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

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| Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i> | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</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 |
|---|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element | - | 219.284 | 244.047 | 201.274 | - | 201.274 | 113.834 | 99.260 | 76.806 | 77.647 | 0.000 | 1,032.152 |
| FI3: <i>Rapid Capability Development and Maturation</i> | - | 207.950 | 231.515 | 188.173 | - | 188.173 | 100.374 | 85.504 | 62.750 | 63.434 | 0.000 | 939.700 |
| FL7: <i>Rapid Capability Support</i> | - | 11.334 | 12.532 | 13.101 | - | 13.101 | 13.460 | 13.756 | 14.056 | 14.213 | 0.000 | 92.452 |

A. Mission Description and Budget Item Justification

A portion of this funding line has directly supported the Air & Missile Defense (AMD) Army Modernization Priority. Emerging Technology Initiatives funds prototyping and demonstration, fielding and sustainment of selected technology enabled capabilities to defeat emerging threats against ground, aviation, command, control, communications & reconnaissance systems and equipment, precision weapons, and Soldier equipment. Funding facilitates maturation and demonstration of emerging technologies and systems in relevant varied environments and tactical/operational scenarios. The primary goal is to deliver experimental prototypes for residual combat capability through a collaborative and accelerated acquisition process for transition to a Program of Record in an Army or DoD Program Management Office. Technologies will be demonstrated in operational environments, performing tactical/operational scenarios.

B. Program Change Summary (\$ in Millions)

| | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024 Base</u> | <u>FY 2024 OCO</u> | <u>FY 2024 Total</u> |
|-------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 226.802 | 185.311 | 75.157 | - | 75.157 |
| Current President's Budget | 219.284 | 244.047 | 201.274 | - | 201.274 |
| Total Adjustments | -7.518 | 58.736 | 126.117 | - | 126.117 |
| • Congressional General Reductions | - | - | - | - | - |
| • Congressional Directed Reductions | - | - | - | - | - |
| • Congressional Rescissions | - | - | - | - | - |
| • Congressional Adds | - | 59.000 | - | - | - |
| • Congressional Directed Transfers | - | - | - | - | - |
| • Reprogrammings | -7.518 | - | - | - | - |
| • SBIR/STTR Transfer | - | - | - | - | - |
| • Adjustments to Budget Years | - | - | 126.117 | - | 126.117 |
| • FFRDC Transfer | - | -0.264 | - | - | - |

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

Project: FI3: *Rapid Capability Development and Maturation*

Congressional Add: *Program Increase: Counter-Unmanned Aerial System Integration with Robotic Vehicles*

Congressional Add: *Program Increase: High Energy Laser Targeting System*

Congressional Add: *Program Increase: Autonomous Offensive Swarming*

| | FY 2022 | FY 2023 |
|--|---------|---------|
| Congressional Add: <i>Program Increase: Counter-Unmanned Aerial System Integration with Robotic Vehicles</i> | 5.000 | - |
| Congressional Add: <i>Program Increase: High Energy Laser Targeting System</i> | 5.000 | - |
| Congressional Add: <i>Program Increase: Autonomous Offensive Swarming</i> | - | 9.000 |

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| Congressional Add Details (\$ in Millions, and Includes General Reductions) | FY 2022 | FY 2023 |
|---|----------------|----------------|
| Congressional Add: <i>Program Increase: C-sUAS HEL Atmospheric Study and Prototype Sensors</i> | - | 15.000 |
| Congressional Add: <i>Program Increase: Palletized High Energy Laser</i> | - | 5.000 |
| Congressional Add: <i>Program Increase: Counter UAS Technologies</i> | - | 25.000 |
| Congressional Add: <i>Program Increase: Extended Shortwave Infrared Sensor for High Energy Lasers</i> | - | 5.000 |
| Congressional Add Subtotals for Project: FI3 | 10.000 | 59.000 |
| Congressional Add Totals for all Projects | 10.000 | 59.000 |

Change Summary Explanation

Funds provided to Operationalize Hybrid Electric Ground Vehicles increased Base funding in FY2024.

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| Exhibit R-2A, RDT&E Project Justification: PB 2024 Army | | | | | | | | | | Date: March 2023 | | |
| Appropriation/Budget Activity 2040 / 5 | | | | | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | | | | Project (Number/Name) F13 / <i>Rapid Capability Development and Maturation</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 |
| F13: <i>Rapid Capability Development and Maturation</i> | - | 207.950 | 231.515 | 188.173 | - | 188.173 | 100.374 | 85.504 | 62.750 | 63.434 | 0.000 | 939.700 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

A portion of this funding line has directly supported the Army Air and Missile Defense Modernization Priority.

