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

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604715A / Non-System Training Devices - Eng Dev
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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	-	17.910	21.441	28.427	-	28.427	15.555	14.699	15.283	15.466	Continuing	Continuing
241: Nstd Combined Arms	-	17.910	21.441	28.427	-	28.427	15.555	14.699	15.283	15.466	Continuing	Continuing

A. Mission Description and Budget Item Justification

Program Element funds development of Non-System Training Devices to support force-on-force and force-on-target training at the Combat Training Centers (CTC), general military training, and training on more than one item/system, as compared with system devices which are developed in support of a specific item/weapon system. Army training devices and training simulations contribute to the modernization of the forces by enabling readiness and strengthening combat effectiveness through realistic training solutions for the Warfighter. Training devices maximize the transfer of knowledge, skills, and experience from the training situation to a combat situation. Force-on-force training and force-on-target at the National Training Center (NTC), Ft. Irwin, CA; Joint Readiness Training Center (JRTC), Ft. Johnson, LA, Joint Multinational Readiness Center (JMRC), Hohenfels, Germany; Home Stations and deployed locations around the world; and battle staff training in Battle Command Training Program (BCTP) provide increased combat readiness through realistic collective training in low, mid, and high intensity scenarios. Project 241, Non-System Training Devices-Combined Arms, develops simulation training devices for Army-wide use, including the CTCs.

FY 2025 Project 241 funds significant development efforts in support of U.S. Army Training and Readiness on the Combat Training Center Instrumentation Systems (CTC-IS), Instrumentable-Multiple Integrated Laser Engagement System (I-MILES), Common Training Instrumentation Architecture (CTIA), Future Army System of Integrated Targets (FASIT), Medical Simulation Training Center (MSTC), Unmanned Aerial Systems (UAS) Swarm, Opposing Forces Mechanized Vehicle Replacement (OMVR), and the Live, Virtual, Constructive Integrating - Architecture (LVC-IA).

FY25 funding in the amount of \$6.212 Million is in support of the Pacific Defense Initiative.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	18.588	21.441	24.778	-	24.778
Current President's Budget	17.910	21.441	28.427	-	28.427
Total Adjustments	-0.678	0.000	3.649	-	3.649
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.001	-			
• SBIR/STTR Transfer	-0.679	-			
• Adjustments to Budget Years	-	-	3.649	-	3.649

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Appropriation/Budget Activity
2040: *Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)*

R-1 Program Element (Number/Name)
PE 0604715A / *Non-System Training Devices - Eng Dev*

Change Summary Explanation

Increase reflects revised economic assumptions and further OMVR prototype development efforts.

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>				Project (Number/Name) 241 / <i>Nstd Combined Arms</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
241: <i>Nstd Combined Arms</i>	-	17.910	21.441	28.427	-	28.427	15.555	14.699	15.283	15.466	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Common Training Instrumentation Architecture (CTIA) program is the foundation architecture of the Live Training Transformation Family of Training Systems (LT2-FTS). The program contains critical core product-line architecture which provides commonality across training instrumentation systems and interoperability across Live, Virtual, Constructive Integrated Training Environment (LVC-ITE) and joint training systems. CTIA includes Army owned software components, architecture services, standards, protocols and governance used by domain-specific Live Training Transformation (LT2) and Live Training Systems (LTS) to include instrumented Force-On-Force (FOF) and Force-On-Target (FOT) training requirements. The CTIA also provides Post Deployment Software Support (PDSS) and technology refresh for the LT2 family of LTS supporting over 22 live instrumented training products which are fielded at over 200 CONUS and OCONUS sites across the Army.

Combat Training Center Instrumentation System (CTC-IS) funds the continued development of the existing Instrumentation Systems (IS) at the National Training Center (NTC), Joint Readiness Training Center (JRTC) and Joint Multinational Readiness Center (JMRC). CTC-IS funds the continued development of the Range Communication System at the NTC and JRTC, to provide high-fidelity live, virtual, and constructive brigade training rotations which prepare Brigade Combat Teams (BCTs), Joint partners, and supporting units to deploy in support of the Army Sustainable Readiness Model (SRM). The CTCs primary goal is to develop agile and adaptive leaders at the tactical, operational and strategic levels while providing BCTs the core training necessary to conduct decisive action in a dynamic operating environment.

The Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) program provides realistic, real-time casualty effects for force-on-force tactical engagement training scenarios. Its ability to integrate into training instrumentation systems provides for high fidelity combined arms combat exercises supporting Readiness and closely aligns with the Modernization priority of Soldier Lethality. I-MILES is required for use at Home Stations, the Combat Training Centers (CTCs) and in theater of operations to meet force-on-force training requirements. I-MILES program funding provides for the Development and Integration of new vehicle and dismount weapon systems meeting the Common Operating Environment (COE) requirements, as well as embedded Tactical Engagement Simulation (TES) development. This includes development efforts of the Live Training Engagement Composition (LTEC) / Live Player Area Network (LPAN) Development of Legacy software patches that incorporate the Government owned LTEC operating system software. This creates a common architecture that provides the ability to develop new services to adapt to evolving Army requirements (i.e. Changes in weapon platforms, technologies, Pk Table Updates).

