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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 0605013A / <i>Information Technology Development</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	-	123.659	129.380	124.475	-	124.475	57.737	34.254	34.683	37.233	Continuing	Continuing
099: <i>Army Human Resource System</i>	-	0.346	0.197	15.132	-	15.132	0.628	0.332	0.313	-	0.000	16.948
184: <i>Installation Support Modules</i>	-	11.859	13.762	1.324	-	1.324	1.343	1.354	1.368	1.381	0.000	32.391
BY3: <i>Information Systems for Installations</i>	-	-	-	1.022	-	1.022	1.026	1.025	1.035	1.039	0.000	5.147
FL9: <i>Army Accessioning IT Development</i>	-	36.332	5.382	6.605	-	6.605	6.762	6.890	7.031	7.090	0.000	76.092
FM7: <i>Human Resouces Information Technology</i>	-	8.597	12.971	11.574	-	11.574	11.803	9.462	9.606	9.681	Continuing	Continuing
FM8: <i>Information Technology for Training Systems</i>	-	37.011	62.969	57.108	-	57.108	26.073	3.488	3.541	3.576	0.000	193.766
FM9: <i>Information Technology for Criminal Investigations</i>	-	1.190	1.226	1.273	-	1.273	1.280	1.291	1.305	1.318	0.000	8.883
T04: <i>USMEPCOM TRANSFORMATION - IT MODERNIZATION</i>	-	8.997	9.087	2.221	-	2.221	2.229	2.227	2.228	4.825	0.000	31.814
T05: <i>Army Business System Modernization Initiatives</i>	-	16.286	20.606	24.875	-	24.875	3.206	4.767	4.802	4.836	0.000	79.378
VR3: <i>ASMIS-R (REPORTIT)</i>	-	3.041	3.180	3.341	-	3.341	3.387	3.418	3.454	3.487	0.000	23.308

A. Mission Description and Budget Item Justification
 This Program Element is made up of over 30 programs across 10 Program Elements that represents numerous Army Information Technology missions.

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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 0605013A / <i>Information Technology Development</i>
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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	126.498	122.168	0.000	-	0.000
Current President's Budget	123.659	129.380	124.475	-	124.475
Total Adjustments	-2.839	7.212	124.475	-	124.475
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-5.153			
• Congressional Rescissions	-	-			
• Congressional Adds	-	12.500			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.839	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	124.475	-	124.475
• FFRDC Transfer	-	-0.135	-	-	-

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

Project: 184: *Installation Support Modules*

Congressional Add: *Program increase - installation access control technology*

Congressional Add: *Program Increase - Smart installation and community program*

Congressional Add Subtotals for Project: 184

Congressional Add Totals for all Projects

	FY 2021	FY 2022
	10.500	4.500
	-	8.000
Congressional Add Subtotals for Project: 184	10.500	12.500
Congressional Add Totals for all Projects	10.500	12.500

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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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) 099 / <i>Army Human Resource System</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
099: <i>Army Human Resource System</i>	-	0.346	0.197	15.132	-	15.132	0.628	0.332	0.313	-	0.000	16.948
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Human Resource System (099) contains the following programs: Go Army Education/Army IgnitED Modernization managed by the Human Resource Command, Commanders Risk Reduction Dashboard managed by Program Executive Office Enterprise Information Systems (PEO EIS) and Regional Level Applications Software (RLAS) managed by United States Army Reserves (USAR).

In support of recruiting and retention for a more educated workforce, GoArmyEd is the virtual financial management portal and decision-support tool for 1) AD, USAR and ARNG Soldiers to request Tuition Assistance (TA); 2) Cadets to request Scholarship payments and 3) Department of the Army (DA) Civilians and Apprentices to request professional development funds. GoArmyEd is an enterprise system that enforces eligibility for higher education funds and creates efficiencies with its automated processes. Soldiers, Scholarship Cadets, DA Civilians and Apprentices use it to pursue post-secondary educational goals and professional development objectives; Army Education Counselors use it to provide educational guidance; Career Program Managers and Training Managers use it to manage civilian training; and Academic Institutions use it to deliver degree and course offerings and to report user progress and degree completions for 206K Soldiers, Cadets and Civilians.

Army IgnitED is the 24/7 system that provides financial management oversight and workflow for Tuition Assistance (TA) and Credentialing Assistance (CA) Soldiers, Scholarship tuition for USACC and professional development funds for DA Civilians managed by Army Civilian Career Management Activity (ACOMA). FY23 funding will continue to build functionality within the ArmyIgnitED System for financial management and workflow of Tuition Assistance and Credentialing Assistance for Soldiers. Additionally, it supports the DA Civilians Professional Training and Cadet Command Scholarships Program.

Commanders Risk Reduction Dashboard (CRRD) has been transitioned to the Army Leader Dashboard (ALD). The program began with the identification of capability gaps arising out of the 2010 Red Book and 2012 Gold Book, two extensive studies directed by senior army leadership to examine suicide prevention (Red Book) and the Army's health and discipline (Gold Book). The studies illustrated that Commanders faced capability gaps in their ability to identify high risk behavior and risk factors, analyze soldier and unit risk, and identify risk trends and develop intervention strategies. CRRD provides Commanders at echelons Company through Major Army Command the ability to visualize and take preventive action to mitigate risk factors impacting their soldiers and formations by going to one dashboard and seeing data from multiple data sources.

The United States Army Reserve (USAR) utilizes the Regional Level Application Software (RLAS) as an enterprise system for duty attendance, military pay, Soldier records management and training calendar management to access, transact, store and manage Soldier and unit data required to conduct synchronized USAR operations. Unlike the Army Active Component (AC) where Soldier military pay is centrally managed and input at the installation level, the USAR utilizes RLAS to manage and input decentralized Soldier pay transactions at the unit level. RLAS consists of four modules: Pay, Personnel, Training, and Resource Management.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army	Date: April 2022
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 099 / <i>Army Human Resource System</i>
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Research and Development (R&D) authority and funding will provide RLAS with investment funds for necessary system development and system modifications. R&D funding amounts increase slightly towards the end of RLAS lifecycle (FY 2019 and 2020) in order to fully support the Integrated Pay and Personnel System - Army (IPPS-A) transition. Annually, USAR will provide sustainment funding. R&D authority and sustainment funding will meet the USAR Staff Judge Advocate (SJA) and Office of the Secretary of Defense Judge Advocate General (OTJAG) opinions regarding defense information Technology (IT) system for R&D activities. Necessary RLAS system development and system modifications include: 1) IPPS-A interface requirements; 2) implementing Microsoft .net Framework 4.5 standards; 3) implementing new Operating Systems (OS), system utilities and other technology products. Enhanced development and modification to RLAS will improve RLAS system capabilities and bring RLAS into compliance with various Army Cyber Command (ARCYBER) and audit readiness requirements. RLAS will continue to process duty attendance, military pay, Soldier personnel transactions and training calendars until the system is fully subsumed by IPPS-A.

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

	FY 2021	FY 2022	FY 2023
<p>Title: GoArmyEd / Army IgnitED</p> <p>Description: Army IgnitED is an IT financial management portal and decision support tool for Soldiers, Cadets, and Civilians to request Tuition Assistance (TA) and Credentialing Assistance (CA), Scholarship Cadet payments and Army civilians to request training funds online, anytime, for classroom, distance learning, and college courses. Army IgnitED enforces policies, procedures and eligibility for over \$492M of funds supporting Soldier and Scholarship Cadets' higher education goals and Civilians' and Apprentices' professional development. Army IgnitED's automated interfaces will reduce manpower and other costs while improving all users' interactions and enhancing security features. Funding will support continued modernization/automation of Army IgnitED's functionality utilizing the United States Airforce Automated Education Management System (AFAEMS) baseline and hosting in the USAF cloud. When the modernized system acquires all functionality, the legacy system will be deactivated. In support of recruiting and retention for a more educated workforce, Army IgnitED is the virtual financial management portal and decision-support tool for 1) AD, USAR and ARNG Soldiers to request Tuition Assistance (TA); 2) Cadets to request Scholarship payments and 3) Department of the Army (DA) Civilians and Apprentices to request professional development funds. Army IgnitED is an enterprise system that enforces eligibility for higher education funds and creates efficiencies with its automated processes. Soldiers, Scholarship Cadets, DA Civilians and Apprentices use it to pursue post-secondary educational goals and professional development objectives; Army Education Counselors use it to provide educational guidance; Career Program Managers and Training Managers use it to manage civilian training; and Academic Institutions use it to deliver degree and course offerings and to report user progress and degree completions for 206K Soldiers, Cadets and Civilians. Army IgnitED is an upgrade to the Army's legacy system GoArmyEd.</p> <p>FY 2023 Plans: Develop and improve Army IgnitED functionality to include: Tuition Assistance (TA) and Credentialing Assistance(CA), civilian and cadet payments. Will develop critical interfaces to legacy ERP systems.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p>	-	-	14.530

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 099 / <i>Army Human Resource System</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
Increase from FY22 to FY23 is due to the Army Senior Leaders requesting that the Go Army Ed system be modernized with increase functionality and interfaces with existing ARMY Personnel and Financial systems.				
<p>Title: Regional Level Application Software (RLAS)</p> <p>Description: The United States Army Reserve (USAR) utilizes the Regional Level Application Software (RLAS) as an enterprise system for duty attendance, military pay, Soldier records management and training calendar management to access, transact, store and manage Soldier and unit data required to conduct synchronized USAR operations. Unlike the Army Active Component (AC) where Soldier military pay is centrally managed and input at the installation level, the USAR utilizes RLAS to manage and input decentralized Soldier pay transactions at the unit level. RLAS consists of four modules: Pay, Personnel, Training, and Resource Management. R&D authority and funding will meet the USAR Staff Judge Advocate (SJA) and Office of the Secretary of Defense Judge Advocate General (OTJAG) opinions regarding defense information Technology (IT) system for R&D activities. Necessary RLAS system development and system modifications include: 1) Integrated Pay and Personnel System ? Army (IPPS-A) interface requirements; 2) implementing Microsoft .net Framework 4.5 standards; 3) implementing new Operating Systems (OS), system utilities and other technology products. Enhanced development and modification will improve RLAS system capabilities and bring RLAS into compliance with various Army Cyber Command (ARCYBER) and audit readiness requirements.</p> <p>FY 2022 Plans: Implement enhanced audit logging processes. Develop and refine open source code solutions. Refine system user security controls. Complete full system transition to cloud platform hosting environment. Develop and implement IPPS-A R3.x compatible data interface, data transfer, and data processing solutions. Develop, test, and evaluate IPPS-A R4 source code changes for data interface and data transfer. SIBR/STTR Transfer as requested.</p> <p>FY 2023 Plans: Funding provides for continued development of enhanced audit logging processes, open source code solutions and system user security controls. Funding also provides for continued system transition to cloud platform hosting environment.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: RLAS has a RDTE cost increase from \$197K in FY22 to \$602K in FY23 due to RLAS system changes necessary to maintain data and functional integration with IPPS-A R3, R3.x (multiple IPPSA changes), preparation for IPPSA R4 and IPPSA R4.x, DAG6/CIO Cyber requirements, and RLAS system user changes. Significant increase in development requirements.</p>		0.346	0.190	0.602
<p>Title: FY22 SBIR/STTR Transfer</p> <p>FY 2022 Plans: FY22 SBIR/STTR Transfer</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p>		-	0.007	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army	Date: April 2022
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 099 / <i>Army Human Resource System</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
FY22 SBIR/STTR Transfer			
Accomplishments/Planned Programs Subtotals	0.346	0.197	15.132

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

N/A

Remarks

D. Acquisition Strategy

GoArmyEd - The program manager makes extensive use of Integrated Product Teams (IPTs). Sub-elements of the acquisition (engineering and design, logistics planning, testing, etc.) are intensively managed by integrated teams of government and contractor personnel. Task performance is tracked against the Work Breakdown Structure (WBS) and resources allocated to each task are adjusted based on performance against the WBS. GoArmyEd contractual efforts are acquired on a firm fixed price basis on existing contractual vehicles.

Army IgnitED - The Program Manager will utilize a Firm Fixed Price Development Contract. The overarching acquisition strategy is to deliver eight (8) critical capabilities based on priorities in FY23. These are: 1) IPSS-A Interface; 2) Army Personnel Tests; 3) Grade Reporting; 4) Graduation Reporting; 5) On Duty Course Management; 6) Graduation Notification; 7) GPC Payments; and 8) GFEBs Interface. In total, the investment is to ensure system interface with our current personnel system to enforce eligibility for all COMPOs and the automation of grades and graduations reporting processes from Educational Institutions to ensure financial accountability and auditability.

RLAS - Will utilize GSA contract support to solicit FY 2020/2021 two-year software support & development contract - hybrid Firm Fixed Price & Time and Materials. RLAS will utilize GSA contract support to solicit FY 2021/2022/2023 three-year software support & development contract - hybrid Firm Fixed Price & Time and materials. RLAS will utilize existing USAR G6 hardware / servers / virtual environment / Active Directory / level 1-2 help desk / utility software / OS / DB / and other necessary hardware and devices as needed to operate the RLAS system.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) 099 / Army Human Resource System
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Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Product Development	C/FFP	Acquisition Contract Center : Rock Island, II	1.519	-		-		-		-		-	0.000	1.519	-
GoArmyEd Modernization/ Army IgnitED	TBD	IBM : Various	0.591	-		-		-		-		-	0.000	0.591	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	9.259	-		-		-		-		-	0.000	9.259	-
FY 2022 SBIR / STTR Transfer	TBD	TBD : TBD	0.079	-		0.007		-		-		-	0.000	0.086	-
Subtotal			11.448	-		0.007		-		-		-	0.000	11.455	N/A

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
AHRS - ECPs/SCPs/ICPs/RLAS	C/FFP	Hewlett Packard : various	90.183	0.346		0.190		0.602		-		0.602	0.000	91.321	-
AHRS - Software Development	C/FFP	Hewlett Packard : various	51.723	-		-		-		-		-	0.000	51.723	-
GoArmyEd Modernization/ Army IgnitED	C/FFP	TBD : Various	17.800	-		-		14.530		-		14.530	0.000	32.330	-
CRRD/AIE - PMSS	C/FFP	Various : Various	10.093	-		-		-		-		-	0.000	10.093	-
Subtotal			169.799	0.346		0.190		15.132		-		15.132	0.000	185.467	N/A

Remarks
CRRD is developed Government to Government by the Army Analytics and Visualization Lab at Redstone Arsenal via competitively awarded development contracts.

