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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Army **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	74.551	88.689	142.678	-	142.678	122.951	133.093	171.810	44.313	0.000	778.085
099: <i>Army Human Resource System</i>	-	1.424	2.270	0.981	-	0.981	0.315	0.210	0.000	0.000	0.000	5.200
184: <i>Installation Support Modules</i>	-	1.547	1.377	1.410	-	1.410	1.277	1.294	1.307	1.320	0.000	9.532
193: <i>Medical Communications For Combat Casualty</i>	-	2.367	0.052	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.419
738: <i>AcqBiz</i>	-	22.400	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	22.400
FE9: <i>ALTESS (P&R Forms)</i>	-	0.112	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.112
FL9: <i>Army Accessioning IT Development</i>	-	0.000	31.279	48.727	-	48.727	25.081	17.243	16.378	14.302	0.000	153.010
FM7: <i>Human Resouces Information Technology</i>	-	0.000	9.102	13.682	-	13.682	13.624	13.664	7.734	7.771	0.000	65.577
FM8: <i>Information Technology for Training Systems</i>	-	0.000	18.320	41.697	-	41.697	33.798	24.495	4.167	4.213	0.000	126.690
FM9: <i>Information Technology for Criminal Investigations</i>	-	0.000	1.142	1.236	-	1.236	1.241	1.244	1.246	1.258	0.000	7.367
T04: <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>	-	17.802	15.236	10.971	-	10.971	11.372	2.233	0.000	0.000	0.000	57.614
T05: <i>Army Business System Modernization Initiatives</i>	-	27.530	5.720	20.818	-	20.818	33.024	69.445	137.680	12.118	0.000	306.335
VR3: <i>ASMIS-R (REPORTIT)</i>	-	1.369	2.836	3.156	-	3.156	3.219	3.265	3.298	3.331	0.000	20.474
XV6: <i>Army Leader Dashboard</i>	-	0.000	1.355	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.355

A. Mission Description and Budget Item Justification

This program supports efforts to plan, design, develop, and test information technology solutions to fulfill the Army's Warfighter Support Mission and accommodate changing Army requirements while fulfilling future Army needs. Provides for development and acquisition of Combat Service Support (CSS) and business information technology solutions to help arm, sustain, fix, move, train and man the force. Completed development/acquisition efforts will also enhance sustaining base functions

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and power projection capabilities and facilitate global messaging and electronic data interchange (EDI). Ongoing development efforts support multiple functional areas including logistics, personnel, transportation, training, medical/health protection, and the sustaining base.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	77.686	126.537	150.493	-	150.493
Current President's Budget	74.551	88.689	142.678	-	142.678
Total Adjustments	-3.135	-37.848	-7.815	-	-7.815
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-37.848			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-3.135	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-7.815	-	-7.815

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) 099 / <i>Army Human Resource System</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
099: <i>Army Human Resource System</i>	-	1.424	2.270	0.981	-	0.981	0.315	0.210	0.000	0.000	0.000	5.200
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) 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. CRRD has additional enhancements projected for the programmed \$621K to improve the Increment (INC) II capability release.

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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capabilities and bring RLAS into compliance with various Army Cyber Command (ARCYBER) and audit readiness requirements. RLAS will continue to process duty attendance, military pay, Soldier personnel transactions and training calendars until the system is fully subsumed by IPPS-A.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>Title: Commanders Risk Reduction Dashboard (CRRD)</p> <p>Description: CRRD is a capability that enable Commanders in the U.S. Army to identify, act upon, monitor, track, and manage soldier-level and unit-level risk. CRRD will consolidate information from multiple Army databases and present to commanders a concise dashboard visualizing which Soldiers and units within their command are impacted by a variety of risk factors.</p> <p>FY 2020 Plans: In FY 2020 the CRRD tool will develop additional interfaces as required by Commanders as they become more familiar with the system's capability, and refinement of existing capability based upon Commander feedback. The funding also enables interface and capability development for Executive Officers, First Sergeants, and Command Sergeants Major as authorization to use the CRRD capability grows to include those user groups (currently under policy review). Funding will also enable refinement of predictive analytics and the ability to generate and print additional reports based on Commander feedback.</p> <p>FY 2021 Base Plans: CRRD has additional enhancements projected for the programmed \$621K to improve the Increment (INC) II capability release. Anticipation of new features and functionality to support the CRRD mission and growth.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: CRRD moves from full deployment to capability support from FY 2020 to FY 2021. The decrease in required funding in FY 2021 supports the anticipated new features and functionality to support the program mission and growth.</p>	0.100	1.533	0.571	-	0.571
<p>Title: GoArmyEd Modernization</p> <p>Description: GoArmyEd is an IT financial management portal and decision support tool for Soldiers, Cadets, and Civilians to request Tuition Assistance (TA) and Credentialing Assistance(CA), Scholarship Cadet payments and Army civilians to request training funds online, anytime for classroom, distance learning, and college courses. GoArmyEd enforces policies, procedures and eligibility for over \$492M of funds supporting Soldier and Scholarship Cadets? higher education goals; and Civilians and Apprentices? professional development. The modernized GoArmyEd?s automated interfaces will reduce manpower and other costs while improving all users? interactions and enhancing security features. Funding will support continued modernization/automation of GoArmyEd functionality and the transition to the HRC Data Center from a vendor</p>	0.772	0.216	0.050	-	0.050