This project funds high-priority, threat-based projects with the intent to deliver an operationally effective capability in the near- and mid-terms. Efforts will include accelerated materiel development and prototyping based on anticipated and emerging threats and opportunities. Efforts include development, acquisition, assessment, maturation, and transition of prototype technologies to acquisition programs. Efforts include Directed Energy; Long Range Precision Fires; Air and Missile Defense; Cyber; Artificial Intelligence; Signals Intelligence (SIGINT); Unmanned Aerial Systems (UAS) and Counter UAS (C-UAS); Communications; Survivability; Robotics; Advanced Ground and Aviation Systems; and other high priority emerging threats and opportunities. Funds may also allow for acceleration of critical capabilities to counter urgent and emerging threats for transition to programs of record. Funding may also be used to acquire specialized expertise to execute an initiative.

The Army Rapid Capabilities and Critical Technologies Office (RCCTO) expedites residual combat materiel capabilities to the Warfighter to provide critical capability in support of the Army modernization strategy and transitions the capability to an acquisition program for production and fielding as an enduring need. RCCTO assesses Commercial-Off-The-Shelf (COTS), Government Off-The-Shelf (GOTS), and Non-Developmental Item (NDI) (non-standard equipment) solutions for modification and/or integration to address changes in contested environments with materiel solutions for forces deployed globally. RCCTO engages with industry to identify innovative solutions to high priority problem sets and funds quick turn analysis, modeling and prototyping efforts through this project to demonstrate cross-cutting military utility.

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

| | FY 2022 | FY 2023 | FY 2024 |
|---|----------------|----------------|----------------|
| Title: Directed Energy Maneuver - Short Range Air Defense | 151.166 | 99.824 | - |
| Description: This effort matures, integrates, and demonstrates High Energy Laser technologies on Army Stryker vehicles to support Maneuver- Short Range Air Defense (M-SHORAD) requirements and reduce risk for M-SHORAD. The goal is to protect maneuvering forces from Rocket, Artillery, and Mortar (RAM) and Unmanned Aerial System (UAS) threats. | | | |
| FY 2023 Plans: Will provide Contractor Logistics Support (CLS) beginning in FY 2023 for the four DE M-SHORAD 50 KW class laser weapon systems delivered in FY 2023; execute contract for additional prototype vehicles for delivery in FY 2024. | | | |
| FY 2023 to FY 2024 Increase/Decrease Statement: | | | |

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| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) F13 / <i>Rapid Capability Development and Maturation</i> | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| Funding decrease reflects the start of the transition of Directed Energy Maneuver - Short Range Air Defense from RCCTO to PEO M&S as M-SHORAD Increment 2. | | | | |
| <p>Title: Critical Technologies Office (CTO)</p> <p>Description: Continues identification of emerging priority operational gaps that align to technologies that support Army Service Components (ASCs), and operational line units with prototype solutions identified through the planning and execution of Innovation Day events, Science and Technology (S&T) transition, and industry solutions. Conducts technical assessments of technologies, capabilities and potential solutions. Such areas include but not limited to Operational Artificial Intelligence (AI) systems, Advanced Sensing Systems, Decoy Capabilities, Extending Communications, Long Range Persistent Surveillance, Advanced Mobile Weapon Systems, and Modular Open System Architectures (MOSA). Develops the transition to bridge the valley of death to further mature and transition priority efforts, and other concepts, to capabilities for program offices.</p> <p>FY 2023 Plans: Continues identification of emerging priority operational gaps that align to technologies that support Army Service Components (ASCs), and operational line units with prototype solutions identified through Innovation Day events. Develop prototypes that bridge the valley of death to further mature and transition priority S&T efforts to capabilities for program offices.</p> <p>FY 2024 Plans: Continues identification of emerging priority operational gaps that align to technologies that support Army Service Components (ASCs), and operational line units with prototype solutions identified through Innovation Day events. Develop prototypes that bridge the valley of death to further mature and transition priority S&T efforts to capabilities for program offices.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increase due to changes in scope.</p> | | 4.817 | 3.790 | 5.000 |
| <p>Title: Wideband Selective Propagating Radar (WiSPR)</p> <p>Description: Prototyping effort to develop a "Low Observable" Radar (60 GHZ) to detect incoming anti-armor rounds and communicate among vehicles. This will be virtually undetectable RADAR and Communications enforced by physics (not assumptions of adversary capabilities) by providing a combined Low Probability to Detect/Low Probability to Intercept RADAR for Active Protection Systems and Communications for inter-vehicle.</p> <p>FY 2023 Plans:</p> | | 2.700 | 9.804 | 15.605 |

