

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 3: Advanced Technology Development (ATD)	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / Lethality Advanced Technology
--------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

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	-	7.772	9.796	20.582	-	20.582	22.485	19.793	10.459	11.223	0.000	102.110
<i>CG2: Lethality Enabling University Adv Development</i>	-	6.727	7.653	8.594	-	8.594	8.125	8.572	8.578	8.672	0.000	56.921
<i>CH5: Terminal Effects Against Critical Targets Adv Tech</i>	-	1.045	2.143	4.020	-	4.020	5.168	1.033	1.881	2.551	0.000	17.841
<i>CID: Sensor to Shooter (STS) Advanced Technology</i>	-	-	-	5.655	-	5.655	-	-	-	-	0.000	5.655
<i>DB2: Future Armaments Scalable Technologies</i>	-	-	-	2.313	-	2.313	9.192	10.188	-	-	0.000	21.693

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

Work done in this Program Element (PE) matures technologies, methodologies, and models required to enable next generation lethality. The PE focuses on: lethal mechanism technologies for projectiles and warheads that provide revolutionary capability to defeat Tier 1 adversary vehicle and body armors; selection of propulsion and energetic materials and technology to validate novel energetic materials concepts to exploit controllable energy release for future gun/missile systems; scalable effects for mixed target defeat while simultaneously decreasing warhead mass; experimentation of materials solutions for improvement of weight and volume efficiency, lethal effects and sustainability for the warfighter in the Army of today and beyond; and multiple pathways to enhance lethal effects by investigating synergistic effects of novel micro warheads using advanced materials.

This PE continues to mature and demonstrate technology developed under PE 0602141A (Lethality Technology).

Work in this PE complements PE 0603118A (Soldier Lethality Advanced Technology), PE 0603462A (Next Generation Combat Vehicle Advanced Technology), PE 0603464A (Long Range Precision Fires Advanced Technology), 0603465A (Future Vertical Lift Advanced Technology), and 0603466A (Air and Missile Defense Advanced Technology).

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

Research in this PE is performed by the United States (US) Army Futures Command (AFC) and US Army Engineer Research and Development Center (ERDC).

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification: PB 2024 Army</b>	<b>Date: March 2023</b>
-----------------------------------------------------------------------	-------------------------

<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 0603116A / <i>Lethality Advanced Technology</i>
-------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------

<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	8.066	9.796	14.361	-	14.361
Current President's Budget	7.772	9.796	20.582	-	20.582
Total Adjustments	-0.294	0.000	6.221	-	6.221
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.294	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	6.221	-	6.221

**Change Summary Explanation**

Funding increase will mature networked lethality architecture to enable automated targeting for rapid engagement; mature digital collaborative targeting capabilities, fires planning and de-confliction tools, and coordination and delivery algorithms to reduce sensor to shooter timelines.

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 3					<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>				<b>Project (Number/Name)</b> CG2 / <i>Lethality Enabling University Adv Development</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>
<i>CG2: Lethality Enabling University Adv Development</i>	-	6.727	7.653	8.594	-	8.594	8.125	8.572	8.578	8.672	0.000	56.921
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Project leverages advanced developments and technological innovations from academia, of lethal directed energy, laser diagnostics and accelerated design of future hypersonics and their scramjet engine combustion, deep learning and novel materials of importance to the Army, by maturing developments and performs demonstrations focused on getting technology to the warfighter more quickly. This Project exploits advanced research and development efforts to focus more on mid to far-term Army modernization priorities while also maintaining delivery of near-term technologies critical to the Long Range Precision Fires and Air and Missile Defense. This Project focuses on maturation and demonstration of various advanced technologies originating from extramural applied research in academia pertaining to lethal directed energy, laser diagnostics, future hypersonic glide body and scramjet propulsor design, deep learning, novel materials, and expansion of the Ballistic, Aero-Optics and Materials (B.A.M.) range applied to lethality. This effort validates advanced research and performs demonstrations leading to potential emerging technologies in areas of strategic importance to the Army in directed energy, future hypersonic glide body design, deep learning and novel materials, etc., by bringing competitively selected Universities with research and development teams into Technical Alliances.