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	181.247	0.346	0.197	15.132	-	15.132	0.000	196.922	N/A

Remarks

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 099 / <i>Army Human Resource System</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						
Army IgnitED IPPS-A Interface											3																							
Army IgnitED Personnel Test									1																									
Army IgnitED Grade Reporting																			4															
Army IgnitED Graduation Reporting																			5															
Army IgnitED On Duty Course Management																	2																	
Army IgnitED Graduation Notification																			6															
Army IgnitED Government Purchase Card (GPC) Automation Interface																							7											
Army IgnitED GEFBS Interface																							8											

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 099 / <i>Army Human Resource System</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
GoArmyEd Support/Enhancements	3	2018	4	2020
Commanders Risk Reduction Dashboard (CRRD) Limited Deployment (LD)	4	2019	4	2019
Commanders Risk Reduction Dashboard (CRRD) Full Deployment (FD)	1	2020	1	2020
Commanders Risk Reduction Dashboard (CRRD) Development	3	2015	2	2020
Commanders Risk Reduction Dashboard (CRRD) - Transition to Army Leader Dashboard	2	2020	3	2020
Army IgnitED IPPS-A Interface	3	2023	3	2023
Army IgnitED Personnel Test	1	2023	1	2023
Army IgnitED Grade Reporting	4	2023	4	2023
Army IgnitED Graduation Reporting	4	2023	4	2023
Army IgnitED On Duty Course Management	2	2023	2	2023
Army IgnitED Graduation Notification	4	2023	4	2023
Army IgnitED Government Purchase Card (GPC) Automation Interface	2	2024	2	2024
Army IgnitED GEFBS Interface	2	2024	2	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) 184 / <i>Installation Support Modules</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
184: <i>Installation Support Modules</i>	-	11.859	13.762	1.324	-	1.324	1.343	1.354	1.368	1.381	0.000	32.391
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

U.S. Army Coalition Interoperability Assurance and Validation (CIAV) Research Network provides an enduring and agile capability to execute approved processes and provide and maintain a repeatable and persistent infrastructure within the assurance and validation Coalition partner environment designed to ensure the succinct exchange of critical mission data between Mission Partners throughout all phases of military operations and enable the Army's implementation of Mission Partner Environment (MPE) and Combined-Joint All Domain Command and Control. CIAV uses a mission-based interoperability approach to identify capabilities, limitations and associated operational impacts and provides recommendations to improve or resolve information exchange issues between the U.S. Army and its mission partners. Funding facilitates coalition interoperability information exchange issue in compliance with AR 34-1 Multinational Force Interoperability and DODI 8110.01, Mission Partner Environment (MPE) Information Sharing Capability Implementation for the DOD.

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

	FY 2021	FY 2022	FY 2023
Title: Army Behavioral Health Integrated Data Environment	1.359	1.216	1.324
Description: Army Behavioral Health Integrated Data Environment (ABHIDE) will be the U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM) Suicide Registry.			
FY 2022 Plans: Army Behavioral Health Integrated Data Environment (ABHIDE) will be the U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM) Suicide Registry. Data relating to suicides and suicides attempts are collected and stored in a in disparate, non-related databases that cross the domains of medical, personnel and law enforcement. ABHIDE will provide the capability of integrating the non-related and dispersed data from the separate sources into a single comprehensive database to support both retrospective and predictive analysis. The information obtained will be used to conduct epidemiological surveillance, identify trends in behavior patterns and identify potential indicators for suicidal tendencies supporting the mitigation of future suicide attempts across all phases of Army service.			
FY 2023 Plans: FY23 RDTE funding continues support of the Army Behavioral Integrated Data Environment (ABHIDE) registry Database and support the Independent Verification and Validation analysis.			
FY 2022 to FY 2023 Increase/Decrease Statement:			

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 184 / <i>Installation Support Modules</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Increase of funding from FY22 to FY23 is due to standard cost inflation.			
Title: FY22 SBIR/STTR Adjustments	-	0.046	-
FY 2022 Plans: FY22 SBIR/STTR Transfer			
FY 2022 to FY 2023 Increase/Decrease Statement: FY22 SBIR/STTR Transfer			
Accomplishments/Planned Programs Subtotals	1.359	1.262	1.324

	FY 2021	FY 2022
Congressional Add: Program increase - installation access control technology	10.500	4.500
FY 2021 Accomplishments: Funding will support the CIAV capability in support of DoD, Joint Staff, and one of the CSA's top priorities in alignment with the National Defense and Army Strategies (Strengthen Access, Presence, & Influence w/ Allies & Partners). The CIAV capability assesses and evaluates Mission Partner and Multi-lateral exercises; new solutions to inform modernization enabling the Mission Partner Environment (MPE) framework and postures the Army for C-JADC2 while combining Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities or Policy-based (DOTMLPF-P) gaps within a coalition or a MPE.		
FY 2022 Plans: FY2022 Congressional Add for Installation Access Control Technology		
Congressional Add: Program Increase - Smart installation and community program	-	8.000
FY 2022 Plans: FY2022 Congressional Add for Smart Installation and Community Program		
Congressional Adds Subtotals	10.500	12.500

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

Line Item	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
• BE4162: MACOM AUTOMATION SYSTEMS	63.648	49.794	46.433	-	46.433	32.299	41.290	41.391	41.717	Continuing	Continuing

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 184 / <i>Installation Support Modules</i>

D. Acquisition Strategy

Installation Support Modules is in Post Deployment Software Support (PDSS). The present concept calls for the use of full and open competition to implement enhancements as defined by the Functional Proponent, Army Chief Information Officer (CIO). Current emphasis is to bring the ISM systems to functional readiness for transfer to an Army Data Center and virtualize the ISM systems.

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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 0605013A / Information Technology Development				184 / Installation Support Modules							
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
FY22 SBIR/STTR Adjustments	TBD	TBD : TBD	-	-		0.046		-		-		-	0.000	0.046	-
Subtotal			-	-		0.046		-		-		-	0.000	0.046	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
Army Behavioral Health Integrated Data Environment	C/FFP	various : various	10.593	1.359	Feb 2021	1.216	Feb 2022	-		-		-	Continuing	Continuing	-
Program increase - installation access control technology	TBD	TBD : TBD	-	-		4.500		-		-		-	0.000	4.500	-
Program Increase - Smart installation and community program	TBD	TBD : TBD	-	-		8.000		-		-		-	0.000	8.000	-
Subtotal			10.593	1.359		13.716		-		-		-	Continuing	Continuing	N/A
Test and Evaluation (\$ 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
Independent Verification and Validation (IVV) Testing	C/T&M	GDIT Corp : various	2.111	10.500		-		1.324		-		1.324	0.000	13.935	-
Subtotal			2.111	10.500		-		1.324		-		1.324	0.000	13.935	N/A
Project Cost Totals			12.704	11.859		13.762		1.324		-		1.324	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army							Date: April 2022			
Appropriation/Budget Activity 2040 / 5			R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>			Project (Number/Name) 184 / <i>Installation Support Modules</i>				
	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	

Remarks

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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 0605013A / <i>Information Technology Development</i>		Project (Number/Name) 184 / <i>Installation Support Modules</i>	

FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
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

ISM Post Deployment Software Support	[REDACTED]																											
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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

ISM Post Deployment Software Support																												
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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 184 / <i>Installation Support Modules</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ISM Post Deployment Software Support	4	2003	4	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) BY3 / <i>Information Systems for Installations</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
BY3: <i>Information Systems for Installations</i>	-	-	-	1.022	-	1.022	1.026	1.025	1.035	1.039	0.000	5.147
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In Fiscal Year 2023 this effort is realigned from Program Element (PE) 0605013A Information Technology Development, Project T05 Army Business System Modernization Initiatives.

A. Mission Description and Budget Item Justification

The Virtual Testbed for Installation Mission Effectiveness (VTIME) is the Army's planned installation common operating picture, analysis, visualization and planning tool, serving as an integrating and processing hub for numerous Army Installations of the Future (IoT) technologies, supporting users across echelons. VTIME will support the Army installation enterprise with a near real-time common operating picture of data spanning functional areas and offer a modern analytic platform to support Army implementation of the Army Installations Strategy, Army Data Strategy, and Army Business Management Plan. VTIME is a cloud-based solution, being planned and prototyped to adapt and use a combination of commercially available technologies to comprehensively integrate and understand diverse installation data sources. VTIME will provide a novel capability to apply artificial intelligence and machine learning to improve strategic, operational, and tactical installation decision-making, spanning functions such as facility investment planning, space and land assignment, master planning, and Garrison operations. VTIME is being designed to support hybrid-cloud implementations, to offer installations the ability to support operations under network-contested conditions. This integrated and comprehensive tool will allow the senior commander to both maneuver in a complex battlespace by providing the ability to prevent, protect and recover from hazards and enable cost saving through improved decision-making and operational efficiencies, supporting future integrations of emerging IoT technology.

Work is performed by the United States (U.S.) Army Engineer Research and Development Center.

Work in this Project is related to, and fully coordinated with, PE 0605013A (Information Technology Development) and Project T05 (Army Business System Modernization Initiatives).

Work in this Project supports the Army Installations Strategy as a critical enabler (data analytics) for modernization.

Work in this Project complements the Office of the Assistant Secretary of the Army (Installations, Energy & Environment)'s Installations of the Future Program.

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

	FY 2021	FY 2022	FY 2023
Title: Installation Data Source Integration	-	-	0.918
Description: This effort serves as the foundation for VTIME analytic, planning and visualization capabilities; this effort identifies, catalogs, acquires, and establishes agreements and protocols for integration of diverse installation enterprise data sources			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) BY3 / <i>Information Systems for Installations</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
spanning functional areas and echelons. This includes potentially dozens of data sources and programs, including many datasets that lack modern data interfaces.			
<p><i>FY 2023 Plans:</i> FY23 RDTE funding will continue data alignment, transformation, and load activities for near real-time and real-time installation data sources; will adopt standards for user-provided datasets and implement automation support to incorporate into the common operating picture (COP); and will deploy preliminary ?Crawl? VTIME data integration implementation.</p> <p><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Funding in this effort increased in Fiscal Year 2023 because the effort will be realigned from Program Element (PE) 0605013A Information Technology Development, Project T05 Army Business System Modernization Initiatives.</p>			
<p><i>Title:</i> Requirements Definition</p> <p><i>Description:</i> This effort focuses on establishing and documenting formal capability requirements, developing use-cases and implementation architecture for VTIME, and performance measures, in coordination with the other efforts.</p> <p><i>FY 2023 Plans:</i> FY23 RDTE funding will provide continued stakeholder engagements and complete functional requirement definition and update acquisition plans.</p> <p><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Funding in this effort increased in Fiscal Year 2023 because the effort will be realigned from Program Element (PE) 0605013A Information Technology Development, Project T05 Army Business System Modernization Initiatives.</p>	-	-	0.104
Accomplishments/Planned Programs Subtotals	-	-	1.022

C. Other Program Funding Summary (\$ in Millions) N/A
Remarks N/A
D. Acquisition Strategy N/A

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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 0605013A / Information Technology Development				BY3 / Information Systems for Installations							
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
Data alignment and transformation	TBD	ERDC-CERL : Champaign Illinois	-	-		-		0.400	Oct 2022	-		0.400	0.000	0.400	-
Subtotal			-	-		-		0.400		-		0.400	0.000	0.400	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
Adopt dataset standards	TBD	ERDC-CERL : Champaign Illinois	-	-		-		0.326	Oct 2022	-		0.326	0.000	0.326	-
Subtotal			-	-		-		0.326		-		0.326	0.000	0.326	N/A
Support (\$ 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
Stakeholder engagements	TBD	ERDC-CERL : Champaign Illinois	-	-		-		0.025	Oct 2022	-		0.025	0.000	0.025	-
Complete functional requirement definition & update acquisition plans	TBD	ERDC-CERL : Champaign Illinois	-	-		-		0.111	Oct 2022	-		0.111	0.000	0.111	-
Subtotal			-	-		-		0.136		-		0.136	0.000	0.136	N/A
Test and Evaluation (\$ 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
Deploy data integration implementation	TBD	ERDC-CERL : Champaign Illinois	-	-		-		0.160	Oct 2022	-		0.160	0.000	0.160	-
Subtotal			-	-		-		0.160		-		0.160	0.000	0.160	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army								Date: April 2022			
Appropriation/Budget Activity 2040 / 5			R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>			Project (Number/Name) BY3 / <i>Information Systems for Installations</i>					
	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals	-	-	-	1.022	-	1.022	0.000	1.022	N/A		

Remarks

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) BY3 / <i>Information Systems for Installations</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
Installation Data Source Integration																												
Requirements Definition																												

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) BY3 / <i>Information Systems for Installations</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Installation Data Source Integration	1	2023	4	2027
Requirements Definition	1	2023	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) FL9 / <i>Army Accessioning IT Development</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
FL9: <i>Army Accessioning IT Development</i>	-	36.332	5.382	6.605	-	6.605	6.762	6.890	7.031	7.090	0.000	76.092
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Accessions Information Environment (AIE): In FY22, the AIE mission transitioned to RDTE PE 0605233A.

HRC Accessioning IT: Additionally, this program supports the development requirements for the US Army Human Resources Command (USAHRC) which provides the IT solutions and automation support necessary to accomplish the Army's Accessioning mission. The AIE acquisition program utilizes the DoD 500.75 business Capability Acquisition Cycle (BCAC) currently in the Requirements and Acquisition Planning Phase.

Army Suicide Prevention: This Program Element (PE) develops a pre-entry or entry assessment package that enhances the Soldier Lifecycle (e.g., selection, assignment, training, leader development). This PE enhances the Army's ability to identify individuals with a higher likelihood of having already experienced, or of potentially experiencing, sub-clinical behavioral issues, as well as to identify character strengths (e.g., resilience, grit), to ensure that the Army can meet mission requirements in the current and future operating environments. Research in this PE will result in more precise determinations of individual potential for future successful service, and more targeted identification of need for individual assistance (e.g., intervention, training, behavioral health) to increase likelihood of future success.