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| <p>This funding will enable: (1) Developmental testing and design refinement of a wideband selective propagation radar aperture for ground combat vehicles as defined by the unit of action; (2) Refinement of the technical data package and integration of the aperture onto the selected platform.</p> <p>FY 2024 Plans: Prototyping effort to develop a "Low Observable" Radar (60 GHZ) to detect incoming anti-armor rounds and communicate among vehicles. This will be virtually undetectable RADAR and Communications enforced by physics (not assumptions of adversary capabilities) by providing a combined Low Probability to Detect/Low Probability to Intercept RADAR for Active Protection Systems and Communications for inter-vehicle.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased from FY 2023 to FY 2024 due to focus on completing developmental testing of the system and associated refinement of the system design. The funding also will support finalization of the technical data package, platform integration design efforts, and delivery of the initial increment allotment of finalized prototypes that can support supplemental government testing/demonstration to support the planned transition to the assuming Program Office.</p> | | | | |
| <p>Title: Operationalizing Hybrid Electric - Ground Vehicles</p> <p>Description: Prototype representative vehicles, Armored Multi-Purpose Vehicle (AMPV), Stryker, Joint Light Tactical Vehicle (JLTV), and High Mobility Multi Purpose Wheeled Vehicle (HMMWV), from existing Army platforms by adding mature Hybrid Electric (HE) technologies. Included as a supporting task is to establish policies to increase resilience and reduce fuel requirements. It is anticipated that these investments will demonstrate increase operational value as well as a reduction in operational energy.</p> <p>FY 2023 Plans: Prototype of a Joint Light Tactical Vehicle (JLTV) and High Mobility Multi Purpose Wheeled Vehicle (HMMWV) that will validate hybrid electric technologies by Soldiers in extended operational environments.</p> <p>FY 2024 Plans: Prototype up to a platoon each of the Armored Multi-Purpose Vehicle (AMPV), Stryker, Joint Light Tactical Vehicle (JLTV), and High Mobility Multi Purpose Wheeled Vehicle (HMMWV) that will validate hybrid electric technologies by Soldiers in extended operational environments.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased from FY 2023 to FY 2024 due to RCCTO given the mission to increase development to platoon size prototypes. This will align the project with Army Green Strategy of fielding HE purpose built systems by 2035.</p> | | 5.988 | 10.350 | 124.600 |
| <p>Title: Offensive Swarm (HIVE)</p> | | 4.184 | 7.864 | 11.914 |

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| <p>Description: Prototyping effort to develop an offensive Unmanned Aerial Systems that will consist of a Control Node UAS, Attack UAS, and UAS intelligent swarming software framework and the ground station. The intelligent swarming software framework provides the logic to carry out the mission including cooperative engagement with the Unit of Action. The Ground Station provides the operator interface to the HIVE with minimal impact to cognitive workload and physical displacement of other resources.</p> <p>FY 2023 Plans: Rapid Acquisition Prototyping Project Office (RAPPO) - HIVE, This funding will enable: (1) integration of commercial off the shelf parts (2) Developmental testing and design refinement of a unmanned aerial systems and integrations of COTS parts for an offensive attack swarm.</p> <p>FY 2024 Plans: Rapid Acquisition Prototyping Project Office (RAPPO) - HIVE, This funding will enable: (1) integration of commercial off the shelf parts (2) Developmental testing and design refinement of a unmanned aerial systems and integrations of COTS parts for an offensive attack swarm. Additionally the funding will enable: (3) integration of commercial off the shelf (COTS) and Government off the shelf (GOTS) software/hardware, (4) Developmental testing and design refinement of a unmanned aerial systems and integrations of GOTS/COTS hardware/software for an offensive kinetic attack swarm that can operate within a GPS denied environment ; (5) Operational Assessments with unit of action.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase reflects a breakout of efforts previously captured under Concept Prototyping.</p> | | | | |
| <p>Title: Concept Prototyping</p> <p>Description: RCCTO hosts events where industry competes for innovative technology projects. Senior Leaders from across the Army, including Program Executive Officers (PEO's), Army Futures Command's Cross Functional Team (AFC CFT) Directors and Research and Development Center Directors, and other subject matter experts select the most impactful projects for the RCCTO Board of Directors approval.</p> <p>Concept Prototyping funds projects focused on but not limited to the following: artificial intelligence, machine learning, resilient and open standard communications, advanced network operation tools, counter unmanned aerial systems, unmanned aerial and terrestrial sensors, advanced ground vehicle enhancements, ground vehicle hybrid electrification, advanced energy efficient battery technologies, ruggedized and resilient power electronics, advanced low size, weight, and power (SWaP) energy generation and storage systems, advanced manned/unmanned aerial systems, advanced manned/unmanned ground systems, weapon system cyber resiliency, advanced defensive and offensive cyber, quantum computing, quantum sensing, assured position, navigation, and timing (APNT), security orchestration and automated response, multi-domain command and control (C2), electronic warfare, autonomy & robotics, soldier borne sensors and capabilities, edge processing technologies, information</p> | | 22.884 | 15.509 | 13.532 |

