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

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	89.541	126.498	122.168	-	122.168	-	-	-	-	-	-
099: <i>Army Human Resource System</i>	-	11.427	0.944	0.197	-	0.197	-	-	-	-	-	-
184: <i>Installation Support Modules</i>	-	0.880	11.859	1.262	-	1.262	-	-	-	-	-	-
193: <i>Medical Communications For Combat Casualty</i>	-	0.050	-	-	-	-	-	-	-	-	-	-
FL9: <i>Army Accessioning IT Development</i>	-	29.992	36.986	5.436	-	5.436	-	-	-	-	-	-
FM7: <i>Human Resouces Information Technology</i>	-	6.740	10.184	12.971	-	12.971	-	-	-	-	-	-
FM8: <i>Information Technology for Training Systems</i>	-	15.860	37.011	62.969	-	62.969	-	-	-	-	-	-
FM9: <i>Information Technology for Criminal Investigations</i>	-	0.865	1.190	1.226	-	1.226	-	-	-	-	-	-
T04: <i>USMEPCOM TRANSFORMATION - IT MODERNIZATION</i>	-	14.609	8.997	10.892	-	10.892	-	-	-	-	-	-
T05: <i>Army Business System Modernization Initiatives</i>	-	6.398	16.286	24.035	-	24.035	-	-	-	-	-	-
VR3: <i>ASMIS-R (REPORTIT)</i>	-	2.720	3.041	3.180	-	3.180	-	-	-	-	-	-

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	88.689	142.678	122.951	-	122.951
Current President's Budget	89.541	126.498	122.168	-	122.168
Total Adjustments	0.852	-16.180	-0.783	-	-0.783
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-21.474			
• Congressional Rescissions	-	-			
• Congressional Adds	-	10.500			
• Congressional Directed Transfers	-	-			
• Reprogrammings	4.500	-			
• SBIR/STTR Transfer	-3.648	-5.206			
• Adjustments to Budget Years	-	-	-0.783	-	-0.783

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

Project: 184: *Installation Support Modules*

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

	FY 2020	FY 2021
	-	10.500
Congressional Add Subtotals for Project: 184	-	10.500
Congressional Add Totals for all Projects	-	10.500

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army										Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
099: <i>Army Human Resource System</i>	-	11.427	0.944	0.197	-	0.197	-	-	-	-	-	-
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 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.

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. 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

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army				Date: May 2021	
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)					
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.					
FY 2021 Plans: Finalize all contingency operations. Modern GoArmyEd goes live, current GoArmyEd will be deactivated. NOTE: Still trying to acquire additional RDT&E for GoArmyEd Modernization.					
FY 2021 to FY 2022 Increase/Decrease Statement: Reduced funding consistent with Project life cycle.					
Title: Regional Level Application Software (RLAS)					
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.					
FY 2021 Plans: Develop and implement open source code solutions. Complete and implement enhanced system user security controls. Modify system architecture to prepare for cloud platform hosting solution. Develop system audit					
	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	0.419	0.298	0.197	-	0.197

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>readiness capabilities and improve system auditability. Improve and refine system cyber compliance. Develop and implement IPPS-A R3 compatible data interface, data transfer, and data processing solutions.</p> <p><i>FY 2022 Base Plans:</i> 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.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Funding decrease consistent with planned life cycle for this effort.</p> <p><i>Title:</i> FY 2020 SBIR/STTR Transfer</p>	9.259	-	-	-	-
Accomplishments/Planned Programs Subtotals	11.427	0.944	0.197	-	0.197

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.

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 2022 Army **Date:** May 2021

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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	TBD	IBM : Various	0.591	-		0.050		-		-		-	0.000	0.641	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	9.259		-		-		-		-	0.000	9.259	-
Subtotal			2.110	9.259		0.050		-		-		-	0.000	11.419	N/A

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	89.764	0.419		0.298		0.197		-		0.197	0.000	90.678	-
AHRS - Software Development	C/FFP	Hewlett Packard : various	51.723	-		-		-		-		-	0.000	51.723	-
GoArmyEd Modernization	C/FFP	IBM : Various	17.584	0.216		-		-		-		-	0.000	17.800	-
CRRD/AIE - PMSS	C/FFP	Various : Various	8.560	1.533		0.596		-		-		-	0.000	10.689	-
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	0.079	-		-		-		-		-	0.000	0.079	-
Subtotal			167.710	2.168		0.894		0.197		-		0.197	0.000	170.969	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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		169.820	11.427	0.944	0.197	-	0.197	0.000	182.388	N/A

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
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 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
GoArmyEd Support/Enhancements	[Redacted]				[Redacted]																							
GoArmyEd Modernization	[Redacted]				[Redacted]																							
Commanders Risk Reduction Dashboard (CRRD) Full Deployment (FD)	1				[Redacted]																							
Commanders Risk Reduction Dashboard (CRRD) Development	[Redacted]				[Redacted]																							
Commanders Risk Reduction Dashboard (CRRD) - Transition to Army Leader Dashboard (ALD)	[Redacted]				[Redacted]																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army										Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
184: <i>Installation Support Modules</i>	-	0.880	11.859	1.262	-	1.262	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Installation Support Modules (ISM) consists of four standardized, web based, custom-developed enterprise wide applications that integrate essential installation business practices and processes throughout the Army, to meet Army Force Generation (ARFORGEN) Brigade Combat Team readiness and deployment requirements. Three modules support human resources business functions (In/Out-Processing, Transition Processing, and Personnel Locator); the fourth module, Central Issue Facility (CIF) supports management of over \$9 billion combatant Organizational Clothing and Individual Equipment inventory. The web server architecture is fully internet protocol capable and allows soldiers ready access to their records and commanders and logisticians access to information affecting readiness of combat organizations.

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.

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 suicide attempts are collected and stored 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.

ISM Core funding is essential for supporting demands to research and develop improved systems to provide for soldier safety and inventory reduction without risking readiness. Funding supports research and development to comply with Department of Defense Instruction 8320.4 Serialized Item Management. Applications to use commercial off the shelf wireless bar code equipment to ensure inventory accuracy throughout 154 warehouses in worldwide locations potentially reduces operating costs by \$500.0 million.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Army Behavioral Health Integrated Data Environment	0.880	1.359	1.262	-	1.262

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army			Date: May 2021		
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>			
B. Accomplishments/Planned Programs (\$ in Millions)					
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 2021 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 2022 Base 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 2021 to FY 2022 Increase/Decrease Statement: Change is economic assumption.					
Accomplishments/Planned Programs Subtotals					
	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	0.880	1.359	1.262	-	1.262
Congressional Add: Program increase - installation access control technology					
FY 2021 Plans: 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					
	FY 2020	FY 2021			
	-	10.500			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021
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.		
Congressional Adds Subtotals	-	10.500

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• BE4162: MACOM AUTOMATION SYSTEMS	92.588	58.281	49.794	-	49.794	-	-	-	-	-	-