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

	FY 2021	FY 2022	FY 2023
Title: Accessions Information Environment (AIE)	32.411	-	-
Description: AIE will provide a fully integrated enterprise level COTS-based capability enabling transparency, efficiency and effectiveness of the accessions workforce to acquire the best-qualified talent to meet Army recruiting and accessions requirements. It will ultimately replace the current legacy Accessions IT systems that have been in existence for over 30 years, and which have experienced frequent outages and unstable performance since FY 2018.			
Title: HRC Accessioning IT	2.919	3.153	4.240
Description: Description: Funding supports the development requirements for the US Army Human Resources Command (USAHRC) which provides the IT solution and automation support necessary to accomplish the Army's Accessioning mission.			
The AIE acquisition program utilizes the DoD 5000.75 Business Capability Acquisition Cycle (BCAC) currently in the Requirements and Acquisition Planning Phase.			
FY 2022 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FL9 / <i>Army Accessioning IT Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Program funding for AIE in FY22 and beyond has transitioned to PE 0605233A; Project Number CP8. FY 2022 funds support the Army's accessioning mission to include the legacy cloud system capabilities for Army Recruiting Information Support System (ARISS) and successful implementation of AIE. Efforts are ongoing for Cloud migration/modernization and AIE technical analysis and documentation to support the accessioning mission. \$3,802M projected award to the contract for Jan 2022. FY 2022 SBIR/STIR column of the FY 22 RAP is non-zero.</p> <p>FY 2023 Plans: Program funding for AIE in FY22 and beyond has transitioned to PE 0605233A; Project Number CP8. FY 2023 funds support the Army's accessioning mission to include the legacy cloud system capabilities for Army Recruiting Information Support System (ARISS) and successful implementation of AIE. Efforts are ongoing for Cloud migration/modernization and AIE technical analysis and documentation to support the accessioning mission.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: AIM efforts required additional funding in support of AIE slippage. Additional funding is required to maintain legacy systems until AIE consumption and cArmy cloud migration efforts are completed.</p>				
<p>Title: Army Suicide Prevention</p> <p>Description: This Program Element (PE) develops a pre-entry or entry assessment package that enhances the Soldier Lifecycle (e.g., selection, assignment, training, leader development). This PE enhances the Army's ability to identify individuals with a higher likelihood of having already experienced, or of potentially experiencing, sub-clinical behavioral issues, as well as to identify character strengths (e.g., resilience, grit), to ensure that the Army can meet mission requirements in the current and future operating environments. Research in this PE will result in more precise determinations of individual potential for future successful service, and more targeted identification of need for individual assistance (e.g., intervention, training, behavioral health) to increase likelihood of future success.</p> <p>Work in this PE is performed by the U.S. Army Resiliency Directorate in Arlington, VA.</p> <p>FY 2022 Plans: This effort develops a pre-entry or entry assessment package, identifying risk of sub-clinical behavioral issues and identifying character strengths, to enhance the Soldier Lifecycle (e.g., selection, assignment, training, leader development). FY 2022 funding will support validation assessment of the instruments.</p> <p>FY 2023 Plans:</p>		1.002	2.030	2.365

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FL9 / <i>Army Accessioning IT Development</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
FY 2023 funds will support the continued assessment of sub-clinical behavioral issues and the identification of cross-cutting risk and protective factors and preventive approaches for harmful behaviors. Efforts are ongoing for Cloud migration/modernization of data and analytical tools. FY 2022 to FY 2023 Increase/Decrease Statement: Increased prevention efforts require additional funding to support studies and research.			
Title: FY22 SIBR/STTR Adjustments FY 2022 Plans: FY22 SIBR/STTR Adjustments FY 2022 to FY 2023 Increase/Decrease Statement: FY22 SIBR/STTR Adjustments	-	0.199	-
Accomplishments/Planned Programs Subtotals	36.332	5.382	6.605

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• BE4164: PERSONNEL AUTOMATION SYSTEMS	41.030	43.229	23.015	-	23.015	25.637	42.688	46.378	26.877	Continuing	Continuing
• OMA - AIE - OMA/331715000: Sustainment Support & CivPay	5.443	-	0.000	-	0.000	-	-	-	-	Continuing	Continuing

Remarks
Note, the (OPA) (BD3000/BE4164) line listed above includes AIE specific [FY20: \$19,878K, FY21: \$29,791K] to fund support fielding efforts, Commercial off the Shelf (COTS) Software Licenses, and Training. In more detail, FY22 and beyond rests within the new (OPA) (B45000/B45015).

D. Acquisition Strategy
Army Suicide Prevention:
The Army Suicide Prevention Pilot is an ongoing study on the efficacy of Resilience and Mindfulness training throughout the Army from Accessioning through IET to home station across an initial six Brigade Combat Teams, US Army Reserve units in the Joint Base San Antonio Area, and the South Carolina National Guard by using the BH Pulse tool, the Global Assessment Tool (GAT), and the efficacy of Resilience and Mindfulness training to baseline the Resilience of the unit. Data from the surveys will be used to tailor specific Resilience training on mitigating strategies to combat behaviors and risk contributing to Suicide.

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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 0605013A / Information Technology Development				FL9 / Army Accessioning IT Development								
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	
AIE - Management Services	C/FFP	Chenega Decision Services : Lorton, VA	7.319	3.223	Jun 2021	-		-		-		-	0.000	10.542	7.288	
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	0.089	-		-		-		-		-	0.000	0.089	-	
FY 2022 SBIR/STIR Transfer	TBD	Various : Various	-	-		0.199		-		-		-	0.000	0.199	-	
Subtotal			7.408	3.223		0.199		-		-		-	0.000	10.830	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	
AIE - COTS Based Solution Configuration and Development	C/FFP	Booz Allen Hamilton : Herdon, VA	19.878	18.059	Apr 2021	-		-		-		-	0.000	37.937	69.826	
AIE - System Partner Interface Development	TBD	TBD : TBD	0.572	8.784	Apr 2021	-		-		-		-	0.000	9.356	25.604	
Army Suicide Prevention	TBD	TBD : TBD	1.783	1.003		2.030	Feb 2022	2.365	Feb 2023	-		2.365	Continuing	Continuing	Continuing	
ARISS	C/CPPF	SAIC : Reston, VA	-	2.919	Jan 2021	3.153	Jan 2022	4.240		-		4.240	0.000	10.312	3.861	
Subtotal			22.233	30.765		5.183		6.605		-		6.605	Continuing	Continuing	N/A	
Support (\$ 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	
AIE - Cybersecurity - RMF, FedRAMP, ATO (IA/RMF Support)	TBD	TBD : TBD	0.050	1.744	Oct 2020	-		-		-		-	0.000	1.794	5.307	
Subtotal			0.050	1.744		-		-		-		-	0.000	1.794	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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FL9 / <i>Army Accessioning IT Development</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
HRC Accessioning IT	[Redacted]																											
Army Suicide Prevention	[Redacted]																											
Army Suicide Prevention with Resiliency from Accessioning to IET to Home Station	[Redacted]																											

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FL9 / <i>Army Accessioning IT Development</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
HRC Accessioning IT	2	2021	4	2026
Army Suicide Prevention	3	2020	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) FM7 / <i>Human Resources Information Technology</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
FM7: <i>Human Resources Information Technology</i>	-	8.597	12.971	11.574	-	11.574	11.803	9.462	9.606	9.681	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The efforts under this project support the Army's Human Resources Information Technology needs.

TRANSITION ASSISTANCE PROGRAM XXI (TAP XXI): The Transition Assistance Program XXI (TAP-XXI) application provides an interactive, multimedia approach to pre-separation counseling and job assistance training. This application uses full motion video, graphics, and sound to train clients; and schedules clients for classroom-type instruction. It integrates a complete range of transition services and benefits for service members, Department of Defense civilian employees, and their family members as they transition from the military. TAP-XXI is a web-based, three-tiered application with a centralized database for all Transition sites. The user interface is browser-based, the application is based on a storefront intranet model to provide access from within Transition centers. The user interface is browser-based, the application is based on a storefront intranet model to provide access from within Transition centers. The application also allows for access outside of Transition centers to support mobilizing and de-mobilizing during Yellow Ribbon Program events or delivery of services at home station. There is no application processing on the desktops located at Transition Centers. TAP-XXI application suite consists of the following subsystems: Transition Assistance Program - Support (TAP-Support), Transition Assistance Program -Online (TAP-Online) and TAP Virtual (Immersive Terf). The infrastructure modernization will provide system stability, support expansion requirements, and ensure reliable customer support.

Human Resource Command (HRC) Core IT: This program supports efforts to plan, design, develop, and test Information Technology (IT) solutions to fulfill the Army's Warfighter Support Mission, accommodate emerging Army requirements, and fulfill Future Army needs. Ongoing development efforts support multiple functional areas including logistics, personnel, transportation, training, medical/health protection, and the sustaining base. The focus of the rationalization effort is to identify value-added applications capable of serving a broader Army enterprise audience and garnering efficiencies through the elimination of outdated, legacy, and duplicative applications. Applications are upgraded or enhanced to meet compliance with Army Common Operating Environment standards in accordance with Army Application Management Business Office (AAMBO). Additionally, program supports enhancements and modifications to the Interactive Personnel Electronic Records Management System (iPERMS) and iPERMS-Secure (iPERMS-S), as well as development of interfaces based upon emerging requirements, Cybersecurity, functionality and compliance with Army standards.

R-Builder is a living application database system that allows the Manning Program Evaluation Group (MM PEG) to update the database to include various cost drivers and factors used for programming, budgeting for all Army Service members pay, allowances, and benefits for the all-volunteer Army. R-Builder is used to develop the annual Program Objective Memorandum -Budget Estimate Submission (POM-BES), and to develop and manage the Army's military and civilian personnel in order to execute the President's National Security Strategy.

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The Army Review Board Agency (ARBA) operates under the delegated authority of the Secretary of the Army as the final level of appeal for service members in uniform, veterans, and their family members, adjudicating tens of thousands of claimed errors or injustices annually. ARBA is staffed with 128 military personnel, civilians, and contractors, and additional 350 external Advisors and Boards Members. ARBA struggles with the substantial process and system-related inefficiencies. The Agency currently uses the ARBA Case Tracking System (ACTS) to facilitate case adjudication and the routing of corresponding hard copy case files (a.k.a. "redwelds"). This system was custom built in 1999, strictly for tracking the hand offs of redwelds. At its inception, ACTS was a huge leap forward; however, as the organization and technology evolved, the system has not been able to meet new Agency mission objectives and streamlining initiatives. This antiquated system costs the Agency multi-millions in annual sustainment fees and lacks the agility to address changing business requirements and organizational roles.

Army SHARP Data Management System (DMS) Integrated Case Reporting System (ICRS) enhancements will provide stabilization for sexual harassment (SH) data collection, reporting requirements, and analytic processes; ICRS maintains Army sexual assault (SA) legacy data collected prior to 2014 in the Sexual Assault Data Management System (SADMS) IAW public law.

ARIMS is the Army's policy and enterprise system deployed to meet statutory (36 CFR) and regulatory (AR 25-1, AR 25-400-2) requirements to manage records that document the policies, decisions, and actions of the Army both as a military department and federal institution. ARIMS supports approximately 58,000 (FY 2022) registered users with tools and capabilities to collect and preserve Army records, serves as the records management component of the Army Electronic Archives (AEA), and the Secretary of the Army has mandated its use to collect and preserve Army records. ARIMS is in production on the SIPRNet with ARIMS-Classified (ARIMS-C) to provide similar capabilities for the collection and preservation of the Army's classified records. ARIMS is an integrated system that supports the SecArmy objective to integrate management systems for the Army's records management programs and business operations. This line item funds for system, network, and application sustainment for the ARIMS and ARIMS-C infrastructure. Technology changes, integration, and systems migration require contractor support to ensure the AEA continues to preserve essential electronic records. These activities support the ARIMS applications and comply with the SecArmy and Senior Army leadership to integrate and standardize management systems for business operations. Failure to fund will result in the loss of expertise and in extensive down time in the event of any hardware or software failure in the ARIMS infrastructure. ARIMS downtime precludes the collection and preservation of the Army long-term important records (such as past Contingency Operations (CONOPS) records). As a web-based and customized GOTS system, ARIMS is dependent on private industry expertise to conduct troubleshooting and correction of any application or operating system component that is the foundation of the ARIMS and ARIMS-C systems. These skill sets are not maintained by government staff and must, by DoD directive (C3I), be acquired from the private sector.

Family Advocacy System of Records (FASOR) is the information system used by the Army to manage child and adult based abuse incidents referred by the Family Advocacy Program (FAP). FASOR is used to capture/perform incident case management and allows for standardization of reviews and incident determinations. FASOR is a key system used in FAP Army Central Registry (ACR) background checks when determining suitability of individuals to be placed into "positions of trust". Finally, FASOR facilitates reporting and data analysis in support of internal, Army, DoD, FOIA and Congressional requirements.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Title: ARIMS	0.429	1.025	2.174
Description: This funds contractor man-years for technical and analytical expertise in the integration and validation of operational databases used to store and research combat records from combat operations in Korea, Vietnam, Somalia, Panama, Persian			

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM7 / <i>Human Resources Information Technology</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Gulf, Afghanistan, Iraq, and other contingency operations. The effort supports over 30 distinct and unique operational databases that directly support research into Veteran claims for Post-Traumatic Stress Disorder, Agent Orange, and other medical conditions developed by Soldiers during combat and non-combat operations. Supports the Army's Data Center Consolidation by turning data base structure to be more efficient and reduce maintenance support costs.</p> <p>Increased Congressional inquiries and litigation have raised leadership awareness of the need to improve records management compliance Army-wide. SecArmy directed workgroup, led by the AASA, with participation by the CIO/G-6, NETCOM, OGC, and OCLL is to provide a comprehensive solution for the Army and integrate and standardize management systems for the Army's business operations. Enhancing and modernizing of existing ARIMS functionality and capability to support the SecArmy initiative includes updating ARIMS to support current technology such as Microsoft SharePoint environment, expanding storage capability, including network storage , and commensurate expansion of backup, security and communications capabilities over CONUS and OCONUS networks.</p> <p>FY 2022 Plans: This line item funds contractor man-year for Middleware Software Engineering for the programming and integration of linkages between ARIMS, Army Information Systems and NARA's Gateway, that generate or store long-term important records as part of functional business processes. Failure to fund at the requested level will preclude the efficient, effective, and transparent capture and preservation of important Army records generated by Army Information Systems. Without this capability, Army Information System managers will be required to manually extract and index records for submission and preservation in the ARIMS system. This effort supports the ADCCP program to ensure efficient use of Army resources and fulfill RMDA's mission. SIBR/STTR Transfer of \$39K</p> <p>FY 2023 Plans: Funds are used to sustain technology refresh efforts ensuring the Army's records comply with statutory and regulatory requirements, preserves individual record integrity, mitigates the risk of historical information loss, and ensures official Army records are available for Congressional, Government Accountability Office, Executive Branch, and FOIA requirements. We fund contractor man-years to sustain this system through an IT Services contract (W15QKN-19-F-0975-P00005).</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase in funding from \$1,064K in FY22 to \$2,098K in FY23 is to respond to OMB 19-21 mandates in expansion of records submission and preservation.</p>				
Title: Army SHARP Data Management		-	0.996	1.086
Description: Army SHARP Data Management System (DMS) Integrated Case Reporting System (ICRS) enhancements will provide stabilization for sexual harassment (SH) data collection, reporting requirements, and analytic processes; ICRS maintains				

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM7 / <i>Human Resources Information Technology</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Army sexual assault (SA) legacy data collected prior to 2014 in the Sexual Assault Data Management System (SADMS) IAW public law.</p> <p>FY 2022 Plans: Enable Army leaders at all levels to manage ICRS data through E-Document Format and documents upload capabilities within ICRS. Increase data element in ICRS and complete the Sexual Assault Data Management (SADMS) integration of data into ICRS. Support Advanced Analytics capabilities, increase business intelligence capabilities, and support predictive analysis for SHARP Data. Automate SHARP ICRS Reporting capabilities and facility integration of EORS system in to ICRS. SIBR/STTR Transfer \$38K</p> <p>FY 2023 Plans: Maintain ability of Army leaders at all levels to manage ICRS data through E-Document Format and documents upload capabilities within ICRS. Increase support of Advanced Analytics capabilities, increase business intelligence capabilities, and support predictive analysis for SHARP Data to inform increased Prevention efforts.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase from FY2022 to FY2023 for data analytics and business intelligence capabilities.</p>				
<p>Title: Family Advocacy System of Records (FASOR)</p> <p>Description: Family Advocacy System of Records (FASOR) is the information system used by the US Army FAP to support adult and child abuse incident management, central registry of victims and offenders to authorized agencies, and to provide input for required Congressional and public reporting. FASOR is the authoritative source (registry) for all incidents of adult and child abuse in the Army. It is on the Army Human Resource Command's High Value Asset list.</p> <p>FY 2022 Plans: Continue efforts to translate and modernize FASOR, as well as rehost it in a .MIL Cloud environment. Continue sustainment of legacy system until FASOR is accredited and implemented in the Cloud. SIBR/STTR Transfer of \$54K</p> <p>FY 2023 Plans: Continue efforts to translate and modernize FASOR. Continue sustainment of legacy system until FASOR is accredited and implemented in the Cloud.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase due to projected slight cost increases in requirements.</p>		1.428	1.409	1.515
<p>Title: HRC Core IT</p>		5.547	7.978	5.652

