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**Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	56.800	84.510	96.589	-	96.589	-	-	-	-	-	-
EU9: <i>Army Science Board</i>	-	2.158	2.166	2.220	-	2.220	-	-	-	-	-	-
M02: <i>Med Cmd Spt (Non-AMHA)</i>	-	23.931	20.431	23.406	-	23.406	-	-	-	-	-	-
M15: <i>ARI Mgmt/ADM Act</i>	-	1.486	1.584	5.769	-	5.769	-	-	-	-	-	-
M16: <i>Standardization Groups</i>	-	4.214	4.264	4.219	-	4.219	-	-	-	-	-	-
M23: <i>US Army Corps of Engineers Base Operations</i>	-	-	31.525	35.308	-	35.308	-	-	-	-	-	-
M42: <i>ARDEC Cmd/Ctr Support</i>	-	7.114	7.270	7.379	-	7.379	-	-	-	-	-	-
M44: <i>CECOM Cmd/Ctr Spt</i>	-	3.662	3.902	3.933	-	3.933	-	-	-	-	-	-
M46: <i>AMCOM Cmd/Ctr Spt</i>	-	3.448	3.432	3.490	-	3.490	-	-	-	-	-	-
M47: <i>TACOM Cmd/Ctr Spt</i>	-	3.480	2.954	3.759	-	3.759	-	-	-	-	-	-
M55: <i>Edgewood Chemical Biological Center</i>	-	2.958	2.611	2.664	-	2.664	-	-	-	-	-	-
M58: <i>SECOM CMD/CTR Spt</i>	-	2.253	2.232	2.250	-	2.250	-	-	-	-	-	-
M76: <i>Armament Group Support</i>	-	2.096	2.139	2.192	-	2.192	-	-	-	-	-	-

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

This Program Element (PE) supports the non-Army Management Headquarters Activity (non-AMHA) Research, Development, Test, and Evaluation (RDTE) functions incident to the local operation and management of United States (U.S.) Army Combat Capabilities Development Command (CCDC) Centers, not identifiable with specific research and development projects. This PE also supports the management and operation of multiple, globally-located CCDC International Technology Centers (ITCs). The ITCs play an integral role in the U.S. Army efforts for international cooperative research, development and interoperability, and fulfill international memoranda of understanding requirements.

Programwide activities also include: Army Science Board studies; non-AMHA Medical Command support at the U.S. Army Medical Research and Development Command (USAMRDC); non-AMHA management and administrative functions at the U.S. Army Research Institute (ARI); and travel and administrative support to the North Atlantic Treaty Organization (NATO) Army Armaments Group (NAAG).

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification: PB 2022 Army</b>	<b>Date: May 2021</b>
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<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	58.175	87.472	91.558	-	91.558
Current President's Budget	56.800	84.510	96.589	-	96.589
Total Adjustments	-1.375	-2.962	5.031	-	5.031
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-1.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.375	-1.462			
• Adjustments to Budget Years	-	-	5.031	-	5.031

**Change Summary Explanation**

In Fiscal Year 2022, funding was increased to further align with the Congressional intent to fund the Headquarters of the US Army Medical Research and Development Command operational and administrative costs in a more sustainable and transparent fashion. These functions are related to Project M02 (Medical Command Support (non-Army Management Headquarters Account)).

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 2040 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> EU9 / <i>Army Science Board</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
EU9: <i>Army Science Board</i>	-	2.158	2.166	2.220	-	2.220	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Army Science Board (ASB) is a federal advisory committee, organized under the Federal Advisory Committee Act (FACA) and the Government in the Sunshine Act, which provides the Secretary of the Army and Secretary of Defense with independent and transparent advice and recommendations on matters relating to scientific, technical, manufacturing, acquisition, logistics, and business management functions. The ASB dates to November 1951 when the Secretary of the Army, Honorable Frank Pace Jr., appointed twelve outstanding scientists and industrialists to a scientific advisory panel to assist him and the Army's leadership in creating an effective, economical, and progressive fighting force using existing technology and industrial resources. Three years later, this panel was expanded and officially designated the Army Scientific Advisory Panel (ASAP), with its first formal meeting held on November 16, 1954. In 1977, with the passage of FACA, the ASB was created to replace the ASAP.