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>datacenter. When the modernized system acquires all functionality, the legacy system will be deactivated. 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.</p> <p>FY 2020 Plans: Finalize all contingency operations. Modern GoArmyEd goes live, current GoArmyEd deactivated.</p> <p>FY 2021 Base 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.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding decrease as it's near completion.</p> <p>Title: Regional Level Application Software (RLAS)</p> <p>Description: The United States Army Reserve (USAR) utilizes the Regional Level Application Software (RLAS) as an enterprise system for duty attendance, military pay, Soldier records management and training calendar management to access, transact, store and manage Soldier and unit data required to conduct synchronized USAR operations. Unlike the Army Active Component (AC) where Soldier military pay is centrally managed and input at the installation level, the USAR utilizes RLAS to manage and input decentralized Soldier pay transactions at the unit level. RLAS consists of four modules: Pay, Personnel, Training, and Resource Management. R&D authority and funding will meet the USAR Staff Judge Advocate (SJA) and Office of the Secretary of Defense Judge Advocate General (OTJAG) opinions regarding defense information Technology (IT) system for R&D activities. Necessary RLAS system development and system modifications include: 1) Integrated Pay and Personnel System ? Army (IPPS-A) interface requirements; 2) implementing Microsoft .net Framework 4.5 standards; 3) implementing new Operating Systems (OS), system utilities and other technology</p>					
	0.552	0.419	0.360	-	0.360

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
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.					
<i>FY 2020 Plans:</i> Leverage virtual platform environment -move RLAS into the Army.mil highest level Active Directory Domain allowing RLAS to be accessed by users worldwide - removing RLAS from the USAR ARNET AD Enclave (remove domain). Leverage .Net architecture to improve RLAS system performance and user experience for faster load times.					
<i>FY 2021 Base Plans:</i> Minor adjustments to be made to the Architecture in the virtual platform environment.					
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Decrease in funding is due to the minor adjustments being made to the RLAS architecture.					
<i>Title:</i> FY 2020 SBIR/STTR Transfer	-	0.102	-	-	-
<i>Description:</i> Funding transferred in accordance with Title 15 USC ?638					
<i>FY 2020 Plans:</i> Funding transferred in accordance with Title 15 USC ?638					
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Funding transferred in accordance with Title 15 USC ?638					
Accomplishments/Planned Programs Subtotals	1.424	2.270	0.981	-	0.981

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
• OMA - CRRD: <i>Capability Support (Sustainment)</i>	2.280	-	6.710	-	6.710	7.360	5.840	5.250	5.530	0.000	32.970

Remarks
CRRD - OMA efforts support the sustainment labor support, software maintenance and hosting, and System Integrator support. FY 2019 - \$2.28M, FY 2020 - \$5.59M, FY 2021 - \$6.71M, FY 2022 - \$7.36M, FY 2023 - \$5.84M, FY 2024 - \$5.25M, FY 2025 - \$5.53M. Note: CRRD OMA is funded via HQDA G-1.

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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.

CRRD - CRRD uses an incremental acquisition approach and leverages user experience experiments (UXEs) for user inputs to allow for rapid development, maximum adoption, continuous product improvements, and technical innovation. The iterative development methodology will enable expedited deployment of the capability to the field while maintaining Acquisition control through Limited Deployment Authorities to Proceed and a competitively awarded sustainment contract.

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 2021 Army **Date:** February 2020

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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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		-		0.050	0.000	0.641	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.102		-		-		-	0.000	0.102	-
Subtotal			2.110	-		0.102		0.050		-		0.050	0.000	2.262	N/A

Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	89.251	0.513	Mar 2019	0.571		0.360		-		0.360	0.000	90.695	-
AHRS - Software Development	C/FFP	Hewlett Packard : various	51.723	-		-		-		-		-	0.000	51.723	-
GoArmyEd Modernization	C/FFP	IBM : Various	16.852	0.732		0.195		-		-		-	0.000	17.779	-
CRRD	C/FFP	Various : Various	8.460	0.100	Nov 2018	1.402		0.571	Nov 2020	-		0.571	0.000	10.533	-
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	-	0.079		-		-		-		-	0.000	0.079	-
Subtotal			166.286	1.424		2.168		0.931		-		0.931	0.000	170.809	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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		168.396	1.424	2.270	0.981	-	0.981	0.000	173.071	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
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Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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																												
GoArmyEd Modernization																												
Commanders Risk Reduction Dashboard (CRRD) Development																												
Commanders Risk Reduction Dashboard (CRRD) Limited Deployment (LD)																												
Commanders Risk Reduction Dashboard (CRRD) Enhancements																												
Commanders Risk Reduction Dashboard (CRRD) Full Deployment (FD)																												
Commanders Risk Reduction Dashboard (CRRD) Sustainment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
GoArmyEd Support/Enhancements	3	2018	4	2020
Commanders Risk Reduction Dashboard (CRRD) Development	3	2015	2	2020
Commanders Risk Reduction Dashboard (CRRD) Limited Deployment (LD)	4	2019	4	2019
Commanders Risk Reduction Dashboard (CRRD) Enhancements	2	2020	2	2021
Commanders Risk Reduction Dashboard (CRRD) Full Deployment (FD)	1	2020	1	2020
Commanders Risk Reduction Dashboard (CRRD) Sustainment	2	2020	4	2029

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) 184 / <i>Installation Support Modules</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
184: <i>Installation Support Modules</i>	-	1.547	1.377	1.410	-	1.410	1.277	1.294	1.307	1.320	0.000	9.532
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.

Coalition Warfighter Interoperability Demonstration (CWID) is a mandated Joint program that requires participation by the US Army to explore near-term technologies that support Joint and Coalition Warfare Interoperability. Funding is to facilitate Coalition Force interoperability research and development and to comply with CJCSI 6230.2 date 30 April 2005.

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Army Behavioral Health Integrated Data Environment	1.547	1.377	1.410	-	1.410
Description: Army Behavioral Health Integrated Data Environment (ABHIDE) will be the U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM) Suicide Registry.					