Remarks

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.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) 184 / Installation Support Modules
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Army Behavioral Health Integrated Data Environment	C/FFP	various : various	9.713	0.880		1.359	Feb 2021	1.262	Feb 2021	-		1.262	Continuing	Continuing	-
Post-Deployment Software Support (PDSS)	C/FFP	various : various	6.061	-		-		-		-		-	0.000	6.061	-
Coalition Warfighter Interoperability Demonstration (CWID)	C/TBD	various : various	0.091	-		-		-		-		-	0.000	0.091	-
Subtotal			15.865	0.880		1.359		1.262		-		1.262	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Independent Verification and Validation (IVV) Testing	C/T&M	GDIT Corp : various	2.111	-		10.500		-		-		-	0.000	12.611	-
Subtotal			2.111	-		10.500		-		-		-	0.000	12.611	N/A

Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			17.976	0.880		11.859		1.262		-	1.262	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army **Date:** May 2021

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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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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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	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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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UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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

UNCLASSIFIED

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

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 193 / <i>Medical Communications For Combat Casualty</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
<i>193: Medical Communications For Combat Casualty</i>	-	0.050	-	-	-	-	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

RDTE effort on current requirements in this project completed in FY 2020. Future requirements are being evaluated.

A. Mission Description and Budget Item Justification

The Medical Communications for Combat Casualty Care (MC4) System interfaces Force Health Protection and medical surveillance information with Army Mission Command information technology systems. The MC4 System fulfills the requirements highlighted in United States Code: Title 10, Subtitle A, Part II, Chapter 55, Section 1074f, mandating the proper documentation of deployed Service members' medical treatment to include its associated medical surveillance. The MC4 System supports other Soldier protection initiatives by providing data for analyses which can be used for identification and development of critical soldier support systems such as body armor, improved helmets, traumatic brain injury protection and trauma reduction. Current MC4 Program efforts are focused on system engineering, testing, integration, and fielding automation infrastructure for Army users of the Theater Medical Information Program-Joint (TMIP-J) suite of software. Effort has also been initiated to integrate MC4 with the Army Chief Information Office (CIO) Network 2020 and Common Operating Environment (COE) and as a program of record in the Mobile/ Handheld Computing Environment Working Group. Funding provides engineering, developmental testing, and integration of information management/information technology to support Force Health Protection in accordance with the Army Equipment Modernization Plan.

RDTE effort on current requirements in this project completed in FY 2020. Future requirements are being evaluated.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Engineering and Technical Support	0.050	-	-	-	-
Description: Engineering and Technical Support for Preplanned Program Improvements and System Upgrades, Systems Integration, Software Support and other new initiatives to improve system performance and effectiveness. Effort includes rapid integration of new IT technologies as they become available at Technology Readiness Levels (TRL) 6 or beyond, and engineering effort to modify system parameters due to cybersecurity or other pressing need.					
Accomplishments/Planned Programs Subtotals	0.050	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army	Date: May 2021
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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) 193 / <i>Medical Communications For Combat Casualty</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• MA8000: <i>Family of Med Comm for Combat Casualty Care</i>	19.221	19.570	15.957	-	15.957	-	-	-	-	-	-
• OMA - 432612000: <i>Information Management-Automation Spt</i>	-	0.440	1.720	2.040	3.760	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

The MC4 Program supports a number of Army Medical Information Technology/Communications initiatives. The near and mid-term focus of the MC4 program is to engineer, design, integrate, test, acquire and field the Army automation infrastructure capabilities supporting fielding of the Defense Healthcare Management Systems Electronic Health Record integrated software application suite, future modernized capability, and other Army requirements. The MC4 hardware is procured as Commercial-off-the-Shelf (COTS) components. Since Electronic Health Record software is a major component of the MC4 System and being developed in increments by the Joint Program, the MC4 Program will deliver capabilities in increments, recognizing the need for future system updates and planned upgrades. The MC4 Program works with the user community to continually define and refine additional requirements and match them with available technologies to provide the user enhanced capabilities. These enhanced capabilities will be provided to the user at the earliest possible date. This approach yields the most operationally useful and supportable capability in the shortest time possible with Cost As an Independent Variable. Moreover, this approach provides an initial capability with the explicit intent of delivering improved and updated capability in subsequent updates and planned upgrades. This evolutionary development approach will be accomplished through a rapid prototyping process that will progress the system from its current functional capabilities to fully integrated objective capabilities, and forward into the future with a fully modernized system. Appropriate commercial technology enhancements (e.g. advances in operating systems, voice activated technology, cloud computing capability environment, etc.) will be incorporated into MC4 products and systems as they become available. Each MC4 System component will undergo a full range of developmental testing to include software unit testing, integration testing, interoperability testing and software qualification testing. The MC4 system updates and planned upgrades will continue to undergo follow-on testing.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 193 / <i>Medical Communications For Combat Casualty</i>
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Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Prog Mgmt Operations	Various	PMO : various	8.405	-		-		-		-		-	0.000	8.405	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	0.002		-		-		-		-	0.000	0.002	-
Subtotal			8.405	0.002		-		-		-		-	0.000	8.407	N/A

Remarks
Funding (Prior Years) in Program Management Operations includes direct pay of PMO government employees, TDY, training, supplies, etc. in direct support of RDTE effort. At Milestone C, Program Management Operations efforts were moved to another appropriation.

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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 2019 SBIR / STTR Transfer	TBD	TBD : TBD	0.141	-		-		-		-		-	0.000	0.141	-
Subtotal			0.141	-		-		-		-		-	0.000	0.141	N/A

Remarks
MC4 is a COTS (Commercial-Off-the-Shelf) hardware, GFE (Government Furnished Equipment) software system. MC4 provides the integration of the hardware and software and also fields to and supports the system to Army units. No product development is performed. Hardware is bought commercially off the shelf through commercial contracts and software is developed and provided by the Defense Health Medical Systems Joint Operational Medical Information Systems (DHMS/JOMIS).

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Engineering & Tech Spt/ Information Assurance (old contract)	Various	L-3 (was Titan) : various	9.390	-		-		-		-		-	0.000	9.390	-
Engineering & Tech Spt (new contract)	Various	CACI (formerly L-3) : Various	8.614	0.048	Jan 2020	-		-		-		-	0.000	8.662	-
Information Assurance	Various	ISEC Support : AZ	1.783	-		-		-		-		-	0.000	1.783	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 193 / <i>Medical Communications For Combat Casualty</i>
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Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Subtotal			19.787	0.048	-	-	-	-	-	-	-	-	0.000	19.835	N/A

Remarks
Information Assurance (IA) activities moved from ISEC to L3 in FY 2012, IA activities moved to another appropriation FY 2013; FY 2015 new competitive contract award, base year with 4 option years (option year awards in January). Final objective Theater Medical Information Program-Joint (TMIP-J) software is expected to be complete and ready for fielding 2nd Quarter FY 2018. Modernization of TMIP-J software by Joint program (Joint Operational Medical Information System [J1]) is currently in process, requiring continued engineering and technical support to ensure an operational system for Army use.