The ASB provides the Army with a resource of world-class scientists, engineers, technologists and operational experts as well as business, policy and managerial specialists from the private sector, academia, non-Department of Defense (DoD) government agencies and former senior military officers. Its members volunteer their expertise and time to address those critical national security challenges for which the Army's leadership seeks independent and unbiased technical advice. The ASB focuses on issues of importance to large segments of the Army, and its products are delivered in a candid and timely manner.

The Board is composed of 20 voting and 20 non-voting members, each serving three-year terms, and consultants who serve one-year terms. Membership is carefully monitored to ensure that diverse disciplines and points of view are represented. The Secretary of the Army appoints the Chair and Vice Chair from the ASB membership. The ASB Chair also serves as a non-voting observer to the Defense Science Board. ASB membership is augmented by consultants who are appointed to provide specialized expertise for ASB studies.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Army Science Board	2.158	2.166	2.220
<b>Description:</b> The ASB Charter sets the estimated number of Board meetings at four per year. Board members serve without compensation, with the exception of reimbursement for official Board-related travel and per diem. Funds are therefore required to facilitate Board activities and related subcommittee activities. The ASB Charter states that annual requirements will typically entail a personnel cost of seven Full-Time Equivalents.			
Currently, the Secretary of the Army has approved four permanent subcommittees to the Board:			
1) The Army Science Board Basic Science and Disruptive Technologies Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's basic research and disruptive technologies, including Soldier performance			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army	<b>Date:</b> May 2021
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<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> EU9 / <i>Army Science Board</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p>enhancement, cognition improvement, and training; autonomous systems and human-machine teaming; Chemical, Biological, Radiological, Nuclear and high-yield Explosives (CBRNE); and counter Weapons of Mass Destruction.</p> <p>2) The Army Science Board Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's C4ISR core competency, including the tactical edge Command, Control, and Communications (C3), situational awareness overmatch, and electronic warfare.</p> <p>3) The Army Science Board Systems Engineering, Integration, and Sustainment Subcommittee is composed of not more than 15 members and addresses relating to the Army's core competency in systems engineering and integration; advanced prototyping and experimentation in operational environments; and sustainment, including engineered resilient systems, agile logistics and health management. These competencies are essential to the performance of the entire acquisition community.</p> <p>4) the Army Science Board Weapon Systems Subcommittee is composed of not more than 15 members and addresses issues relating to the Army's weapon systems core competency in: Rotorcraft Design Synthesis &amp; Performance Assessment (DS&amp;PA) and airworthiness/safety; ground combat vehicle DS&amp;PA, Soldier interaction, and system integration; lethality, including impact physics, energetics, warhead DS&amp;PA, effects modeling and simulation; survivability and protection, including armor and balanced approach for detection/hit/kill avoidance; and air and missile defense DS&amp;PA, precision fires, seekers, and precision guidance.</p> <p><b><i>FY 2021 Plans:</i></b> Conduct four to six studies on behalf of the Secretary of the Army; likely in areas of Basic Science and Disruptive Technology; Weapons Systems; C4ISR; and Systems Engineering, Integrations, and Sustainment or other concerns related to the future of the force.</p> <p><b><i>FY 2022 Plans:</i></b> Conduct four to six studies on behalf of the Secretary of the Army; likely in areas of Basic Science and Disruptive Technology; Weapons Systems; C4ISR; and Systems Engineering, Integrations, and Sustainment or other concerns related to the future of the force.</p> <p><b><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></b> Differences in FYs 21 and 22 are a function of inflation and NET after annual Joint adjustments</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	2.158	2.166	2.220

<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A
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**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> EU9 / <i>Army Science Board</i>
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**C. Other Program Funding Summary (\$ in Millions)**