Work in this Project complements Program Element (PE) 0620141A (Lethality Technology), PE 0602147A (Long Range Precision Fires), PE 0603464A (Long Range Precision Fires Advanced Technology), and PE 0603466A (Air and Missile Defense Advanced Technology)

The work cited is consistent with Under Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

Work in this Project is performed by the United States Army Futures Command.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Laser Diagnostics for Hypersonics and Directed Energy	2.144	2.208	2.469
<b>Description:</b> This effort matures laser diagnostics to assess turbulence and boundary layer transition, leading to validation of hypersonic flight models and enhanced directed energy system effectiveness and range through improved targeting, prediction and beam control.			
<b>FY 2023 Plans:</b>			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>	<b>Project (Number/Name)</b> CG2 / <i>Lethality Enabling University Adv Development</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>Will continue to mature a suite of laser diagnostics for hypersonic ground testing and models to predict effects of atmospheric turbulence on laser propagation. Develop capabilities to capture time volumetric gas density hypersonic flow imagery. Advanced development to inform the expansion of the BAM range for testing and evaluation of hypersonic and directed energy systems.</p> <p><b>FY 2024 Plans:</b> Will continue to improve and validate models for directed energy system effectiveness. Mature and demonstrate methods of sensing for hypersonic ground test and flight applications and for the measurement of turbulent aero-optical environments. Validate and optimize models from results of experimentation in the Ballistic Aero-Optics and Materials (B.A.M.) and other test facilities.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase reflects planned lifecycle of this effort.</p>				
<p><b>Title:</b> Turbulence and Transition Modeling and Validation for Hypersonic Vehicles</p> <p><b>Description:</b> This effort matures modeling turbulence and transition for hypersonic vehicles to accelerate design of future hypersonic glide bodies and systems through modeling and sub scale testing.</p> <p><b>FY 2023 Plans:</b> Will continue to accelerate and mature the design and advancement of hypersonic glide bodies and systems through turbulence and transition modeling. Will mature boundary layer transition code development. Reduce flight test risk through modeling and sub scale wind tunnel testing of effects of new design features. Advanced development to inform the expansion of the Ballistic, Aero-Optics and Materials (B.A.M.) range for testing and evaluation of aerothermodynamic performance at hypersonic speeds.</p> <p><b>FY 2024 Plans:</b> Continue to improve and provide computational fluid dynamics high performance computing models for transition, and turbulence models to improve hypersonic investigations and improve the rate of hypersonic vehicle design. Conduct validation experiments across multiple types of hypersonic test tunnels.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase reflects planned lifecycle of this effort.</p>		2.789	2.439	3.039
<p><b>Title:</b> Novel Materials for Extreme Environments</p> <p><b>Description:</b> This effort matures and validates computational and multiscale models of high strain rate materials to mitigate the effects of hypervelocity impacts (HVIs) and offer thermal protection.</p> <p><b>FY 2023 Plans:</b></p>		0.737	0.800	0.932