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM7 / <i>Human Resources Information Technology</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Description: HRC Core IT: This program supports efforts to plan, design, develop, and test Information Technology (IT) solutions to fulfill the Army's Warfighter Support Mission, accommodate emerging Army requirements, and fulfill Future Army needs. Ongoing development efforts support multiple functional areas including logistics, personnel, transportation, training, medical/health protection, and the sustaining base.</p> <p>FY 2022 Plans: FY 2022 funding continues to support iPERMS application efforts to replace the functionality of Store and Forward (SnF) servers and implement the Reduction Manual Indexing capability, and ASBS 2.0 development which also supports DA G1 Talent Management Task Force Battalion Command Assessment Program (BCAP). Additionally, USAHRC will utilize FY 2022 to funding to complete rationalize data and databases to achieve the Army Data Strategy, modernizing applications to leverage authoritative data sources to reduce duplicate application capabilities, resulting in data and applications requiring fewer infrastructure services. This data and application rationalization allows USAHRC to operate a standard infrastructure, reducing hardware and software complexities and meets compliance with Army Common Operating Environment standards in accordance with Army Application Management Business Office (AAMBO). SBIR/STTR Transfer of \$343K.</p> <p>FY 2023 Plans: FY 2023 funding continues to support iPERMS application efforts to replace the functionality of Store and Forward (SnF) servers and implement the Reduction Manual Indexing capability, and ASBS 2.0 development which also supports DA G1 Talent Management Task Force Battalion Command Assessment Program (BCAP). Additionally, USAHRC will utilize FY 2022 to funding to complete rationalize data and databases to achieve the Army Data Strategy, modernizing applications to leverage authoritative data sources to reduce duplicate application capabilities, resulting in data and applications requiring fewer infrastructure services. This data and application rationalization allows USAHRC to operate a standard infrastructure, reducing hardware and software complexities and meets compliance with Army Common Operating Environment standards in accordance with Army Application Management Business Office (AAMBO).</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding decrease addresses iPERMS modernization efforts to reduce manual indexing through auto capture, and auto file technology which will automatically file Soldier documents into the Soldier's AMHRR.</p>				
<p>Title: SFL-TAP XXI Modernization</p> <p>Description: Transition Assistance Program (TAP) XXI Modernization - Modernize outdated application in order to create efficiencies and incorporate industry standards.</p> <p>FY 2022 Plans:</p>		1.193	1.089	1.147

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM7 / <i>Human Resources Information Technology</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Unable to obligate FY 20 funds due to the delay in receiving approval of the Capability Requirements Document (CRD) from DASA-CE until March 2020 . Specific work for FY21 includes development / addition of: 1. Produce Intake Form Integration, 2. Case Synopsis Module; 3. New Data Elements; 4. Reporting Module; 5. Cybersecurity Requirements. Specific work for FY22 includes development / addition of:1. Forms Upload Enhancements (MFR & DA Form 7746) 2. Data Warehouse Install 3. Ad Hoc Reporting & Predictive Analytics 4. User Management Module 5. Cybersecurity Requirements.</p> <p>FY 2023 Plans: Due to the delay in receiving approval of the Capability Requirements Document (CRD) from DASA-CE until March 2020 . Specific work for FY21 includes development / addition of: 1. Produce Intake Form Integration, 2. Case Synopsis Module; 3. New Data Elements; 4. Reporting Module; 5. Cybersecurity Requirements. Specific work for FY22 includes development / addition of:1. Forms Upload Enhancements (MFR & DA Form 7746) 2. Data Warehouse Install 3. Ad Hoc Reporting & Predictive Analytics 4. User Management Module 5. Cybersecurity Requirements these actions will be implemented in FY 2023 to complete.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase funds specific work for development / addition of: 1. Produce Intake Form Integration, 2. Case Synopsis Module; 3. New Data Elements; 4. Reporting Module; 5. Cybersecurity Requirements as well as development / addition of:1. Forms Upload Enhancements (MFR & DA Form 7746) 2. Data Warehouse Install 3. Ad Hoc Reporting & Predictive Analytics 4. User Management Module 5. Cybersecurity Requirements these actions will be implemented in FY 2023.</p>				
Title: FY22 SIBR/STTR Adjustments		-	0.474	-
FY 2022 Plans: FY22 SIBR/STTR Adjustments				
FY 2022 to FY 2023 Increase/Decrease Statement: FY22 SIBR/STTR Adjustments				
Accomplishments/Planned Programs Subtotals		8.597	12.971	11.574
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) FM7 / Human Resources Information Technology
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Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
SFL--TAP	TBD	To Be Determined : To Be Determined	-	0.615		0.652		0.850		-		0.850	0.000	2.117	-
SBIR/STTR	TBD	TBD : TBD	-	-		0.474		-		-		-	0.000	0.474	-
Subtotal			-	0.615		1.126		0.850		-		0.850	0.000	2.591	N/A

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
ARIMS	TBD	TBD : TBD	-	0.429		1.025		2.174		-		2.174	Continuing	Continuing	Continuing
Army SHARP Data Management	TBD	Data Management : TBD	-	-		0.996		1.086		-		1.086	Continuing	Continuing	Continuing
SFL-TAP	TBD	To Be Determined : To Be Determined	-	0.578		0.437		0.297		-		0.297	0.000	1.312	-
HRC Core IT	TBD	To Be Determined : To Be Determined	3.656	5.547		7.978		5.652		-		5.652	0.000	22.833	-
Subtotal			3.656	6.554		10.436		9.209		-		9.209	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
G-1 Requirements Builder (RBuilder)	TBD	TBD : TBD	1.346	-		-		-		-		-	0.150	1.496	-
Family Advocacy System of Records (FASOR)	TBD	TBD : TBD	1.738	1.428		1.409		1.515	Oct 2022	-		1.515	Continuing	Continuing	Continuing
Subtotal			3.084	1.428		1.409		1.515		-		1.515	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
HRC Core IT	[Redacted]																											
SFL-TAP XXI Modernization	[Redacted]																											
ARIMS	[Redacted]																											
Army SHARP Data Management	[Redacted]																											
ARBA	[Redacted]																											
G-1 Requirements Builder	[Redacted]																											
FASOR	[Redacted]																											

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM7 / <i>Human Resouces Information Technology</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
HRC Core IT	4	2020	4	2026
SFL-TAP XXI Modernization	1	2020	4	2026
ARIMS	1	2020	4	2024
Army SHARP Data Management	1	2020	4	2026
ARBA	2	2020	4	2022
G-1 Requirements Builder	1	2020	4	2022
FASOR	1	2020	4	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) FM8 / <i>Information Technology for Training Systems</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
FM8: <i>Information Technology for Training Systems</i>	-	37.011	62.969	57.108	-	57.108	26.073	3.488	3.541	3.576	0.000	193.766
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds information technology systems that support Army Training. The five systems under FM8 are described below. Of those, the Army Training Information System (ATIS) is the Army's priority and the focus of the major investment in FM8. ATIS directly supports two of the four Army Unit Readiness Priorities - Training and Leader Development and serves as an enabler for Manning and Equipping.

1. Army Training Information System (ATIS). The Army currently lacks an enterprise level Common Operational Picture (COP) of the training environment. The ATIS is designated a Defense Business System (DBS) that will develop, integrate, test, deliver, operate, and maintain an enterprise capability for the Army training and education communities. Existing training information systems do not provide Commanders, leaders, Soldiers, and civilians a centralized COP of the training environment that enables persistent, consistent access to the Training and Education information and products necessary to support readiness to meet emerging threats. Annual costs to maintain current legacy systems is ~\$75 million. Without ATIS, Army organizations will continue to develop and maintain a multitude of training information systems that are not part of an enterprise, thus inhibiting efficient use of training resources, (people, time, money, material) that directly impacts the ability for units to meet readiness objectives.

ATIS is currently operating under the Defense Business System (DBS) pathway under DoDI 5000.75. Going forward ATIS will continue to operate under DoDI 5000.75, as well as utilize aspects of the Software Acquisition pathway, DoDI 5000.87. This hybrid pathway is designed to provide rapid development and deployment of software running on commercial hardware, including modified hardware, and cloud computing platforms.

Once fully-fielded, ATIS will sunset the functionality in 28 primary and 70 supporting information training systems with a single, integrated, user-friendly and technologically current system that will support management of the following training functions for 1.8 million users:

- Training Development. Provides ability to develop and coordinate information, including training packages, training events, courses, and exercises.
- Training Management. Provides centralized ability to access and manage information, including individual and collective/unit training that supports mission tasks and individual training records.
- Enterprise Scheduling. Provides a single integrated set of applications to schedule training resources, including transportation, classrooms, ranges, supplies, and mandated legal/social individual and unit training.
- Content Management. Provides centralized access to training information anytime, anywhere, including educational and professional instruction.
- Resource Management. Provides ability to manage availability/sustainability of training enablers and resources.

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<p>With a revised roadmap that builds upon the lessons learned ATIS will compete a Lead System Integrator (LSI) that once awarded, will demonstrate the viability and effectiveness of the Army Learning Management Capability.</p> <p>Minimum Viable Capability Release 1 (MVCR1) 3Q FY23 Under this MVCR ATIS will deliver the full capabilities of the Army Learning Management System (ALMS) and begin the incremental delivery of portions of the Army Training Management Capability (ATMC) with the initial focus being Individual Training Records.</p> <p>The annual release of the MVCRs will continue throughout the lifecycle of ATIS.</p> <p>***NOTE: The next five systems are not part of the ATIS Development program.***</p> <p>2. DLPT5 Content Analysis, Categorization & Modeling (CACM). The DLPT5 Content Analysis, Categorization, and Modeling (CACM) contract is in direct response to DLIFLC's DoD Instruction assigned responsibilities for DLPT item bank maintenance, psychometric analysis, and informed pool management, and closely support the DLPT Validity Framework. This project enhances the DLIFLCs ability to efficiently execute high quality DLPT development processes through the integration of benchmark automation capabilities. Accomplishments include: developed and delivered ordered similarity analysis capabilities; developed and delivered integrated audio quality analysis capabilities; developed and delivered unordered similarity analysis capabilities; developed and delivered integrated Auto-ILR capabilities in 15 languages; developed and delivered integrated machine transcription capabilities in 6 languages; developed and delivered advanced text analytics capabilities; developed and delivered integrated grade level lookup capabilities; developed and delivered annotator alignment analysis capabilities in 2 languages.</p> <p>3. Universal Course Authoring Tool / The UCAT (Universal Curriculum and Assessment Tool) will serve as the primary curriculum and assessment development tool for curriculum development projects in meeting the directives from higher headquarters to transition into a new, digital learning environment. UCAT will support the delivery of curriculum and assessment products on a variety of different platforms in support of both resident and non-resident programs. UCAT consists of server-side applications and associated web services, databases, and client-side components which are currently under development.</p> <p>4. The Army Career Tracker is leader development tool that leverages Army's prior investments to integrate education, training, assignment, self-development and other systems by linking these valuable technologies and resources into a common user-friendly portal across 1.35 million users consisting of enlisted, officers, and civilians. Users can search multiple education and training resources, monitor career development, and receive advice from their leadership. ACT provides single-site, easy access, and offers a complete and personalized career picture not available until now. ACT allows users to manage career objectives and monitor progress towards career requirements and goals. ACT provides an integrated approach to supporting military and civilian personnel's personal and professional development which capitalizes on the mutual (personnel and Army) need for life-long learning. The unique inter-relationship between the user's personal growth and development, and the Army's need for Soldiers to be continuously developing, building and cultivating a culture of life-long learning is critical for the Soldier's and Army's success. Users manage their lifelong learning career objectives, monitor progress towards career development and goals, search multiple Army education and training resources, and receive personalized advice from their supervisor and Army leadership. Completed development will modernize the Army Career Tracker (ACT) system to render web pages correctly base on the size of the screen. Responsive Web Design (RWD) is an approach to web design that renders web pages based on the size of the device's display screen (e.g., computer, tablet, and phone). This allows the site to load quickly and ensures the display appears as if it were made expressly for the device being used. RWD improves user experience by displaying messages, links, and controls in a logical manner regardless of the device. The actual presentation may not look the</p>		

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same across different devices; rather the rendering will depend on the Operating System (OS), screen size, screen resolution, and other factors. Implementing RWD on ACT would be a step forward toward allowing ACT to render better on tablets and other mobile devices (e.g., mobile phones).

5. Enhancement of Army Training Models (ATM) will provide the resources to build and sustain readiness requirements in a standardized process for automated methodology development and resource allocation in support of the Army's training needs.

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

	FY 2021	FY 2022	FY 2023
<p>Title: Army Training Information System (ATIS)</p> <p>Description: Army Training Information System (ATIS) is a Defense Business System that will provide a common operational picture (COP) of the training environment in five integrated and interoperable capability areas: Training Development; Training Management; Training Enterprise Scheduling; Learning Content Management and Training Resource Management. These capabilities will enable Commanders, leaders, Soldiers, and civilians to better understand, visualize, describe, direct, lead, and assess training requirements so that they can more effectively plan, prepare, execute, and assess training. End result is an ATIS that enables Soldiers to train as they will fight, so they can effectively fight as they have trained.</p> <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> - Some of the funds will be reserved to pay for the allowable costs to include litigation costs as a result of terminating the contract. - Funds will be used to restructure the existing software design architecture while leveraging the Army cloud and enterprise services. This includes data migration for Training Development, Training Management, and Learning Content Management capability. <p>SBIR/STTR Transfer of \$2.238M</p> <p>FY 2023 Plans:</p> <p>Design and Development</p> <ul style="list-style-type: none"> - Funds will be used for the new Lead System Integrator (LSI) to assemble software architecture, infrastructure, services, pipelines, development, and test platforms in support of the minimum viable capability release (MVCR) to deliver Training Management capability to include interfaces and data lakes. Given that the Agile Software Development Methodology will be used, the insight derived from the MVCR will help shape scope, requirements, and design in future releases. <p>Management Services</p> <ul style="list-style-type: none"> - Funds will be used to procure professional staff, software development teams, (~20-30 FTEs) supporting the ATIS product management office in oversight of the development of ATIS and the sunsetting of legacy systems. <p>Support Services</p> <ul style="list-style-type: none"> - Funds will continue to procure cloud services via the Cloud Account Management Optimization (CAMO) record with the Department of the Army Enterprise Cloud Management Agency. <p>Testing and Evaluation</p>	34.943	59.078	55.478