**Remarks**

**D. Acquisition Strategy**

N/A

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**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M02 / Med Cmd Spt (Non-AMHA)			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
M02: Med Cmd Spt (Non-AMHA)	-	23.931	20.431	23.406	-	23.406	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project provides funding for authorized civilian workforce performing medical research, development, acquisition management and oversight that support the medical Research, Development, Test, and Evaluation (RDTE) programs at the United States (U.S.) Army Medical Research and Development Command (USAMRDC), Fort Detrick, Maryland to: (1) perform planning, programming, and budgeting; (2) manage resources; and (3) ensure compliance with U.S. Food and Drug Administration (FDA) and other regulatory and safety requirements. It also provides for continued operations of contracting and acquisition management functions performed in support of the USAMRDC Medical RDTE Program.

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

	FY 2020	FY 2021	FY 2022
<b>Title:</b> Civilian Authorized Salaries and other operational requirements	23.931	20.431	23.406
<p><b>Description:</b> Funding is provided to the USAMRDC for Medical Research Development Acquisition (RDA) Management and Oversight to include the payroll of civilians as well as nominal operating expense. Expertise helps establish and maintain the capabilities that Army medicine needs to sustain life, limb, and eyesight for our warfighters. Civilian labor performs centralized management of Medical RDA (many areas required by law and/or regulation) including animal &amp; human research protections, health and safety compliance, environmental management, and U.S. Food and Drug Administration regulatory compliance, legal support (including intellectual property protection), quality assurance, contracting services, personnel management, and planning, programming, and budgeting, and execution management. Funding also supports the Army's portion of the Special Immunization Program that protects individuals engaged in infectious disease research if exposed to pathogens or toxins.</p> <p><b>FY 2021 Plans:</b> Funds authorized civilian salaries and associated expenses (supplies, equipment, travel, etc.) at USAMRDC and USAMRAA. Also provides regulatory, clinical monitoring and data support for the Special Immunization Program (SIP). This program provides non-licensed vaccines under FDA oversight to personnel at risk of exposure to selected infectious diseases.</p> <p><b>FY 2022 Plans:</b> Will fund civilian salaries and associated management and administrative expenses (support contracts, supplies, equipment, travel, etc.) at USAMRDMC. Also, will provide regulatory, clinical monitoring and data support for the SIP as necessary. This program will provide non licensed vaccines under FDA oversight to personnel at risk of exposure to selected infectious diseases.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b></p>			

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<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M02 / <i>Med Cmd Spt (Non-AMHA)</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2020	FY 2021	FY 2022
Funding increase to further align with Congressional intent to fund HQ USAMRDC operational and administrative costs in a more sustainable and transparent fashion.			
<b>Accomplishments/Planned Programs Subtotals</b>	23.931	20.431	23.406

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 2040 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M15 / <i>ARI Mgmt/ADM Act</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
M15: <i>ARI Mgmt/ADM Act</i>	-	1.486	1.584	5.769	-	5.769	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The United States (U.S.) Army Research Institute for the Behavioral and Social Sciences (ARI) is the only Science and Technology (S&T) laboratory that conducts research to enhance the Soldier lifecycle (e.g., selection, assignment, training, leader development) and human relations (e.g., culture of dignity, respect, and inclusion). This Project supports the non-Army Management Headquarters Activity (non-AMHA) management and administrative functions to enable ARI to accomplish its research mission and includes activities such as budget execution, procurement oversight, Research, Development, Test, and Evaluation (RDTE) program planning and evaluation, management control, security/safety, logistics, information technology, and personnel/manpower execution and oversight. ARI's behavioral and social science research provides effective non-materiel solutions to help the Army adjust to changes in force size and structure, a variety of mission demands and contexts, challenges in human relations, and budgetary constraints.

The cited work is consistent with the Assistant Secretary of Defense (Research and Engineering) priority focus areas, the Army Vision, the Army's Talent Management Strategy, and the Army Modernization Strategy.