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
PMO Testing Spt	MIPR	ATEC/AMEDD Board/JITC : various	6.961	-		-		-		-		-	0.000	6.961	-
MC4/TMIP System Engineering	C/T&M	L-3 Communications : Frederick MD	7.889	-		-		-		-		-	0.000	7.889	-
MC4/TMIP System Engineering	Various	John Hopkins University (JHU) Applied Physics Lab : MD	32.124	-		-		-		-		-	0.000	32.124	-
MC4/TMIP System Engineering (new contract)	C/T&M	CACI (was L-3 Communications) : Frederick MD	3.639	-		-		-		-		-	0.000	3.639	-
Subtotal			50.613	-		-		-		-		-	0.000	50.613	N/A

Remarks
PMO Testing Support is provided by other Government agencies (AMEDD Board, ATEC and others).

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	78.946	0.050	0.000	-	-	-	0.000	78.996	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army			Date: May 2021		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>		Project (Number/Name) 193 / <i>Medical Communications For Combat Casualty</i>	

Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
System Updates #4 for TMIP-J I2R3	System updates approximately 1Q and 3Q each FY																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 193 / <i>Medical Communications For Combat Casualty</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MC4/TMIP-J I2R3 Fielding Decision	2	2018	2	2018
System Updates #1 for TMIP-J I2R3	3	2018	3	2018
System Updates #2 for TMIP-J I2R3	4	2018	1	2019
System Updates #3 for TMIP-J I2R3	3	2019	3	2019
System Updates #4 for TMIP-J I2R3	4	2019	1	2020

Note

System Updates correspond to projected software change packages, to include security enhancements, throughout this time period. Updates require integration and testing prior to acceptance and release. Engineering and Technical support continues throughout this time period and is focused on hardware architecture development and cybersecurity and technology insertions for the modernized electronic health record system. .

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army										Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
FL9: <i>Army Accessioning IT Development</i>	-	29.992	36.986	5.436	-	5.436	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2022, this funding was realigned from OSDPE 0605013A, Project 738.

A. Mission Description and Budget Item Justification

Accessions Information Environment (AIE): In FY22, PE 0605233A is a new setup. Previous year, AIE was established within PE0605013A (FL9). AIE supports the Army's Accessions Enterprise (AE). AIE aligns authorities, responsibilities, and resources, for Total Army accessions. It provides the Army's strength through its four missions: (1) Enlist Soldiers, (2) Commission Officers, (3) Fulfill In-Service requirements, and (4) Support and sustain. AIE will replace 11 legacy systems with 33 modules of the current legacy Accessions IT systems which have experienced frequent outages and unstable performance, directly impairing the Army's ability to make its recruiting mission. Successful implementation is of utmost priority for the enterprise. AIE is a critical Army modernization effort to re-engineer the business processes for Army Accessions and to ensure the Army can acquire the best qualified talent, meet manning requirements and readiness objectives. Ultimately, the delivery of AIE will provide an enterprise level capability for recruiting Army Soldiers across all components, enabling transparent and efficient workforce accessions. AIE is a COTS-based information technology (IT) software system that will modernize the AE. Key AIE functions / core capabilities include: lead generation & management, prospecting, interviewing, processing, pay & incentives, intelligence, marketing, training / leader development. This effort will ultimately ensure the accessions workforce has the information needed to engender commitments, lead future Soldiers, and engage communities in direct contact with young Americans. April 2019 the Program awarded an Other Transaction Authority (OTA) Firm Fixed Price agreement with defined milestone payments based on technical performance achievements. Configuration of core capabilities expand over 36 months ultimately being deployed to 24,000+ end users. Through fact of life changes and performance of the solution provider, in September 2020 the configuration of the OTA was extended over 51 months keeping the funding requirements the same but adding schedule. The foundational and Wave 1 capabilities, cloud networking capabilities, lead generation and management, prospecting, interviewing, and processing, will be delivered 4QFY21.

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.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Title: Accessions Information Environment (AIE)</p> <p>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.</p> <p>FY 2021 Plans: April 2019 the Program awarded an Other Transaction Authority (OTA) Firm Fixed Price agreement with defined milestone payments based on technical performance achievements. Configuration of core capabilities expand over 36 months ultimately being deployed to 24,000+ end users. Through fact of life changes and performance of the solution provider, in September 2020 the configuration of the OTA was extended over 51 months keeping the funding requirements the same but adding schedule. The foundational and Wave 1 capabilities, cloud networking capabilities, lead generation and management, prospecting, interviewing, and processing, will be delivered 4QFY21.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Program RDTE funding for AIE in FY22 and beyond has transitioned to PE 0605233A; Project Number CP8.</p>	28.120	32.410	-	-	-
<p>Title: HRC Accessioning IT</p> <p>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.</p> <p>The AIE acquisition program utilizes the DoD 5000.75 Business Capability Acquisition Cycle (BCAC) currently in the Requirements and Acquisition Planning Phase.</p> <p>FY 2021 Plans: The FY 2021 funds support the Army's Accessioning Mission to include the Army Recruiting Information Support System (ARISS). Efforts are ongoing to support Financial Audit Readiness Requirement and technical requirements gathering, analysis and documentation to support TRADOC mission.</p> <p>FY 2022 Base Plans:</p>	-	2.919	3.307	-	3.307

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<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.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Program funding for AIE in FY22 and beyond has transitioned to PE 0605233A; Project Number CP8.</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 2021 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 2021 funding will support validation assessment of the instruments.</p> <p>FY 2022 Base 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 2021 to FY 2022 Increase/Decrease Statement:</p>	1.872	1.657	2.129	-	2.129

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
The decrease from FY21 to FY22 is based on the projected costs for continued specific studies on the effects of targeted training with a goal of mitigating behaviors and risk contributing to suicide.					
Accomplishments/Planned Programs Subtotals	29.992	36.986	5.436	-	5.436

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• BE4164: PERSONNEL	55.650	69.290	43.229	-	43.229	-	-	-	-	-	-
AUTOMATION SYSTEMS											
• OMA - AIE - OMA/331715000: Sustainment Support & CivPay	4.700	5.443	-	-	-	-	-	-	-	-	-

