years	-	-	0.016	-	0.016

Change Summary Explanation

Increased funding due to revised economic assumptions.

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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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FM3: <i>Future Interceptor</i>	-	7.880	8.040	8.058	-	8.058	8.068	8.154	8.245	8.327	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Future Interceptor will defend against current and emerging air, missile, and hypersonic threats in the lower tier of the ballistic missile defense battlespace. The Future Interceptor increases Air and Missile Defense (AMD) capability through improved velocity, altitude, and maneuverability characteristics. Requested funding refines and updates Architecture Design/ Concept Definitions, Performance Study Reports, and Program Feasibility / Acquisition Strategies delivered to the USG in Phase 1. It continues Virtual Missile Model (VMM) development to support and establish concept definitions. Products from the Future Interceptor concept definitions phase validate and establish technical approaches needed to inform future efforts to competitively down select to a single vendor.

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

	FY 2023	FY 2024	FY 2025
Title: Program Development and Support	7.880	8.040	8.058
Description: Provide program development and support for the Future Interceptor program, including technical work, concept definition, modeling & simulation work, and other related efforts.			
FY 2024 Plans: - Support the user community with technical subject matter expertise and assist in requirements development for Future Interceptor - Modeling and Sims (M&S) support to provide Subject-Matter-Expertise (SME) on the government furnished simulation framework that the contractors are using to build their VMMs			
FY 2025 Plans: - Development of contracting structure and Request for Proposal (RFP) preparation to award development contract(s) in follow-on years - Technology Readiness Level (TRL) assessments of critical technology elements to determine if maturity is ready for development - Begin derivation of the Future Interceptor technical performance requirements based on user threshold and objective requirements from the Capability Development Document and production of the Future Interceptor performance specification.			
FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 to FY 2025 funding increase represents minor increase due to economic assumptions.			
Accomplishments/Planned Programs Subtotals	7.880	8.040	8.058

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

N/A

Remarks

Future Interceptor is a component of an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. This effort includes integration with an evolving common fires mission command, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

D. Acquisition Strategy

To provide improved operational effectiveness, the Army will use the Defense Ordnance Technology Consortium (DOTC) Other Transactions Agreements (OTA) to execute a competitive initial concept definition (CD) with two contractors. From the CD phase, 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.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army **Date:** March 2024

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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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	DOTC Concept Development																											
Abbreviated Capability Development Document																												
Analysis and Modeling and Sim Development																												
Future Interceptor CDD																												
Future Interceptor Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army **Date:** March 2024

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DOTC Concept Development	1	2020	4	2023
Abbreviated Capability Development Document	4	2023	4	2023
Analysis and Modeling and Sim Development	4	2023	3	2026
Future Interceptor CDD	4	2025	4	2025
Future Interceptor Development	4	2026	4	2030