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

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development	<b>R-1 Program Element (Number/Name)</b> PE 0607143A / Unmanned Aircraft System Universal Products
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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	-	10.493	25.393	24.539	-	24.539	33.438	31.210	28.190	28.472	Continuing	Continuing
EX1: Unmanned Aircraft Systems Universal Products	-	10.493	25.393	24.539	-	24.539	33.438	31.210	28.190	28.472	Continuing	Continuing

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

Scalable Control Interface (SCI) is the software in both ground and airborne platforms that is hosted on hardware controllers within the Integrated Tactical Network or other Army-provided networks to retrieve and provide data. SCI distributes UAS capabilities by greatly increasing the number of UAS control devices available to Soldiers, Commanders, and Battle Staff. SCI provides simultaneous employment of multiple aircraft/payloads from a single control node. SCI leverages a Modular Open System Approach (MOSA) to software in order to reduce time and cost to integrate new hardware and software in response to the dynamic future operating environment.

Deployment of SCI includes devices in the Mobile/Handheld Computing Environment (such as Nett Warrior), Mounted Computing Environment such as MFOCS (Mounted Family of Computer Systems), Command Post Computing Environment such as TSI (Tactical Services Infrastructure), fixed wing aircraft, and rotary wing aircraft.

Justification: Fiscal Year 2025 SCI (Universal Products) Base funding of \$24.539 million will continue the development, test, and integration of SCI capabilities as hosted on Mission Command and manned aircraft command and control devices in accordance with the SCI Abbreviated-Capabilities Development Document (A-CDD).

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	10.512	25.393	0.503	-	0.503
Current President's Budget	10.493	25.393	24.539	-	24.539
Total Adjustments	-0.019	0.000	24.036	-	24.036
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.019	-			
• Adjustments to Budget Years	-	-	24.036	-	24.036

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** EX1: Unmanned Aircraft Systems Universal Products

FY 2023	FY 2024

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**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

Congressional Add: *Program Increase: Software Development Efforts*

Congressional Add Subtotals for Project: EX1

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	10.000	-
	10.000	-
	10.000	-

**Change Summary Explanation**

Funding supports software development and integration for command and control software for unmanned or optionally manned aircraft and payloads through a universal interface.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0607143A / <i>Unmanned Aircraft System Universal Products</i>				<b>Project (Number/Name)</b> EX1 / <i>Unmanned Aircraft Systems Universal Products</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
EX1: <i>Unmanned Aircraft Systems Universal Products</i>	-	10.493	25.393	24.539	-	24.539	33.438	31.210	28.190	28.472	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Scalable Control Interface (SCI) is the software in both ground and airborne platforms that is hosted on hardware controllers within the Integrated Tactical Network or other Army-provided networks to retrieve and provide data. SCI distributes UAS capabilities by greatly increasing the number of UAS control devices available to Soldiers, Commanders, and Battle Staff. SCI provides simultaneous employment of multiple aircraft/payloads from a single control node. SCI leverages a Modular Open System Approach (MOSA) to software in order to reduce time and cost to integrate new hardware and software in response to the dynamic future operating environment.

Deployment of SCI includes devices in the Mobile/Handheld Computing Environment (such as Nett Warrior), Mounted Computing Environment such as MFoCS (Mounted Family of Computer Systems), Command Post Computing Environment such as TSI (Tactical Services Infrastructure), fixed wing aircraft, and rotary wing aircraft. SCI will integrate decision aiding, autonomy, and artificial intelligence improvements as they technically mature, in order to support MDO and reduce cognitive workload.