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
Accessions Information Environment (AIE):
AIE is following the tailored Acquisition process for Defense Business Systems (DBS) in accordance with DoD 5000.75 and is currently designated as a Business System Category (BCAT) I program. AIE is acquiring a COTS solution (application hosting) to support the Army's Accessions Enterprise requirements. A competitive prototype contract was awarded on 30 April 2019 to execute the pilot phase. The prototyping efforts will result in capability to be delivered in waves:
Infrastructure & Application Pilot (Wave 1): (FY2020-FY2021) Includes foundational operational capabilities (commercial cloud & network capabilities, initial data migration from legacy systems, critical interfaces, and defined data models) and provides initial functional capability (Lead Generation/Management, Prospecting, Interviewing, and Processing) to up to 344 Early Adopters as well as 717 operational users at 4 sites
Wave 2: (FY2022) Provides additional capability (Pay & Incentives and Intelligence) to an additional 1942 users at 15 additional locations
Wave 3: (FY2022) Provides additional capability (Marketing) to an additional 6466 users at 35 additional locations
Wave 4: (FY2023) Provides additional capability (Training/Leader Development) to an additional 8238 users at 43 additional locations
Wave 5: (FY2023) Provides full capability to all remaining users (7373) at all remaining locations (47)
At the completion of each Wave, new capabilities will be made available to all previously fielded users through the use of Delta training packages sent to the commands. At the conclusion of all Waves, AIE will deliver the Lead Generation & Management, Prospecting, Interviewing, Processing, Pay & Incentives, Intelligence, Marketing, and Training /Leader Development capabilities to support the Army's Accessions mission. Capabilities will be delivered using an agile methodology.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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>
<p>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.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army												Date: May 2021			
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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	Jun 2020	3.223	Jun 2021	-		-		-	0.000	10.542	7.288
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	0.089		-		-		-		-	0.000	0.089	-
Subtotal			-	7.408		3.223		-		-		-	0.000	10.631	N/A
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	Apr 2020	18.059	Apr 2021	-		-		-	0.000	37.937	69.826
AIE - System Partner Interface Development	TBD	TBD : TBD	-	0.572	Apr 2020	8.784	Apr 2021	-		-		-	0.000	9.356	25.604
ARISS	C/CPFF	SAIC : Reston, VA	-	-		2.919	Jan 2021	3.307	Jan 2022	-		3.307	0.000	6.226	3.861
Army Suicide Prevention	TBD	TBD : TBD	-	1.783		1.657		2.129	Feb 2022	-		2.129	Continuing	Continuing	Continuing
Subtotal			-	22.233		31.419		5.436		-		5.436	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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 2022 Army		Date: May 2021
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 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
AIE - Requirments & Acq Planning/AIE Infrastructure & Application	Pilot Wave 1				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
AIE - Acquisition, Testing and Deployment																												
AIE - Limited Deployment ATP (LD ATP)					1 LD ATP																							
AIE - Full Deployment (FD)									2 FD																			
AIE - Capability Support ATP (CS ATP)													3 Capability Support ATP															
AIE - Capability Support & Enhancements																	[Redacted]				[Redacted]				[Redacted]			
HRC Accessioning IT					[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
Army Suicide Prevention					[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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
AIE - Requirments & Acq Planning/AIE Infrastructure & Application Pilot (Wave 1)	3	2019	4	2021
AIE - Acquisition, Testing and Deployment	4	2021	3	2023
AIE - Limited Deployment ATP (LD ATP)	2	2021	2	2021
AIE - Full Deployment (FD)	2	2022	2	2022
AIE ? Capability Support ATP (CS ATP)	3	2023	3	2023
AIE - Capability Support & Enhancements	3	2023	3	2033
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 2022 Army										Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
FM7: <i>Human Resources Information Technology</i>	-	6.740	10.184	12.971	-	12.971	-	-	-	-	-	-
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.

SOLDIER FOR LIFE - TRANSITION ASSISTANCE PROGRAM XXI (SFL-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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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army	Date: May 2021
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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>
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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 provides approximately 64,000 (FY 2018) users with tools and capabilities to collect and preserve Army records, serves as the records management component of Army Knowledge On-Line, and the Secretary of the Army has mandated its use to collect and preserve Army records. ARIMS is replicated 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 management for the ARIMS and ARIMS-C infrastructure. Technology changes, integration, and systems migration require contractor support to ensure Army Electronic Archives 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 CONOPS records). As a web-based 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: ARBA	0.356	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army			Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Description: 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.</p> <p>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.</p>					
<p>Title: G-1 Requirement Builder (R-Builder)</p> <p>Description: 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 and Budget Estimate Submission, and develop and manage the Army's military and civilian personnel in order to execute the President's National Security Strategy.</p>	0.137	-	-	-	-
<p>Title: ARIMS</p> <p>Description: 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 provides approximately 64,000 (FY 2018) users with tools and capabilities to collect and preserve Army records, serves as the records management component of Army Knowledge On-Line, and the Secretary of the Army has mandated its use to collect and preserve Army records. ARIMS is replicated 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 management for the ARIMS and ARIMS-C infrastructure. Technology changes, integration, and</p>	0.853	0.969	1.064	-	1.064

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>systems migration require contractor support to ensure Army Electronic Archives 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 CONOPS records). As a web-based 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.</p> <p>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 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. This effort supports the ADCCP program.</p> <p>FY 2021 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</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army			Date: May 2021		
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)					
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.					
FY 2022 Base 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.					
FY 2021 to FY 2022 Increase/Decrease Statement: Inflation adjustment.					
Title: Army SHARP Data Management					
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 Army sexual assault (SA) legacy data collected prior to 2014 in the Sexual Assault Data Management System (SADMS) IAW public law.					
FY 2021 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.					
FY 2022 Base 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					
	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	-	1.047	1.034	-	1.034

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army			Date: May 2021		
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)					
capabilities, and support predictive analysis for SHARP Data. Automate SHARP ICRS Reporting capabilities and facility integration of EORS system in to ICRS.					
FY 2021 to FY 2022 Increase/Decrease Statement: FY 2021 to FY2022 Decrease of \$9K based on expected reduction of contract costs for SHARP efforts.					
Title: Family Advocacy System of Records (FASOR)					
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.					
FY 2021 Plans: Continued modernization of legacy systems.					
FY 2022 Base 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.					
FY 2021 to FY 2022 Increase/Decrease Statement: None					
	1.738	1.428	1.463	-	1.463
Title: HRC Core IT					
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.					
FY 2021 Plans: FY 2021 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 2021 funding to rationalize data and databases to achieve the Army Data Strategy, modernizing applications to leverage authoritative data sources to reduce duplicate					
	3.656	5.547	8.321	-	8.321

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army			Date: May 2021		
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)					
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).					
FY 2022 Base 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).					
FY 2021 to FY 2022 Increase/Decrease Statement: This addresses three areas for iPERMS modernization to expand compliance with DoDI 1336.08: Military Human Resource Records Life Cycle Management; manual indexing reduction; and archival storage cost mitigation. Additionally, HRC Core IT supports the Army Human Resources (HR) community and the Army accessioning IT mission which includes the automation support for the Army personnel systems, recruiting, accessioning, and Reserve Officers' Training Corps commissioning missions.					
Title: SFL-TAP XXI Modernization					
Description: SFL-TAP Transition Assistance Program (TAP) XXI Modernization - Modernize outdated application in order to create efficiencies and incorporate industry standards.					
FY 2021 Plans: Continued support of cyber security program requirements.					
FY 2022 Base Plans: 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					
	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
	-	1.193	1.089	-	1.089

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Enhancements (MFR & DA Form 7746) 2. Data Warehouse Install 3. Ad Hoc Reporting & Predictive Analytics 4. User Management Module 5. Cybersecurity Requirements.					
<i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> 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.					
Accomplishments/Planned Programs Subtotals	6.740	10.184	12.971	-	12.971