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| <p>processing, exploitation and dissemination (PED) tools, tactical data fabrics, resilient water support and safety monitoring capabilities, sensor to shooter capabilities and modeling and simulations in support of these domain areas.</p> <p>These efforts provide the Army initial operational capability for future integration into a program of record and include market research, technology analysis, project planning and development, prototyping and testing requirements.</p> <p>FY 2023 Plans: Prototype, demonstrate and evaluate capabilities.</p> <p>FY 2024 Plans: Prototype, demonstrate and evaluate capabilities.</p> <p>In FY24 RCCTO Concept Prototyping will continue to fund multiple year efforts through the Rapid Acquisition Prototyping Project Office (RAPPO), Advanced Concepts and Experimentation (ACE), Cyber, Electronic Warfare, and Information Dominance (CEID) and Critical Technologies Office (CTO) project offices.</p> <p>These efforts include a rugged, enclosed-rotor sUAS specifically designed to function within a complex hazard and obstacle-rich environment; hybrid data management architecture; a Low Probability of Intercept (LPI) / Low Probability of Detection (LPD) networked communication capability between vehicles fitted with a C4ISR/EW Modular Open Suite of Standards (CMOSS); third level of processing, exploitation, and dissemination (PED) tools; an extreme cold weather storage and distribution solution for both fresh and waste water; a novel modular ruggedized 15 kilowatt (kW) Bi-directional high-density inverter that will enable a Direct Current/Alternating Current (DC/AC) routing platform capable of both synching and sourcing power from established grids or supporting an off-grid mode for standalone applications.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease due to changes in scope.</p> | | | | |
| <p>Title: Organizational Expenses</p> <p>FY 2023 Plans: Includes support agreements with the Garrisons (Fort Belvoir and Redstone Arsenal) for base operational support; support at the Aberdeen Proving Ground; subject matter expertise in acquisition, program management and law; IT Network support; IT Software Licenses; computers/mobile devices (new and refresh); supplies; training; travel.</p> <p>FY 2024 Plans:</p> | | 6.211 | 19.077 | 17.522 |

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| Includes support agreements with the Garrisons (Fort Belvoir and Redstone Arsenal) for base operational support; Aberdeen Proving Ground; subject matter expertise in acquisition, program management and law; IT Network support; IT Software Licenses; computers/mobile devices (new and refresh); supplies; training; travel; etc. FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease reflects a movement of efforts to the Chief Technology Office (CTO). | | | | |
| Title: SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC §638 FY 2023 Plans: Funding transferred in accordance with Title 15 USC §638 FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC §638 | | - | 6.297 | - |
| Accomplishments/Planned Programs Subtotals | | 197.950 | 172.515 | 188.173 |
| | | FY 2022 | FY 2023 | |
| Congressional Add: Program Increase: Counter-Unmanned Aerial System Integration with Robotic Vehicles FY 2022 Accomplishments: Program increase supporting system development and demonstration of Counter-Unmanned Aerial Systems Integration with Robotic Vehicles. This work will demonstrate the integration of proven Commercial-Off-The-Shelf (COTS) technologies to provide a modular multi-mission capability to include surveillance (with small Unmanned Aerial Systems (sUAS) detection), Counter-sUAS (C-sUAS) electronic warfare & other hard kill capabilities including High Energy Laser (HEL). This effort provides a single integrated prototype system to be demonstrated in a operational environment. Work performed by the Rapid Capabilities and Critical Technologies Office (RCCTO), in Huntsville, Alabama. | | 5.000 | - | |
| Congressional Add: Program Increase: High Energy Laser Targeting System FY 2022 Accomplishments: Program increase supporting system development and demonstration of a high energy laser targeting system. | | 5.000 | - | |