Justification: Fiscal Year 2025 SCI (Universal Products) Base funding of \$24.539 million will be utilized in the Execution Phase of the Software Acquisition Pathway to continue the development, test, and integration of SCI capabilities as hosted on Mission Command and manned aircraft command and control devices in accordance with the SCI A-CDD.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Scalable Control Interface (SCI)	0.493	25.393	24.539
<b>Description:</b> SCI will be the primary means of C2 for Program of Record Army UAS. SCI software will be hosted on Mission Command devices in both ground and airborne platforms serving as nodes on the Integrated Tactical Network to retrieve and provide data. SCI distributes UAS capabilities by greatly increasing the number of UAS control devices available to Soldiers, Commanders, and Battle Staff. SCI provides simultaneous employment of multiple aircraft/payloads from a single control node.			
<b>FY 2024 Plans:</b> FY 2024 funding will be used to continue the development, test, and the integration of improved SCI capabilities as hosted on Mission Command and manned aircraft command and control devices in accordance with the SCI Abbreviated - Capabilities Development Document (A-CDD).			
<b>FY 2025 Plans:</b>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
RDTE funding supports software development for Launched Effects, FTUAS, and other prioritized platforms.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Decrease in funding due to reduced software development planned to be completed in FY25.				
<b>Accomplishments/Planned Programs Subtotals</b>		0.493	25.393	24.539
		<b>FY 2023</b>	<b>FY 2024</b>	
<b>Congressional Add:</b> Program Increase: Software Development Efforts		10.000	-	
<b>FY 2023 Accomplishments:</b> Continued Scalable Control Interface development efforts				
<b>Congressional Adds Subtotals</b>		10.000	-	
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b>				
<p>SCI is Software Acquisition Pathway program per the Acquisition Decision Memorandum signed 28 October 2022. Project Manager (PM) UAS will develop the SCI software using a phased acquisition strategy to bridge current systems, integrate future systems, and continue to evolve SCI capabilities including AI technologies, autonomy, networks, and mature SCI-enabled platforms.</p> <p>The Scalable Control Interface Abbreviated Capabilities Development Document defines critical capabilities UAS command and control. The procedures, infrastructure, developmental environment, and capabilities developed for SCI will provide the basis for future UAS Command and Control SW development as well as integration into legacy and future platforms.</p> <p>Project Manager Uncrewed Aircraft Systems (PM-UAS), as the material developer, will coordinate the Army's combined efforts for the development of UAS Command and Control. The Future Vertical Lift Cross Functional Team and Aviation CDID serve as the lead capability developer for SCI. This partnership will prioritize development of detailed user needs and will integrate these needs into the system's capabilities. PM UAS will also provide annual SCI requirements updates, in partnership with the FVL CFT, and in-line with the jointly developed User Agreement.</p> <p>PM UAS will develop and maintain a product roadmap and product backlog for each of the main capabilities based on the SCI User Agreement. PM UAS will seek to gain user feedback through a series of virtual/simulated or live/field test events. PM UAS will utilize user feedback from these events to inform prioritization for the product roadmaps and backlogs for each capability.</p>				

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PM UAS will implement software that builds on a Modular Open Systems Approach (MOSA) and aligns with UAS Interoperability Profiles (IOPs).




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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b>		<b>Date:</b> 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
SWP Plan ADM	1																											
SWP Planning Phase	SWP Planning Phase																											
SWP Exec ADM								2																				
SWP Execution Phase									SWP Execution Phase																			
MVP								3																				
MVCR													4															
SCI Capability Release 1															5													
SCI Capability Release 2																			7									
SCI Capability Release 3																							9					
SCI Capability Release 4																											11	
Value Assessment 1															6													
Value Assessment 2																			8									
Value Assessment 3																											10	

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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
Value Assessment 4																									 Value At			

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Army		<b>Date:</b> March 2024
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
A-CDD	2	2022	2	2022
SWP Plan ADM	1	2023	1	2023
SWP Planning Phase	1	2023	4	2024
SWP Exec ADM	4	2024	4	2024
SWP Execution Phase	4	2024	4	2029
MVP	4	2024	4	2024
MVCR	1	2026	1	2026
SCI Capability Release 1	3	2026	3	2026
SCI Capability Release 2	3	2027	3	2027
SCI Capability Release 3	3	2028	3	2028
SCI Capability Release 4	3	2029	3	2029
Value Assessment 1	4	2026	4	2026
Value Assessment 2	4	2027	4	2027
Value Assessment 3	4	2028	4	2028
Value Assessment 4	4	2029	4	2029