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 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605013A / Information Technology Development				FM7 / Human Resources Information Technology							
Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
SFL--TAP	TBD	To Be Determined : To Be Determined	-	-		0.615		0.652		-		0.652	0.000	1.267	-
Subtotal			-	-		0.615		0.652		-		0.652	0.000	1.267	N/A
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
ARIMS	TBD	TBD : TBD	-	-		0.969		1.064		-		1.064	Continuing	Continuing	Continuing
Army SHARP Data Management	TBD	Data Management : TBD	-	-		1.047		1.034		-		1.034	Continuing	Continuing	Continuing
SFL-TAP	TBD	To Be Determined : To Be Determined	-	-		0.578		0.437		-		0.437	0.000	1.015	-
HRC Core IT	TBD	To Be Determined : To Be Determined	-	3.656	Aug 2020	5.547		8.321		-		8.321	0.000	17.524	-
Subtotal			-	3.656		8.141		10.856		-		10.856	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
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		1.463		-		1.463	Continuing	Continuing	Continuing
Subtotal			-	3.084		1.428		1.463		-		1.463	Continuing	Continuing	N/A
Project Cost Totals			-	6.740		10.184		12.971		-		12.971	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army							Date: May 2021			
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>				
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract	

Remarks
SFL-TAP has no additional changes from FY19-20

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
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>

Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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																												
SFL-TAP XXI Modernization																												
ARIMS																												
Army SHARP Data Management																												
ARBA																												
G-1 Requirements Builder																												
FASOR																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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 2022 Army										Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
FM8: <i>Information Technology for Training Systems</i>	-	15.860	37.011	62.969	-	62.969	-	-	-	-	-	-
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 will replace 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.

ATIS is a Category II Defense Business System and will follow the Business Capability Acquisition Cycle (BCAC) in accordance with DoD 5000.75. ATIS Acquisition, Testing and Development phase is being executed as a single-vendor logical follow-on to the competitively awarded prototyping effort under Other Transaction Authority (OTA), as specifically authorized by 10 U.S.C Section 2371b, in accordance with the Acquisition Strategy. OTA is a streamlined method for transitioning successful prototype projects into follow-on production. Contract was awarded to Perspecta Enterprise Solutions LLC. in FY20, Q3.

Following are the Release capabilities:

- First Release (R1) - Operational, Training and Readiness Support. R1 shall provide, as a minimum, Training Management capability with elements from Training Development, Enterprise Scheduling with readiness reporting capability. Training Management includes access to individual and collective/unit training records aligned

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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>
<p>to mission tasks. The Training Development encompasses assembling training information to include training plans, training events, courses, and exercises. The Enterprise Scheduling enables users to schedule training classrooms or ranges for unit training. The authorized released system shall be scaled to support, as a minimum, 500 sustained, concurrent users. The Release shall ensure coverage of organizations across the spectrum of all six Warfighting Functions (Intelligence, Movement and Maneuver, Fire Support, Command and Control, Protection and Sustainment). The Release shall support users that are geographically dispersed.</p> <p>- Second Release (R2) - Operational Force Support. R2 shall provide, as a minimum, three capabilities in support of the Operational Force: Training Management, Enterprise Scheduling, and Resource Management. The Release shall support the expanded capabilities over a larger, more diverse and geographically dispersed section of the force with focus on FORSCOM and Brigades. The Release shall support 12,000 sustained, concurrent users. The Release shall support 1.02M unique active users annually.</p> <p>- Third Release (R3) - Full Capability Support. The final release shall deliver the remaining ATIS capability: Training Development and Learning Content Management, as well as completion of remaining requirements across all five capability areas. The Learning Content Management hosts the learning content and makes it available for Soldiers to take training anytime, anywhere. The Release shall support 50,000 Sustained, concurrent users. The Release shall support 1.8 million unique active users annually. The final Release will subsume all remaining legacy systems by FY 2024 which signifies the ATIS objective system.</p> <p>***NOTE: The next four systems are not part of the ATIS Development program.***</p> <p>2. DLPT5 Content Analysis, Categorization & Modeling 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. MIT LL Networked Pronunciation Feedback Program (NETProf) expansion will allow for further expansion and further utilization of the existing NetProF products for DLIFLC faculty and students. To reach higher levels of proficiency in foreign languages the planned dialog system would give an advantage to DLIFLC teachers to help students gain advances through practicing speaking using this new dialog system, and the connected NetProF improvement system for pronunciation for longer utterances. This feasibility study will help set new parameters for developing very advanced language teaching systems that otherwise could not be supported. This is in support of the 2+/2+/2 plan.</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</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army	Date: May 2021
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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) FM8 / <i>Information Technology for Training Systems</i>
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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 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Title: Army Training Information System (ATIS)</p> <p>Description: Army Training Information System (ATIS) is an enterprise 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 2021 Plans:</p> <ul style="list-style-type: none"> - FY 2021 Congressionally adjusted funding level will continue to fund the design, build, and test of Release 1 in support of the training management capability to limited portions of the end user community using the Scaled Agile Framework (SAFe) to achieve a successful release - System integrator costs to conduct Interim Authority To Test (IATT) and to support cybersecurity vulnerability scanning, system hardening, Risk Management Framework costs to get the Authority to Operate (ATO). <p>FY 2022 Base Plans:</p> <ul style="list-style-type: none"> - Funds design, build, and test of Release 2. This release will provide, as a minimum, three capabilities in support of the Operational Force: Training Management, Enterprise Scheduling, and Resource Management. - Release 2 shall support the expanded capabilities of the system over a larger, more diverse and geographically dispersed section of the force which will support 12,000 sustained, concurrent users and 1.02 million unique active users annually. <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p> <p>The additional funding of \$26.6M from FY 2021 Congressional adjusted funding to FY 2022 of \$26.6 Million is driven by a significant increase in FY 2022 developmental efforts in support of Release 2 (R2). R2 activities</p>	15.168	34.943	61.316	-	61.316

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army			Date: May 2021				
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
comprise the most critical elements of the program in support of the Operational Force: Training Management, Enterprise Scheduling, and Resource Management. Successful deployment of R2 will provide the Force with an initial operational capability (IOC) which serves as the critical path for the next release. The development, testing, training and global deployment of those capabilities in FY 2022 greatly bolsters the Release 1 (R1) as the funding increase will support scaling up the system to support significantly expanded concurrent users (from 500 (R1) to 12,000 (R2)users), and 1.02 million user- base.							
<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 2021 Plans: Continued development of the DLPT5 content analysis, categorization, and modeling capabilities.</p> <p>FY 2022 Base Plans: Create Automatic Comment & Content Coding and add Psychometric Analytic Tools.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY21 funds increased to support Psychometric Analytic Tools.</p>			-	1.151	1.461	-	1.461
<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> <p>FY 2021 Plans: Last year of funding for this effort to finalize last modernization efforts.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>			-	0.240	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
FY21 was the final year of funding for this effort.					
Title: Army Career Tracker 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 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 2021 Plans: Continued modernization of developmental requirements. FY 2022 Base Plans: Continued modernization and enhancements of the Army Training Models FY 2021 to FY 2022 Increase/Decrease Statement: Decrease in funding due to value change regarding option on Contract.	0.692	0.195	0.192	-	0.192
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. FY 2021 Plans: Continued modernization and enhancements of the Army Training Models. FY 2021 to FY 2022 Increase/Decrease Statement: FY21 was the final year of funding for this effort.	-	0.482	-	-	-
Accomplishments/Planned Programs Subtotals	15.860	37.011	62.969	-	62.969