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>- User test points will be conduct throughout the year, analysis gathered, and modifications made based upon feedback received. Every MVCR will consist of multiple user test points.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The decrease in funding between FY22 and FY23 is supported by a Program Office Estimate (POE) review conducted and approved Nov 2021. The POE focused on a revised scheduled closely aligned to DODI 5000.87. The funding in FY23 will support cloud storage services, Program Management Support Services, Testing and Evaluation, and the awarding of a Lead System Integrator (LSI) (3Q) contract. The Lead System Integrator contract will replace the current system developer, Peraton.</p>				
<p>Title: DLPT5 Content Analysis, Categorization & Modeling</p> <p>Description: Development of DLPT5 Content Analysis, Categorization and Modeling (CACM) capabilities. For integration within the DLIFLC MIT LL TIDWA Domino system. These capabilities are in direct response to DLIFLC?s DoDI assigned responsibilities for DLPT item bank maintenance, psychometric analysis and informed pool management, and closely support the DLPT Validity Framework.</p> <p>FY 2022 Plans: Create Automatic Comment & Content Coding and add Psychometric Analytic Tools. SIBR/STTR Transfer of \$61K.</p> <p>FY 2023 Plans: - initiate development of Topic modeling capabilities - initiate development of predictive modeling capabilities</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increased due to the development of Topic modeling capabilities and predictive modeling capabilities.</p>		1.151	1.400	1.517
<p>Title: Universal Course Authoring Tool (UCAT)</p> <p>Description: The UCAT (Universal Curriculum and Assessment Tool) will serve as the primary curriculum and assessment development tool for curriculum development projects in meeting the directives from higher headquarters to transition into a new, digital learning environment. UCAT will support the delivery of curriculum and assessment products on a variety of different platforms in support of both resident and non-resident programs. UCAT consists of server-side applications and associated web services, databases, and client-side components which are currently under development.</p>		0.240	-	-
<p>Title: Army Career Tracker</p> <p>Description: The Army Career Tracker is leader development tool that leverages Army?s prior investments to integrate education, training, assignment, self-development and other systems by linking these valuable technologies and resources into a</p>		0.195	0.192	0.113

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
common user-friendly portal across 1.35 million users consisting of enlisted, officers, and civilians. Modify the existing Individual Development Plan (IDP) feature in the Army Career Tracking system.			
FY 2022 Plans: Continued modernization and enhancements of the Army Training Models			
FY 2023 Plans: Continued modernization and enhancements of the Army Training Models.			
FY 2022 to FY 2023 Increase/Decrease Statement: Decreased due to less enhancements of the Army Training Models.			
Title: Enhancement of Army Training Models (ATM) Description: Enhancement of Army Training Models (ATM) will provide the resources to build and sustain readiness requirements in a standardized process for automated methodology development and resource allocation in support of the Army's training needs.	0.482	-	-
Title: FY22 SBIR/STTR Transfer FY 2022 Plans: FY22 SBIR/STTR Transfer FY 2022 to FY 2023 Increase/Decrease Statement: FY22 SBIR/STTR Transfer	-	2.299	-
Accomplishments/Planned Programs Subtotals	37.011	62.969	57.108

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

N/A

Remarks

C. Other Program Funding Summary (\$ in Thousands) is listed below as a memo since ATIS is a child from the parent line, OPA2/BD3000.

		FY2022	FY2023	FY2024	FY2025	FY2026
Army	BE4162 - OPA2/BD3000/BE4162/MACOM AUTOMATION SYSTEMS	1,018	0	0	0	0

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</i>

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

Legacy systems that will be subsumed by the Army Training Information System (ATIS) are listed below. Annual cost to maintain these systems is ~\$75M.

Acronym System Name

1. ACT - Army Career Tracker (IDP and PDM only).
2. AIRS - Army IMCOM Reservation System.
3. ARM - Army Range Mapper - JMTC/TSAE (EUR).
4. ARTIMS - Army Training Information Management (NIPRnet version Only).
5. ATHD - Army Training Help Desk.
6. ATIA - Army Training Information Architecture.
7. ATLAS - Army Training and Learning Assessment System.
8. ATMS - Army Training Management System.
9. CAMP - Career Acquisition Management Portal.
10. DLRS-T - Distributed Learning Reporting and Scheduling Tool.
11. DLS - Distributed Learning System (Army Learning Management System).
12. ECDC - Enterprise Content Development Capability.
13. ESC - Enterprise Scheduling Capability. The Enterprise Scheduling Capability (ESC) (Interim) is used
14. GTIMS - Graduate Training Integration Management System (Aviation Resource Training System - ARTS)
15. IDMS - Inventory and Distribution Management System
16. LLC - Lifelong Learning Center
17. RFMSS - Range Facility Management Support System
18. SCINI - IMCOM Senior Commander Installation Needs and Issues
19. SMS - CGSC -Student Management System- Command and General Staff College
20. SRP GIS TK - Sustainable Range Program (SRP) Geographic Information System (GIS) ToolKit
21. SRPP - SRPWeb Portal
22. SWT - System Training Plan (STRAP) Writing Tool
23. TD2QA - Training and Doctrine Development Quality Assurance Management System
24. TDC - Training Development Capability
25. TMSS-E - Training Management Scheduling System - Enterprise
26. TSIMS - Training Support Information Management System *identified as a system to feed HQDA Training COP
27. TS-MATS - Training Support Materiel Army-wide Tracking System
28. WEB TED - Web Based Total Employee Development System

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</i>

D. Acquisition Strategy

The Army Training Information System (ATIS) ATIS employs an acquisition approach aligned with DoDI 5000.75 Business Systems Requirements and Acquisition and Title 10 section 2222 requirements for covered Defense Business Systems (DBS); however,

- ATIS will utilize a mixture of Commercial off-the-shelf (COTS) and Government off-the-shelf (GOTS) solutions, it will model the acquisition approach that focuses on using:
 - * Flexible and adaptable requirements approach
 - * Smaller and more frequent releases
 - * Regular prioritization of needs
 - * Greater flexibility to accommodate adoption of new enabling technologies and services
- ATIS will use the five-phased Business Capability Acquisition Cycle (BCAC) that represents the governing process, but will apply modern software development methods to include Scaled Agile Framework (SAFe) release approaches that align with the concept that "software is never done".

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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 0605013A / Information Technology Development				FM8 / Information Technology for Training Systems							
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
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	0.692	-		-		-		-		-	0.000	0.692	-
ATIS Interface Agreements	MIPR	Various : Various	-	-		0.126		-		-		-	0.000	0.126	-
ATIS Program Management Office	C/FFP	ATIS Program Management Office : Newport News, VA	0.332	0.367	Jan 2021	7.275		11.800		-		11.800	Continuing	Continuing	Continuing
ATIS MITRE Support	MIPR	W4GV USA HQ COMM ELECT CMD : Aberdeen Proving Grounds, MD	-	-		1.300		1.883		-		1.883	Continuing	Continuing	Continuing
SBIR/STTR	TBD	TBD : TBD	-	-		2.299		-		-		-	0.000	2.299	-
Subtotal			1.024	0.367		11.000		13.683		-		13.683	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
ATIS Product Development Contract	C/FPIF	Perspecta Enterprise Solutions LLC : Herndon, VA	14.836	34.461	Feb 2021	47.541		-		-		-	0.000	96.838	-
ATIS Lead System Integrator (LSI) Contract	C/TBD	To Be Determined : To Be Determined	-	-		-		40.367		-		40.367	Continuing	Continuing	Continuing
DLPT5 Content Analysis, Categorization & Modeling	TBD	TBD : TBD	-	1.151		1.400		1.517		-		1.517	Continuing	Continuing	Continuing
Universal Curriculum and Assessment Tool	TBD	TBD : TBD	-	0.240		-		-		-		-	Continuing	Continuing	Continuing
Army Career Tracker	TBD	TBD : TBD	-	0.195		0.192		0.113		-		0.113	Continuing	Continuing	Continuing
Enhancement Army Training Models (ATM)	TBD	To Be Determined : To Be Determined	-	0.482		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			14.836	36.529		49.133		41.997		-		41.997	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</i>
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			

Remarks
Originally the additional funding of \$26.6M from FY 2021 Congressional adjusted funding to FY 2022 was driven by a significant increase in FY 2022 developmental efforts in support of Release 2 (R2). Since that time the decision was made to terminate the contract due to the vendor being able to only deliver a fraction (17%) of the Release 1 (R1) capabilities. The funds will now be reserved to pay for the allowable costs associated with litigation as a result of terminating the contract. The remaining funds will be used to restructure the existing software design architecture while leveraging the Army cloud and enterprise services. This includes data migration for Training Development, Training Management, and Learning Content Management capability.

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
ATIS Cloud Services: CAMO (Cloud Account Management Optimization Agreement (CAMO))	MIPR	AWS : PEO EIS, FT. Belvoir, VA 22060	-	-		2.355		1.428		-		1.428	Continuing	Continuing	Continuing
Subtotal			-	-		2.355		1.428		-		1.428	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
ATIS - System Test and Evaluation	MIPR	Army Test and Evaluation Center : Aberdeen Proving Grounds, Maryland	-	0.115	Dec 2020	0.481		-		-		-	Continuing	Continuing	Continuing
Subtotal			-	0.115		0.481		-		-		-	Continuing	Continuing	N/A

			Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			15.860	37.011	62.969	57.108	-	57.108	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army							Date: April 2022			
Appropriation/Budget Activity 2040 / 5			R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>			Project (Number/Name) FM8 / <i>Information Technology for Training Systems</i>				
	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	

Remarks
 Cost category that has "ATIS" supports the ATIS Product Development.

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</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
ATIS: Contract Terminated/Environment Transition to the Govt					▲ 1 Contract Terminated																							
ATIS: Establish New Cloud Environment					▲ 2 Cloud																							
ATIS: Build Contracted Support Software Development Teams					▲ 3 CSSDT																							
ATIS: Establish and Build Data Centric Architecture					▲ 4 Cloud Development																							
ATIS: Army Learning Mgmt Sys (ALMS) Migration					▲ 5 ALMS																							
ATIS: Iteratively Build Training Mgmt Capability					▲ 6 TMC																							
ATIS: Select Lead System Integrator Development Contract (LSI)					▲ 7 LSI																							
ATIS: Testing and Evaluation (TE) MVCR1 (Continuous User Touch Points)					▲ 8 TE MVCR1																							
Lead System Integrator (LSI) Contract Performance					▲ 9 LSICP																							
ATIS: Minimum Viable Capability Release 1 (MVCR1)					▲ 10 MVCR1																							
ATIS: Testing and Evaluation (TE) MVCR2					▲ 11 TE MVCR2																							
ATIS: Minimum Viable Capability Release 2 (MVCR2)					▲ 12 MVCR2																							
ATIS: Testing and Evaluation (TE) MVCR3					▲ 13 TE MVCR3																							

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</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				
ATIS: Minimum Viable Capability Release 3 (MVCR3)																					5 MVCR3											
ATIS: 28 Legacy System Sunset (Full Deployment)																					6 FD											
ATIS: Testing and Evaluation (TE) MVCR4																					TE MVCR4											
ATIS: Minimum Viable Capability Release 4 (MVCR4) - Continuous SW Development																					7 MVCR4											
ATIS: Testing and Evaluation (TE) MVCR5																					TE MVCR5											
ATIS: Minimum Viable Capability Release 5 (MVCR5) - Continuous SW Development																					8 MVCR5											

Note
 - Acquisition Authority-to-Proceed occurred on 24 Mar 2020
 - Contract Award occurred on 14 May 2020

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ATIS: Functional Requirements Authority to Proceed (ATP)	2	2017	2	2017
ATIS: Acquisition Authority to Proceed (ATP)	2	2020	2	2020
ATIS: Contract Award	3	2020	3	2020
ATIS: Contract Terminated/Environment Transition to the Gov't	1	2022	1	2022
ATIS; Establish New Cloud Environment	2	2022	2	2022
ATIS: Build Contracted Support Software Development Teams	2	2022	4	2023
ATIS: Establish and Build Data Centric Architecture	2	2022	3	2022
ATIS: Army Learning Mgmt Sys (ALMS) Migration	3	2022	4	2023
ATIS: Iteratively Build Training Mgmt Capability	2	2022	3	2025
ATIS: Select Lead System Integrator Development Contract (LSI)	3	2022	2	2024
ATIS: Testing and Evaluation (TE) MVCR1 (Continuous User Touch Points)	3	2022	3	2023
Lead System Integrator (LSI) Contract Performance	2	2024	2	2029
ATIS: Minimum Viable Capability Release 1 (MVCR1)	3	2023	3	2023
ATIS: Testing and Evaluation (TE) MVCR2	4	2023	4	2024
ATIS: Minimum Viable Capability Release 2 (MVCR2)	4	2024	4	2024
ATIS: Testing and Evaluation (TE) MVCR3	4	2024	4	2025
ATIS: Minimum Viable Capability Release 3 (MVCR3)	4	2025	4	2025
ATIS: 28 Legacy System Sunset (Full Deployment)	4	2025	4	2025
ATIS: Testing and Evaluation (TE) MVCR4	4	2025	4	2026
ATIS: Minimum Viable Capability Release 4 (MVCR4) - Continuous SW Development	4	2026	4	2026
ATIS: Testing and Evaluation (TE) MVCR5	4	2026	4	2027
ATIS: Minimum Viable Capability Release 5 (MVCR5) - Continuous SW Development	4	2027	4	2027

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM8 / <i>Information Technology for Training Systems</i>

Note
ATIS - The ATIS program will be officially baselined at the Limited Deployment - Acquisition Authority to Proceed (LD ATP) at the end of Release 1. The objective system is reached upon reaching full deployment in FY24.

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

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM9 / <i>Information Technology for Criminal Investigations</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
FM9: <i>Information Technology for Criminal Investigations</i>	-	1.190	1.226	1.273	-	1.273	1.280	1.291	1.305	1.318	0.000	8.883
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project Criminal Investigation Management System (CIMS) is to develop, maintain, and operate a secure, unified comprehensive system of applications to support the Army's law enforcement mission.