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| | | FY 2022 | FY 2023 |
| Optical sensor advances can enable leap-ahead performance in High Energy Laser (HEL) targeting capabilities. This project will leverage advanced sensors and laser illuminators to demonstrate weapons targeting benefits with reduced size, weight, and power of the total optical system. It is also expected to demonstrate reduction in illuminator power requirements. Demonstrations will utilize the Outdoor Laser Test Facility at the University of Central Florida. Dual-use sensor capabilities will be demonstrated to support improvements of HEL weapons and conventional imaging/targeting optics. | | | |
| Work performed in Huntsville, Alabama by the Rapid Capabilities and Critical Technologies Office (RCCTO). | | | |
| Congressional Add: Program Increase: Autonomous Offensive Swarming FY 2023 Plans: Deliver an offensive small Unmanned Air Systems (sUAS) swarm capability that collaboratively identifies and engages threats with limited required input by one human operator. | | - | 9.000 |
| Congressional Add: Program Increase: C-sUAS HEL Atmospheric Study and Prototype Sensors FY 2023 Plans: This effort quantifies and characterizes the effectiveness of optical systems against Unmanned Air Systems (UAS) and cruise missile threats. It develops instrumentation and performs the necessary studies required to determine Counter- Unmanned Air Systems (C-UAS) parameters to ensure C-UAS systems deployed in the area of responsibility will be effective for countering aggressive threats. | | - | 15.000 |
| Congressional Add: Program Increase: Palletized High Energy Laser FY 2023 Plans: This effort will develop Army concepts for Directed Energy (DE) system sustainment in operational environments. Maintain and provide Field Service Representative (FSR) support for two Army DE systems during operational assessment. | | - | 5.000 |
| Congressional Add: Program Increase: Counter UAS Technologies FY 2023 Plans: This effort supports the delivery of two complete tactical power and thermal subsystems which includes a full set of spares and maintenance kits. Additional effort includes the design, test, and certification of battery modules under UN/DOT 38.3 Transportation Testing creating a standard module suitable for various future Army Directed Energy (DE) programs. | | - | 25.000 |
| Congressional Add: Program Increase: Extended Shortwave Infrared Sensor for High Energy Lasers FY 2023 Plans: This effort improves current Short-Wave Infrared (SWIR) cameras operating at < 1.7 microns. The extended SWIR (eSWIR) atmospheric band (2-2.4 microns) has less scattering, high atmospheric transmission, higher contrast and is less susceptible to turbulence. eSWIR provides better tracking and range. | | - | 5.000 |

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| | FY 2022 | FY 2023 |
| Effort will replace current SWIR sensors with eSWIR capability. This project advances eSWIR sensors to match developing Laser illuminators in the eSWIR band. | | |
| Congressional Adds Subtotals | 10.000 | 59.000 |

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

N/A

Remarks

D. Acquisition Strategy

The Army Rapid Capabilities and Critical Technologies Office (RCCTO) capitalizes on current and emerging technologies to provide near-term and mid-term solutions to address emerging threats and high impact capability opportunities for U.S. Army Forces deployed globally. This is accomplished in one of two ways: 1) adapting COTS/GOTS/NDI equipment to meet operational needs and 2) developing emerging deployable capability through research and development organizations, academia, and industry. RCCTO uses streamlined acquisition methods, processes and techniques to rapidly acquire the capability; these methods vary by project. RCCTO has procurement authority and an in-house contracting staff, with the flexibility to use both traditional and non-traditional contracting approaches. To reach non-traditional vendors, RCCTO will use non-standard contracting methods, such as Other Transaction Authority agreements. Where practicable, prototypes will be acquired using competitive procedures. Soldier touchpoints will be conducted to provide feedback in support of Army requirements generation, prototype maturation, fielding residual combat capability to a unit of action, and future capability development. When designated by the RCCTO Board of Directors, projects will be transitioned to an approved acquisition program for production and fielding.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

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| Management Services (\$ in Millions) | | | | FY 2022 | | FY 2023 | | FY 2024 Base | | FY 2024 OCO | | FY 2024 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 | | | |
| DE M-SHORAD Matrix, Contractor Labor | Various | RCCTO : Huntsville, AL | - | 15.116 | | 1.994 | | - | | - | | - | Continuing | Continuing | Continuing |
| DE M-SHORAD Facilities, IT/Supplies, Travel, Training | Various | RCCTO/DEOP : Huntsville, AL | - | - | | 0.050 | Dec 2022 | - | | - | | - | 0.000 | 0.050 | - |
| Program Increase Contractor Labor | MIPR | RCCTO : Huntsville, AL | - | 1.000 | | - | | - | | - | | - | 0.000 | 1.000 | - |
| WiSPR | TBD | Various : Various | - | - | | - | | 0.050 | | - | | 0.050 | 0.000 | 0.050 | - |
| Climate Ground Vehicles & Fuels | Various | Various : TBD | - | 0.145 | | 0.250 | | 3.015 | | - | | 3.015 | 0.000 | 3.410 | - |
| Offensive Swarm (HIVE) | Various | Various : TBD | - | 0.273 | | 0.596 | | 0.778 | | - | | 0.778 | 0.000 | 1.647 | - |
| Concept Prototyping | Various | Various : Various | - | 4.297 | | 3.311 | | 1.905 | | - | | 1.905 | 0.000 | 9.513 | - |
| Matrix, Contractor Labor | Various | Various : Various | 34.274 | 4.355 | | 12.227 | | 12.090 | | - | | 12.090 | 0.000 | 62.946 | - |
| Facilities, IT/Supplies, Travel, Training | Various | Various : Various | 10.001 | 1.856 | | 6.850 | | 5.432 | | - | | 5.432 | 0.000 | 24.139 | - |
| Program Increase: Autonomous Offensive Swarming | MIPR | Various : Various | - | - | | 0.450 | | - | | - | | - | 0.000 | 0.450 | - |
| SBIR/STTR Transfer | TBD | various : various | - | - | | 6.297 | | - | | - | | - | 0.000 | 6.297 | - |
| Program Increase: C-sUAS HEL atmospheric study and prototype sensors Program Management | MIPR | RCCTO : Huntsville, AL | - | - | | 1.125 | May 2023 | - | | - | | - | 0.000 | 1.125 | - |
| Program Increase: palletized high energy laser Program Management | MIPR | RCCTO : Huntsville, AL | - | - | | 0.250 | May 2023 | - | | - | | - | 0.000 | 0.250 | - |
| Program Increase: Counter UAS technologies Program Management | MIPR | RCCTO : Huntsville, AL | - | - | | 1.675 | May 2023 | - | | - | | - | 0.000 | 1.675 | - |
| Program Increase: extended shortwave | MIPR | RCCTO : Huntsville, AL | - | - | | 0.500 | May 2023 | - | | - | | - | 0.000 | 0.500 | - |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