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p><i>FY 2020 Plans:</i> 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.</p> <p><i>FY 2021 Base Plans:</i> 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.</p> <p><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Increase in funding results from requirements adjustment do to updated analysis of system functions.</p>					
Accomplishments/Planned Programs Subtotals	1.547	1.377	1.410	-	1.410

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

Line Item	FY 2019	FY 2020	FY 2021	FY 2021	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Cost To	
			Base	OCO	Total					Complete	Total Cost
• BE4162: MACOM AUTOMATION SYSTEMS	131.135	80.861	44.429	13.852	58.281	31.896	39.397	30.134	33.244	Continuing	Continuing

Remarks

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D. Acquisition Strategy

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	8.246	1.467	Feb 2019	1.377		1.410	Feb 2021	-		1.410	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	-
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	-	0.080		-		-		-		-	0.000	0.080	-
Subtotal			14.398	1.547		1.377		1.410		-		1.410	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	-		-		-		-		-	0.000	2.111	-
Subtotal			2.111	-		-		-		-		-	0.000	2.111	N/A

Project Cost Totals	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
	16.509	1.547	1.377	1.410	-	1.410	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army			Date: February 2020
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>	

Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ISM Post Deployment Software Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
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	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
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>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
193: <i>Medical Communications For Combat Casualty</i>	-	2.367	0.052	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	2.419
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

RDTE effort on this project completed in FY 2020.

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 this project completed in FY 2020.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Engineering and Technical Support	1.136	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.					
FY 2020 Plans: Monitor emerging technologies for potential incremental integration into system baseline.					
FY 2020 to FY 2021 Increase/Decrease Statement:					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
RDTE for this project completed in FY 2020					
Title: PMO Testing Support Description: Test augmentation by outside agencies to include test efforts for DHMS/TMIP-J and other Army unique software capabilities.	0.200	-	-	-	-
Title: MC4 Electronic Health Record Integration and Testing Description: Development testing of DHMS Electronic Health Record software; Lab site studies with technology and scenarios; Integration testing of software systems on the MC4 baseline system; test and evaluation of new capabilities for combat theater functionality.	1.031	-	-	-	-
Title: FY 2020 SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638 FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638 FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638	-	0.002	-	-	-
Accomplishments/Planned Programs Subtotals	2.367	0.052	-	-	-

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
• MA8000: <i>Family of Med Comm for Combat Casualty Care</i>	22.226	17.821	18.313	1.257	19.570	14.764	7.472	-	-	0.000	81.853
• OMA - 432612000: <i>Information Management-Automation Spt</i>	-	-	0.440	-	0.440	0.220	0.220	-	-	0.000	0.880

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

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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>
<p>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.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	6.588	2.026	Jan 2019	0.050	Jan 2020	-		-		-	0.000	8.664	-
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 2021 Army **Date:** February 2020

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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			17.761	2.026		0.050		-		-		-	0.000	19.837	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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	6.761	0.200		-		-		-		-	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			50.413	0.200		-		-		-		-	0.000	50.613	N/A

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

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	76.579	2.367	0.052	-	-	-	0.000	78.998	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army			Date: February 2020
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 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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 #2 for TMIP-J I2R3	System updates approximately 1Q and 3Q each FY																											
System Updates #3 for TMIP-J I2R3					System updates approximately 1Q and 3Q each FY																							
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 2021 Army		Date: February 2020
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 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 738 / <i>AcqBiz</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
738: <i>AcqBiz</i>	-	22.400	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	22.400
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

PL AcqBusiness provides acquisition-centric enterprise solutions. Delivers innovative and adaptive solutions that streamline the collection and analysis of data to support powerful decisions across the Army acquisition enterprise. PL AcqBusiness will be the premier source of information technology solutions that enable information dominance at all levels of the Army acquisition enterprise. PL AcqBusiness provides Army Acquisition practitioners with a consistent set of unique business tools, web services, and decision support tools integrated through a common architecture, which provide visibility of authoritative data, consistency in business process, and more timely support to acquisition decisions. The enterprise tools provided via PM AcqBusiness enable the reduction and eventual elimination of stovepipe and redundant tools that exist in the domain today. PL AcqBusiness provides an environment that enables centralized, role-based access to trusted and authoritative data from disparate Acquisition Domain data sources. In addition, PL AcqBusiness provides a framework for information providers to publish their data and provide their services to authorized users.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Program Management	11.153	-	-	-	-
Description: This effort provides program management in support of the Human Resource Command Accessioning IT mission.					
Title: Design, Development, and Test	11.247	-	-	-	-
Description: This effort provides program management in support of the Human Resource Command Accessioning IT mission.					
Accomplishments/Planned Programs Subtotals	22.400	-	-	-	-

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

N/A

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 738 / <i>AcqBiz</i>

D. Acquisition Strategy

The ACQBIZ system will sunset and Integrated Program Management Environment (IPME) will be sustained in a commercial cloud environment in FY 2019. (PE 0605013A project: 738 TO PE 0605803A)

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army			Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 738 / <i>AcqBiz</i>	

Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
Major or Minor Release FY19				1																								
HRC Accessioning IT																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) 738 / <i>AcqBiz</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Technical Prototyping & Component Integration	1	2006	4	2018
Major or Minor Release FY15	4	2015	4	2015
Major or Minor Release FY16	4	2016	4	2016
Major or Minor Release FY17	4	2017	4	2017
Sustainment FY18	1	2006	4	2018
Sunset ACQBIZ System FY19	4	2018	4	2018
Major or Minor Release FY19	4	2019	4	2019
HRC Accessioning IT	2	2018	4	2019

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FE9 / <i>ALTESS (P&R Forms)</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
FE9: <i>ALTESS (P&R Forms)</i>	-	0.112	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.112
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This project funds the P&R Forms application; which supports the creation and production of the Committee Staff Procurement Backup Book (P-Forms), as well as Research, Development, Test and Evaluation Descriptive Summaries (RDTE, or R-Forms). Using P&R Forms, budgetary forms and data can be quickly and efficiently submitted, coordinated, and approved.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<i>Title:</i> Continued development of the Army's Budget System	0.112	-	-	-	-
<i>Description:</i> The P&R Forms application supports the creation and production of the Committee Staff Procurement Backup Book (P-Forms), as well as Research, Development, Test and Evaluation Descriptive Summaries (RDTE, or R-Forms). Using P&R Forms, budgetary forms and data can be quickly and efficiently submitted, coordinated, and approved.					
Accomplishments/Planned Programs Subtotals	0.112	-	-	-	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army			Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FE9 / <i>ALTESS (P&R Forms)</i>	

Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
P&R Forms v7.45Release																												



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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) FE9 / <i>ALTESS (P&R Forms)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Application Support and assist users for FY18 Presidential Budget	2	2017	3	2017
Application Support and assist users for FY19 BES	4	2017	1	2018
P&R Forms v7.1 Release	2	2017	2	2017
P&R Forms v7.2 Release	4	2017	4	2017
P&R Forms v7.3 Release	2	2018	2	2018
P&R Forms v7.4 Release	4	2018	4	2018
P&R Forms v7.45Release	4	2019	4	2019

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
FL9: <i>Army Accessioning IT Development</i>	-	0.000	31.279	48.727	-	48.727	25.081	17.243	16.378	14.302	0.000	153.010
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Accessions Information Environment (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 COTS-based information technology (IT) software system that will modernize the AE. It will be a fully integrated Army-wide enterprise level software system for the accessions workforce to acquire the best-qualified warfighting talent (officer/enlisted/internal recruiting requirements) to meet Army recruiting and accessions requirements. 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. In FY 2021, AIE will continue prototyping efforts, adding required capabilities to deployed functionality. AIE prototyping started in FY 2019, continued in FY 2020, and will continue to execute within the DoD 5000.75 Acquisition, Testing and Deployment phase. The prototype will be matured to increase functionality to be deployed based on the planned iterative Capability Waves. The FY 2021 funding will continue to support iterative Wave requirements analysis, business process reengineering, design, capability configuration, interface development, capability integration, cybersecurity engineering (to include Risk Management Framework continuous monitoring), systems engineering, software licenses for configuration and early adopter user environment, System Test & Evaluation, and Cloud Hosting (applications and data storage) to expand the prototype solution to an additional 6,466+ recruiters while preparing deployment and training to an additional 15,611+ recruiters.

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.

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

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Accessions Information Environment (AIE)	-	29.282	42.740	-	42.740

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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) FL9 / <i>Army Accessioning IT Development</i>

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<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>The AIE acquisition program is utilizing the DoD 5000.75 Business Capability Acquisition Cycle (BCAC) currently in the Requirements and Acquisition Planning Phase.</p> <p>FY 2020 Plans: AIE will continue prototyping efforts, started in FY 2019, by adding required capabilities to the deployed pilot solution. In FY 2020, the AIE program will enter the Acquisition, Testing and Deployment phase within the DoD 5000.75 acquisition process. This phase will allow the prototype capability to be matured to increase functionality to be deployed based on the planned iterative Capability Waves. Specifically, the FY 2020 funding will support iterative Wave requirements analysis, business process reengineering, design, capability configuration, interface development, capability integration, cybersecurity engineering (Risk Management Framework continuous monitoring), systems engineering, software licenses for configuration and early adopter user environment, System Test & Evaluation, and Cloud Hosting (applications and data storage) in order to expand the prototype solution to 2,600+ recruiters.</p> <p>FY 2021 Base Plans: In FY 2021, AIE will continue prototyping efforts, started in FY 2019, and continued in FY 2020, by adding required capabilities to deployed functionality, and will continue to execute within the DoD 5000.75 Acquisition, Testing and Deployment phase. The prototype will be matured to increase functionality to be deployed based on the planned iterative Capability Waves. The FY 2021 funding will continue to support iterative Wave requirements analysis, business process reengineering, design, capability configuration, interface development, capability integration, cybersecurity engineering (to include Risk Management Framework continuous monitoring), systems engineering, software licenses for configuration and early adopter user environment, System Test & Evaluation, and Cloud Hosting (applications and data storage) to expand the prototype solution to an additional 6,466+ recruiters while preparing deployment and training to an additional 15,611+ recruiters.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement:</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army			Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
The programmed increase between FY 2020 and FY 2021 is due additional core capabilities required for Waves 3 & 4. Wave 3 adds marketing capabilities and training to 35 additional locations for an additional 6,466 users. Wave 4 adds Training/Leader Development capabilities and prepares for deployment and training to 90+ additional locations for an additional 15,611 users.					
<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 Base 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 2020 to FY 2021 Increase/Decrease Statement: The programmed increase between FY 2020 and FY 2021 relates to the increased workload for prototype capability in Waves 3 & 4. Wave 3 adds marketing capabilities and training to 31 additional locations for an additional 6,466 users. Wave 4 adds Training/Leader Development capabilities and training to 43 additional locations for an additional 8,238 users.</p>	-	-	3.802	-	3.802
<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>	-	1.908	2.185	-	2.185

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>Work in this PE is performed by the U.S. Army Resiliency Directorate in Arlington, VA.</p> <p>FY 2020 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 2020 funding will support validation assessment of the instruments.</p> <p>FY 2021 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 2021 funding will support validation assessment of the instruments.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Increase in funding due to economic adjustments.</p>					
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>	-	0.089	-	-	-
Accomplishments/Planned Programs Subtotals	-	31.279	48.727	-	48.727

<p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks</p> <p>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) II 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:</p>

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<p>Infrastructure & Application Pilot (Wave 1): (FY2020) 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</p> <p>Wave 2: (FY2020) Provides additional capability (Pay & Incentives and Intelligence) to an additional 1942 users at 15 additional locations</p> <p>Wave 3: (FY2021) Provides additional capability (Marketing) to an additional 6466 users at 35 additional locations</p> <p>Wave 4: (FY2021) Provides additional capability (Training/Leader Development) to an additional 8238 users at 43 additional locations</p> <p>Wave 5: (FY2022) Provides full capability to all remaining users (7373) at all remaining locations (47)</p> <p>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.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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>
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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
AIE - Management Services	C/FFP	Chenega Decision Services : Lorton, VA	-	-		1.761	Jun 2020	1.812	Jun 2021	-		1.812	0.000	3.573	7.288
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.089		-		-		-	0.000	0.089	-
Subtotal			-	-		1.850		1.812		-		1.812	0.000	3.662	N/A

Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
AIE - COTS Based Solution Configuration and Development	C/FFP	Booz Allen Hamilton : Herdon, VA	-	-		15.060	Apr 2020	23.847	Apr 2021	-		23.847	0.000	38.907	69.826
AIE - System Partner Interface Development	TBD	TBD : TBD	-	-		7.202	Apr 2020	8.784	Apr 2021	-		8.784	0.000	15.986	25.604
ARISS	C/CPFF	SAIC : Reston, VA	-	-		-		3.802	Jan 2021	-		3.802	0.000	3.802	3.861
Army Suicide Prevention	TBD	TBD : TBD	-	-		2.116		2.185		-		2.185	Continuing	Continuing	Continuing
Subtotal			-	-		24.378		38.618		-		38.618	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
AIE - Cybersecurity - RMF, FedRAMP, ATO (IA/RMF Support)	TBD	TBD : TBD	-	-		1.591		1.744	Oct 2020	-		1.744	0.000	3.335	5.307
Subtotal			-	-		1.591		1.744		-		1.744	0.000	3.335	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
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Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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 - Acquisition, Testing and Deployment																												
AIE - Requirments & Acq Planning/AIE Infrastructure & Application Pilot (Wave 1)																												
AIE - Deploy Wave 2																												
AIE - Initial Operating Capability (IOC)																												
AIE - Deploy Wave 3																												
AIE - Deploy Wave 4																												
AIE - Deploy Wave 5																												
AIE - Full Deployment (FD)																												
AIE - Capability Support & Enhancements																												
HRC Accessioning IT																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
AIE - Acquisition, Testing and Deployment	3	2020	3	2022
AIE - Requirments & Acq Planning/AIE Infrastructure & Application Pilot (Wave 1)	3	2019	3	2020
AIE - Deploy Wave 2	3	2020	1	2021
AIE - Initial Operating Capability (IOC)	1	2021	1	2021
AIE - Deploy Wave 3	1	2021	3	2021
AIE - Deploy Wave 4	3	2021	1	2022
AIE - Deploy Wave 5	1	2022	3	2022
AIE - Full Deployment (FD)	3	2022	3	2022
AIE - Capability Support & Enhancements	3	2022	3	2032
HRC Accessioning IT	1	2020	4	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
FM7: <i>Human Resources Information Technology</i>	-	0.000	9.102	13.682	-	13.682	13.624	13.664	7.734	7.771	0.000	65.577
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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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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: ARBA	-	1.384	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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>FY 2020 Plans: FY 2020 funding is to modernize and re-engineer the current ARBA Case Tracking System (ACTS) that is in sustainment. ARBA?s leadership has aggressively driven business process reengineering to include end-to-end case digitization. However, ACTS? inflexibility stands in the way of Agency progress on many fronts and negatively affects the timeliness, costs, and quality of ARBA?s work products. Additionally, ARBA has undergone increasing congressional scrutiny, unfavorable media conclusions, and publicized court remands surrounding the quality and timeliness of its 18,000 annual adjudication outcomes. As a result, ARBA leadership has committed to Congress that it will drive fundamental change across the DOTMLPF-P spectrum.</p> <p>In summary, these significant problems result in greatly extended processing times, bottle-necked and rushed adjudication activities, numerous redundant hand-offs, and at times incorrect or contestable board outcomes. ARBA?s current process requires labor-intensive hard copy printing, collating, transporting, filing, scanning, labeling, inventorying, shipping, shredding, mailing, and tracking of redwelds and their content.</p> <ul style="list-style-type: none"> - ARBA ADS Modernization capability requirements can be summarized as follows: - Lifecycle Case Management ? End-to-end Structured Process - Complete Case Digitization (electronic cases, board scheduling/voting, approvals, signatures) - Improved External Stakeholder Exchange and Case Transit - Leverage Historical Information/Comprehensive Knowledge Management Capability - Performance Assessment Framework ? Real-Time, Reliable Metrics 					

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
- Modern, Flexible and Reliable IT Platform Supporting Mobility and Information Exchange FY 2020 to FY 2021 Increase/Decrease Statement: The modernization of the current ARBA Case Tracking System is complete.					
Title: G-1 Requirement Builder (R-Builder) 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. FY 2020 Plans: Continued modernization of the Army's Requirements Builder to budget better for the Army's military manpower requirements. FY 2020 to FY 2021 Increase/Decrease Statement: R-Builder's system modernization is complete.	-	0.137	-	-	-
Title: ARIMS 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 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	-	0.853	1.045	-	1.045

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army	Date: February 2020
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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>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><i>FY 2020 Plans:</i> 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 2021 Army			Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>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.</p> <p>FY 2021 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.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Increase in funding due to economic adjustments.</p>					
<p>Title: Army SHARP Data Management</p> <p>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.</p> <p>FY 2020 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.</p> <p>FY 2021 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</p>	-	0.912	1.047	-	1.047

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army			Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
capabilities, and support predictive analysis for SHARP Data. Automate SHARP ICRS Reporting capabilities and facility integration of EORS system in to ICRS. FY 2020 to FY 2021 Increase/Decrease Statement: Increase in funding due to economic adjustments.					
Title: Family Advocacy System of Records (FASOR) Description: 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. FY 2020 Plans: Continued research and development for modernization and compliance requirements that started in FY 2019. FY 2021 Base Plans: Continued modernization of legacy systems. FY 2020 to FY 2021 Increase/Decrease Statement: Funding decrease in line with system requirements.	-	1.716	1.482	-	1.482
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 2020 Plans: Ongoing efforts to modify the iPERMS application to replace the functionality of SnF servers with a robust scanning Web Service that will support the ARNG, 55 Military Personnel Offices (MILPOs), and remote users globally. Development is required ensure compliance with Defense Information Systems Agency Core Data Center and Cybersecurity requirements. FY 2021 Base Plans:	-	2.677	8.915	-	8.915