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

	FY 2021	FY 2022	FY 2023
Title: Criminal Investigative Management System (CIMS)	1.190	1.181	1.273
<p>Description: Criminal Investigative Management System (CIMS). CIMS, formerly known as the Law Enforcement Advisory Program (LEAP), is a collection of mission essential information technology (IT) systems within the United States Army Criminal Investigation Command (USACIDC) and the Office of the Provost Marshal General (OPMG). Through CIMS, the USACIDC and the OPMG developed an integrated and unified, comprehensive enterprise program / system that houses both classified and unclassified Law Enforcement Sensitive (LES) data. CIMS leverages existing and future Army Law Enforcement (LE) enterprise information technology (IT) assets and other external data sources providing a full range of law enforcement functions to support business objective and mission. The primary component is a comprehensive enterprise system known as the Army Law Enforcement Reporting and Tracking System (ALERTS) providing Army LE stakeholders the enhanced capability to rapidly and efficiently manage a variety of LE and criminal intelligence functions as well as a broader range of senior executive reporting requirements. The Consolidated Operation Police Suite (COPS) was previously comprised of five separate applications: two of these applications have been rationalized under ALERTS: two of these applications have been consolidated into one and modernized under CIMS: the remaining application requires modernization to ensure continued function and security compliance. The Deserter Verification Information System (DVIS) is being modernized and rationalized under CIMS. RDT&E dollars are required to further enhance and enable CIMS consolidation/rationalization of LE applications thereby providing the LE community the tools to more quickly, investigate, solve, and prevent Army crime while also facilitating the management of those placed in correction facilities. At present, all requested CID RDT&E funding in program element 0606013A will be applied to CIMS initiatives.</p> <p>FY 2022 Plans: The FY2022 funds will be utilized to continue the modernization and rationalization of the final Consolidated Operation Police Suite (COPS) application (Detainee Reporting System (DRS)) into CIMS; continue the incorporation of the Defense Forensics Management Exchange (DFME) system consisting of three applications ? Evidence Management Portal (EMP), Evidence</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM9 / <i>Information Technology for Criminal Investigations</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>Collection Management Extended (ECMX), and Next Generation Identification (Livescan/Fingerprints) into the CIMS environment. The three applications provide evidence collection and management to different branches of the military as well as the transmission of fingerprint data to the FBI's National Crime Information Center (NCIC) for the prevention of firearms by individuals convicted of a criminal offense. The funds will also be utilized to begin the application modernization of the Army Law Enforcement Reporting and Tracking System (ALERTS), case management system.</p> <p>FY 2023 Plans: The major component of CIMS, ALERTS, is over 5 years old and requires a major rewrite of the software application and back-end database to ensure it maintains its operational efficiency, security requirements, and ability to support the LE stakeholder community will be started during FY 2023 and continue through the following FY. Rationalization and rewrite of the classified application, Detainee Reporting System, into CIMS will be completed during FY 2023.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase in funding from FY22 to FY23 is do to inflationary cost of mission.</p>			
<p>Title: FY22 SBIR/STTR Transfer</p> <p>FY 2022 Plans: FY22 SBIR/STTR Transfer</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: FY22 SBIR/STTR Transfer</p>	-	0.045	-
Accomplishments/Planned Programs Subtotals	1.190	1.226	1.273

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• OMA - Firm Fix Price: <i>Labor IT Support Services</i>	-	1.181	4.700	-	4.700	-	-	-	-	0.000	5.881

Remarks
OMA dollars are used for the operations and maintenance of the CIMS environment which includes ensuring the mission applications are operational and available 24 hours 365 days per years. It includes server patching with the latest security patches, backing up the data, providing customer service through a CIMS Help Desk, creating/deleting user accounts, monitoring the health of the server environment.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM9 / <i>Information Technology for Criminal Investigations</i>

D. Acquisition Strategy
USACIDC utilized Agile Development which is a process where development is broken up into several stages. It involves constant collaboration with the stakeholders for continuous improvement and changes in each stage. Development is delivered in Releases to the customer for testing and acceptance ensuring that the project stays on track. The CIMS contract ends 30 June 2022 and a new contract will be negotiated to continue the RDT&E development of the CIMS applications.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) FM9 / Information Technology for Criminal Investigations
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Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
FY22 SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.045		-		-		-	0.000	0.045	-
Subtotal			-	-		0.045		-		-		-	0.000	0.045	N/A

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Criminal Investigative Management System (CIMS)	C/CPFF	ACC-New Jersey : New Jersey	0.813	1.190	Jul 2021	1.181	Jul 2022	1.273	Jul 2023	-		1.273	0.000	4.457	-
Subtotal			0.813	1.190		1.181		1.273		-		1.273	0.000	4.457	N/A

Remarks
will continue to establish new congressional mandated law enforcement data transfer initiatives between multiple DoD internal and external law enforcement agencies

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.813	1.190	1.226	1.273	-	1.273	0.000	4.502	N/A

Remarks
Base contract started in 2017. Contract # W15QKN17F0046
2017: \$2,167K/ Award Date 7/2017
2018: \$3,579K Award date 6/2018
2019: \$1,500K (T05) Award date 5/2019

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM9 / <i>Information Technology for Criminal Investigations</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
Criminal Investigative Management System (CIMS)_OY3	[Redacted] contract award																											
Criminal Investigative Management System (CIMS)_OY4					[Redacted] contract award																							
Criminal Investigative Management System (CIMS)_New Base									[Redacted] Contract award																			

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FM9 / <i>Information Technology for Criminal Investigations</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Criminal Investigative Management System (CIMS)_Base	4	2017	3	2018
Criminal Investigative Management System (CIMS)_OY1	4	2018	3	2019
Criminal Investigative Management System (CIMS)_OY2	4	2019	3	2020
Criminal Investigative Management System (CIMS)_OY3	4	2020	3	2021
Criminal Investigative Management System (CIMS)_OY4	4	2021	3	2022
Criminal Investigative Management System (CIMS)_New Base	4	2022	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) T04 / <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</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
T04: <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>	-	8.997	9.087	2.221	-	2.221	2.229	2.227	2.228	4.825	0.000	31.814
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

USMRS 1.1 Minimum Viable Product (MVP): Supports core functionality comprised of multiple sub applications and non-core applications modernization and testing and order writing applications. The US Military Entrance Processing Command Integrated Resource System (MIRS) provides automation and communications capabilities to support the peacetime, mobilization and wartime military manpower accession mission for the Armed Services. USMEPCOM conducts its work through 65 Military Entrance Processing Station (MEPS) across the country and 189 Military Entrance Test Sites (METS). MIRS provides automated support for conducting aptitude tests and medical examinations and administratively processing, enlisting and shipping applicants for the Armed Forces, Reserves, and Coast Guard. This includes support for automated versions of the Armed Services Vocational Aptitude Battery (ASVAB) tests. MIRS initiates Social Security Administration (SSA) checks for identity verification; interfaces with US Citizenship & Immigration Services (USCIS) to verify citizenship status for military service applicants to screen out individuals that may be security threats; and interfaces with the Federal Bureau of Investigation (FBI) for background screening, using digital fingerprints to identify/eliminate individuals with criminal records from entering military service.

USMEPCOM reports operationally to the Office of the Under Secretary for Personnel and Readiness and has an executive agency (EA) agreement with the Army. USMEPCOM serves all five uniformed services, but only receives funding from the Army to perform its mission.

MIRS supports recruiting capabilities through electronic interfaces and data sharing, using standard Department of Defense (DoD) data elements with Recruiting Service systems. In the event a military draft is required, MIRS supports mobilization through electronic links with the Selective Service System (SSS) as well as automated support for conducting aptitude tests and medical examinations and administratively processing, inducting and shipping SSS registrants.

Customers/beneficiaries of this investment: the Accessions Community of Interest (ACOI), including components of the Army, Navy, Air Force, Marines, Coast Guard, USMEPCOM, and Office of the Secretary of Defense (OSD) Personnel & Readiness (P&R)

Requested funding underpins system sustainability and scalability and improves cybersecurity to include protection of Personally Identifiable Information (PII). Funding covers costs to redesign/develop existing MIRS capabilities to operate efficiently in a cloud environment and to integrate with MHS-Genesis. This will allow for the closure of 65 Army data centers, in support of the Army Data Center Consolidation Plan (Army Directive 2016-38) and movement towards the Force of the Future mandate of all digital processing.

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

	FY 2021	FY 2022	FY 2023
Title: USMIRS Modernization/Digitization	8.997	8.753	2.221

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T04 / <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>Description: As of March FY21, the USMIRS 1.1 Minimum Viable Product (MVP) was launched. This is the core functionality of the system. USMIRS 1.1 is a system that is comprised of multiple sub applications, and those non-core applications will need to be modernized. FY22 RDTE supports the further modernization of non-core applications in the USMRIS system of systems such as our testing and order writing applications.</p> <p>FY 2022 Plans: FY22 funding supports the expansion of the USMIRS 1.1. This expansion includes legacy application migration (non-core applications), and medical processing enhancements. SBIR/STTR Transfer of \$334K</p> <p>FY 2023 Plans: FY23 BASE funding supports the continual modernization of USMIRS 1.1 core system and supporting applications. These funds ensure that incremental modernization efforts can be completed in order to keep the new system current and secure.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Decrease of funding supports the successful launch of the USMIRS 1.1 MVP and the development of the remaining non-core USMIRS 1.1 applications in the following year. Focus will shift from wholesale modernizing to incremental updates and improvements, which is a much lower level of effort requiring fewer financial resources.</p>			
<p>Title: FY22 SBIR/STTR Transfer</p> <p>FY 2022 Plans: FY22 SBIR/STTR Transfer</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: FY22 SBIR/STTR Transfer</p>	-	0.334	-
Accomplishments/Planned Programs Subtotals	8.997	9.087	2.221

<p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks</p> <p>D. Acquisition Strategy The overall effort of the USMEPCOM IT transformation is to modernize and fully digitize the US Military Entrance Processing Command Integrated Resource System (MIRS). The modernization of the system will minimize vulnerabilities and fully digitize 65 military entrance processing stations resulting in efficiencies to all five uniformed services.</p>
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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T04 / <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>

The modernization of the USMIRS system is being accomplished using the agile method of software development in short time-boxed "sprints". Program management functions were being performed by the Defense Digital Service (DDS). DDS managed an prototype development contract with a local consulting firm called Tandem (previously known as Devmynd. Based in Chicago IL). The DDS/Tandem effort ended in December of CY2019 and produced a prototype. An in-house program management element of USMEPCOM will manage a follow-on contract to turn the prototype USMIRS 1.1 into a deployable system in FY21.

The efforts in FY21 and beyond will be to develop the non-core applications of USMIRS 1.1 (plug in items to the main system that communicate with other systems across all five uniformed services to include Army Accession Information Environment (AIE)). The contracting for this is being done through GSA Chicago as the owning contract agency. This will most likely be awarded in October of FY2021 with work beginning in October.

Milestones:

- 1 - Core USMIRS 1.1 prototype delivered in December of Calendar 2019.
- 2 - Award contract to develop core USMIRS 1.1 prototype into a Minimum Viable Product that can be deployed to the field in 2Q FY2021.
- 3 - Award contract to develop the USMIRS 1.1 non-core applications (plug ins) in 1Q FY2021 with work to begin 2Q FY2021.
- 4 - FY22 and beyond will be to primarily establish the link between various systems (AIE, MHS Genesis Etc).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T04 / <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>
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Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Defense Digital Services/ Tandem (Previously DEVMYND) USMIRS Prototype Development	MIPR	Defense Digital Services (DDS) Managing the Tandem contract (formerly DEVMYND) : Chicago, IL	6.893	-		-		-		-		-	0.000	6.893	-
BPR and BCA Study	C/FP	Sylvain Analytics INC : Fredericksburg VA	3.370	-		-		-		-		-	0.000	3.370	-
USMIRS SIBR/STTR	TBD	TBD : TBD	-	-		0.334		-		-		-	0.000	0.334	-
Subtotal			10.263	-		0.334		-		-		-	0.000	10.597	N/A

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Develop CORE USMIRS Prototype into Minimum Viable Product (MVP)	C/TBD	TBD : TBD	13.842	-		-		-		-		-	0.000	13.842	-
Develop NON-CORE USMIRS 1.1 Applications	C/TBD	TBD : TBD	-	8.997	Jul 2022	8.753	Jul 2022	-		-		-	Continuing	Continuing	Continuing
USMIRS 1.1 Incremental Updates and Improvements	C/TBD	TBD : TBD	-	-		-		2.221		-		2.221	Continuing	Continuing	Continuing
USMIRS 1.1 PRE DDS Project Development	C/Various	Various : Various	10.122	-		-		-		-		-	0.000	10.122	-
Subtotal			23.964	8.997		8.753		2.221		-		2.221	Continuing	Continuing	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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T04 / <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</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
Award Contract and Develop Prototype into MVP	■																											
Award Contract to Develop USMIRS 1.1 Non-Core Applications	▲1																											
Receive Finished MVP	▲2																											
Rollout Production MVP to the Field			■																									
Core USMIRS 1.1 FOC			▲3																									
Development of the non-core USMIRS 1.1 Applications and MH	■																											

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T04 / <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Core USMIRS 1.1 Prototype is Delivered	1	2020	1	2020
Award Contract and Develop Prototype into MVP	1	2020	1	2021
Award Contract to Develop USMIRS 1.1 Non-Core Applications	1	2021	1	2021
Receive Finished MVP	1	2021	1	2021
Rollout Production MVP to the Field	1	2021	2	2021
Core USMIRS 1.1 FOC	2	2021	2	2021
Development of the non-core USMIRS 1.1 Applications and MHS Genesis Link	1	2021	4	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</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
T05: <i>Army Business System Modernization Initiatives</i>	-	16.286	20.606	24.875	-	24.875	3.206	4.767	4.802	4.836	0.000	79.378
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Global Force Information Management (GFIM): GFIM is a Global Force Management Data Initiative (GFM DI) compliant, integrated, and interoperable digital environment that enables, thru automation, the Deploy to Redeploy/Retrograde (D2RR) end-to-end business processes in support of Dynamic Force Employment (DFE). Today, over 85% of this core Army Business Process is done manually with tools that are available on antiquated, disparate technology platforms. GFIM will provide an integrated planning, programming, and production capability to dynamically develop, design, and document an Army at rest and in motion. GFIM will evolve both long-term and immediate bridging solutions that integrate and automate Army operational business processes, using an interoperable, collaborative environment, to enable the seamless creation and exchange of authoritative data across the operational community of practice to provide rapid, accurate, and auditable outcomes to support risk informed senior leader decisions. GFIM will provide the core data necessary for Enterprise Resource Planning (ERP) systems, other Business Mission Area (BMA) systems and Warfighting Mission Area (WMA) systems to efficiently and effectively execute business processes in support of Army Title 10 responsibilities and war fighting operations.

The Student Information Repository (SIR) Application will replace several independent applications and business processes used to track student data including, but not limited to, personal information, grades, attendance, official records, transcripts, teaching teams, student assignments, and surveys. It is a customized information system that is comprised of separate modules that are tied in together as one system.

Army Business System Modernization Initiatives (subline). The Program Planning Budget (PPB)- Business Operating System (BOS) will standardize and better integrate the transactional automated information systems used in the HQDA level programming and budgeting processes. These systems are core to the PPBE business processes of the HQ for gathering programmatic requirements, balancing resources and delivering the Army's program budget to OSD. This project is streamlining programming and budgeting processes and significantly improving strategic analysis capabilities. The project is architecting, reengineering, streamlining and consolidating HQDA systems, feeder data base systems, and streamlining the associated processes. These improvements will improve capability, eliminate redundancies and reduce overall cost of operations. The PPB BOS project is complementary to the Army's General Fund Enterprise Business System (GFEB) program. It includes a new effort in FY 2014, the Army Contract Writing System, a replacement for the DoD Standard Procurement System (SPS). This Project undertakes necessary efforts to integrate, implement, and build the next generation of Enterprise Business Systems capabilities. This effort is required to develop a converged, modernized Enterprise Resource Planning system that streamlines and integrates the Army's core business functions.