The Home Station Instrumentation Training System (HITS) currently provides a high-fidelity deployable instrumented training capability to support platoon thru battalion ground based Soldiers and vehicles in Force-on-Force Training. HITS tracks location of soldiers and vehicles and simulates weapons' effects and engagements, allowing units to "Train as they Fight" against live opponents. HITS provides accurate feedback to training units. HITS consists of light deployable components that can be rapidly assembled/disassembled and transported to support deployed training. HITS is a member of the Live Training Transformation (LT2) product line of training systems implementing hardware and software reuse with other Instrumentation Systems (IS). HITS provides the only Live training component for the large scale Live-

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<p>Virtual-Constructive (LVC) military training exercises. HITS begins US Army aviation vehicle integration with Home Station instrumentation to cover comprehensive training engagements between ground and air forces.</p> <p>The Medical Simulation Training Center (MSTC) provides realistic medical training to both medical and non-medical Soldiers in the Active, Reserve, and National Guard. MSTCs provide hands-on instruction on the latest battlefield trauma and critical care techniques based on Army Medical Center of Excellence (MEDCoE) approved performance oriented Program of Instruction (POI). Medical treatment validation exercises simulate the high stress of performing medical interventions in combat. MSTC supports Unit Medical Readiness by validating Combat Medic (68W) Emergency Medical Technician (EMT) biennial recertification requirements and provides Combat Lifesaver (CLS) training to non-medical Soldiers. The Tactical Combat Casualty Care Exportable (TC3X) Soldier System provides capability to train Soldiers on medical Warrior skills at the individual, leader, and collective levels.</p> <p>The Basic Electronics Maintenance Trainer (BEMT) provides the essential modernized electronic system maintenance training capability for the Army, Army National Guard, and the Army Reserve to achieve Military Occupational Specialty-Qualification (MOS-Q) for 40 Military Occupational Specialties (MOS) at 24 Active, National Guard, and Army Reserve camps, posts, and stations. Soldiers utilizing the BEMT system receive highly realistic training using scenarios which require performing basic electronic tasks in a virtual environment including tests, diagnosis, and repair while saving institutions significant expenses over live training alternatives. The BEMT consists of an Instructor Operator Station (IOS), Student Training Station(s) (STS), associated test equipment, Commercial-off-the-Shelf (COTS) computer, electronics console(s), supporting experiment cards, soldering station, and content server as applicable.</p> <p>The Live, Virtual, Constructive Integrating Architecture (LVC-IA) provides a net-centric linkage that collects, retrieves and exchanges data among LVC Training Aids, Devices, Simulations, and Simulators (TADSS) to include: Games For Training (GFT), Home Station Instrumentation Training System (HITS), Joint Land Component Constructive Training Capability (JLCCTC) and Synthetic Environment Core (SE Core), Universal Mission Simulator (UMS) and Mission Command Information Systems (MCIS). The LVC-IA defines "how" information is exchanged among the different LVC domains and the MCIS. The LVC-IA provides enterprise level tools for exercise control, after action review, and system information assurance. It develops hardware and software to interface the different Live, Virtual, Constructive and Gaming communication protocols and to provide a correlated common operating picture for the training audience on their organic Mission Command equipment. The integration of the LVC TADSS with the Mission Command equipment will enable larger and more robust training events, to better prepare U.S. Soldiers for their missions at an overall reduced cost. The end-state goal is to enable an LVC Integrated Training Environment that can replicate Operational Environments in a cost-effective manner to provide a high level of value-added training and mission rehearsal opportunities to Army Commanders and their Soldiers. In FY 2019, the LVC-IA program commence design and developmental activities for Version 4, which allowed for Web-based optimization; inclusion of new simulations to the architecture; and concurrency with core system TADSS and MCIS through FY 2022. FY 2025 request will continue developmental and integration activities to ensure Interoperability with the Synthetic Training Environment (STE), while maintaining concurrency with JLCCTC, HITS, GFT and MCIS. The LVC-IA program supports the modernization and readiness priorities by bringing JLCCTC and HITS to the Synthetic Training Environment enabling an Integrated Training Environment until the STE constructive and live systems are developed and integrated with STE.</p> <p>The Army identified an operational gap in the training strategy for the Opposing Force (OPFOR) Integrated Air Defense System (IADS). It is a collection of enemy air defense weapons systems that engages Army aviation assets. Training Aircraft Survivability Equipment (ASE) Simulation Suite (TASS) is a live training system consisting of aircraft components and ground emitters that replicates current and emerging enemy Air Defense systems. Its fidelity supports individual pilot training as</p>		