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army			Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
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 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 2020 to FY 2021 Increase/Decrease Statement: Requirement increases supports HRC Core IT rationalization and modernization effort which includes: identifying and removing duplicate application functionality, reducing data elements, eliminating redundant database storage, and posturing legacy applications to move to a cloud hosted environment.					
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 2020 Plans: FY 2020 Base research and development dollars in the amount of \$1.219 million to support cyber security program requirements, National Defense Authorization Act (NDAA) update requirements, and a case synopsis module. FY 2021 Base Plans: Continued support of cyber security program requirements. FY 2020 to FY 2021 Increase/Decrease Statement: Increase in funding due to increased cyber security requirements.	-	1.049	1.193	-	1.193
Title: FY 2020 SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638 FY 2020 Plans:	-	0.374	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army			Date: February 2020		
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>			
B. Accomplishments/Planned Programs (\$ in Millions)					
		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO
Funding transferred in accordance with Title 15 USC ?638					
FY 2020 to FY 2021 Increase/Decrease Statement:					
Funding transferred in accordance with Title 15 USC ?638					
Accomplishments/Planned Programs Subtotals		-	9.102	13.682	-
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 2021 Army												Date: February 2020			
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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	-	-		0.521		0.615		-		0.615	0.000	1.136	-
FY 2020 SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.374		-		-		-	0.000	0.374	-
Subtotal			-	-		0.895		0.615		-		0.615	0.000	1.510	N/A
Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	-	-		0.853		1.046		-		1.046	Continuing	Continuing	Continuing
Army SHARP Data Management	TBD	Data Management : TBD	-	-		0.912		1.048		-		1.048	Continuing	Continuing	Continuing
SFL-TAP	TBD	To Be Determined : To Be Determined	-	-		0.528		0.579		-		0.579	0.000	1.107	-
HRC Core IT	TBD	To Be Determined : To Be Determined	-	-		2.677	Aug 2020	8.911		-		8.911	0.000	11.588	-
ARBA	TBD	TBD : TBD	-	-		1.384		-		-		-	0.000	1.384	-
Subtotal			-	-		6.354		11.584		-		11.584	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	-	-		0.137		-		-		-	0.150	0.287	-
Family Advocacy System of Records (FASOR)	TBD	TBD : TBD	-	-		1.716		1.483		-		1.483	Continuing	Continuing	Continuing
Subtotal			-	-		1.853		1.483		-		1.483	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army								Date: February 2020			
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 2019	FY 2020		FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	-	-	9.102		13.682	-	13.682	Continuing	Continuing	N/A	

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

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
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>

Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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								■ 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 2021 Army		Date: February 2020
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	2020
SFL-TAP XXI Modernization	1	2020	4	2024
ARIMS	1	2020	4	2024
Army SHARP Data Management	1	2020	4	2024
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 2021 Army										Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
FM8: <i>Information Technology for Training Systems</i>	-	0.000	18.320	41.697	-	41.697	33.798	24.495	4.167	4.213	0.000	126.690
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 an enabler for the 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 ~\$75M. 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 1.8M 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 will be 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 award scheduled for FY20, Q2.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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<p>Following are the Release capabilities:</p> <ul style="list-style-type: none"> - 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 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. - 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. - 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. <p>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</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army **Date:** February 2020

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access, and offers a complete and personalized career picture not available until now. ACT allows users to manage career objectives and monitor progress towards career requirements and goals. ACT provides an integrated approach to supporting military and civilian personnel's personal and professional development which capitalizes on the mutual (personnel and Army) need for life-long learning. The unique inter-relationship between the user's personal growth and development, and the Army's need for Soldiers to be continuously developing, building and cultivating a culture of life-long learning is critical for the Soldier's and Army's success. Users manage their lifelong learning career objectives, monitor progress towards career development and goals, search multiple Army education and training resources, and receive personalized advice from their supervisor and Army leadership. Completed development will modernize the Army Career Tracker (ACT) system to render web pages correctly base on the size of the screen. Responsive Web Design (RWD) is an approach to web design that renders web pages based on the size of the device's display screen (e.g., computer, tablet, and phone). This allows the site to load quickly and ensures the display appears as if it were made expressly for the device being used. RWD improves user experience by displaying messages, links, and controls in a logical manner regardless of the device. The actual presentation may not look the 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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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 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 will fight, so they can effectively fight as they have trained.</p> <p>FY 2020 Plans: Funding to initiate development of the objective Army Training Information System (ATIS) including achievement of the Acquisition Authority to Proceed (A-ATP) milestone. Projected development contract award on the FY20 Q2 to perform preliminary and critical design reviews.</p> <p>FY 2021 Base Plans: Funds design, build, and test of Release 1 in support of the training management capability to limited portions of the end user community. Begins effort in support of Release 2.</p>	-	15.501	39.550	-	39.550

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>Program has exceeded FY 2019 OSD obligation and disbursement standards.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: FY 2020 to FY 2021 funding increase is driven by a significant increase in FY 2021 development efforts in support of R1. R1 activities began in FY 2020 with design reviews to deliver minimal capability in support of training management as the contract would have been awarded in the 2nd quarter of FY 2020. FY 2021 begins activities for R2 and add elements from the resource management and enterprise scheduling capability.</p>					
<p>Title: DLPT5 Content Analysis, Categorization & Modeling</p> <p>Description: Development of DLPT5 Content Analysis, Categorization and Modeling (CACM) capabilities. For integration within the DLIFLC MIT LL TIDWA Domino system. These capabilities are in direct response to DLIFLC's DoDI assigned responsibilities for DLPT item bank maintenance, psychometric analysis and informed pool management, and closely support the DLPT Validity Framework.</p> <p>FY 2020 Plans: The overall project is broken up into smaller modules. We plan on completing more modules for the project.</p> <p>FY 2021 Base Plans: Continued development of the DLPT5 content analysis, categorization, and modeling capabilities.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Increase in funding due to economic adjustments.</p>	-	0.858	1.152	-	1.152
<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 2020 Plans: This will be complete in FY 2021, to prepare for this, in FY 2020 we will be looking at the overall project and making any final adjustments to ensure completion on time.</p> <p>FY 2021 Base Plans:</p>	-	0.235	0.300	-	0.300