Additive Manufacturing (AM) is a SEC Army priority. AM will fully integrate AM capabilities and enable the Digital Thread within the Army ERPs. It will provide a common collaboration portal to enable sharing of AM 3D print data across the Army and with other DoD entities to address Army readiness driver requirements. Capability will communicate and track user

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>
<p>requests for AM 3D print data, and allow users to search for relevant 3D print data with feedback to Engineering Support Activities, Army industrial base and Army tactical units.</p> <p>The Enterprise Sustainment Management System (ESMS) Web Application is a cloud-based solution, bringing all real property infrastructure domains under the umbrella of a single SMS application. Performing long-range work requirements projections across all SMS domains allows for a comprehensive analysis of various courses of action and the related effects and tradeoffs of each decision. In addition to the incorporation of all SMS domains in a single application. The ESMS application provides increased control of user permission definition, teaming, and how permissions are applied; updated business intelligence reporting capabilities; and improved user experience, leveraging state of the art web development techniques for more efficient use from beginning to end. ESMS helps all real property asset management stakeholders - from civil engineers, technicians and managers to headquarters - decide when, where and how to best maintain existing infrastructure. Because assets are so vast and diverse, a "knowledge-based" philosophy drives the SMS process.</p> <p>Army Energy and Water Reporting System (AEWRS) is used to collect rollups of energy and water usage at Army installations. AEWRS is the Army's official database of record for all energy and water usage data, and energy program management information. It provides the basis for documenting Army progress in meeting statutory and mandated performance metrics. Data is passed to DOD to be joined by similar energy and water data from the other services. AEWRS incorporated as a module the Solid Waste Annual Reporting for the Web (SWARWeb) which is a web-enabled system used to collect solid waste management data. SWARWeb provides a tool for tracking solid waste handling information at the Installation, Subordinate Command, Major Command, Region and Headquarters levels. Data is collected for disposal sites, disposal and recycling transactions, recycling revenues and recycling program management. Solid waste data collected throughout the fiscal year is submitted to higher command levels to fulfill reporting requirements and to track compliance with DoD waste reduction and recycling goals. Data collected in SWARWeb is maintained in a centralized database. Component and DoD requirements and goals for Solid Waste tracking and reporting are reflected in the SWARWeb system.</p> <p>The Enterprise Architecture Business Systems Consolidation effort provides direct execution support for the following Major Objectives of ACP - Army Campaign Plan Strategy Map. The objective is a reduced number of systems and reduced IT costs. Current systems include Headquarters Installation Information System (HQIIS), Installation Decision Support (IDS), Real Property Planning and Analysis System (RPLANS), Army Stationing and Installation Plan, Installation Geospatial Information & Services (IGI&S), and Installations Status Report (ISR).</p> <p>The Vantage Program [previously Army Leader Dashboard (ALD)] is a data integration and visualization platform that enables the Army to "see itself" by providing Senior Leaders, Soldiers, Staff, and analytic communities with a common, integrated data platform to visualize and analyze the current and predicted future state(s) of the Army. Vantage spans all data domains, powers a set of configurable views, and provides tools for making data-driven decisions at every level of the Army.</p> <p>The Vantage Program is a data integration and visualization platform that enables the Army to "see itself" by providing Senior Leaders, Soldiers, Staff, and analytic communities with a common, integrated data platform to visualize and analyze the current and predicted future state(s) of the Army. Spans all data domains, powers a set of configurable views, and provides tools for making data-driven decisions at every level of the Army. VANTAGE supports up to five concurrent lines of effort (LOEs) - investments in new use cases, workflows, or capabilities. LOEs focus on platform configuration, data integration, and user engagement for select critical workflows. The features and advantages of the platform allow the Army to (1) see itself clearly through its data, (2) meet its strategic modernization objectives, and (3) rapidly realize ROI.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army	Date: April 2022
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>
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Enterprise Business Systems Convergence (EBS-C)The Army relies on a force sustainment to enable force projection and force generation. We must preserve our ready force to meet today's challenges, while implementing a transformational modernization effort to ensure the Army is prepared for future threats. Establishing a Common Business Operational Environment (CBOE) through an Enterprise Resource Planning (ERP) Modernization effort that is commercial as possible and military as necessary will allow for supply chain simplification, process automation, resilient infrastructure, agility to support maneuver, and auditability. Given the imperatives of an end of service life for today's large SAP ERPs in 2027 (Global Combat Support System-Army, Army Enterprise Systems Integration Program, Logistics Modernization Program, General Funds Enterprise Business System, GFEBS Sensitive Activities and HQ Army Environmental System), unaffordable legacy ERP sustainment costs, and the need to support operational requirements (e.g. constant maneuver and protected digital data), the only way forward is to collapse the disparate EBSs into a common platform that will deliver clear business and readiness improvements to support Multi- Domain Operations (MDO) in Large Scale Combat Operations (LSCO). Funding program in FY23 supports evaluation of ERP modernization working with GCCS-A to address ERP obsolescence.

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

	FY 2021	FY 2022	FY 2023
<p>Title: Global Force Information Management</p> <p>Description: Global Force Information Management (GFIM): GFIM is a Global Force Management Data Initiative (GFM DI) compliant, integrated, and interoperable digital environment that enables, thru automation, the Deploy to Redeploy/Retrograde (D2RR) end-to-end business processes in support of Dynamic Force Employment (DFE). Today, over 85% of this core Army Business Process is done manually with tools that are available on antiquated, disparate technology platforms. GFIM will provide an integrated planning, programming, and production capability to dynamically develop, design, and document an Army at rest and in motion. GFIM will evolve both long-term and immediate bridging solutions that integrate and automate Army operational business processes, using an interoperable, collaborative environment, to enable the seamless creation and exchange of authoritative data across the operational community of practice to provide rapid, accurate, and auditable outcomes to support risk informed senior leader decisions. GFIM will provide the core data necessary for Enterprise Resource Planning (ERP) systems, other Business Mission Area (BMA) systems and Warfighting Mission Area (WMA) systems to efficiently and effectively execute business processes in support of Army Title 10 responsibilities and war fighting operations. Using Other Transactional Authority (OTA), funding will be used to deliver a rapid prototype for Phase II of GFIM (DFE). Phase I focuses on developing capabilities for strategic planning, determining force requirements, and designing the force, while Phase II focuses on capabilities for preparing forces to deploy, mobilize, deploy forces, and retrograde forces and equipment in support of Multi-Domain Operations. FY22 funding provides for prototyping efforts including software licenses, labor, hosting, and managed services. This capability will be the authoritative transactional capability that creates and develops the requisite force structure, deployment, and readiness data needed to man, equip, train, ready, and resource an Army in Motion.</p> <p>FY 2022 Plans: Funding will be used to deliver a rapid prototype for Phase II of GFIM (Dynamic Force Employment). This capability will be the authoritative transactional capability that creates and develops the requisite force structure, deployment, and readiness data needed to man, equip, train, ready, and resource an Army in Motion</p> <p>FY 2023 Plans:</p>	11.725	11.412	13.230

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>

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

	FY 2021	FY 2022	FY 2023
<p>? Using OTA, funding will be used for completion of Phase II of GFIM (DFE), and award of a production contract. In FY23, costing includes software engineering and data analytics labor, risk mitigation, application development, data analytics, technical support, and hosting. This minimum viable capability will be the authoritative transactional capability that creates the requisite force structure, deployment, and readiness data needed to man, equip, train, ready, and resource an Army at Rest and an Army in Motion.</p> <p>1st QTR, FY23</p> <p>? Develop an integration point with the D2RR data layer to enable data flow of authoritative global force management data to and from the transactional materiel solution; data produced in by the transactional materiel system will be stored in the D2RR data layer for distribution to ERP and non-ERP consumers of bulk data.</p> <p>? Select best of breed solutions from prototyping efforts from Phase I and Phase II.</p> <p>? Phase I best of breed solutions for an Army at Rest include using machine intelligence, predictive analytics, and automated workflows to perform Army strategic planning, determine force requirements and design the force.</p> <p>? Phase II best of breed solutions for an Army in Motion include generating authoritative data for aligning, preparing, mobilizing, deploying/employing forces, supporting deployed forces, redeploying and demobilizing, and regenerating forces.</p> <p>2d QTR, FY23</p> <p>? Award production contract for the most viable solution to provide an integrated and interoperable transactional platform for the force management community to plan, program, and produce authoritative data for the Army for an Army at Rest and an Army in Motion.</p> <p>? Synchronize deployment of capability with force management process cycles for</p> <ol style="list-style-type: none"> 1. Total Army Analysis (TAA), which is a phased force structure analysis process that defines the required Army force structure within end strength and accounts for the military and DA Civilian requirements and authorizations necessary to comply with DOD guidance. The TAA provides the basis for the Army?s POM development and the establishment of the POM Force. 2. Command Plan (CPLAN), which is the annual force management process designed to account for and document force structure decisions and directives. <p>? Capability releases for all D2RR elements fielded to approximately 20k users in HQDA, Army Commands, Army National Guard/ National Guard Bureau, Army Reserve.</p> <p>3rd QTR, FY23</p> <p>? Capability releases for all D2RR elements fielded to approximately 140k users in the remainder of the Army National Guard and Reserve, Army Service Component Commands, Corps, and Divisions (all COMPOs).</p> <p>? Monitor deployment fielding and assess production capabilities during CPLAN 25 and TAA Cycles 26-30 and 27-31.</p> <p>4th QTR, FY23</p> <p>? Capability releases to remedy gaps assessed in production to date.</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
? Monitor deployment fielding and assess production capabilities as CPLAN 25 and TAA Cycle 26-30 concludes.				
FY 2022 to FY 2023 Increase/Decrease Statement: Global Force Information Management (GFIM) funding increase is related to the change in focus from initial development in FY22 to completion of development and start of production in FY 2023.				
Title: Army Business System Modernization Initiatives		2.836	0.935	-
Description: Modernization requirements will add new capabilities to legacy IT systems that support human resource functions such as organization and position management, training, and employment. The PPB BOS system standardize and integrate the transactional information systems used in the Headquarters Department of Army (HQDA) Programming and Budgeting processes. The program is streamlining programming and budgeting business processes and significantly improving strategic analysis capabilities. The PPB BOS architecture reengineers, streamlines, and consolidates HQDA systems and financial feeder systems; aligns to the DoD Business Enterprise Architecture (BEA); implements powerful business intelligence analytical tools to support strategic planning, programming, and budgeting within HQDA; and provides access to GFEBS funds management and execution data through system interfaces with required SFIS compliancy integral to the PPB BOS data model. The LEAP program will provide criminal intelligence querying and reporting capabilities in compliance with regulatory and policy standards for Army Law Enforcement regarding investigation of felony crimes. LEAP captures criminal case investigative information regarding incidents, location descriptors, entities (name, social security number, rank, title, physical characteristics, sex, birth place, and date), agent assignment, crime description and identifiers, statements, property data, laboratory tests; verifies and stores this data for criminal intelligence purposes: and reports this information to the proper authorities from the Division Commanding Officer to the United States Grand Jury. The system will extract necessary data for consolidation and input to Defense Incident-Based Reporting System (DIBRS) monthly reports, National Incident-Based Reporting System (NIBRS) monthly reports and the Defense Clearance and Investigations Index (DCII) daily updates. The LIMS system will automate business processes that support the forensic examiners. These processes include, but are not limited to, analytics, materials management, management reporting, Freedom of Information Act requests (FOIA), legal discovery request, court preparation and outsource processing.				
Civilian Personnel Online - Portal (CPOL-Portal) is a one stop secure site which provides Army civilian employees and HR specialists access to a private portal with a complete set of employment related resources, links and web based applications that require single sign-on access - Army Regional Tools (ART). CPOL-Portal will provide an Integrated Management System (IMS) in support of Civilian Workforce Transformation (CWT). It will support Civilian human capital decision making and allow leaders and				

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>employees to perform their roles more efficiently in support of Army goals and missions. CPOL Portal will provide the full spectrum of IT application support and access to Acquire, Develop, Distribute and Sustain components of the Army Civilian HCM Life-Cycle and link to G3 'Structure' IT Enterprise Applications.</p> <p>The Fully Automated System for Classification (FASCLASS) is a centralized, web-based system that maintains civilian position descriptions and position related information across Department of the Army. It provides classifiers and managers capability to create, edit, and verify position descriptions. Also it offers robust search, report generation, and lookup & support capabilities.</p> <p>The Overseas Entitlement Tracker (OET) provides the capability to accurately track Living Quarters Allowance (LQA). LQA is provided to reimburse employees for suitable, adequate living quarters at posts where the U.S. Government does not provide quarters. OET also tracks these other overseas entitlements for employees: Advance Pay, Danger Pay, Imminent Danger Pay, Foreign Differential, Home Leave, Post Allowance, Separation Maintenance Allowance, and Temporary Quarters Subsistence Allowance.</p> <p>FY 2022 Plans: Continue to fund Army Business System Modernization Initiatives. SBIR/STTR Transfer \$35K.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: No program funds for FY23 due to planned mission accomplishment in FY 2022.</p>			
<p>Title: Corp of Engineers Installation IT Support</p> <p>Description: Funding is used to modernize Army installation IT systems.</p> <p>FY 2022 Plans: Funding is used to modernize Army installation IT systems. SBIR/STTR Transfer of \$36K.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: No program funds for FY23 due to planned mission accomplishment in FY 2022.</p>	1.725	0.951	-
<p>Title: Additive Manufacturing</p> <p>Description: Additive Manufacturing (AM) is a SEC Army priority. AM will fully integrate AM capabilities and enable the Digital Thread within the Army ERPs. It will provide a common collaboration portal to enable sharing of AM 3D print data across the Army and with other DoD entities to address Army readiness driver requirements. Capability will communicate and track user requests for AM 3D print data, and allow users to search for relevant 3D print data with feedback to Engineering Support Activities,</p>	-	4.841	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Army industrial base and Army tactical units. It will also enable interface between the LMP DT repository and the DLA JAMMEX system</p> <p>FY 2022 Plans: \$4.915M to conduct User Acceptance testing, training delivery, and finalize the Additive Manufacturing digital thread solution for Package 1 and 2. The solution will be deployed in 2nd quarter FY22.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding is decrease because all approved requirements will be completed for AM in FY 2020.</p>				
<p>Title: Installation Systems Modernization</p> <p>Description: Consolidation of installation systems and upgrades of applications</p> <p>FY 2022 Plans: Upgrade software, SBIR/STTR Transfer \$65K</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: No program funds for FY23 due to planned mission accomplishment in FY 2022.</p>		-	1.716	-
<p>Title: VANTAGE</p> <p>Description: The Vantage Program is a data integration and visualization platform that enables the Army to ?see itself? by providing Senior Leaders, Soldiers, Staff, and analytic communities with a common, integrated data platform to visualize and analyze the current and predicted future state(s) of the Army. Spans all data domains, powers a set of configurable views, and provides tools for making data-driven decisions at every level of the Army. VANTAGE supports up to five concurrent lines of effort (LOEs) - investments in new use cases, workflows, or capabilities. LOEs focus on platform configuration, data integration, and user engagement for select critical workflows. The features and advantages of the platform allow the Army to (1) see itself clearly through its data, (2) meet its strategic modernization objectives, and (3) rapidly realize ROI.</p> <p>FY 2023 Plans: FY23 RDTE funds will be used to assess and evaluate Advana capabilities, define requirements and build Vantage capabilities, and improve the trustworthiness of Vantage by supporting process champions, domain data stewards and other subject matter experts verify and endorse the data, sources, pipeline integration and logic. Will also be used to improve data quality by making all data visible, accessible, understandable, trusted and interoperable.</p>		-	-	10.363