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.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army	Date: May 2021
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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) FM8 / <i>Information Technology for Training Systems</i>
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C. Other Program Funding Summary (\$ in Millions)

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

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
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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

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

- 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

D. Acquisition Strategy

The Army Training Information System (ATIS) is a Category II Defense Business System and will follow the Business Capability Acquisition Cycle (BCAC) in accordance with DoD 5000.75. ATIS will be comprised of Commercial-of-the-Shelf (COTS) and/or Government-off-the-Shelf (GOTS) that will provide a Common Operational Picture (COP) of the training environment. ATIS will provide Army Commanders, leaders, Soldiers and civilians with a Common Operating Picture (COP) of the Training Environment (TE) that enables situational awareness, effective planning, preparation, execution, and assessments of training readiness. ATIS will reduce the lifecycle costs of training by retiring 28 duplicative, stove-piped systems and improve performance with a net centric, standards-based, architecturally compliant system for the entire Army Training Environment.

The overarching acquisition strategy is divided into three distinct phases.

- Phase I (Prototyping) - Program Risk Mitigation. Characterized by the selection of three vendors to develop, demonstrate and deliver to the Government three ATIS Prototype systems and technical approach documentation. The prototype project was awarded to the C5 Consortium Group to three vendors: Wyle Laboratories, Inc. (KBR), Perspecta Enterprises Solutions, LLC, and CGI Federal Inc. (Completed)
- Phase II (Development) - Each Prototype was evaluated at the end of the Phase I and one vendor, Perspecta Enterprise Solutions LLC. has been selected for Acquisition, Testing and Deployment (AT&D) of the ATIS production system. This phase is being executed as a logical follow-on to the competitively awarded prototyping effort under Other Transaction Authority (OTA), as specifically authorized by 10 U.S.C Section 2371b. It represents a streamlined method for transitioning successful prototype projects into follow-on production. ATIS will be developed over three releases in order to achieve Full Deployment. Each specific release will provide the users with a mature and tested sub-element of the overall capability. The Government/contractor team will employ Agile developmental cycles for each release, with the goal of potentially deploying specific capabilities beginning with Release 1. The Agile (SAFe) development cycle for each release will include, development, testing, training deployment and interim capability support provided by Perspecta LLC.
- Phase III - (Capability Support) - Upon full deployment of the system, a Capability Support Contract will be awarded for life-cycle sustainment and potential disposal of the system at the end of its useful life.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

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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Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	Various : Various	-	0.692		-		-		-		-	0.000	0.692	-
ATIS Interface Agreements	MIPR	Various : Various	-	-		-		0.126		-		0.126	0.000	0.126	-
ATIS Program Management Office	C/FFP	ATIS Program Management Office : Newport News, VA	-	0.332	Jan 2020	0.367	Jan 2021	0.446		-		0.446	0.000	1.145	-
Subtotal			-	1.024		0.367		0.572		-		0.572	0.000	1.963	N/A

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
DLPT5 Content Analysis, Categorization & Modeling	TBD	TBD : TBD	-	-		1.151		1.461		-		1.461	Continuing	Continuing	Continuing
ATIS Product Development Contract	C/FPIF	Perspecta Enterprise Solutions LLC : Herndon, VA	-	14.836	May 2020	34.461	Feb 2021	60.263		-		60.263	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		-		0.192	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		61.916		-		61.916	Continuing	Continuing	N/A

Remarks
 The additional funding of \$26.6M from FY 2021 Congressional adjusted funding to FY 2022 of \$26.6 Million is driven by a significant increase in FY 2022 developmental efforts in support of Release 2 (R2). R2 activities comprise the most critical elements of the program in support of the Operational Force: Training Management, Enterprise Scheduling, and Resource Management. Successful deployment of R2 will provide the Force with an initial operational capability (IOC) which serves as the critical path for the next release. The development, testing, training and global deployment of those capabilities in FY 2022 greatly bolsters the Release 1 (R1) as the funding increase will support scaling up the system to support significantly expanded concurrent users (from 500 (R1) to 12,000 (R2)users), and 1.02 million user- base.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

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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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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		-		0.481	0.000	0.596	-
Subtotal			-	-		0.115		0.481		-		0.481	0.000	0.596	N/A
Project Cost Totals			-	15.860		37.011		62.969		-		62.969	Continuing	Continuing	N/A

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

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
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 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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: Acquisition Authority to Proceed (ATP)	▲ 1 A ATP																											
ATIS: Contract Award	▲ 2 ATIS Contract Award (OTA)																											
ATIS Critical Design Review Release 1				■ CDR for Release 1																								
ATIS: Release1 Build, Test, Deploy			■ R1																									
ATIS: Critical Design Review 2									■ CDR for Release 2																			
ATIS: Release 2 Build, Test, Deploy									■ R2																			
ATIS Development and Operational (Unit Experience) Testing									■ DT/OT																			
ATIS Critical Design Review Release 3													■ CDR for Release 3															
ATIS: Release 3 Build, Test, Deploy													■ R3															
ATIS: Interim Operational Capability (IOC)													▲ 3 IOC															
ATIS: Full Deployment Authority to Proceed																▲ 4 FD ATP												
ATIS: Capability Support Authority to Proceed																				▲ 5 CS ATP								
ATIS Full Deployment																								▲ 6 FD				

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 2022 Army		Date: May 2021
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>

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 Critical Design Review Release 1	4	2020	4	2020
ATIS: Release1 Build, Test, Deploy	3	2020	1	2022
ATIS: Critical Design Review 2	2	2022	2	2022
ATIS: Release 2 Build, Test, Deploy	1	2022	1	2023
ATIS Development and Operational (Unit Experience) Testing	4	2022	4	2022
ATIS Critical Design Review Release 3	1	2023	1	2023
ATIS: Release 3 Build, Test, Deploy	1	2023	4	2024
ATIS: Interim Operational Capablility (IOC)	1	2023	1	2023
ATIS: Full Deployment Authority to Proceed	4	2023	4	2023
ATIS: Capability Support Authority to Proceed	3	2024	3	2024
ATIS Full Deployment	3	2024	3	2024

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 2022 Army **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
FM9: <i>Information Technology for Criminal Investigations</i>	-	0.865	1.190	1.226	-	1.226	-	-	-	-	-	-
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Criminal Investigative Management System (CIMS)	0.865	1.190	1.226	-	1.226
<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 2021 Plans:</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>The FY 2021 funds will be utilized to incorporate the Defense Forensics Management Exchange (DFME) system consisting of three applications ? Evidence Management Portal (EMP), Evidence Collection Management Extended (ECMx) and Next Generation Identification (Livescan/Fingerprints) into the CIMS environment. The three applications provide evidence collection and management to the different branches of the military as well as the transmission of fingerprint data to the Federal Bureau Investigation's (FBI) National Crime Information Center (NCIC) for the prevention of the legal purchase of firearms by individuals convicted of a criminal offense</p> <p>FY 2022 Base 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 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 2021 to FY 2022 Increase/Decrease Statement: Change is due to inflation</p>					
Accomplishments/Planned Programs Subtotals	0.865	1.190	1.226	-	1.226

