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

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 3: Advanced Technology Development (ATD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603025A / <i>Army Agile Innovation and Demonstration</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	-	17.757	23.156	14.608	-	14.608	16.309	18.014	18.845	19.251	0.000	127.940
CK8: <i>Advanced Technology Development and Convergence</i>	-	8.925	15.319	10.102	-	10.102	10.140	10.148	10.318	10.422	0.000	75.374
DA3: <i>Army Advanced Innovation</i>	-	8.832	7.837	4.506	-	4.506	6.169	7.866	8.527	8.829	0.000	52.566

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

This Program Element (PE) funds the Army's goal of accelerating innovative solutions to achieve future force modernization. The Army is using strategic and "non-traditional" partnerships and working with traditional vendors in novel ways to respond at the speed of innovation to accelerate the development of cutting-edge technology. Critical technologies that allow for technological superiority are increasingly dual-use or developed in academia-led partnerships that leverage cutting edge innovation. In an era of global competition, technological superiority requires agile and rapid innovation. Cross-cutting modernization initiatives leveraging strategic partnerships and foster an environment to bring knowledge and expertise to demonstrate breakthrough and innovative technologies that will benefit the warfighter. These collaborations bring new ways of doing business to demonstrate emerging technologies and systems with high payoff potential to address current technology shortfalls or future capability gaps and systems. Leveraging other innovative mechanisms, to include accelerators, incubators, and other technology accelerants, to enhance innovation is part of the overall innovation strategy. Innovation includes not only hardware, and physical products but also software, software development, artificial intelligence (AI) and machine learning, all as stand-alone initiatives and as part of broader innovation to programs and technology development. Through the Army's Innovation Oversight Board, Army senior leadership approves Innovation projects in the budget year and year of execution based on priority and opportunity, ensuring that innovations have a high potential for filling capability gaps and transitioning to Army acquisition to rapidly deliver capabilities to the Soldier.

Research in this PE is closely coordinated with PE 0602002A (Army Agile Innovation and Development-Applied Research)

Work is performed by the United States Army Combat Capabilities Development Command (DEVCOM), Army Artificial Intelligence Integration Center (AI2C), the Engineering Research and Development Center, Space and Missile Defense Technical Center, and the United States Army Research Institute for the Behavioral and Social Sciences.

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<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	20.900	23.156	24.242	-	24.242
Current President's Budget	17.757	23.156	14.608	-	14.608
Total Adjustments	-3.143	0.000	-9.634	-	-9.634
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.381	-			
• SBIR/STTR Transfer	-0.762	-			
• Adjustments to Budget Years	-	-	-9.634	-	-9.634

**Change Summary Explanation**

Funding decrease is due to a reduction the assessment of innovative proposals in FY25 and realignment to Program Element (PE) 0602150A (Air and Missile Defense Technology) to accelerate Army investment in Counter Small Unmanned Aircraft System (C-sUAS).

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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 / 3					<b>R-1 Program Element (Number/Name)</b> PE 0603025A / Army Agile Innovation and Demonstration				<b>Project (Number/Name)</b> CK8 / Advanced Technology Development and Convergence			
<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>
CK8: <i>Advanced Technology Development and Convergence</i>	-	8.925	15.319	10.102	-	10.102	10.140	10.148	10.318	10.422	0.000	75.374
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project aims to accelerate the Army's goal of finding innovative and nontraditional solutions to the most difficult technological problems. Efforts to pair with nontraditional entities, such as industry, to rapidly solve System and Sub-System Component and Prototype Convergence by merging smaller subsystems towards a more complex solution and integrating one or more technologies to prove out concepts. This project enables the Army to quickly implement novel solutions garnered from operational experimentation. It allows the Army to accelerate efforts with industry to better inform requirements. Through the Army's Innovation Oversight Board, Army Senior leadership approves Innovation projects in the budget year and year of execution based on priority and opportunity, ensuring that innovations have a high potential for filling capability gaps and transitioning to Army Science and Technology (S&T) projects to inform an optional technology investment strategy and rapidly deliver capabilities to the Soldier.

The cited research is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas.