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<p>well as the collective training requirements of the Brigade Combat Team to fully plan, prepare, execute and react against enemy air defense weapons at the Combat Training Centers (CTC).</p> <p>Future Army System of Integrated Targets (FASIT) provides Live Fire training systems and software capable of supporting all Army automated ranges and it's Installations around the world. The FASIT training systems include: A single, universal target control software for all automated ranges (ground and aviation) identified in TC 25-8, providing users a controller with a common look and feel; downrange stationary and moving infantry and armor Presentation Devices (PDs) that interact with the control software to present targets and provide scoring feedback; battlefield/weapons effects devices that simulate combat situations, visuals, and sounds; and targets that provide visual, and thermal representations of friendly/threat engagements. The FASIT systems enable trainers to develop scenarios to simulate wartime mission tasks in a stressful battlefield environment.</p> <p>The Digital Range Training System (DRTS) provides advanced instrumentation specifically required for live fire gunnery training and qualification with the Abrams, Bradley, Stryker/Mobile Gun System (MGS), Apache Aircraft and Unmanned Aerial Systems (UAS) on larger mounted maneuver Instrumented "Digital" Ranges. DRTS provides crew, section, platoon and company training and qualification capabilities above and beyond any other range in the Army inventory. These ranges interface with the tactical vehicles through an Integrated Player Unit Recorder (IPUR) or Smart Onboard Data Interface Module (SMODIM) to provide both real-time feedback to leaders and rapid development of complete After Action Reviews (AARs) and Take Home Packages (THPs). These AAR THPs include synchronized Thru-Sight Video (TSV) from the Commander/Gunner sights, crew camera video from inside the vehicles, thermal field camera video from the range cameras and internal crew audio for a complete evaluation. Nine of these DRTS ranges also incorporate Aerial Weapons Scoring System (AWSS) to interface with Aviation and Unmanned Aerial System gunnery training and qualification in a similar manner. The five standard training ranges utilize all available combat systems capabilities and digitally integrate them to manage all forces undergoing crew through collective live-fire training and qualification: Digital Multi-Purpose Range Complex (DMPRC) supports all gunnery tables and Combined Arms Live Fire Exercise (CALFEX) for Armor, Infantry and Aviation; Digital Multi-Purpose Training Range (DMPTR) supports crew and section qualification for Armor and Infantry; Battle Area Complex (BAX) supports crew through company CALFEX for Stryker & Infantry Brigade Combat Teams (SBCT/IBCT); Digital Air Ground Integration Range (DAGIR) supports all gunnery tables and CALFEX for Armor, Infantry and Aviation platforms; Aerial Gunnery Range (AGR) at Fort Bragg supports crew through Company CALFEX for manned/unmanned aviation platforms.</p> <p>OPFOR Surrogate Wheeled Vehicles (OSWV) provides a collection of wheeled vehicles, used as training aids to portray threat vehicles including tactical vehicles, technical vehicles, and Civilian on the Battlefield vehicles (COB-V). The program supports the CTC OPFOR/COE Pillar capability through technical vehicles, unique visual modifications (VISMODs), and COB-Vs. This capability provides for an accurate replication of OPFOR and COB-Vs environment that rotational units must train against.</p> <p>Unmanned Aerial Systems (UAS) Swarm provides integrated, multi-domain threat representative UAS platforms through custom UAS components and payloads that challenge training communities' execution of UAS Tactics, Techniques and Procedures (TTPs), use of current and evolving UAS technologies (i.e., Drone buster), and gives feedback on their vulnerabilities to UAS-enabled Intelligence, Surveillance, and Reconnaissance, Cyber, Electronic Warfare, Dynamic Targeting and Swarm operations.</p>		

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Opposing Forces Mechanized Vehicle Replacement (OMVR) will consist of a common Army tracked platform that uses modular VISMODs. This capability will allow the Opposing Forces to replicate five of the six warfighting functions. This replication will train Army units to synchronize all Intelligence, Surveillance, and Reconnaissance (ISR) assets available to the Brigade Combat Rotational Training Unit (RTU), present threat representative tracked/mechanized vehicles and formations to the RTU across the depth and breadth of the training area, and provide the OPFOR and the Army with a sustainable system that is safe for Soldiers to operate and maintain.

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

	FY 2023	FY 2024	FY 2025
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Common Training Instrumentation Architecture (CTIA) program.</p> <p>Description: Continue EMD phase contract activities for the CTIA program to provide common architecture capabilities.</p> <p>FY 2024 Plans: FY 2024 Base RDTE dollars in the amount of \$2.740 million will fund the continued development of CTIA to provide the common architecture capabilities that are essential for development, fielding, technology and capability insertion for 22 live training systems at 200+ training locations worldwide, to include the Combat Training Centers-Instrumentation System utilized at the National Training Center, the Joint Readiness Training Center, and at the Joint Multinational Readiness Center; the Home Station Instrumentation System; the Digital Ranges Training System, and future modernization efforts including emerging Army and joint architectures.</p> <p>FY 2025 Plans: FY 2025 Base RDTE dollars in the amount of \$2.830 million will fund the continued development of CTIA to provide the common architecture capabilities that are essential for development, fielding, technology and capability insertion for 22 Live Training Systems at 200+ training locations worldwide, to include the Combat Training Centers-Instrumentation System utilized at the National Training Center, the Joint Readiness Training Center, and at the Joint Multinational Readiness Center; the Home Station Instrumentation System; the Digital Ranges Training System, and future modernization efforts including emerging Army and joint architectures.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY2024 to FY2025 is due to economic assumptions associated with continuing development activities to provide the common architecture capabilities.</p>	2.377	2.740	2.830
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Combat Training Center Instrumentation System (CTC-IS).</p> <p>Description: Continue EMD phase contract activities for the CTC-IS.</p> <p>FY 2024 Plans: FY 2024 Base RDTE dollars in the amount of \$0.520 million will fund Post Deployment Software Support (PDSS), After Action Review (AAR) Artificial Intelligence (AI) Engine Study on the application of Artificial Intelligence (AI) for the development of AAR</p>	2.582	0.520	4.160

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>products to research the opportunity of utilizing AI software to analyze combat Training Center training events for cause and effect, which would provide swifter in-depth awareness to trainers for AAR purposes.</p> <p>FY 2025 Plans: FY 2025 Base RDTE dollars in the amount of \$4.160 million will fund multiple efforts: Artificial Intelligence - Study on the application of Artificial Intelligence (AI) for the development of After Action Review (AAR) products. Research the opportunity of utilizing AI software to analyze Combat Training Center training events for cause and effect, which would provide more swift in-depth awareness to trainers for AAR purposes. Assessments - New Systems consists of design and integration of the capture of multiple waveforms of Rotational Unit voice communications for Exercise Control and AAR products. The funding will also integrate Synthetic Training Environment (STE) Live components into the Instrumentation System, evolving the capability of the Instrumentation to capture new weapons and threats.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: RDTE Funds for CTC-IS increased by \$3.640 million for funding the development of new systems such as Integrated Tactical Network (ITN) and Synthetic Training Environment (STE) components.</p>				
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Instrumentable-Multiple Integrated Laser Engagement System (I-MILES).</p> <p>Description: EMD phase contract activities for the I-MILES program.</p> <p>FY 2024 Plans: FY 2024 Base RDTE dollars in the amount of \$3.608 million will continue to analyze, develop, test and implement the Live Training Engagement Composition (LTEC) through Post Deployment Software Support. Funds will also begin service life extension development efforts to redesign the Tactical Vehicle System (TVS) and Individual Weapon System (IWS) product line key components to extend product life and supportability as a result of them reaching end of useful life.</p> <p>FY 2025 Plans: FY2025 Base RDTE dollars in the amount of \$3.985 million will fund continued service life extension development efforts to redesign the Tactical Vehicle System (TVS) and Individual Weapon System (IWS) product line key components to extend product life and supportability as a result of them reaching end of useful life. Funding will commence development and integration of Synthetic Training Environment-Live Training System (STE-LTS) capabilities into Vehicle Tactical Engagement Simulation System (VTESS) kits along with the US Army Electronics Proving Ground (EPG) testing support.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		3.081	3.608	3.985