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| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) F13 / <i>Rapid Capability Development and Maturation</i> |
|--|--|--|

| Management Services (\$ in Millions) | | | | FY 2022 | | FY 2023 | | FY 2024 Base | | FY 2024 OCO | | FY 2024 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 | | | |
| infrared sensors for high energy lasers Program Management | | | | | | | | | | | | | | | |
| Subtotal | | | 44.275 | 27.042 | | 35.575 | | 23.270 | | - | | 23.270 | Continuing | Continuing | N/A |

| Product Development (\$ in Millions) | | | | FY 2022 | | FY 2023 | | FY 2024 Base | | FY 2024 OCO | | FY 2024 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 | | | |
| DE M-SHORAD CLS, Procurement & Integration | C/CPFF | TBD : Huntsville, AL | - | 108.650 | | 95.280 | Apr 2023 | - | | - | | - | Continuing | Continuing | Continuing |
| DE M-SHORAD Software Support | MIPR | Various : TBD | - | - | | 0.500 | May 2023 | - | | - | | - | 0.000 | 0.500 | - |
| Program Increase: Counter-Unmanned Aerial System Integration with Robotic Vehicles | TBD | SAIC/Liteye CPFF (Completion) : Boulder, CO | - | 4.500 | | - | | - | | - | | - | 0.000 | 4.500 | - |
| Program Increase: High Energy Laser Targeting System | TBD | UCF University of Central Florida/FFP : Orlando, FL | - | 4.500 | | - | | - | | - | | - | 0.000 | 4.500 | - |
| WiSPR | TBD | MIT Lincoln Laboratory : Lexington, MA | - | 2.700 | | 8.554 | | 14.555 | | - | | 14.555 | 0.000 | 25.809 | - |
| Climate Ground Vehicles & Fuels | Various | Various : TBD | - | 4.288 | | 7.412 | | 89.234 | | - | | 89.234 | 0.000 | 100.934 | - |
| Offensive Swarm (HIVE) | Various | Various : TBD | - | 3.911 | | 6.818 | | 11.136 | | - | | 11.136 | 0.000 | 21.865 | - |
| Concept Prototyping | Various | TBD : Various | 232.566 | 7.400 | | 5.293 | | 9.467 | | - | | 9.467 | 6.500 | 261.226 | - |
| Program Increase: Autonomous Offensive Swarming | TBD | TBD : TBD | - | - | | 6.550 | | - | | - | | - | 0.000 | 6.550 | - |
| Program Increase: C-UAS HEL atmospheric | TBD | TBD : TBD | - | - | | 13.875 | May 2023 | - | | - | | - | 0.000 | 13.875 | - |

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

| | | |
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| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) F13 / <i>Rapid Capability Development and Maturation</i> |
|--|--|--|

| Product Development (\$ in Millions) | | | | FY 2022 | | FY 2023 | | FY 2024 Base | | FY 2024 OCO | | FY 2024 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 | | | |
| study and prototype sensors | | | | | | | | | | | | | | | |
| Program Increase: palletized high energy laser | C/CPFF | SAIC, Inc : Huntsville, AL | - | - | | 4.750 | May 2023 | - | | - | | - | 0.000 | 4.750 | - |
| Program Increase: Counter UAS technologies | C/CPFF | TBD : Boulder, NV & Huntsville, AL | - | - | | 23.325 | May 2023 | - | | - | | - | 0.000 | 23.325 | - |
| Program Increase: extended shortwave infrared sensors for high energy lasers | MIPR | EPIR : Bolingbrook, IL | - | - | | 4.500 | May 2023 | - | | - | | - | 0.000 | 4.500 | - |
| Subtotal | | | 232.566 | 135.949 | | 176.857 | | 124.392 | | - | | 124.392 | Continuing | Continuing | N/A |