Work is performed by the Army Application Lab.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Advanced Technology Development of Existing Commercial Technology	8.925	10.226	10.102
<b>Description:</b> Advanced commercial development exists when direct investment leads to rapid technology applications and demonstration. The Army identifies existing technology to further develop and modify for Army use. Partnerships with industry both traditional and non-traditional, allow the Army to advance non-military commercial research and development investments through focused engagements resulting in commercial adaption and integration to address Army technology and modernization efforts. Initial nominal Army investment in proof of technology and technology demonstrations will expedite novel technologies shaping their development to meet Army requirements and expediting both component and complete system adaptation and integration.			
<b>FY 2024 Plans:</b> Address operational challenges that enable the Army to conduct operations in contested environments, which will enable our ability to prevail on the future battlefield. These include, but are not limited to emerging and commercially available technology			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
that enhances next generation combat vehicles, dismounted soldier lethality, power generation and storage, logistics, data driven human performance and soldier readiness, AI and robotic enabled small units, and network and satellite support.  <b>FY 2025 Plans:</b> Assess, seed, demonstrate, integrate and bridge technologies which will allow for rapid transitions that will transition to acquisition and other programs to deliver capabilities to Soldiers. Innovation projects from the Army S&T Executing Commands will be approved by the Army Innovation Oversight Board, in the budget year and year of execution based on priority and opportunity. The Army Innovation Program will accelerate approved efforts that support the design of the Army of 2040, that enable rapid integration with transitions supporting Weapons, Soldier Lethality, C3I, Aviation, Ground portfolios; and emerging priorities including areas of Deep Sensing, Sustainment, and AI/ML.  <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding change reflects the planned lifecycle of the effort.				
<b>Title:</b> Demonstration and Development of Army Discovered Innovative Technologies  <b>Description:</b> The Army seeks to develop and demonstrate technology that display unique and innovative potential in a cross-domain fashion. This effort seeks to direct advanced research funding towards technologies that are discovered from Army Innovation events such as Innovation Days funded by PE 0605054A (Emerging Technology Initiatives) / Project FI3 (Rapid Capability Development and Maturation) or the Expeditionary Technology Search effort in PE 0605803A (Technical Information Activities) / Project CC2 (Expeditionary Technologies).  <b>FY 2024 Plans:</b> Will develop and demonstrate unique solutions to Army wide problems leveraging technology discovered through Army technology search events.  <b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding realigned to PE 0602150A (Air and Missile Defense Technology) to accelerate Army priority in Counter Small Unmanned Aircraft System (C-sUAS).		-	5.093	-
<b>Accomplishments/Planned Programs Subtotals</b>		8.925	15.319	10.102
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				

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<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603025A / <i>Army Agile Innovation and Demonstration</i>	<b>Project (Number/Name)</b> CK8 / <i>Advanced Technology Development and Convergence</i>

**D. Acquisition Strategy**  
N/A

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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
DA3: Army Advanced Innovation	-	8.832	7.837	4.506	-	4.506	6.169	7.866	8.527	8.829	0.000	52.566
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project funds the Advanced Development portion of the Army Innovation Plan, the Army's investment strategy to rapidly accelerate innovative solutions to challenging Warfighter problems. This Project will provide the Army with the most advanced and cutting-edge solutions with the ability to adapt and integrate multi-disciplinary innovative technologies by bridging the interfaces between internal and external efforts for a holistic entry into the acquisition pipeline at the most appropriate milestone. Cross-cutting modernization initiatives leverage strategic partnerships that foster an environment to bring knowledge and expertise to demonstrate innovative technologies that will benefit the warfighter. The pace of advancing technology and the flexibility to respond to cutting-edge technology at the Speed of Innovation, will accelerate the development of unanticipated technology opportunities, and allow the Army to rapidly deliver capabilities to the Soldier. Through the Army's Innovation Oversight Board, the Army senior leadership approves the Innovation projects in the budget year and year of execution based on priority and opportunity, ensuring that innovations have a high potential for filling capability gaps and transitioning to Army S&T projects to inform an optimal technology investment strategy and rapidly deliver capabilities to the Soldier.

This Project is coordinated with PE 0602002A (Army Agile Innovation and Development-Applied Research) / Project DC4 (Army Applied Innovation).

The cited research is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas.

Work is performed by the United States Army Combat Capabilities Development Command (DEVCOM), Army Artificial Intelligence Integration Center (AI2C), the Engineering Research and Development Center, Space and Missile Defense Technical Center, and the United States Army Research Institute for the Behavioral and Social Sciences.

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

	FY 2023	FY 2024	FY 2025
<b>Title:</b> Army Advanced Innovation	8.832	7.837	4.506
<b>Description:</b> The Army seeks to develop and demonstrate technology that display unique and innovative potential in a cross-domain fashion. This effort will serve as funding to rapidly transition disruptive and groundbreaking capabilities that fall outside of the normal acquisition pipeline.			
<b>FY 2024 Plans:</b> Assess, seed, demonstrate, integrate and bridge technologies from experimentation demonstrations which will allow for rapid transitions that meet persistent modernization requirements. The Army Innovation Program will accelerate multiple efforts to include cyber, Electronic Warfare, Sensors, Power and Energy, Artificial Intelligence and Autonomy, Communications, Position,			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Navigation and Timing, advancing Synthetic Training Environments; and Air and Ground Platform integration, Long Range Precision Fires, and Air and Missile Defense  <b><i>FY 2025 Plans:</i></b> The Army seeks to assess and demonstrate innovative technology that will accelerate transition of capabilities that will allow for rapid modernization. Proposal topics will focus on transformational technologies with a shift in focus to the design of the Army of 2040.  <b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> Decrease in FY25 funding due to reduction of assessment of innovative technology proposals in FY25.				
<b>Accomplishments/Planned Programs Subtotals</b>		8.832	7.837	4.506
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b>				
N/A				