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army			Date: February 2020		
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Last year of funding for this effort to finalize last modernization efforts. FY 2020 to FY 2021 Increase/Decrease Statement: Decrease in funding due to completion of modernization.					
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 2020 Plans: Modernization developmental requirements will add new capabilities to render web pages correctly base on the size of the screen. Responsive Web Design (RWD) is an approach to web design that renders web pages based on the size of the device's display screen (e.g., computer, tablet, and phone). This allows the site to load quickly and ensures the display appears as if it were made expressly for the device being used. RWD improves user experience by displaying messages, links, and controls in a logical manner regardless of the device. FY 2021 Base Plans: Continued modernization of developmental requirements. FY 2020 to FY 2021 Increase/Decrease Statement: Decrease in funding due to modernization nearing completion.	-	0.639	0.195	-	0.195
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 2020 Plans: The performance objective is to modernize and enhance forecasting of training requirements and produce deliverables in support of the Budgeting and Execution cycle. These deliverables will also include improvement of the MDEP validation process (MVP) for CYBER, Missions, Intelligence, and other non-operational activities.	-	0.334	0.500	-	0.500

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Enhancements will provide the resources to build and sustain readiness requirements in a standardized process for automated methodology development and resource allocation. FY 2021 Base Plans: Continued modernization and enhancements of the Army Training Models. FY 2020 to FY 2021 Increase/Decrease Statement: Funds increase in support of increased Army Training Models.					
Title: FY 2020 SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638 FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638 FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638	-	0.753	-	-	-
Accomplishments/Planned Programs Subtotals	-	18.320	41.697	-	41.697

C. Other Program Funding Summary (\$ in Millions)
N/A
Remarks Legacy systems that will be subsumed by the Army Training Information System (ATIS) are listed below. Annual cost to maintain these systems is ~\$75M.
Acronym System Name -----
1. ACT - Army Career Tracker (IDP and PDM only). 2. AIRS - Army IMCOM Reservation System. 3. ARM - Army Range Mapper - JMTC/TSAE (EUR). 4. ARTIMS - Army Training Information Management (NIPRnet version Only). 5. ATHD - Army Training Help Desk. 6. ATIA - Army Training Information Architecture. 7. ATLAS - Army Training and Learning Assessment System.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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C. Other Program Funding Summary (\$ in Millions)

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

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 comprise 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 more than 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: KBR, Perspecta, and CGI. (Completed)

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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>- Phase II (Development) - Each Prototype will be evaluated at the end of the Phase I and one vendor will be selected for engineering, development and deployment of the ATIS production system. This phase be 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. This is a streamlined method for transitioning successful prototype projects into follow-on production.</p> <p>- Phase III - (Sustainment) - Upon full deployment of the system, a Sustainment Contract will be awarded for support and potential disposal of the system at the end of its useful life. ATIS intends to use Interim Contractor Logistics Support (ICLS) for initial sustainment beginning at Limited Deployment and will then transition to a hybrid life-cycle sustainment using a combination of CLS and government entities at Full Deployment (FD).</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	-	-		0.753		-		-		-	0.000	0.753	-
Subtotal			-	-		0.753		-		-		-	0.000	0.753	N/A

Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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 Product Development	C/FFP	TBD : TBD	-	-		15.501	Mar 2020	39.550		-		39.550	Continuing	Continuing	Continuing
DLPT5 Content Analysis, Categorization & Modeling	TBD	TBD : TBD	-	-		0.858		1.152		-		1.152	Continuing	Continuing	Continuing
Universal Curriculum and Assessment Tool	TBD	TBD : TBD	-	-		0.235		0.300		-		0.300	Continuing	Continuing	Continuing
Army Career Tracker	TBD	TBD : TBD	-	-		0.639		0.195		-		0.195	Continuing	Continuing	Continuing
Enhanced Army Training Models	TBD	TBD : TBD	-	-		0.334		0.500		-		0.500	Continuing	Continuing	Continuing
Subtotal			-	-		17.567		41.697		-		41.697	Continuing	Continuing	N/A

Remarks
 ATIS Acquisition, Testing and Development phase will be 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. This is a streamlined method for transitioning successful prototype projects into follow-on production. Development/Production Contract performing activity and location is TBD and will be updated upon contract award in FY20, 2nd quarter, in accordance with the Acquisition Strategy.

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	18.320	41.697	-	41.697	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
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 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				
	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: Release 1 Build, Test, Deploy									R1																				
ATIS: Release 2 Build, Test, Deploy									R2																				
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												
Army Career Tracker									Product Development																				

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
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	2	2020	2	2020
ATIS: Release1 Build, Test, Deploy	1	2021	1	2022
ATIS: Release 2 Build, Test, Deploy	4	2021	3	2023
ATIS: Release 3 Build, Test, Deploy	3	2022	3	2024
ATIS: Interim Operational Capablility (IOC)	4	2022	4	2022
ATIS: Full Deployment Authority to Proceed	3	2023	3	2023
ATIS: Capability Support Authority to Proceed	3	2024	3	2024
Army Career Tracker	1	2020	4	2021

Note
ATIS - The ATIS program will be officially baselined at the Acquisition - Authority to Proceed (ATP).