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
Increase from FY2024 to FY2025 is due to commencing development and integration of STE-LTS capabilities into VTESS kits.				
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Home Station Instrumentation Training System (HITS) program.</p> <p>Description: EMD phase contract activities for the HITS program.</p> <p>FY 2024 Plans: FY 2024 Base RDTE dollars in the amount of \$0.495 million will continue efforts for Home-Station Instrumentation Training Systems (HITS) Concurrency for new software (either COTS or developmental) that will yield additional capabilities to HITS.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY2025 decrease to maintain planned lifecycle of this effort.</p>		1.616	0.495	-
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Medical Simulation Training Center (MSTC).</p> <p>Description: Contract activities for the MSTC program to develop the Virtual Patient System technologies. The approved MSTC Capability Production Document (CPD), Inc 1, Rev 1, dtd 6 MAR 2019, shows capability has additional unfulfilled requirements. The MSTC CPD requires that ALL GENDERS shall be represented within the medical training simulations and scenarios. The FEMALE GENDER is now under development. The CPD also states that realistic medical scenarios are required, which are also being developed.</p> <p>FY 2024 Plans: FY 2024 Base RDTE dollars in the amount of \$0.289 million will allow the continuation of the analysis of the test results and Report generation of the Operational Test of the Female Trauma Mannequin. The verification, validation, and accreditation (VV&A) results from the Operational Test of the hardware will allow the productionization of the Female Trauma Mannequin and posture the mannequin for fielding in FY 2024.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The MSTC program RDT&E requirement will be met in FY 2024. In FY 2025, the MSTC program will transition to sustainment.</p> <p>As a result of the MSTC programs transition to sustainment, FY 2024 Base RDTE dollars in the amount of \$0.289 million will be reallocated for cyber security support.</p>		1.165	0.289	-
<p>Title: Live, Virtual, Constructive Integrating Architecture (LVC-IA) Engineering and Manufacturing Development (EMD) phase contract activity.</p>		2.935	2.985	3.315

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Description: Continue EMD phase contract activities for the LVC-IA program.</p> <p>FY 2024 Plans: Live, Virtual, and Constructive-Integrating Architecture (LVC-IA) program will continue system development, integration and demonstration of the LVC-IA capability to ensure concurrency with Synthetic Training Environment (STE), core system Training Aids, Devices, Simulations, and Simulators (TADSS), and Army Mission Command Information Systems.</p> <p>FY 2025 Plans: Live, Virtual, and Constructive-Integrating Architecture (LVC-IA) program will continue system development, integration and demonstration of the LVC-IA capability to ensure concurrency with Synthetic Training Environment (STE), core system Training Aids, Devices, Simulations, and Simulators (TADSS), and Army Mission Command Information Systems</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY2024 to FY2025 is due to continuing efforts to ensure interoperability with the Synthetic Training Environment (STE) while maintaining concurrency with Joint Land Component Constructive Training Capability (JLCCTC), Home Station Instrumentation Training System (HITS), and Games for Training (GFT).</p>				
<p>Title: Live, Virtual, Constructive Integrating Architecture (LVC-IA) Program Government System Test and Evaluation.</p> <p>Description: Government System Test and Evaluation for the LVC-IA Program.</p> <p>FY 2024 Plans: LVC-IA will continue integration, testing and evaluation activities in support of LVC-IA interoperability with STE, TADSS and Mission Command Information Systems.</p> <p>FY 2025 Plans: LVC-IA will continue integration, testing and evaluation activities in support of LVC-IA interoperability with STE, TADSS and Mission Command Information Systems.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY2024 to FY2025 is due to economic assumptions.</p>		0.372	0.385	0.393
<p>Title: Government Program Management for the Live, Virtual, Constructive Integrating Architecture (LVC-IA) Program.</p> <p>Description: Government Program Management for the LVC-IA Program.</p> <p>FY 2024 Plans:</p>		0.386	0.338	0.345

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Will provide program management, engineering and technical oversight, contract support, and travel for the LVC-IA Program.</p> <p>FY 2025 Plans: Will provide program management, engineering and technical oversight, contract support, and travel for the LVC-IA Program.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY2024 to FY2025 is due to economic assumptions.</p>				
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Future Army System of Integrated Targets (FASIT).</p> <p>Description: The FASIT program's primary innovation goals are the development of advanced non-contact ballistic hit detection and recognition system, advanced human type targets, non-contact area scoring technology, combat ID targets, electromagnetic/cyber replication, multi domain operations, and augmented reality on live fire ranges; all aimed at increasing training realism, enhancing Soldier resiliency, and lowering life cycle costs.</p> <p>FY 2024 Plans: FY 2024 Base RDTE dollars in the amount of \$0.944 million provides for the final development and testing of the prototype components for the Non-Contact Area Scoring Technology (NCAST). NCAST is a capability that will be developed to replace the mobile Aerial Weapons Scoring System (AWSS) systems as well as the fixed AWSS on select aviation Home Station ranges to support Aviation Gunnery Training. Additionally, the system will provide real-time detection of incoming munitions, location of penetration, and determine the caliber and velocity of incoming rounds. These efforts and solutions will align with the defined OPTEMPO in the FASIT CPD and Army Training Circular 25-8.</p> <p>FY 2025 Plans: FY 2025 Base RDTE dollars in the amount of \$2.860 million provides for the development of the prototype systems focused on Combat Identification in support of Multi-Domain operations. Currently aviation platforms cannot use their thermal and radar detection systems to identify threat systems when training on live-fire ranges. This funding will provide for the maturation of the systems to be demonstrated in a relevant environment. Additionally, the funding will provide continuing maturation of the Advanced Human Type Target. This capability will be demonstrated in a live-fire shoothouse and provides a more realistic mannequin that has multiple hit zones, collapses realistically, and resets itself onto its stand without manual intervention.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: RDTE Funds for FASIT increased by \$1.916 million from FY2024. The funding in the program fluctuates annually as it is aligned to mature technologies that begin under Small Business Innovation Research (SBIR) efforts. As a technology reaches Technology Readiness Level (TRL) 6 under the SBIR funding, it needs to be further matured using program RDTE funding. That funding</p>		2.238	0.944	2.860

