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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Army **Date:** April 2022

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>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	294.366	226.802	185.311	-	185.311	75.157	74.875	74.957	75.973	0.000	1,007.441
FI3: <i>Rapid Capability Development and Maturation</i>	-	283.811	215.468	172.779	-	172.779	62.297	61.746	61.551	62.287	0.000	919.939
FL7: <i>Rapid Capability Support</i>	-	10.555	11.334	12.532	-	12.532	12.860	13.129	13.406	13.686	0.000	87.502

A. Mission Description and Budget Item Justification

A portion of this funding line is directly aligned to the Air & Missile Defense (AMD) Army Modernization Priority. Emerging Technology Initiatives funds prototyping and demonstration 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. This Program Element also funds civilian personnel in support of these projects.

B. Program Change Summary (\$ in Millions)

	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>
Previous President's Budget	294.366	254.945	0.000	-	0.000
Current President's Budget	294.366	226.802	185.311	-	185.311
Total Adjustments	0.000	-28.143	185.311	-	185.311
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-37.642	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	10.000	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-	-	-	-	-
• SBIR/STTR Transfer	-	-	-	-	-
• Adjustments to Budget Years	-	-	185.311	-	185.311
• FFRDC Transfer	-	-0.501	-	-	-

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

Project: FI3: *Rapid Capability Development and Maturation*

Congressional Add: *Program increase - Counter-Unmanned Aerial Systems directed energy prototype*

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

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

	FY 2021	FY 2022
	10.000	-
	-	5.000
	-	5.000

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

	FY 2021	FY 2022
Congressional Add Subtotals for Project: FI3	10.000	10.000
Congressional Add Totals for all Projects	10.000	10.000

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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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>			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
F13: <i>Rapid Capability Development and Maturation</i>	-	283.811	215.468	172.779	-	172.779	62.297	61.746	61.551	62.287	0.000	919.939
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to 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. The 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. The 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 2021	FY 2022	FY 2023
Title: Maturation, Prototyping, Assessment, and Integration of Emerging and Essential Technologies	273.811	-	-
Description: This effort selects technologies that show high promise for advancing and accelerating capabilities required under acquisition programs and develops and evaluates associated prototypes and architectures for accelerated identification, assessment, and transition to an acquisition program for production and fielding. It also demonstrates integrated technologies within a high fidelity and realistic operating environment and transitions them to a formal program of record on an accelerated timeline.			
Title: Directed Energy Maneuver - Short Range Air Defense	-	151.166	103.870

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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 2021	FY 2022	FY 2023
<p>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.</p> <p>FY 2022 Plans: Will complete procurement and integration of system hardware, weapon fire control software, and Forward Area Air Defense Command and Control (FAADC2) for three additional DE M-SHORAD 50 kW laser weapon systems; conduct full system verification and acceptance testing for three additional DE M-SHORAD 50 kW laser weapon systems; prepare for and execute the delivery of four total DE M-SHORAD 50 kW laser weapon system platforms with residual combat capability to an Army Battery Level unit supporting the Brigade Combat Team Air Defense Artillery (BCT ADA) Operations.</p> <p>FY 2023 Plans: Will provide Contractor Logistics Support (CLS) beginning in FY 2023 for the four DE M-SHORAD 50 KW class laser weapon system delivered in FY 2022; execute contract for integration of additional prototype vehicles for delivery in FY 2023.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding decreased from FY 2022 to FY 2023 due to focus on CLS for the four DE M-SHORAD systems delivered in FY 2022 and integration of prototypes for delivery in FY 2023.</p>				
<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, communicate among vehicles, and provide an effect (high power microwave). 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 2022 Plans: This funding will enable: (1) manufacturing of a wideband selective propagation radar aperture for ground combat vehicles as defined by the unit of action; (2) integration of the aperture into the selected platform.</p> <p>FY 2023 Plans: 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 2022 to FY 2023 Increase/Decrease Statement:</p>		-	2.601	14.239