Work is performed by ARI at Fort Belvoir, VA.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> ARI Management/Administrative Actions	1.486	1.584	5.769
<b>Description:</b> Supports the non-AMHA management and administrative functions. This project provides enduring management and support functions for the execution of ARI's science and technology activities.			
<b>FY 2021 Plans:</b> Providing operation of management, administrative, personnel, budget, and support functions at a level consistent with Army and mission requirements to meet the needs of ARI as an Army Science and Technology Reinvention Laboratory (STRL), to include emphasis on the hardware and software requirement to build and sustain data analytic capabilities throughout the laboratory.			
<b>FY 2022 Plans:</b> Will provide operation of management, administrative, personnel, budget, and support functions at a level consistent with Army and mission requirements to meet the needs of ARI as an STRL, to include emphasis on the hardware and software requirement to build and sustain data analytic capabilities throughout the laboratory.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> In FY19, APE 665898XW7 funded 25 personnel authorizations to provide critical management and research support activities for the US Army Research Institute for the Behavioral and Social Sciences (ARI). Effective 1 OCT 20, these 25 authorizations			

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<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M15 / <i>ARI Mgmt/ADM Act</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2020	FY 2021	FY 2022
transfer to 665801M15 (23) and to 622785790 (2) on ARI's TDA. On 1 OCT 20, 665801M15 will fund both critical personnel and other mission essential requirements (e.g., network operations support, utilities).			
<b>Accomplishments/Planned Programs Subtotals</b>	1.486	1.584	5.769

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 2040 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M16 / <i>Standardization Groups</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
M16: <i>Standardization Groups</i>	-	4.214	4.264	4.219	-	4.219	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports nine International Technology Centers (ITCs) (formerly known as Standardization Groups) in North America, South America, Asia, and Europe for personnel, travel and overhead costs, leases on buildings, and mandatory permanent change of station.

The mission of the ITCs is to support the United States (U.S.) Army Rationalization, Standardization and Interoperability (RSI) mission around the globe as specified in Army Regulation (AR) 34-1 "Interoperability" and AR 70-41 "Armaments Cooperation". ITCs represent the U.S. Army in their geographic areas of responsibility (AOR) with foreign ministries of defense on International Cooperative Research, Development, and Acquisition (ICRDA) programs. ITCs also facilitate U.S. Army interaction in their geographic AOR with foreign non-governmental entities, such as foreign private industry and academia.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> International Technology Centers Management	4.214	4.264	4.219
<b>Description:</b> This activity funds the U.S. RSI mission conducted by the nine ITCs around the globe. These funds support the infrastructure, personnel and travel requirements to support the mission.			
<b>FY 2021 Plans:</b> Promote interoperability by representing the U.S. Army's interests in engagements with foreign ministries of defense on International Cooperative RDA programs that address, harmonize and advance technology development, and materiel interoperability. Facilitate U.S. Army interaction with foreign non-government entities, such as foreign private industry and academia. Supervise the International Technology Centers to promote interoperability by assisting in establishing international agreements that address, harmonize, and advance technology development, materiel interoperability, logistics, concepts, doctrine, organization, and training in multinational operations.			
<b>FY 2022 Plans:</b> Will continue to promote interoperability by representing the U.S. Army's interests in engagements with foreign ministries of defense on ICRDA programs that address, harmonize and advance technology development, and materiel interoperability. Will facilitate U.S. Army interaction with foreign non-government entities, such as foreign private industry and academia. Will continue to supervise the ITCs to promote interoperability by assisting in establishing international agreements that address, harmonize, and advance technology development, materiel interoperability, logistics, concepts, doctrine, organization, and training in multinational operations.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b>			

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<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M16 / <i>Standardization Groups</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2020	FY 2021	FY 2022
Decrease reflects adjustment for inflation and decrement in support of higher Army priorities.			
<b>Accomplishments/Planned Programs Subtotals</b>	4.214	4.264	4.219