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
needs to be aligned to that timeframe, hence the increase from FY2024. The Combat ID SBIR and Advanced Human Type Targets (AHTT) work transition from SBIR funding to program funding in FY2025.				
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Unmanned Aerial System (UAS) Swarm</p> <p>FY 2024 Plans: FY 2024 RDTE of \$0.900 million provides for the incremental funding for continued development of UAS Swarm software and integration with 4G/LTE networks, development of payload and integration, initial operational assessments, and hardware development for charging stations, tablets, and manual/remote deployment systems.</p> <p>FY 2025 Plans: Provides sustainment of the deployed UAS Swarm hardware and software at the Combat Training Centers (CTCs), as well as the testing and airworthiness release support to incorporate these updates. Provides spares required for airframes, ground control stations, batteries, and battery chargers to maintain operational readiness. Software sustainment includes bug and safety patches encountered during operations as well as enhancements to usability based on customer feedback.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 to FY 2025 decrease in funding due to program reaching Full Operational Capability (FOC) and transitioning to sustainment.</p>		1.158	0.900	0.398
<p>Title: Prototype phase contract activity for Opposing Forces Mechanized Vehicle Replacement (OMVR)</p> <p>Description: The Opposing Forces Mechanized Vehicle Replacement (OMVR) will consist of a common Army tracked platform that uses modular visual modifications (VISMODs). This capability will allow the Opposing Forces to replicate five of the six warfighting functions. This replication will train Army units to synchronize all Intelligence, Surveillance, and Reconnaissance (ISR) assets available to the Brigade Combat Rotational Training Unit (RTU) across the depth and breadth of the training area, and provide the Opposing Force (OPFOR) and the Army with a sustainable system that is safe for Soldiers to operate and maintain.</p> <p>FY 2024 Plans: FY2024 funding will be utilized for program management (OTA white paper evaluation, contract package preparation, and technical evaluations), baseline host chassis, conduct host chassis variation analysis to determine and document differences between variants, and begin prototype development.</p> <p>FY 2025 Plans: Funding will be used to transition from vehicle baseline and variation analysis to prototype design, development, and integration of the Visual Modifications (VISMOD) variants, as well as host chassis maintenance associated with the OMVR program. Efforts will also include preparation of a contract package that will support the production of the OMVR VISMOS.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>		-	1.507	3.929

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
FY 2024 to FY 2025 increase in funding will provide design and development of VISMOD prototypes.				
<p>Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Joint Pacific Maneuver Readiness Center (JPMRC)</p> <p>FY 2024 Plans: FY2024 Base RDTE dollars in the amount of \$2.511 million will fund the USARPAC Low Cost Threat Emitter (LCTE) Prototypes which supports the Pacific Multi-Domain Training and Experimentation Capability (PMTEC) campaign plan to instrument high end threat replication capabilities, USARPAC conducts spiral development and experimentation with 3 x LCTE prototype systems in partnership with US Army Intel Center of Excellence, Electronic Proving Ground, USAF 56th RMO, and Arizona State University Affiliated Research Center (UARC). The LCTE is a portable system that contributes to the EMS effects toolkit for realistic, Joint training. An LCTE formation can create an Integrated Air Defense System (IADS) threat operating environment that can closely mimic our adversary's A2AD bubble to include radars, vehicle signatures, and unit EMS signatures. By utilizing sophisticated, abundant, integrated, and easily deployable threat emitters during training, the Joint Force can better understand the threat spectrum and how to best operate in a contested environment. With functional integration in a Joint exercise as early as April 2023, the LCTE will enhance MDO training for the MSTF, all service components fixed wing, UAS units, SOF, and other experimental assets.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease from FY2024 to FY2025 due to reassignment of the US Army Pacific (USARPAC) Low Cost Threat Emitter (LCTE) planned prototype development and experimentation effort from under the Joint Pacific Maneuver Readiness Center (JPMRC) program to a stand-alone effort.</p>		-	2.511	-
<p>Title: USARJ Cyberspace Integration</p> <p>FY 2024 Plans: USAR-J is postured to integrate multi-domain training FWD in Japan in FY2022-2026, advancing USARPAC multi-domain land power objectives and experimentation throughout the Pacific Theater. This effort will support cyberspace domain integration into Army exercises in Japan (Orient Shield, Yama Sakura, North Wind). This will be accomplished via a Cyberspace exercise integration services contract that will enable realistic cyber training for Joint and Bilateral exercises and support USARPAC MDO experimentation FED in Japan. This effort will transition current USAR-J cyber OAs from notional white card cyber training to practical value-added cyberspace exercise integration providing active cyberspace simulation venues for MDTF/MDEB, US cyber, and JSDF system protection unit (cyber) teams to train on METL and exercise objectives.</p> <p>These funds will be executed by USARPAC (Command 820).</p> <p>FY 2025 Plans:</p>		-	2.712	2.705