| Support (\$ in Millions) | | | | FY 2022 | | FY 2023 | | FY 2024 Base | | FY 2024 OCO | | FY 2024 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 | | | |
| Critical Technology Office (CTO) | Various | Various : TBD | 5.000 | 4.817 | | 3.790 | | 5.000 | | - | | 5.000 | 0.000 | 18.607 | - |
| WiSPR | TBD | MIT Lincoln Laboratory : Lexington, MA | - | - | | 0.500 | | 0.500 | | - | | 0.500 | 0.000 | 1.000 | - |
| Climate Ground Vehicles & Fuels | Various | Various : Various | - | 1.497 | | 2.588 | | 31.151 | | - | | 31.151 | 0.000 | 35.236 | - |
| Offensive Swarm (HIVE) | Various | Various : TBD | - | - | | 0.050 | | - | | - | | - | 0.000 | 0.050 | - |
| Concept Prototyping | TBD | TBD : Various | 16.841 | 6.606 | | 4.264 | | 0.254 | | - | | 0.254 | 0.000 | 27.965 | - |
| Subtotal | | | 21.841 | 12.920 | | 11.192 | | 36.905 | | - | | 36.905 | 0.000 | 82.858 | N/A |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army | | Date: March 2023 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) F13 / <i>Rapid Capability Development and Maturation</i> |

| Event Name | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | FY 2026 | | | | FY 2027 | | | | FY 2028 | | | |
|---|------------|---|---|---|------------|---|---|---|------------|------------|---|---|------------|---|---|---|------------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| DE M-SHORAD 3x Prototype System Production | ██████████ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DE M-SHORAD 4x Prototype Delivery (Additional Prototypes) | | | | | ▲ 1 | | | | | | | | | | | | | | | | | | | | | | | |
| DE M-SHORAD Additional Prototype System Production | | | | | ██████████ | | | | | | | | | | | | | | | | | | | | | | | |
| DE M-SHORAD Additional Prototype Delivery | | | | | | | | | ▲ 4 | | | | | | | | | | | | | | | | | | | |
| DE M-SHORAD Contractor Logistics Support | | | | | ██████████ | | | | | | | | | | | | | | | | | | | | | | | |
| Climate Ground Vehicle & Fuels | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JLTV, AMPV and Stryker | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JLTV Build / Test | | | | | | | | | ▲ 2 | ██████████ | | | | | | | | | | | | | | | | | | |
| JLTV Delivered | | | | | | | | | | | | | ▲ 5 | | | | | | | | | | | | | | | |
| JLTV Operational Testing | | | | | | | | | | | | | ██████████ | | | | | | | | | | | | | | | |
| AMPV Build / Test | | | | | | | | | ██████████ | | | | ██████████ | | | | | | | | | | | | | | | |
| AMPV Delivered | | | | | | | | | | | | | | | | | ▲ 7 | | | | | | | | | | | |
| AMPV Operational Testing | | | | | | | | | | | | | | | | | ██████████ | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army | | | Date: March 2023 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) F13 / <i>Rapid Capability Development and Maturation</i> | |

| Event Name | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | FY 2026 | | | | FY 2027 | | | | FY 2028 | | | |
|-----------------------------|---------|---|---|---|---------|---|---|---|----------------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Stryker Build / Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stryker Delivered | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | |
| Stryker Operational Testing | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HMMWV | | | | | | | | | 3 OTA Award | | | | | | | | | | | | | | | | | | | |
| HMMWV Build / Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HMMWV Delivered | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | |
| HMMWV Operational Testing | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army | | Date: March 2023 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) F13 / <i>Rapid Capability Development and Maturation</i> |

Schedule Details

| Events | Start | | End | |
|---|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| DE M-SHORAD 3x Prototype System Production | 1 | 2021 | 2 | 2023 |
| DE M-SHORAD Combat Shoot Off | 3 | 2021 | 3 | 2021 |
| DE M-SHORAD 4x Prototype Delivery (Additional Prototypes) | 2 | 2023 | 2 | 2023 |
| DE M-SHORAD Additional Prototype System Production | 3 | 2023 | 4 | 2024 |
| DE M-SHORAD Additional Prototype Delivery | 4 | 2024 | 4 | 2024 |
| DE M-SHORAD Contractor Logistics Support | 3 | 2023 | 1 | 2024 |
| Climate Ground Vehicle & Fuels | 1 | 2024 | 4 | 2026 |
| JLTV, AMPV and Stryker | 1 | 2024 | 1 | 2024 |
| JLTV Build / Test | 1 | 2024 | 2 | 2025 |
| JLTV Delivered | 2 | 2025 | 2 | 2025 |
| JLTV Operational Testing | 2 | 2025 | 2 | 2026 |
| AMPV Build / Test | 1 | 2024 | 2 | 2026 |
| AMPV Delivered | 2 | 2026 | 2 | 2026 |
| AMPV Operational Testing | 2 | 2026 | 2 | 2027 |
| Stryker Build / Test | 1 | 2024 | 2 | 2026 |
| Stryker Delivered | 2 | 2026 | 2 | 2026 |
| Stryker Operational Testing | 2 | 2026 | 2 | 2027 |
| HMMWV | 2 | 2024 | 2 | 2024 |
| HMMWV Build / Test | 2 | 2024 | 3 | 2025 |
| HMMWV Delivered | 3 | 2025 | 3 | 2025 |
| HMMWV Operational Testing | 4 | 2025 | 4 | 2026 |