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 2040 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M23 / <i>US Army Corps of Engineers Base Operations</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
M23: <i>US Army Corps of Engineers Base Operations</i>	-	-	31.525	35.308	-	35.308	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project provides funding for authorized civilian workforce performing engineer research, development, management and oversight that support the engineer Research, Development, Test, and Evaluation (RDTE) programs at the United States (U.S.) Engineer Research and Development Center (ERDC). This Project supports the non-Army Management Headquarters Activity (non-AMHA) management and administrative functions to enable ERDC to accomplish its research mission and includes activities such as procurement oversight, RDTE programming and budget execution, management control and oversight, security/safety, information management and technology, personnel/manpower execution and oversight, research laboratory/facility management and maintenance, and High Performance Computing Modernization Program (HPCMP) facility operations and management

ERDC research in civil and military engineering, blast and weapons effects, battlespace terrain mapping and characterization, computational prototyping of military platforms, and cold regions science and engineering provides effective non-materiel and materiel solutions to enable the Army to achieve its modernization priorities of Air and Missile Defense, Next Generation Combat Vehicle, Future Vertical Lift, Network, Long Range Precision Fires, and Soldier Lethality.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> ERDC Management and Administrative Actions and Other Operational Requirements	-	31.525	35.308
<b>Description:</b> Supports the non-AMHA management and administrative functions as follows.			
<b>FY 2021 Plans:</b> Will provide operation of management, administrative, personnel, budget, and support functions at a level consistent with Army and mission requirements to meet the needs of ERDC conducting the Army's engineer research and development (R&D) program supporting all six of the Army's Modernization Priorities..			
<b>FY 2022 Plans:</b> Provide operation of management, administrative, personnel, budget, logistics and support functions at a level consistent with Army and mission requirements to meet the needs of ERDC conducting the Army's engineer R&D program supporting all six of the Army's Modernization Priorities. Will transition U.S. Army Corps of Engineers (USACE) Logistics Activity (ULA) mission requirements supporting supply logistics and transportation services from OMA to RDTE.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b>			

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<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M23 / <i>US Army Corps of Engineers Base Operations</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
Funding increase from FY21 to FY22 is due to ULA mission requirements transitioning from OMA to RDTE.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	31.525	35.308

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M42 / ARDEC Cmd/Ctr Support			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
M42: ARDEC Cmd/Ctr Support	-	7.114	7.270	7.379	-	7.379	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States (U.S.) Army Combat Capabilities Development Command (CCDC) Armaments Center (AC), Picatinny Arsenal, NJ, not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable the CCDC AC to accomplish its research, development and engineering mission, to include CCDC AC headquarters staff, safety, physical security, anti-terrorism, operations security (OPSEC), information security and intelligence services.

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

	FY 2020	FY 2021	FY 2022
<b>Title:</b> Management Support	7.114	7.270	7.379
<b>Description:</b> CCDC Armaments Center (AC) management / administrative efforts.			
<b>FY 2021 Plans:</b> Provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC AC.			
<b>FY 2022 Plans:</b> Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC AC.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Economic Adjustment			
<b>Accomplishments/Planned Programs Subtotals</b>	7.114	7.270	7.379

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M44 / CECOM Cmd/Ctr Spt			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
M44: CECOM Cmd/Ctr Spt	-	3.662	3.902	3.933	-	3.933	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States (U.S.) Army Combat Capabilities Development Command (CCDC) Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) Center, located at Aberdeen Proving Ground, MD. These efforts are not identifiable with specific research and development projects financed under other program elements.

Funds only select, critical, overarching functions that enable CCDC C5ISR to accomplish its research, development and engineering mission, to include CCDC C5ISR headquarters staff, resource management, human resources, safety, security, protocol, public affairs, information management, facility management and audit readiness.