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>FY2025 Base RDT&E dollars in the amount of \$2.705 million will fund USAR-J's integrated multi-domain training FWD in Japan in FY24-28, advancing USARPAC multi-domain land power objectives and experimentation throughout the Pacific Theater. This effort will support cyberspace domain integration into Army exercises in Japan (Orient Shield, Yama Sakura, North Wind). This will be accomplished via a Cyberspace exercise integration services contract that will enable realistic cyber training for Joint and Bilateral exercises and support USARPAC Multi-Domain Operations (MDO) experimentation FED in Japan. This effort will transition current USAR-J cyber OAls from notional white card cyber training to practical value-added cyberspace exercise integration providing active cyberspace simulation venues for MDTF/MDEB, US cyber, and JSDF system protection unit (cyber) teams to train on METL and exercise objectives. They include: Exercise MDTF All Domain Operations Center (ADOC) FWD into exercise networks; Conduct Cyber, information operations, and electromagnetic spectrum training utilizing AI/ML stimulated information environment; Develop and exercise threat hunting ability between partners, increased awareness of DOD and NCMF players of partner capability in cyber; Refine and exercise bilateral cyber development TTPs/SOPs; Improve US-Japan response capability to cyber-attacks on US-Japan common equipment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY2025 decrease to maintain planned lifecycle of this effort.</p>				
<p>Title: Establish Combined Joint System Integration Laboratory (CJSIL) Nodes</p> <p>FY 2024 Plans: Pilot Program to extend the Combined Joint Systems Integration Lab (CJSIL) test floor using a deployable "forward node" to support USARPAC experimentation. The "How" Small forward node (transit case) connects USARPAC to closed restricted sandbox at the CJSIL, Aberdeen Proving Ground (APG). Majority of test architecture will be deployed at APG, experimental systems can be either connected to the forward node or located at APG. The "Why" First contact / initial testing can be conducted in a lab environment before incurring costs to deploy in live / exercise environment. Provides a clean, instrumented, reproducible environment with experts on hand to assist where needed. Remotely accessible, persistent "sandbox" environment to accommodate rapid execution and flexible evaluation requirements. Lower IA thresholds for System Under Test (SUT) deployment -Insert vendor systems into test architecture in CONUS. The "So What" Cost Savings - Reduces or eliminates travel costs for CIV, MIL, CTR, and Vendors; Architecture blend of Virtual/Real systems provides an efficient, reusable footprint for testing. Time Savings - Reduces experimentation lead time; allows for 'quick looks' at proposed technologies. Risk Mitigation - Reduces Integration risks for formal events / exercises.</p> <p>These funds will be executed by USARPAC (Command 820).</p> <p>FY 2025 Plans: FY2025 Base RDT&E dollars in the amount of \$1.503 million will fund a program to extend the Combined Joint Systems Integration Lab (CJSIL) test floor using a deployable "forward node" to support USARPAC experimentation. This is in support of</p>		-	1.507	1.503

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>the INDOPACOM Pacific Warfighting Concept for the future force. Access through the CJSIL increases and improves integrated experimentation with emerging C5ISR capabilities and DOD technologies. This program will 1. Provide the connection point of Army and Joint service experimentation. Connects Army and Joint service labs in a single, virtual, operational realistic tactical network environment, enabling greater collaboration for better solutions. 2. Provide a realistic and scalable tactical network architecture comprised of current / future tactical radios, software applications and transport systems to provide a system of systems integration and testing environment for emerging communications and networking technologies; 3. Assess whether new or enhanced tech work with fielded systems; 4. Replicate realistic operational conditions to understand the effect on systems' resilience and reliability; 5. Contain five network floors (Closed Restricted, Project Convergence/Operational Test, Army Persistent Experimentation Environment, JADC2 Development/Demonstration Environment, and Coalition Experimentation).</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decreased funding due to revised economic assumptions.</p>				
<p>Title: USARPAC Low Cost Threat Emitter (LCTE)</p> <p>Description: In support of the US Army Pacific (USARPAC) Low-Cost Threat Emitter (LCTE) prototypes for the Pacific Multi-Domain Training and Experimentation Capability campaign plan, funding will be used to instrument high end threat replication capabilities using Integrated Air Defense Radar emulators that operate from mid S-Band to mid C-Band as well as X-Band to fulfill this requirement.</p> <p>FY 2025 Plans: FY2025 Base RDTE dollars in the amount of \$2.004 million will fund the US Army Pacific (USARPAC) Low Cost Threat Emitter (LCTE) prototypes which supports the Pacific Multi-Domain Training and Experimentation Capability campaign plan to instrument high end threat replication capabilities. USARPAC conducts spiral development and experimentation with LCTE prototype systems in partnership with US Army Intel Center of Excellence, Electronic Proving Ground, UASF 56th Range Management Office, and Arizona State University Affiliated Research Center. The LCTE is a portable system that contributes to the electromagnetic spectrum (EMS) effects toolkit for realistic, Joint training. An LCTE formation can create an integrated air defense system threat operating environment that can closely mimic our adversary's Anti-Access Area Denial bubble to include radars, vehicle signatures, and unit EMS signatures. By utilizing sophisticated, abundant, integrated, and easily deployable threat emitters during training, the Joint Force can better understand the threat spectrum and how to best operate in a contested environment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase from FY2024 to FY2025 due to reassignment of the LCTE effort from under the JPMRC program to a stand-alone effort.</p>		-	-	2.004
Accomplishments/Planned Programs Subtotals		17.910	21.441	28.427

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army	Date: March 2024
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C. Other Program Funding Summary (\$ in Millions)

Line Item	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
• MA6600: <i>Combat Training Centers Support</i>	48.044	56.619	40.686	-	40.686	36.567	31.302	31.451	32.019	Continuing	Continuing
• NA0100: <i>Training Devices, Nonsystem</i>	179.879	226.379	174.890	-	174.890	176.905	179.194	188.420	186.547	Continuing	Continuing

Remarks

D. Acquisition Strategy

Competitive development efforts based on performance specifications.

