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**Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604403A / <i>Future Interceptor</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	6.643	8.179	8.040	-	8.040	8.042	8.052	8.138	8.229	Continuing	Continuing
FM3: <i>Future Interceptor</i>	-	6.643	8.179	8.040	-	8.040	8.042	8.052	8.138	8.229	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This funding line is a key enabler of the Army Modernization Priorities in support of Air and Missile Defense.

The warfighter community is actively staffing operational requirements for the Future Interceptor that will defend against current and emerging near-peer threats. 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, altitude, 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 concept definition. Products from the Future Interceptor concept definition phase support development of technologies that will be used in future efforts to competitively down select to a single vendor.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	6.895	8.179	8.210	-	8.210
Current President's Budget	6.643	8.179	8.040	-	8.040
Total Adjustments	-0.252	0.000	-0.170	-	-0.170
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.252	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.170	-	-0.170

**Change Summary Explanation**

Decreased funding to support higher Army priorities.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604403A / <i>Future Interceptor</i>				<b>Project (Number/Name)</b> FM3 / <i>Future Interceptor</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
FM3: <i>Future Interceptor</i>	-	6.643	8.179	8.040	-	8.040	8.042	8.052	8.138	8.229	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The warfighter community is actively staffing operational requirements for the Future Interceptor that will defend against current and emerging near-peer threats. 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, altitude, 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 concept definition. Products from the Future Interceptor concept definition phase support development of technologies that will be used in future efforts to competitively down select to a single vendor.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Title:</b> Program Development and Support</p> <p><b>Description:</b> Provide program development and support for the Future Interceptor program, including technical work, concept definition, modeling &amp; simulation work, and other related efforts.</p> <p><b>FY 2023 Plans:</b></p> <ul style="list-style-type: none"> <li>- Refinements/updates to drafted Architecture Design/Concept Definitions</li> <li>- Performance Study Reports</li> <li>- Program Feasibility/Acquisition Strategy documents</li> <li>- Virtual Missile Model (VMM) development</li> </ul> <p><b>FY 2024 Plans:</b></p> <ul style="list-style-type: none"> <li>- Support the user community with technical subject matter expertise and assist the FCoE in requirements development for Future Interceptor</li> <li>- Modeling and Sims (M&amp;S) support from AvMC to provide Subject-Matter-Expertise (SME) on the government furnished simulation framework that the contractors are using to build their VMMs</li> </ul> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase supports planned lifecycle of the effort.</p>	6.643	7.880	8.040
<p><b>Title:</b> SBIR/STTR Transfer</p> <p><b>Description:</b> Funding transferred in accordance with Title 15 USC §638.</p>	-	0.299	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604403A / <i>Future Interceptor</i>	<b>Project (Number/Name)</b> FM3 / <i>Future Interceptor</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b><i>FY 2023 Plans:</i></b> Funding transferred in accordance with Title 15 USC §638.			
<b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> Funding transferred in accordance with Title 15 USC §638.			
<b>Accomplishments/Planned Programs Subtotals</b>	6.643	8.179	8.040

**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) 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 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604403A / <i>Future Interceptor</i>	<b>Project (Number/Name)</b> FM3 / <i>Future Interceptor</i>
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Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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																												
Analysis and Modeling and Sim Development																												
Future Interceptor CDD																												
Future Interceptor Increment 1 Development																												

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2024 Army **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604403A / <i>Future Interceptor</i>	<b>Project (Number/Name)</b> FM3 / <i>Future Interceptor</i>
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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	4	2024
Future Interceptor CDD	4	2024	4	2024
Future Interceptor Increment 1 Development	1	2025	4	2029