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>	<b>Project (Number/Name)</b> CG2 / <i>Lethality Enabling University Adv Development</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>Will continue to mature and validate critical high temperature materials and characterization testing and analysis capability for the design of thermal protection systems to defeat emerging threats from hypersonic weapons. Mature numerical algorithms of select materials. Provide protection overmatch from high kinetic energy impacts through material layering and unique structures.</p> <p><b>FY 2024 Plans:</b> Will continue to mature and improve characterization and materials for extremely high temperature applications. Will demonstrate an accelerated discovery approach for selecting high entropy materials for extreme environments. Will mature and demonstrate novel coatings as thermal protection systems. Will validate techniques and performance of composite joining materials and their multi-physics models.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase reflects planned lifecycle of this effort.</p>				
<p><b>Title:</b> Intelligent Hypersonics and Other Missile Defense Systems</p> <p><b>Description:</b> This effort matures and validates hypersonic vehicle flight systems with deep learning neural networks that can adapt to changing conditions and become more lethal. Integration of air and missile defense (AMD) command and control (C2) systems and their instrumentation, simulation, and stimulation.</p> <p><b>FY 2023 Plans:</b> Will validate ablation characteristics and the semi-autonomous synthetic flight control systems performance utilizing machine learning and deep neural network tools for hypersonic vehicle geometries. Will fabricate and mature axisymmetric prototype scramjet propulsor with transpiration fuel delivery system for high-speed projectiles. Will integrate robust and extensible instrumentation, simulation, and stimulation prototype capability for prototype development, and operational testing of AMD C2 systems.</p> <p><b>FY 2024 Plans:</b> Will continue to validate ablation characteristics and the semi-autonomous synthetic flight control system's performance and vehicle self-health monitoring sensors. Will continue to mature, integrate and demonstrate instrumentation, simulation, and stimulation of air and missile defense (AMD) C2 systems.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase reflects planned lifecycle of this effort.</p>		1.057	1.927	2.154
<p><b>Title:</b> SBIR/STTR Transfer</p> <p><b>FY 2023 Plans:</b></p>		-	0.279	-

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technol ogy</i>	<b>Project (Number/Name)</b> CG2 / <i>Lethality Enabling University Adv Development</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</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>		6.727	7.653	8.594
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b>				
N/A				

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>	<b>Project (Number/Name)</b> CH5 / <i>Terminal Effects Against Critical Targets Adv Tech</i>
--------------------------------------------------	------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------

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
CH5: <i>Terminal Effects Against Critical Targets Adv Tech</i>	-	1.045	2.143	4.020	-	4.020	5.168	1.033	1.881	2.551	0.000	17.841
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project matures and demonstrates engineering tools and high-fidelity modeling and simulation capabilities to predict and optimize weapon performance to ensure lethality against structures and critical assets. This project provides validated engineering tools and technologies to rapidly evaluate and predict weapon performance.

Work in this Project complements PE 0602141A (Lethality Technology) / Project CF8 (Terminal Effects Against Critical Targets Tech).

The work cited is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

Work in this Project is performed by the United States Army Engineer Research and Development Center.

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

	FY 2022	FY 2023	FY 2024
<p><b>Title:</b> Advanced Terminal Effects Demonstration</p> <p><b>Description:</b> Demonstrates and provides a predictive capability for terminal effects and lethality and a fast running engineering tool to support Long Range Precision Fires (LRPF) weaponeering on critical structural and geological targets of interest.</p> <p><b>FY 2023 Plans:</b> Demonstrate and provide high fidelity and fast-running runway cratering tools for damage prediction of Army Fires munitions; and provide and integrate steel penetration algorithms for army munitions on critical target sets into weapon effects code.</p> <p><b>FY 2024 Plans:</b> Will demonstrate combined blast/frag/structural models in BlastX tool, will validate PENFRAG Code for prediction and analysis of munition fragment and small caliber penetration, will demonstrate PENCURV+ updates for advanced penetration prediction and analysis capabilities.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase reflects investments required to validate and demonstrate predictive software tools requiring fragmentation and penetration physical testing.</p>	1.045	2.086	4.020
<p><b>Title:</b> SBIR/STTR Transfer</p>	-	0.057	-

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>	<b>Project (Number/Name)</b> CH5 / <i>Terminal Effects Against Critical Targets Adv Tech</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Description:</b> Funding transferred in accordance with Title 15 USC §638				
<b>FY 2023 Plans:</b> Funding transferred in accordance with Title 15 USC §638				
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding transferred in accordance with Title 15 USC §638				
<b>Accomplishments/Planned Programs Subtotals</b>		1.045	2.143	4.020
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
N/A				
<b>D. Acquisition Strategy</b>				
N/A				

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>	<b>Project (Number/Name)</b> CID / <i>Sensor to Shooter (STS) Advanced Technology</i>
--------------------------------------------------	------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------

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
<i>CID: Sensor to Shooter (STS) Advanced Technology</i>	-	-	-	5.655	-	5.655	-	-	-	-	0.000	5.655
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

Sensor to Shooter (STS) Advanced Technology is a new start within the Lethality Advanced Technology program in FY 2024.