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Make data available to external partners through Common Data Platform capabilities. The Army Vantage Program supports up to five concurrent LOEs - investments in new use cases, workflows, or capabilities. LOEs focus on platform configuration, data integration, and user engagement for select critical workflows.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding Increase in FY23 is for new development efforts to improve the trustworthiness of Vantage by supporting process champions, domain data stewards and other subject matter experts to verify and endorse the data, sources, pipeline integration and logic.</p>				
<p>Title: Enterprise Resource Planning (ERP) Modernization</p> <p>Description: Description: EBS-Convergence will consolidate the major Army Finance and Logistics ERPs & top tier Defense Business Systems into a Post Modern ERP environment with integration to enduring systems and microservices.</p> <p>FY 2023 Plans: Funds will be used to analyze legacy ERPs to consider modernization efforts in preparation for development efforts starting in FY24.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding Increase in FY23 will be used to analyze legacy ERPs to consider modernization efforts in preparation for development efforts.</p>		-	-	0.021
<p>Title: IEE EBS SYSTEM CONSOLIDATION</p> <p>Description: Development of interface of legacy DBS systems with Enterprise Resource Planning (ERP) modernization efforts.</p> <p>FY 2023 Plans: In FY23 RDTE fund will be used for preliminary development of interface of legacy DBS systems with Enterprise Resource Planning (ERP) modernization.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding Increase in FY23 is due to ERP modernization.</p>		-	-	0.488
<p>Title: IEE EBS FOR FACILITY & ENERGY SYSTEMS (AWERS AND SWARWeb)</p> <p>Description: Update application software for the Army Energy and Water Reporting System (AEWRS). AEWRS is the Army's official database of record for all energy and water usage data, energy program management information, and solid waste management/recycling program information. AEWRS provides the basis for documenting and reporting Army progress in meeting statutory and mandated performance metrics for the active Army, National Guard, Reserves at the Installation, Subordinate</p>		-	-	0.303

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Command, Major Command, Region, Headquarters, and supporting organization levels. Army data is reported to DoD to be joined with similar reporting from other services and reporting agencies. AEWRS incorporated as a module the Solid Waste Annual Reporting for the Web (SWARWeb) system which was decommissioned. Funding is required to modernize application software and update/expand data collection as required by revised statutes and federal/DoD policies.</p> <p>FY 2023 Plans: In FY23 RDTE funds will be used to update application software for the Army Energy and Water Reporting System (AEWRS). AEWRS is the Army's official database of record for all energy and water usage data, energy program management information, and solid waste management/recycling program information. AEWRS provides the basis for documenting and reporting Army progress in meeting statutory and mandated performance metrics for the active Army, National Guard, Reserves at the Installation, Subordinate Command, Major Command, Region, Headquarters, and supporting organization levels. Army data is reported to DoD to be joined with similar reporting from other services and reporting agencies. AEWRS incorporated as a module the Solid Waste Annual Reporting for the Web (SWARWeb) system which was decommissioned. Funding is required to modernize application software and update/expand data collection as required by revised statutes and federal/DoD policies.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding Increase in FY23 for system consolidation of legacy systems.</p>				
<p>Title: IEE EBS BUILDER and PAVER</p> <p>Description: Development of interface of Interface Energy and Environment related to Construction and Real Property with Enterprise Business Systems-Convergence (EBS-C) for Multifunctional Capabilities Team (MFCT). In addition, FY23 RDTE funds will be used for preliminary development of interface of interface Energy and Environment related to Construction and development of the Real Property Enterprise Sustainment Management System (SMS) BUILDER SMS, and PAVER SMS.</p> <p>FY 2023 Plans: In FY23 RDTE fund will be used for preliminary development of interface of Interface Energy and Environment related to Construction and Real Property with Enterprise Business Systems-Convergence (EBS-C) for Multifunctional Capabilities Team (MFCT). In addition, FY23 RDTE funds will be used for preliminary development of interface of interface Energy and Environment related to Construction and development of the Real Property Enterprise Sustainment Management System (SMS) BUILDER SMS, and PAVER SMS.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding Increase in FY23 for system consolidation for Enterprise Builder system.</p>		-	-	0.470
<p>Title: FY22 SBIR/STTR Transfer</p> <p>FY 2022 Plans:</p>		-	0.751	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
FY22 SBIR/STTR Transfer				
FY 2022 to FY 2023 Increase/Decrease Statement:				
FY22 SBIR/STTR Transfer				
Accomplishments/Planned Programs Subtotals		16.286	20.606	24.875
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
GFIM will leverage an Other Transactional Authority Firm Fixed Price contract to execute development efforts. Each acquisition activity will be supported by an acquisition plan, market research, and an independent government cost estimate.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) T05 / Army Business System Modernization Initiatives
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Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
SFL-TAP XXI Modernization	TBD	To Be Determined : To Be Determined	0.639	-		-		-		-		-	0.000	0.639	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	0.324	-		-		-		-		-	0.000	0.324	-
OA22 - G-8 Funding	TBD	TBD : TBD	-	-		1.716		-		-		-	0.000	1.716	-
SBIR/STTR	TBD	TBD : TBD	-	-		0.751		-		-		-	0.000	0.751	-
Subtotal			0.963	-		2.467		-		-		-	0.000	3.430	N/A

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
PRODUCT DEVELOPMENT FOR KEYSTONE RETAIN SYSTEM, i-PERMS PRODUCT DEVELOPMENT	MIPR	M&RA/G-1 : ARLINGTON, VA	16.570	-		-		-		-		-	0.000	16.570	-
PPBOS PRODUCT DEVELOPMENT	MIPR	OAA : FORT BELVOIR, VA	26.832	-		-		-		-		-	0.000	26.832	-
Product Development for ACWS	C/IDIQ	PEO EIS : Alexandria, VA	45.741	-		-		-		-		-	0.000	45.741	-
ATIS	C/IDIQ	PEO EIS : FT Eustice VA	50.720	-		-		-		-		-	0.000	50.720	-
Army Career Tracker	C/FFP	TBD : Reston, VA	2.538	-		-		-		-		-	0.000	2.538	-
Army Business System Modernization Initiatives	TBD	To Be Determined : To Be Determined	31.599	2.836		0.935		-		-		-	Continuing	Continuing	-
Defense Language Software Upgrade	C/FFP	TBD : TBD	5.286	-		-		-		-		-	0.000	5.286	-
Global Force Information Management	Option/CPAF	CACI : Chantilly, VA	3.919	11.725		11.412		13.230		-		13.230	Continuing	Continuing	Continuing
Army SHARP	TBD	Various : Various	1.453	-		-		-		-		-	0.000	1.453	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
SFL-TAP XXI Modernization	TBD	To Be Determined : To Be Determined	0.333	-		-		-		-		-	0.000	0.333	-
HRC Core IT	C/CPFF	Digital Management, LLC / SAIC : Bethesda, MD / Reston, VA	5.163	-		-		-		-		-	Continuing	Continuing	Continuing
ARIMS	TBD	TBD : TBD	2.283	-		-		-		-		-	0.000	2.283	-
FASOR	MIPR	CECOM : CECOM	1.914	-		-		-		-		-	0.000	1.914	-
Corp of Engineers Installation IT Suppor	TBD	TBD : TBD	-	1.725		0.951		-		-		-	0.000	2.676	-
Additive Manufacturing	TBD	TBD : TBD	4.958	-		4.841		-		-		-	0.000	9.799	-
VANTAGE	C/TBD	TBD : TBD	-	-		-		10.363		-		10.363	0.000	10.363	-
Enterprise Business Systems Convergence (EBS-C)	C/TBD	TBD : TBD	-	-		-		0.021		-		0.021	0.000	0.021	-
IEE EBS SYSTEM CONSOLIDATION	C/TBD	TBD : TBD	-	-		-		0.488		-		0.488	0.000	0.488	-
IEE EBS FOR FACILITY & ENERGY SYSTEMS (AWERS AND SWARWeb)	C/TBD	TBD : TBD	-	-		-		0.303		-		0.303	0.000	0.303	-
IEE EBS BUILDER and PAVER	C/TBD	TBD : TBD	-	-		-		0.470		-		0.470	0.000	0.470	-
Subtotal			199.309	16.286		18.139		24.875		-		24.875	Continuing	Continuing	N/A

Remarks

Global Force Information Management (GFIM): GFIM will provide the Army an enterprise, integrated authoritative force management capability for lifecycle management of force/organizational structure data for the total force. In addition, it will establish a common data standard for force structure data by implementing the Global Force Management - Data Initiative (GFM-DI).

Army Training Information System (ATIS) is an enterprise system that will provide a common operational picture of the training environment through integrated, interoperable training development, management, scheduling, and delivery capabilities. These capabilities will enable commanders, leaders, soldiers, and civilians to better understand, visualize, describe, direct, lead and assess training requirements so they can more effectively plan, prepare, execute, and assess training. End result is an ATIS that enables soldiers to train as they fight so they can effectively fight as they have trained.

RDTE funds will be used to improve the trustworthiness of Vantage by supporting process champions, domain datastewards and other subject matter experts verify and endorse the data, sources, pipeline integration and logic. Will also be used to improve data quality by making all data visible, accessible, understandable, trusted and

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</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
ATIS Product Development	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Global Force Information Management	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
SFL-TAP XXI Modernization	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Capabilities Requirement Document	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
VANTAGE	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T05 / <i>Army Business System Modernization Initiatives</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ATIS Product Development	1	2016	1	2023
Global Force Information Management	2	2019	4	2024
SFL-TAP XXI Modernization	1	2019	4	2024
HRC Core IT	4	2018	4	2020
Capabilities Requirement Document	1	2020	1	2021
VANTAGE	1	2018	4	2027

Note

Army Contract Writing System moved to 0605047 in FY 2017. The Commanders Risk Reduction Dashboard (CRRD) requirements moved to and are now maintained within PE 0605013A, Project 099 in FY2019.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) VR3 / <i>ASMIS-R (REPORTIT)</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
VR3: <i>ASMIS-R (REPORTIT)</i>	-	3.041	3.180	3.341	-	3.341	3.387	3.418	3.454	3.487	0.000	23.308
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Army Safety Management Information System (ASMIS) 2.0 is the Army's designated system of record for Army Safety and Occupational Health (SOH) data collection, information management, decision support, and reporting (formerly known as ASMIS-R and ASOHEIMS). It is built to holistically support the information management needs of the Army SOH program in accordance with Public Law 91-596, Executive Order 12196, DoDI 6055.01, The Army Strategy LOE 1: Build Readiness, LOE 2 (Modernize), AR 385-10, and ASA(IEE) strategic guidance. ASMIS 2.0 provides support for the five key Army SOH capabilities: (1) Mishap and Near Miss Investigations and Reporting, (2) Safety Assessments and Inspections, (3) Hazard Management, (4) SOH Program Management, and (5) SOH Training and Education.

ASMIS 2.0 enables commanders and Army senior leaders to use data collected via these five key capabilities and other DoD data sources to prevent accidental losses, reduce associated costs, and enhance readiness. ASMIS 2.0 currently interfaces with 11 DoD systems and will interface with 22 upon completion. It directly supports the Warfighter through improved IT-enabled business processes and enterprise data analytics to enhance decision-making at all levels of the Army through greater use of leading indicators. In support of the Army Data Strategy, ASMIS 2.0 enables the Army to make SOH data visible, accessible, understandable, linked, trustworthy, interoperable, and secure (VAULTIS). Beyond the cost avoidance and reduction achieved by loss prevention, ASMIS 2.0 provides additional cost savings by eliminating 12 legacy systems.

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

	FY 2021	FY 2022	FY 2023
Title: ASMIS-R Development	3.041	3.064	3.341
Description: ASMIS 2.0 provides a framework of people, processes and technology to synchronize, integrate and optimize Army SOH capabilities to preserve war fighting capabilities and enhance the force by providing a safe and healthy environment for Soldiers, Families, Civilians, and contractors. An analysis of Army SOH DOTMLPF-P in 2014 determined that the legacy system, a Defense Business System, was not able to satisfy current and emerging SOH capability requirements without modernization to resolve these capability gaps. Changes in requirements for the Army Safety and Health Management System (Programmatic) related to DoDI 6055.01, AR 385-10, Information Assurance requirements and direct feedback from the Safety professionals within the DoD and the Army have resulted in the need for changes in associated business processes. Additionally, a business gap analysis performed by the ASA(ESOH) revealed a deficiency in the system's requirements that would support Army Commands in identifying hazards in the work place, determining hazard mitigation strategies and controls, employing these strategies and controls, and measuring their potential for reducing mishaps. Addressing these problems will have an immediate and direct impact on meeting regulatory requirements, improving data integrity, improving information assurance			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) VR3 / <i>ASMIS-R (REPORTIT)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
posture (compliance), increasing the Army's ability to reduce mishaps across the force structure, and promoting ARFORGEN capabilities. FY 2022 Plans: Continue work with Army Analytics Group and contract for the development of the fourth and fifth activity. FY22 SBIR Title 15 USC 638(f)(1) Reduction =102 FY22 STTR Title 15 USC 638(f)(1) Reduction =14 FY22 Total Reduction =3180-116=3064 SBIR=Small Business Innovation Research STTR=Small Business Technology Transfer Reduction will delay development and reduce contract for Option year one. FY 2023 Plans: Continue work with Army Analytics Group and contract for the development of the fifth activity. FY 2022 to FY 2023 Increase/Decrease Statement: Funding Increase in FY23 for cost to complete development of the fifth activity.				
Title: FY22 SBIR/STTR Transfer		-	0.116	-
FY 2022 Plans: FY22 SBIR/STTR Transfer				
FY 2022 to FY 2023 Increase/Decrease Statement: FY22 SBIR/STTR Transfer				
Accomplishments/Planned Programs Subtotals		3.041	3.180	3.341
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy ASMIS 2.0 is comprised of five distinct capabilities, as outlined on the previous page, and each of these is being developed incrementally with a strategic sequencing				

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

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) VR3 / <i>ASMIS-R (REPORTIT)</i>
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that enables the primary data collection modules to be completed first with the risk analysis and program management modules executed subsequently.

The acquisition strategy employed executed separate contracts for the construction of the first three modules, with a distinct deployment phase concluding the last two. With the maturity of the fielded capabilities in support of the first three, a multi-year contract was issued for the sustainment and operation of the first three modules and the development and deployment of the latter two. This contract will enter Option Year 1 in May 2022 with another option year thereafter.

Acquisition is executed and managed by the USACRC and the organization is directly engaged with its Contracting Office and Contracting Office Representative.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) VR3 / ASMIS-R (REPORTIT)
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Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
FY 2020 SBIR/STTR Transfer	TBD	TBD : TBD	0.180	-		-		-		-		-	0.000	0.180	-
ASMIS-R FY2022 SIBR/STTR	TBD	TBD : TBD	-	-		0.116		-		-		-	0.000	0.116	-
Subtotal			0.180	-		0.116		-		-		-	0.000	0.296	N/A

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
ASMIS-R	MIPR	AAG : Monterrey, CA	0.953	0.156		-		0.341		-		0.341	Continuing	Continuing	Continuing
Subtotal			0.953	0.156		-		0.341		-		0.341	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
ASMIS-R	MIPR	DLA : Fort Belvoir, VA	6.411	2.885		3.064		3.000		-		3.000	Continuing	Continuing	Continuing
Subtotal			6.411	2.885		3.064		3.000		-		3.000	Continuing	Continuing	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		7.544	3.041	3.180	3.341	-	3.341	Continuing	Continuing	N/A

Remarks

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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 0605013A / <i>Information Technology Development</i>		Project (Number/Name) VR3 / <i>ASMIS-R (REPORTIT)</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
Product Development																												

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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 0605013A / <i>Information Technology Development</i>	Project (Number/Name) VR3 / <i>ASMIS-R (REPORTIT)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Product Development	3	2018	4	2025