This is a test

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

	FY 2020	FY 2021	FY 2022
<b>Title:</b> Management Support	3.662	3.902	3.933
<b>Description:</b> CCDC Command, Control, Communications, Computers, Cyber Intelligence, Surveillance and Reconnaissance (C5ISR) Center management and administrative efforts.			
<b>FY 2021 Plans:</b> Provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC C5ISR Center.			
<b>FY 2022 Plans:</b> Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC C5ISR Center.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Economic Adjustment			
<b>Accomplishments/Planned Programs Subtotals</b>	3.662	3.902	3.933

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

N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army Date: May 2021

<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M44 / <i>CECOM Cmd/Ctr Spt</i>
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**C. Other Program Funding Summary (\$ in Millions)**

**Remarks**

**D. Acquisition Strategy**

N/A

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M46 / AMCOM Cmd/Ctr Spt			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
M46: AMCOM Cmd/Ctr Spt	-	3.448	3.432	3.490	-	3.490	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States (U.S.) Army Combat Capabilities Development Command (CCDC) Aviation and Missile Center (AvMC), Redstone Arsenal, AL. Such functions are not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching functions in support of CCDC AvMC accomplishing its research, development and engineering mission.

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

	FY 2020	FY 2021	FY 2022
<b>Title:</b> Management Support	3.448	3.432	3.490
<b>Description:</b> CCDC Aviation and Missile Center (AvMC) management and administrative efforts.			
<b>FY 2021 Plans:</b> Provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC AvMC.			
<b>FY 2022 Plans:</b> Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC AvMC.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Economic Adjustment			
<b>Accomplishments/Planned Programs Subtotals</b>	3.448	3.432	3.490

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities			Project (Number/Name) M47 / TACOM Cmd/Ctr Spt				
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
M47: TACOM Cmd/Ctr Spt	-	3.480	2.954	3.759	-	3.759	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States Army Combat Capabilities Development Command (CCDC) Ground Vehicle Systems Center (GVSC), Warren, MI, not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching management functions that enable CCDC GVSC to accomplish its research, development and engineering mission.

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

	FY 2020	FY 2021	FY 2022
<b>Title:</b> Management Support	3.480	2.954	3.759
<b>Description:</b> CCDC Ground Vehicle Systems Center (GVSC) management and administrative efforts.			
<b>FY 2021 Plans:</b> Provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC GVSC.			
<b>FY 2022 Plans:</b> Will provide management and administrative functions at a level consistent with mission requirements and support needs at CCDC GVSC.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Economic Adjustment			
<b>Accomplishments/Planned Programs Subtotals</b>	3.480	2.954	3.759

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M55 / <i>Edgewood Chemical Biological Center</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
<i>M55: Edgewood Chemical Biological Center</i>	-	2.958	2.611	2.664	-	2.664	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States Army Combat Capabilities Development Command (CCDC) Chemical Biological Center (CBC), Aberdeen Proving Ground, MD, not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable CCDC CBC to accomplish its mission to include CCDC CBC headquarter staff, resource management, safety, and surety programs. In addition, this program includes the management and oversight of Army chemical surety operations as directed by Department of Defense (DoD) Instruction 5210.65, "Minimum Security Standards for Safeguarding Chemical Agents".

This is a test.

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

	FY 2020	FY 2021	FY 2022
<b>Title:</b> Management Support	2.958	2.611	2.664
<b>Description:</b> CCDC Chemical Biological Center (CBC) management and administrative efforts.			
<b>FY 2021 Plans:</b> Provide continued management and administrative functions at a level consistent with mission requirements and support needs at CCDC CBC.			
<b>FY 2022 Plans:</b> Will provide continued management and administrative functions at a level consistent with mission requirements and support needs at CCDC CBC.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Economic adjustment.			
<b>Accomplishments/Planned Programs Subtotals</b>	2.958	2.611	2.664

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

N/A

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M55 / <i>Edgewood Chemical Biological Center</i>

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

**Remarks**

**D. Acquisition Strategy**

N/A

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605801A / Programwide Activities				Project (Number/Name) M58 / SECOM CMD/CTR Spt			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
M58: SECOM CMD/CTR Spt	-	2.253	2.232	2.250	-	2.250	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Project supports the non-Army Management Headquarters Activity (non-AMHA) functions incident to the local operation and management of the United States Army Combat Capabilities Development Command (CCDC) Soldier Center (SC), Natick, MA, not identifiable with specific research and development Projects financed under other Program Elements.