Funding in FY24 is realigned from PE 0603041A / Project CM8 (Convergence Battlefield Integration).

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

This Project matures and demonstrates an advanced network lethality architecture to enable Joint All Domain Command and Control decision aid algorithms for coordinated and synchronized response and incorporates a full spectrum of effects and scalability to reduce the sensor to shooter timeline for Large Scale Combat Operations in a multi-domain environment.

Work in this Project is done in coordination with Program Element (PE) 0602181A (All Domain Convergence Applied Research).

The cited work is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

Work in this Project supports Next Generation Combat Vehicle, Tactical Network, Future Vertical Lift, and Long-Range Precision Fires Army Modernization Priorities.

Work in this Project is performed by the United States Army Futures Command.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> Lethal Effects Architecture for Decision Synchronization Advanced Technology	-	-	5.655
<b>Description:</b> This effort demonstrates an enhanced decision aid architecture to automate synchronized effects, improve sensor to shooter interaction, and optimize threat engagement in support of Large-Scale Combat Operations in a joint all-domain command and control environment.			
<b>FY 2024 Plans:</b> Will mature networked lethality architecture to enable automated targeting for rapid engagement; mature digital collaborative targeting capabilities, fires planning and de-confliction tools, and coordination and delivery algorithms to reduce sensor to shooter timelines; mature disparate joint effects across domains in support of future large scale combat operations and multi-			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>	<b>Project (Number/Name)</b> CID / <i>Sensor to Shooter (STS) Advanced Technology</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
domain operations; mature sensor to shooter decision aid algorithms to incorporate multi-domain effects into decision aid recommendations; mature decision aid algorithms to allow for scalability and increased number of weapons and targets.  <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> This effort begins in FY24 with funding realigned from PE 0603041A / Project CM8 (Convergence Battlefield Integration).				
<b>Accomplishments/Planned Programs Subtotals</b>		-	-	5.655
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b> N/A				

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 3					<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>				<b>Project (Number/Name)</b> DB2 / <i>Future Armaments Scalable Technologies</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>
DB2: <i>Future Armaments Scalable Technologies</i>	-	-	-	2.313	-	2.313	9.192	10.188	-	-	0.000	21.693
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

Future Armaments Scalable Technologies is a new start within the Lethality Advanced Technology program in FY 2024.

This program is a new start in FY 2024 and was realigned from PE 603465A / Project AK7 Adv Rotorcraft Armaments Protection Sys Adv Tech.

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

Future Armaments Scalable Technologies addresses the need to enhance the capability of existing and future critical enabling technologies. This effort will mature critical armament component technologies in the areas of energetics & warheads, fuzing & sensing, guidance navigation and control (GNC), materials & structures in order to support critical technology insertions into program requirements.

The cited work is consistent with the Under Secretary of Defense for Research and Engineering priority focus areas and the Army Modernization Strategy.

Work in this Project is performed by the United States Army Futures Command.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Future Armaments Scalable Technology	-	-	2.313
<b>Description:</b> This effort will mature and demonstrate armament sub-components to improve end item performance of critical enabling technologies.			
<b>FY 2024 Plans:</b> Will mature novel energetic and electronic critical sub-component armament technologies for future integration into munitions and armament systems technology insertion. Will mature gun launched fuzing and sensing components, energetics, and advanced materials for future munition and weapon system capabilities that can survive extreme environments.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> This is a New Start in FY24			
<b>Accomplishments/Planned Programs Subtotals</b>	-	-	2.313

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603116A / <i>Lethality Advanced Technology</i>	<b>Project (Number/Name)</b> DB2 / <i>Future Armaments Scalable Technologies</i>

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A