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
Funding increased from FY 2022 to FY 2023 due to focus on completing developmental testing of the system and associated refinement of the system design. The funding will also 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>Title: Concept Prototyping</p> <p>Description: This effort funds innovative technology across the RCCTO portfolio. RCCTO hosts semi-annual industry days where industry competes to propose the most innovative projects to leaders across the Army, including the Program Executive Officers, Army Futures Command's Cross Functional Team Directors and Research and Development Center Directors, and other subject matter experts. This panel selects the most impactful projects to be prioritized for the RCCTO Board of Directors will provide directed efforts. Efforts are initiated by Army stakeholders to fill critical capability gaps in the areas of 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 processing, exploitation and dissemination (PED) tools, resilient water support and safety monitoring capabilities, sensor to shooter capabilities and modeling and simulations in support of these domain areas. 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 2022 Plans: Prototype, demonstrate and evaluate capabilities. Funds will support BoD Directed electrification efforts for unmanned aerial swarming platforms (HIVE) automated cyber access and exploitation capabilities, and the hybridization of tactical vehicles Hybrid Electric Tactical Vehicle (HMMWV) and Joint Light Tactical Hybrid Electric Vehicle (JLTV). Additionally these funds will support the contract award of Innovation Day/AStRA 4 events. AStRA 4 is based on critical gaps identified in partnership with PEO Command, Control, Communications-Tactical (C3T) and PEO Combat Support & Combat Service Support (CS&CSS) and their respective operational requirements owners in support of multi-domain operations (MDO). AStRA provides an opportunity to transition innovative technology solutions and rapid prototypes from traditional and non-traditional (e.g. small business, academia, etc) vendors that meet critical gaps identified in coordination with the partner PEOs and Operational Requirements Owners (e.g. CFT, CDID, ISR Task Force, etc). AStRA 4 problem statements were focused on the rapid prototyping of capabilities aligned to the following 8 problem statements from PEO C3T (1. Vehicle Transmission Compatibility with C4ISR/EW Modular Open Suite of</p>		-	24.088	32.576

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
Standards (CMOSS); 2. Prioritizing User Experience ? An Integrated Tactical Network; 3. The Data Fabric Layer; 4. Handheld Radio Batteries) and PEO CS&CSS (5. Extreme Artic Environment Shelter and Life Support Technologies; 6. Water Monitoring; 7. Power Electronics for Military Environment; 8. Small Engine Technology). FY 2023 Plans: Prototype, demonstrate and evaluate capabilities. FY 2022 to FY 2023 Increase/Decrease Statement: Funding increased from FY 2022 to FY 2023 due to funding increment needed for AStRA 4 contract awards and resources required for RCCTO BoD directed efforts such as the HIVE, hybrid electric HMMWV, cyber access solutions and hybrid electric JLTV. The remaining funding will be used to execute Innovation Day / AStRA 5 and other BoD Directed efforts. Based on previous years this funding will support execution of 6-8 projects depending on the technical complexity and schedule.				
Title: Organizational Expenses FY 2022 Plans: Includes support agreements with the Garrisons (Fort Belvoir and Redstone Arsenal) for base operational support; subject matter expertise in acquisition, program management and law; IT Network support; IT Software Licenses; computers/mobile devices (new and refresh); supplies; training; travel. FY 2023 Plans: Includes support agreements with the Garrisons (Fort Belvoir and Redstone Arsenal) for base operational support; subject matter expertise in acquisition, program management and law; IT Network support; IT Software Licenses; computers/mobile devices (new and refresh); supplies; training; travel. FY 2022 to FY 2023 Increase/Decrease Statement: Funding increase due to inflation adjustments.		-	20.095	22.094
Title: SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638 FY 2022 Plans: Funding transferred in accordance with Title 15 USC ?638 FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638		-	7.518	-
Accomplishments/Planned Programs Subtotals		273.811	205.468	172.779

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		FY 2021	FY 2022
<p>Congressional Add: Program increase - Counter-Unmanned Aerial Systems directed energy prototype</p> <p>FY 2021 Accomplishments: Program increase supporting system development and demonstration on Counter-Unmanned Aerial Systems Directed Energy Prototype.</p> <p>The Counter-Unmanned Aerial Systems Directed Energy Prototype effort supports the development and testing of a high-efficiency fiber laser paired with advanced thermal and power management technology to achieve high-duty cycles and magazine depths, which is the basis of defeating multiple drones and drone swarms.</p> <p>This effort builds upon the ongoing Army initiated successful development of a Stryker based fiber laser systems, such as Directed Energy Maneuver-Short Range Air Defense (DE M-SHORAD) that continues to meet technical performance requirements needed for the development of a light tactical vehicle based Counter-Unmanned Aerial Systems (C-UAS) system.</p> <p>Work performed by the Rapid Capabilities and Critical Technologies Office (RCCTO), in Huntsville, Alabama.</p>		10.000	-
<p>Congressional Add: Program Increase: Counter-Unmanned Aerial System Integration with Robotic Vehicles</p> <p>FY 2022 Plans: Program increase supporting system development and demonstration of Counter-Unmanned Aerial Systems Integration with Robotic Vehicles.</p> <p>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.</p> <p>Work performed by the Rapid Capabilities and Critical Technologies Office (RCCTO), in Huntsville, Alabama.</p>		-	5.000
<p>Congressional Add: Program Increase: High Energy Laser Targeting System</p> <p>FY 2022 Plans: Program increase supporting system development and demonstration of a high energy laser targeting system.</p> <p>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</p>		-	5.000

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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.	FY 2021	FY 2022
Work performed by the Rapid Capabilities and Critical Technologies Office (RCCTO), in Huntsville, Alabama and Orlando, Florida.		
Congressional Adds Subtotals	10.000	10.000

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

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OMA - 432612: <i>Logistic Automation Systems Sustainment</i>	-	-	-	-	-	-	-	-	-	-	
• OMA - 435212: <i>Other Service Support</i>	-	-	-	-	-	-	-	-	-	-	

Remarks

Transfers funding from SAG 432612 Service Wide Communications and SAG 435212 Other Service Support, to RDTE, BA 5, to align resources for the Office of Chief Systems Engineer to the RDT&E appropriation.