1. In FY 2019 - 2023, Combat Training Center Instrumentation Systems (CTC-IS) RDTE will be used to fund a Life Cycle Product-line Management (LCPM) contract structured as a 5 year Single Award Indefinite-Delivery/Indefinite-Quantity (IDIQ) for the implementation of a Hardware Product Line (HPL), the contractor was selected. The strategy is to establish a deliberate approach to Life Cycle Management (LCM) of Live Training Family of Systems, providing the framework for future Life Cycle Efforts for the Hardware Product Line Framework.
2. In FY 2020, CTIA awarded a new competitive IDIQ contract with a 1-year base and 7 single-year option periods to General Dynamics Mission Systems to continue to provide the common architecture for 22 live training systems at 200+ training locations worldwide.
3. In FY2022, the Live, Virtual, Constructive Integrating Architecture (LVC-IA) program awarded a new competitive IDIQ contract with a 2-year base period, two 2-year option periods and four 1-year option periods to Dignitas Technologies, LLC. The LVC-IA concurrency and Synthetic Training Environment interoperability will be executed under this contract.
4. In FY 2024, FASIT will incrementally fund the Small Business Innovative Research Phase III contract for the development of the NCAST capabilities.
5. In FY 2025, FASIT will incrementally fund the separate Small Business Innovative Research Phase III contracts for the development of the Combat Identification and Advanced Human Type Target capabilities.
6. In FY 2023-2026, Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) will leverage the General Dynamics contract vehicle and competitive OTA approaches to address EUL / relevancy challenges as product lines reach those trigger points in their life cycle or changes to weapon system configurations drive those actions. By FY23 three of the five I-MILES product lines will be at end of useful live. These efforts will enable a wide range of industry partners to integrate LTEC/LPAN into existing systems and execute Tech Refresh activities as required until Live STE capabilities are introduced.
7. In FY 2021, Home Station Instrumentation Training System (HITS) awarded a new delivery order on the General Dynamics contract.

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8. In FY 2022, OPFOR Integrated Air Defense System (IADS) will start development of weapon processor software, integration with the training instrumentation systems at the Combat Training Centers (CTCs), and validate the solution through testing.

9. UAS Swarm will continue to provide the U.S. Army Combined Training Centers with UAS Swarm support utilizing the existing Aviation and Missile Technology Consortium OTA.

10. FY 2024, OMVR program will have a full and open competitive contract for the initial prototype development and design, logistics planning and host chassis maintenance for the OMVR program. The contract package will support the development, design, fabrication, testing, and fielding of the OMVR Visual Modifications to the Combat Training Centers.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
LVC-IA Program Management	Various	PEO STRI : Orlando, FL	11.507	0.386	Feb 2023	0.385	Feb 2024	0.345	Feb 2024	-		0.345	Continuing	Continuing	Continuing
Subtotal			11.507	0.386		0.385		0.345		-		0.345	Continuing	Continuing	N/A

Remarks
NOTE: FY2024 Base RDTE for LVC-IA Program Management should reflect a cost of \$0.338 million; this will be updated in the next available cycle.

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
I-MILES	Option/IDIQ	General Dynamics Mission Systems : Orlando, FL	8.199	0.904	Dec 2022	2.123	Dec 2023	-		-		-	Continuing	Continuing	Continuing
I-MILES	C/FFP	National Security Technology Accelerator : Orlando, FL	-	2.177	Aug 2023	-		2.485	Dec 2024	-		2.485	Continuing	Continuing	Continuing
I-MILES SLEP Development	C/TBD	TBD : TBD	-	-		1.388	Feb 2024	1.372	Feb 2025	-		1.372	Continuing	Continuing	Continuing
HITS	Option/IDIQ	General Dynamics Mission Systems (GDMS) : Orlando, FL 32826	8.837	1.616	Mar 2023	0.495	Mar 2024	-		-		-	Continuing	Continuing	Continuing
MSTC Development	C/FP	Multiple : Various	6.517	1.165	May 2023	0.289	Feb 2024	-		-		-	0.000	7.971	8.014
LVC-IA Follow-On Contract	C/CPFF	Dignitas Technologies, LLC : Orlando, FL	2.748	2.935	Apr 2023	2.985	Apr 2024	3.315	Apr 2025	-		3.315	Continuing	Continuing	Continuing
CTIA	C/CPFF	General Dynamics Mission Systems, Inc (GDMS) : Orlando, FL	7.290	2.377	Jan 2023	2.740	Jan 2024	2.830	Jan 2025	-		2.830	Continuing	Continuing	Continuing
CTC-IS	C/TBD	TBS : Orlando, FI	47.219	2.582	May 2023	0.520	May 2024	4.160	Dec 2024	-		4.160	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Future Army Systems of Integrated Targets (FASIT) Non-Contact Area Scoring Technology	C/CPFF	SensorMetrix : San Diego, CA	-	1.241	Jan 2023	0.944	Nov 2023	-		-		-	Continuing	Continuing	Continuing
Future Army Systems of Integrated Targets (FASIT)	C/CPFF	TBD : TBD	-	0.997	Sep 2023	-		2.860	Mar 2025	-		2.860	Continuing	Continuing	Continuing
Digital Range Training System (DRTS)	Option/CPFF	General Dynamics One Source, LLC : Fairfax, VA	2.584	-		-		-		-		-	0.000	2.584	-
Unmanned Aerial System Swarm	Option/CPFF	Colsa : Huntsville, AL	0.999	1.158	Jan 2023	0.900	Jan 2024	0.398	Mar 2025	-		0.398	Continuing	Continuing	Continuing
OMVR	C/FFP	TBD : Redstone Arsenal, AL	-	-		1.507	Jan 2024	3.929	May 2025	-		3.929	Continuing	Continuing	Continuing
Joint Pacific Maneuver Readiness Center (JPMRC)	C/FFP	USARPAC : PACIFIC REGION	-	-		2.511	May 2024	-		-		-	0.000	2.511	-
Combined Joint System Integration Laboratory (CJSIL) Nodes	C/TBD	USARPAC : PACIFIC REGION	-	-		1.507	May 2024	1.503	May 2025	-		1.503	0.000	3.010	-
USARJ Cyberspace Integration	C/TBD	USARPAC : PACIFIC REGION	-	-		2.712	May 2024	2.705	May 2025	-		2.705	0.000	5.417	-
Low Cost Threat Emitter (LCTE) Prototypes	TBD	TBD : Redstone Arsenal, AL	-	-		-		2.004	Mar 2025	-		2.004	0.000	2.004	Continuing
Subtotal			84.393	17.152		20.621		27.561		-		27.561	Continuing	Continuing	N/A