Funds only select, critical, overarching functions that enable CCDC SC to accomplish its research, development and engineering mission, to include: Manpower/ Personnel, Intelligence/Security, Operations, Logistics, Training, Resource Management and Headquarters administrative staff.

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

	FY 2020	FY 2021	FY 2022
<b>Title:</b> Management Support	2.253	2.232	2.250
<b>Description:</b> CCDC Soldier Center (SC) management and administrative functions.			
<b>FY 2021 Plans:</b> Provide continued management and administrative functions at a level consistent with mission requirements and support needs at CCDC SC.			
<b>FY 2022 Plans:</b> Will provide continued management and administrative functions at a level consistent with mission requirements and support needs at CCDC SC.			
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Economic Adjustment			
<b>Accomplishments/Planned Programs Subtotals</b>	2.253	2.232	2.250

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 2040 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>				<b>Project (Number/Name)</b> M76 / <i>Armament Group Support</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
M76: <i>Armament Group Support</i>	-	2.096	2.139	2.192	-	2.192	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The goal of this Project is to expand worldwide allied standardization and interoperability through cooperative research and development (R&D) and technology sharing per Secretary of Defense guidance and especially in support of the United States (U.S.) Army. This Project partially funds the travel costs and administrative support (studies, analysis, interpretation, equipment, etc.) required to participate in international forums, such as the North Atlantic Treaty Organization (NATO) Army Armaments Group (NAAG), Defense Against Terrorism (DAT) and to pursue new cooperative R&D initiatives and international cooperative agreements such as memoranda of understanding. This Project also includes the United States' share of costs of the NATO Civil Budget, Chapter IX, which funds the NATO Industrial Advisory Group (NIAG) and the Special Fund for Cooperative Planning (U.S. Army is Executive Agent for this NATO bill). This Project also partially funds the Five Power Senior National Representatives, Army (SNR (A)), the Technical Cooperative Program, Bilateral SNR(A)s, and Army armaments working groups with many nations.

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Title:</b> Army Scientific Support NATO Army Armaments Group</p> <p><b>Description:</b> Funds supported Army subject matter experts to attend scientific and technological exchange, meetings, demonstrations, and/or simulations having military application and mutual benefits to the U.S. and its Allies.</p> <p><b>FY 2021 Plans:</b> Funds support Army Subject Matter Experts (SMEs) to attend scientific and technological exchange, meetings demonstrations, and/or simulations having military application and mutual benefits to the United States and its Allies and will fund 8 different working/capability groups that will meet twice a year.</p> <p><b>FY 2022 Plans:</b> Funds support Army SMEs to attend scientific and technological exchange, meetings demonstrations, and/or simulations having military application and mutual benefits to the United States and its Allies and will fund 8 different working/capability groups that will meet twice a year.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Economic Adjustment</p>	0.215	0.318	0.433
<p><b>Title:</b> Executive Agent</p> <p><b>Description:</b> Funds the U.S. share of the Mandatory NATO Civil Budget, Chapter IX (Defense Support Programs). U.S. Army is Executive Agent for this Mandatory NATO bill.</p> <p><b>FY 2021 Plans:</b></p>	1.881	1.821	1.759

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army	<b>Date:</b> May 2021
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<b>Appropriation/Budget Activity</b> 2040 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605801A / <i>Programwide Activities</i>	<b>Project (Number/Name)</b> M76 / <i>Armament Group Support</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2020	FY 2021	FY 2022
<p>Funds support the United States share of the NATO Civil Budget, Chapter IX (Defense Support Program). U.S. Army is the Executive Agent for this mandatory NATO Bill.</p> <p><b><i>FY 2022 Plans:</i></b> Funds support the United States share of the NATO Civil Budget, Chapter IX (Defense Support Program). U.S. Army is the Executive Agent for this mandatory NATO Bill.</p> <p><b><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></b> US Dollars currency exchange rate is stronger than Euros.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	2.096	2.139	2.192

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A