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

N/A

Remarks

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 2022 Army **Date:** May 2021

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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	Various : Various	-	0.052		-		-		-		-	0.000	0.052	-	
Subtotal			-	0.052		-		-		-		-	0.000	0.052	N/A	

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	Jul 2020	1.190	Jul 2021	1.226	Jul 2021	-		1.226	0.000	3.229	-	
Subtotal			-	0.813		1.190		1.226		-		1.226	0.000	3.229	N/A	

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

Project Cost Totals	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
	-	0.865	1.190	1.226	-	1.226	0.000	3.281	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 2022 Army			Date: May 2021
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 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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)_OY2	[Redacted] contract award																											
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 2022 Army		Date: May 2021
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 2022 Army										Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T04: <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>	-	14.609	8.997	10.892	-	10.892	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: USMIRS Modernization/Digitization	14.609	8.997	10.892	-	10.892

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Description: FY20 funding supports the USMIRS 1.1 modernization efforts as well as the Force of the Future texting modernization.</p> <p>FY 2021 Plans: Starting in October of 2020 a contract will be awarded with these funds that will begin developing the USMIRS 1.1 non-core applications. Examples of these applications include our testing application as well as our order writing application. Modernized non-core applications will replace functionality of legacy applications, but will be built from scratch using modern coding, programming, and architecture.</p> <p>A portion of the funding in FY 2021 also supports the Force of the Future efforts mentioned in the description.</p> <p>FY 2022 Base Plans: FY22 funding supports the expansion of the USMIRS 1.1. This expansion includes legacy application migration (non-core applications), and medical processing enhancements.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY21 to 22 increase represents the cost to further develop the non-core USMIRS 1.1 system of systems.</p>					
Accomplishments/Planned Programs Subtotals	14.609	8.997	10.892	-	10.892

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

Remarks

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.

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.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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>
<p>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.</p> <p>Milestones:</p> <ol style="list-style-type: none">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 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605013A / Information Technology Dev elopment				T04 / USMEPCOM TRANSFORMTION - IT MODERNIZATION							
Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
Defense Digital Services/ Tandem (Previously DEVMYND) USMIRS Prototype Development	MIPR	Defense Digital Services (DDS) Managing the Tandem contract (formerly DEVMYND) : Chicago, IL	9.600	-		-		-		-		-	0.000	9.600	-
Subtotal			9.600	-		-		-		-		-	0.000	9.600	N/A
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
Develop CORE USMIRS Prototype into Minimum Viable Product (MVP)	C/TBD	TBD : TBD	9.402	6.209		-		-		-		-	0.000	15.611	-
Develop NON-CORE USMIRS 1.1 Applications	C/TBD	TBD : TBD	-	-		8.997	Jul 2021	10.892	Jul 2021	-		10.892	Continuing	Continuing	Continuing
Subtotal			9.402	6.209		8.997		10.892		-		10.892	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
Force of the Future Testing Modernization	Various	Various services performing testing modernization : Multiple	21.331	8.400		-		-		-		-	0.000	29.731	-
Subtotal			21.331	8.400		-		-		-		-	0.000	29.731	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
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 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Core USMIRS 1.1 Prototype is Delivered	▲ 1																											
Award Contract and Develop Prototype into MVP		■																										
Award Contract to Develop USMIRS 1.1 Non-Core Applications							▲ 2																					
Receive Finished MVP								▲ 3																				
Rollout Production MVP to the Field								■																				
Core USMIRS 1.1 FOC								▲ 4																				
Development of the non-core USMIRS 1.1 Applications and MHS Genesis Link									■																			

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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 2022 Army										Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T05: <i>Army Business System Modernization Initiatives</i>	-	6.398	16.286	24.035	-	24.035	-	-	-	-	-	-
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 and the tools that are available are on outdated technology platforms. GFIM will provide the tools necessary to dynamically develop, design, and document the Army's force structure 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 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 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.

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

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.

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.

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).

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Global Force Information Management	3.269	11.725	15.377	-	15.377
<p>Description: Global Force Information Management (GFIM): GFIM will provide the Army an enterprise, integrated transactional authoritative global force management capability for lifecycle management of force/organizational structure data for the entire Army. This is in support of dynamic force structure and dynamic force employment as directed in National Defense Strategy. GFIM will establish a common standard for force structure data by implementing OSD's Global Force Management Data Initiative (GFM-DI) directive and Army Data Standard. This effort will decrease/consolidate 13 legacy applications/ systems per USA Investment Decision Memorandum.</p> <p>FY 2021 Plans:</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Funding will be used to deliver a rapid prototype for Phase I of GFIM (Dynamic Force Structure) under the Adaptive Acquisition framework. This capability will be the authoritative transactional capability that creates and develops the requisite authoritative force structure needed to man, equip, train, ready, and resource the Army at rest.</p> <p>FY 2022 Base 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 2021 to FY 2022 Increase/Decrease Statement: Less than 1% difference.</p>					
<p>Title: Army Business System Modernization Initiatives</p> <p>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</p>	3.129	2.836	0.976	-	0.976

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Information Act requests (FOIA), legal discovery request, court preparation and outsource processing.</p> <p>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 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 2021 Plans: Continue to fund Army Business System Modernization Initiatives.</p> <p>FY 2022 Base Plans: Continue to fund Army Business System Modernization Initiatives.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increased requirements for installations business systems.</p>					
<p>Title: Corp of Engineers Installation IT Support</p> <p>Description: Funding is used to modernize Army installation IT systems.</p>	-	1.725	0.986	-	0.986

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army			Date: May 2021		
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p><i>FY 2021 Plans:</i> Funding is used to modernize Army installation IT systems.</p> <p><i>FY 2022 Base Plans:</i> Funding is used to modernize Army installation IT systems.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Funding reduction reflects planned life cycle for this effort.</p>					
<p><i>Title:</i> Additive Manufacturing</p> <p><i>Description:</i> 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, Army industrial base and Army tactical units.</p> <p><i>FY 2022 Base Plans:</i> \$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><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Commenced research on additive manufacturing database</p>	-	-	4.915	-	4.915
<p><i>Title:</i> Installation Systems Modernization</p> <p><i>Description:</i> Consolidation of installation systems and upgrades of applications</p> <p><i>FY 2022 Base Plans:</i> Upgrade software</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Task was imbedded under other tasks within this Project in FY21.</p>	-	-	1.781	-	1.781
Accomplishments/Planned Programs Subtotals	6.398	16.286	24.035	-	24.035

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

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

N/A

Remarks

D. Acquisition Strategy

GFIM will leverage existing Force Management System Cost Plus Award Fee contract to execute development efforts. The acquisition approach will lead to contract actions supporting a lab environment, a SETA support contract and a Systems Integrator (SI) contract. Each acquisition activity will be supported by an acquisition plan and package consisting of market research, an independent government cost estimate and an independent government estimate of an execution schedule.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

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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Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	-	-		-		1.781		-		1.781	0.000	1.781	-
Subtotal			0.639	0.324		-		1.781		-		1.781	0.000	2.744	N/A

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	25.986	0.846		-		-		-		-	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	29.139	2.460		2.836		0.976		-		0.976	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	1.151	2.768		11.725		15.377		-		15.377	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 2022 Army **Date:** May 2021

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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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 Support	TBD	TBD : TBD	-	-		1.725		0.986		-		0.986	0.000	2.711	-
Additive Manufacturing	TBD	TBD : TBD	4.958	-		-		4.915		-		4.915	0.000	9.873	-
Subtotal			193.235	6.074		16.286		22.254		-		22.254	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 entire Army. 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.