Remarks

- The Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) - FY 2022 began the fielding of the LTEC integration into VTESS and TVS. FY 2023 to FY 2026 will be focused on extending the product life of the three I-MILES product lines that are at the end of useful life.
- The LVC-IA program awarded its follow-on contract on 24 May 2022 to Dignitas Technologies, LLC. This follow-on award will continue their concurrency efforts with the Synthetic Training Environment (STE) and Mission Command Information Systems (MCIS) through program completion slated for FY 2035. FY 2024 Base RDTE will support the award option period 1 on the follow-on contract to continue concurrency effort with the STE and MCIS. FY 2025 Base RDTE will support the second year of option period 1 to continue integration and testing with STE and MCIS.
- Combat Training Center Instrumentation System (CTC-IS): 31 March 2023 award to General Dynamics to fund National Training Center Western Training Area Instrumentation Systems Network Expansion design effort.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
LVC-IA Test Support	Various	Multiple : Orlando, FL	13.935	0.372	Nov 2022	0.338	Nov 2023	0.393	Nov 2024	-		0.393	Continuing	Continuing	Continuing
I-MILES EPG Testing	MIPR	ATEC : FT Huachuca, AZ	0.324	-		0.097	Mar 2024	0.128	Mar 2025	-		0.128	Continuing	Continuing	Continuing
Subtotal			14.259	0.372		0.435		0.521		-		0.521	Continuing	Continuing	N/A

Remarks
NOTE: FY2024 Base RDTE for LVC-IA Test Support should reflect a cost of \$0.385 million; this will be updated in the next available cycle.

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	110.159	17.910	21.441	28.427	-	28.427	Continuing	Continuing	N/A

Remarks

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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
CTIA Development and Architectural Evolution																												
CTC IS Development																												
I-MILES Development																												
I-MILES RELEVANCY																												
HITS Development																												
MSTC Trainer Developments																												
LVC-IA - Version 4 (Development, Integration, Demonstrat...																												
LVC-IA Version 4.1 (Development, Integration, Demonstrat...																												
LVC-IA - Concurrency with STE, TADSS, and Mission Comman...																												
FASIT Battlefield Effects Device																												
FASIT Dynamic Infrared Projections																												
FASIT Non Pyro Effects																												
FASIT Non Contact Area Scoring Tech																												

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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				
FASIT Combat Identification									████████████████				████████████████				████████████████															
FASIT Advanced Human Type Target													████████████████				████████████████															
Unmanned Aerial Systems (UAS) Swarm Development									████████████████				████████████████				████████████████				████████████████											
BEMT Army Enterprise Network Server Development									████																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604715A / <i>Non-System Training Devices - Eng Dev</i>	Project (Number/Name) 241 / <i>Nstd Combined Arms</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
CTIA Development and Architectural Evolution	1	2012	4	2029
CTC IS Development	1	2010	4	2027
I-MILES Development	2	2017	3	2027
I-MILES RELEVANCY	2	2018	4	2027
HITS Development	3	2012	4	2024
MSTC Trainer Developments	2	2017	4	2024
LVC-IA - Version 3 (Development, Integration, Demonstration and Testing)	4	2016	3	2018
LVC-IA - Version 4 (Development, Integration, Demonstration and Testing)	4	2018	4	2023
LVC-IA Version 4.1 (Development, Integration, Demonstration and Testing)	1	2024	1	2025
LVC-IA - Concurrency with STE, TADSS, and Mission Command Systems	1	2024	4	2032
FASIT Battlefield Effects Device	2	2022	2	2023
FASIT Dynamic Infrared Projections	2	2022	2	2024
FASIT Non Pyro Effects	4	2021	4	2023
FASIT Non Contact Area Scoring Tech	4	2022	4	2024
FASIT Combat Identification	1	2025	4	2027
FASIT Advanced Human Type Target	2	2025	1	2027
Integrated Military Operations in Urban Terrain (MOUT) Training System (IMTS)	2	2020	4	2021
OPFOR Integrated Air Defense System (IADS)	4	2017	4	2022
Unmanned Aerial Systems (UAS) Swarm Development	1	2022	4	2026
OPFOR Surrogate Wheeled Vehicles (OSWV)	2	2019	4	2021
OPFOR Attack Aircraft Shoot-back Capability (OA2SBC)	2	2021	2	2022
S/SVT - Development	3	2019	3	2020

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army			Date: March 2024	
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Events	Start		End	
	Quarter	Year	Quarter	Year
BEMT Army Enterprise Network Server Development	1	2020	1	2023