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. The RCCTO uses streamlined acquisition methods, processes and techniques to rapidly acquire the capability; these methods vary by project. The 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 2023 Army												Date: April 2022			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
2040 / 5				PE 0605054A / Emerging Technology Initiatives					F13 / Rapid Capability Development and Maturation						
Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Matrix, Contractor Labor	Various	TBD : Various	6.999	27.275		13.865		15.244		-		15.244	0.000	63.383	-
Facilities, IT/Supplies, Travel, Training	Various	TBD : Various	4.991	5.010		6.230		6.850		-		6.850	0.000	23.081	-
DE M-SHORAD Matrix, Contractor Labor	MIPR	RCCTO : Huntsville, AL	-	-		15.116		9.572		-		9.572	Continuing	Continuing	Continuing
FY2022 SBIR / STTR Transfer	TBD	various : various	-	-		7.518		-		-		-	Continuing	Continuing	-
Program Increase Contractor Labor	MIPR	RCCTO : Huntsville, AL	-	-		1.000		-		-		-	0.000	1.000	-
Subtotal			11.990	32.285		43.729		31.666		-		31.666	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Emerging Technologies Development	Various	TBD : Various	32.036	205.530		13.642		23.929		-		23.929	0.000	275.137	-
DE M-SHORAD CLS, Procurement & Integration	C/Various	Kord Technologies : Huntsville, AL	-	-		108.650		94.298	Nov 2022	-		94.298	Continuing	Continuing	Continuing
Program Increase: Counter-Unmanned Aerial System Integration with Robotic Vehicles	TBD	TBD : Boulder, CO	-	-		4.500		-		-		-	0.000	4.500	-
Program Increase: High Energy Laser Targeting System	TBD	TBD : Orlando, FL	-	-		4.500		-		-		-	0.000	4.500	-
Subtotal			32.036	205.530		131.292		118.227		-		118.227	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army		Date: April 2022
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Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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 Combat Shoot Off	▲ 1																											
DE M-SHORAD 4x Prototype Delivery (Vehicles 1-4)					▲ 2																							
DE M-SHORAD 2x Prototype System Production (Vehicle 5-6)																												
DE M-SHORAD 2x Prototype Delivery (Vehicles 5-6)									▲ 3																			
DE M-SHORAD 2x Prototype System Production (Vehicles 7-8)																												
DE M-SHORAD 2x Prototype Delivery (Vehicles 7-8)													▲ 4															
DE M-SHORAD Contractor Logistics Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army		Date: April 2022
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DE M-SHORAD 3x Prototype System Production	1	2021	4	2022
DE M-SHORAD Combat Shoot Off	3	2021	3	2021
DE M-SHORAD 4x Prototype Delivery (Vehicles 1-4)	4	2022	4	2022
DE M-SHORAD 2x Prototype System Production (Vehicle 5-6)	1	2022	4	2023
DE M-SHORAD 2x Prototype Delivery (Vehicles 5-6)	4	2023	4	2023
DE M-SHORAD 2x Prototype System Production (Vehicles 7-8)	1	2023	4	2024
DE M-SHORAD 2x Prototype Delivery (Vehicles 7-8)	4	2024	4	2024
DE M-SHORAD Contractor Logistics Support	1	2023	4	2025

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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
<i>FL7: Rapid Capability Support</i>	-	10.555	11.334	12.532	-	12.532	12.860	13.129	13.406	13.686	0.000	87.502
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

RCCTO Core Labor funding transitioned from PE 0604798A.

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. The 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. The RCCTO procures 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 2021	FY 2022	FY 2023
Title: Core Labor	10.555	11.334	12.532
Description: Funding will be for Core Labor.			
FY 2022 Plans: These funds will be used for Core Labor in support of rapid prototyping and delivery of residual combat capability to enable long			

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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) FL7 / <i>Rapid Capability Support</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
range precision fires, air and missile defense, ground, aviation, Soldier, cyber and C4ISR missions. FY 2023 Plans: 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 2022 to FY 2023 Increase/Decrease Statement: Increase due to adjustments in wages.				
Accomplishments/Planned Programs Subtotals		10.555	11.334	12.532
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 2023 Army			Date: April 2022		
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 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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 2023 Army		Date: April 2022
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	2021	4	2027