The Army Human Resources Command (HRC) has several efforts for which RDT&E will be applied. One is to prepare those systems for subsumption into the Integrated Personnel and Pay System (IPPS-A). The other is to disconnect and upgrade those systems not being subsumed by IPPS-A. Systems that will be targeted by HRC to prepare for IPPS-A subsumption or upgrade are the Automated Orders and resources System (AORS), Army Selection Board System (ASBS), Data Base Administration Suite of System (DBA), Enlisted Distribution and Assignment system (EDAS), Enlisted Promotion Model (EPM), Enterprise Service Bus (ESB), Human Resource Command Identity Management System (HIMS), Integrated Total Army Personnel Database (ITAPDB), Officer Selection Support System (OSSS), Reserve Statistics Accounting System/ Reserve Component Common Personnel Data System (RSAS/RCCPDS), Senior Enlisted Promotions Model (SEPM), Single Evaluation Processing System (SEPS), Soldier Management System Webified Suite of System (SMSWEB), Total Army Personnel Data Base - Active Enlisted (TAPDB-AE), Total Army Personnel Data Base - Active Officer (TAPDB-AO), Total Army Personnel Data Base - Active Reserve (TAPDB-AR), Total Officer Personnel Management Information System (TOPMIS), Total Officer Personnel Management Information System II (TOPMIS II), Keystone Request/Retain System, and the Interactive Personnel Electronic Records Management System (iPERMS).

HRC Core IT: Award date shown reflects iPERMS IT Integration Contract. SMS-WEB and ASBS 2.0 are on the Digital Application Support Task Order (DASTO) with an award date of 6 Feb 2018.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army								Date: May 2021			
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>				
	Prior Years	FY 2020	FY 2021		FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	193.874	6.398	16.286		24.035	-	24.035	Continuing	Continuing	N/A	

Remarks
 GFIM - In FY 2019 RCAS/FMS received \$1 million for upgrading standard schema based on OSD mandate for joint interoperability and Force Structure modernization. Prototype design is planned for FY 2020.

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
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 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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]							
ATIS	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Global Force Information Management	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
GFIM Development	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
SFL-TAP XXI Modernization	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
SFL-TAP XXI	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
HRC Core IT	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
HRC Core IT	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Capabilities Requirement Document	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
CRD	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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	2025
SFL-TAP XXI Modernization	1	2019	4	2024
HRC Core IT	4	2018	4	2020
Capabilities Requirement Document	1	2020	1	2021

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 2022 Army **Date:** May 2021

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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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
VR3: <i>ASMIS-R (REPORTIT)</i>	-	2.720	3.041	3.180	-	3.180	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Army Safety and Health Management System (ASHMS) initiative provides a framework of people, processes and technology to synchronize, integrate and optimize Army Safety and Occupational Health (SOH) capabilities to reserve 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 Doctrine, Organization, Training, Materiel, Leadership and education, Personnel, Facilities and Policies (DOTMLPF-P) determined that the Army Safety Management Information System - Revised (ASMIS-R), a Defense Business System, is currently not able to satisfy current and emerging ASHMS capability requirements without modernization to resolve these capability gaps. Changes in requirements for the Army Safety and Health Management System (Programmatic) related to Department of Defense Instruction (DoDI) 6055.01, Army Regulation (AR) 385-10, Information Assurance requirements and direct feedback from the Safety professionals within the Department of Defense (DoD) and the Army have resulted in the need for changes in associated business processes. Additionally, a business gap analysis performed by the Office of the Deputy Assistant Secretary of the Army for Environment, Safety and Occupational Health (DASA(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 posture (compliance), increasing the Army's ability to reduce mishaps across the force structure, and promoting Army Force Generation (ARFORGEN) capabilities.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: ASMIS-R Development	2.720	3.041	3.180	-	3.180
<p>Description: The ASHMS initiative 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 determined that the ASMIS-R, a Defense Business System, is currently not able to satisfy current and emerging ASHMS 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</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army	Date: May 2021
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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) VR3 / <i>ASMIS-R (REPORTIT)</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
requirements, improving data integrity, improving information assurance posture (compliance), increasing the Army's ability to reduce mishaps across the force structure, and promoting ARFORGEN capabilities.					
<i>FY 2021 Plans:</i> Continue work with Army Analytics Group and contract for the development of the fourth activity.					
<i>FY 2022 Base Plans:</i> Continue work with Army Analytics Group and contract for the development of the fourth and fifth activity.					
<i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Increase - Continue development of ASMIS 2.0 products and tools.					
Accomplishments/Planned Programs Subtotals	2.720	3.041	3.180	-	3.180

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

N/A

Remarks

D. Acquisition Strategy

ASMIS-R is comprised of legacy modules (applications) that require modernization to maintain their relevancy to the Army in support of mishap reduction. As stated above, these are primarily related to meeting minimum DoD regulatory requirements related to the collection of mishap information, safety information storage, and resolving inefficiencies in data quality control and information flow.

Additionally, advances in technology allow for improvements in performance and data integrity that currently are deficiencies in the system. ASMIS-R, in its current state, does not provide any IT (material solution) to the business requirements identified above. The Command has utilized a firm-fixed-price (FFP) contract to execute specific Task Orders to develop the tools and products through mid-year Fiscal Year 2015 (FY15). The CRC will be competing a new contract vehicle to support the development of products and tools from midyear FY15 through FY24.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	-
Subtotal			-	0.180		-		-		-		-	0.000	0.180	N/A

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	0.860	0.093		0.156		0.180		-		0.180	Continuing	Continuing	Continuing
Subtotal			0.860	0.093		0.156		0.180		-		0.180	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	TBD	Army Contracting Command : Natick	3.964	2.447		2.885		3.000		-		3.000	Continuing	Continuing	Continuing
Subtotal			3.964	2.447		2.885		3.000		-		3.000	Continuing	Continuing	N/A

Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract			
Project Cost Totals			4.824	2.720		3.041		3.180		-		3.180	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army			Date: May 2021		
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 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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 2022 Army		Date: May 2021
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