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|--|--------------------|----------------|----------------|---------------------|--|----------------------|----------------|----------------|---|-------------------------|-------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2024 Army | | | | | | | | | | Date: March 2023 | | |
| Appropriation/Budget Activity 2040 / 5 | | | | | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | | | | Project (Number/Name) FL7 / <i>Rapid Capability Support</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 |
| FL7: <i>Rapid Capability Support</i> | - | 11.334 | 12.532 | 13.101 | - | 13.101 | 13.460 | 13.756 | 14.056 | 14.213 | 0.000 | 92.452 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

This project funds rapid prototyping and delivery of residual combat capability to enable the Army Modernization Priorities and the National Defense Strategy. These efforts include long range precision fires, air and missile defense, ground, aviation, Soldier, cyber, and command, control, communications, computers, intelligence, surveillance & reconnaissance (C4ISR) missions. The primary goal is to deliver experimental prototypes to a unit of action through a collaborative and accelerated acquisition process. Technologies will be demonstrated in relevant environments, performing tactical/operational scenarios. Efforts will focus on high-priority, threat-based projects with the intent to deliver an operationally effective capability in the near- and mid-terms. Efforts will include accelerated materiel development and competitive prototyping based on anticipated and emerging threats and opportunities. This Project provides the Army an improved mechanism to effectively confront emerging threats and advance America's military dominance in accordance with the National Defense Strategy. Efforts include development, acquisition, assessment, maturation, and transition of prototype technologies to acquisition programs in Directed Energy; Long Range Precision Fires; Air and Missile Defense; Cyber; Artificial Intelligence; Signals Intelligence (SIGINT); Unmanned Aerial Systems (UAS) and Counter UAS (C-UAS); Communications; Survivability; and other high priority emerging threats and opportunities as designated by the RCCTO Board of Directors. Funds may also allow for acceleration of critical Program of Record capabilities to counter urgent and emerging threats. Funding may also be used to acquire specialized expertise to execute an initiative.

The Army RCCTO expedites the fielding of critical combat materiel capabilities to the Warfighter to meet urgent needs and support the Army modernization strategy. RCCTO assesses Commercial-Off-The Shelf (COTS), Government Off-The- Shelf (GOTS), and Non-Developmental Item (NDI) (non-standard equipment) solutions for modification and/or integration to address changes in contested environments with enduring materiel solutions for forces deployed globally. RCCTO integrates prototypes and evaluates solutions to field residual combat capability to a unit of action and transition the capability to an acquisition program for production and sustainment.

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

| | FY 2022 | FY 2023 | FY 2024 |
|---|----------------|----------------|----------------|
| Title: Core Labor | 11.334 | 12.532 | 13.101 |
| Description: Funding is requested for Core Labor. | | | |
| FY 2023 Plans: These funds are used for Core Labor in support of rapid prototyping and delivery of residual combat capability to enable long range precision fires, air and missile defense, ground, aviation, Soldier, cyber and C4ISR missions. | | | |
| FY 2024 Plans: | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2024 Army | | Date: March 2023 | | |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) FL7 / <i>Rapid Capability Support</i> | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2022 | FY 2023 | FY 2024 |
| These funds will be used for Core Labor in support of rapid prototyping and delivery of residual combat capability to enable long range precision fires, air and missile defense, ground, aviation, Soldier, cyber and C4ISR missions. | | | | |
| FY 2023 to FY 2024 Increase/Decrease Statement: Increase due to adjustments in wages. | | | | |
| Accomplishments/Planned Programs Subtotals | | 11.334 | 12.532 | 13.101 |
| C. Other Program Funding Summary (\$ in Millions) N/A | | | | |
| Remarks | | | | |
| D. Acquisition Strategy N/A | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army | | | Date: March 2023 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) FL7 / <i>Rapid Capability Support</i> | |

| Event Name | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | FY 2026 | | | | FY 2027 | | | | FY 2028 | | | |
|------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Core Labor | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army | | Date: March 2023 |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605054A / <i>Emerging Technology Initiatives</i> | Project (Number/Name) FL7 / <i>Rapid Capability Support</i> |

Schedule Details

| Events | Start | | End | |
|------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Core Labor | 1 | 2022 | 4 | 2028 |