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
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>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
FM9: <i>Information Technology for Criminal Investigations</i>	-	0.000	1.142	1.236	-	1.236	1.241	1.244	1.246	1.258	0.000	7.367
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Criminal Investigative Management System (CIMS)	-	1.090	1.236	-	1.236
<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 objectives 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 Operations Police Suite (COPS) was previously comprised of five separate applications: two of these applications have been rationalized under ALERTS; the remaining three (related to the Army Corrections discipline) require modernization to ensure continued function and security compliance. RDT&E dollars are required to further enhance & 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 corrections facilities. At present, all requested CID RDT&E funding in program element 0605013A will be applied to CIMS initiatives.</p> <p>FY 2020 Plans:</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>FY 2020 funds will continue to establish new congressional mandated law enforcement data transfer initiatives between multiple DoD internal and external law enforcement agencies. Provide Army law enforcement conviction 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 2021 Base Plans: 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 2020 to FY 2021 Increase/Decrease Statement: Increase in funding is due to economic adjustments.</p>					
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>	-	0.052	-	-	-
Accomplishments/Planned Programs Subtotals	-	1.142	1.236	-	1.236

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

N/A

Remarks

D. Acquisition Strategy

USACIDC utilizes Agile development which is a process in which development is broken up into several stages. It involves constant collaboration with the stakeholders for continuous improvement and changes at each stage. Development is delivered in Releases to the customer for testing and acceptance this ensures that the project stays on track.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	-	-		1.090	Jul 2020	1.236	Jul 2021	-		1.236	0.000	2.326	-
Subtotal			-	-		1.090		1.236		-		1.236	0.000	2.326	N/A

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

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	1.142	1.236	-	1.236	0.000	2.378	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 2021 Army		Date: February 2020
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 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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)_OY1	[Redacted] contract award																											
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											

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
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

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
T04: <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>	-	17.802	15.236	10.971	-	10.971	11.372	2.233	0.000	0.000	0.000	57.614
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: USMIRS Technical Upgrade	17.802	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army			Date: February 2020			
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Description: Requested funding provides for: Technical refresh of core USMIRS functionality led by the Defense Digital Service (DDS). This funding also covers follow on contracts to finish the core refresh of the system after the DDS effort concludes. This funding will also migrate the system into the cloud environment.						
Title: USMIRS Modernization/Digitization		-	14.544	10.971	-	10.971
Description: Requested funding supports the continued development of the prototype USMIRS 1.1 core system. Funding also supports the development of the remaining non-core applications that comprise the USMIRS System of Systems (SoS), and integration of USMIRS 1.1 with the Military Health System (MHS Genesis). Funding also supports Force of the Future mandated efforts associated with modernization/digitization by implementing modern data analytics, expanding non-cognitive testing, and digitizing the Military Entrance Processing Station (MEPS) process.						
FY 2020 Plans: Requested funding supports the effort to bring USMEPCOM to an all digital processing state. Continues expansion of non-cognitive testing.						
FY 2021 Base 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. A portion of the funding in FY 2021 also supports the Force of the Future efforts mentioned in the description.						
FY 2020 to FY 2021 Increase/Decrease Statement: Decrease in funding from FY 2020 to FY 2021 represents the completion of the core USMIRS 1.1 functionality and a shift to developing the non-core applications.						
Title: FY 2020 SBIR/STTR Transfer		-	0.692	-	-	-
Description: Funding transferred in accordance with Title 15 USC ?638						
FY 2020 Plans:						

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Funding transferred in accordance with Title 15 USC ?638					
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i>					
Funding transferred in accordance with Title 15 USC ?638					
Accomplishments/Planned Programs Subtotals	17.802	15.236	10.971	-	10.971

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.

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

Milestones:

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) T04 / <i>USMEPCOM TRANSFORMTION - IT MODERNIZATION</i>
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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Defense Digital Services/ Tandem (Previously DEVMYND) USMIRS Prototype Development	MIPR	Defense Digital Services (DDS) Managing the Tandem contract (formerly DEVMYND) : Chicago, IL	9.600	-		-		-		-		-	0.000	9.600	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.692		-		-		-	0.000	0.692	-
Subtotal			9.600	-		0.692		-		-		-	0.000	10.292	N/A

Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Develop CORE USMIRS Prototype into Minimum Viable Product (MVP)	C/TBD	TBD : TBD	-	9.402	Jan 2020	-		-		-		-	0.000	9.402	-
Develop NON-CORE USMIRS 1.1 Applications	C/TBD	TBD : TBD	-	-		6.490	Jul 2020	10.971	Jul 2021	-		10.971	Continuing	Continuing	Continuing
Subtotal			-	9.402		6.490		10.971		-		10.971	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Force of the Future Testing Modernization	Various	Various services performing testing modernization : Multiple	12.931	8.400		8.054		-		-		-	0.000	29.385	-
Subtotal			12.931	8.400		8.054		-		-		-	0.000	29.385	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army								Date: February 2020					
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>					
	Prior Years	FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	22.531	17.802		15.236		10.971		-		10.971	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
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 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025															
	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																								■ 4																
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 2021 Army		Date: February 2020
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 2021 Army										Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
T05: <i>Army Business System Modernization Initiatives</i>	-	27.530	5.720	20.818	-	20.818	33.024	69.445	137.680	12.118	0.000	306.335
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.

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 (GFEBS) program. It includes a new effort in FY 2014, the Army Contract Writing System, a replacement for the DoD Standard Procurement System (SPS).

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Global Force Information Management	1.151	2.768	16.085	-	16.085
Description: 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. GFIM will establish a common standard for force structure data by implementing OSD's					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army			Date: February 2020		
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)					
Global Force Management Data Initiative (GFM-DI). This effort will decrease/consolidate 12 legacy applications/systems to 3 in GFIM Increment I and further to 1 system in GFIM Increment II.					
FY 2020 Plans: Funding will be used for continuation of Acquisition Planning and Systems Engineering support for GFIM requirements analysis and initial system design, along with prototyping efforts.					
FY 2021 Base Plans: Funding will be used to support system integration developmental efforts for modernizing the Army's Force Management System via the Army Organizational Server (AOS). This modernization effort addresses capability gaps for systems that require a force structure model based on authorized force structure, while accurately reflecting "boots on the ground" reality of the operational Army.					
FY 2020 to FY 2021 Increase/Decrease Statement: The increase in funding from \$2.933 million to \$16.085 million represents the ramp-up of development work associated with all components of GFIM, the majority of which is FMS Modernization. FMS Modernization remains vital to the overall GFIM effort ensuring legacy Force Management applications migrate appropriately according to the Global Force Management Data Initiative, an OSD mandated requirement for all services. Initial Operating Capability (IOC) of GFIM Increment I is anticipated NLT the end of FY 2021.					
Title: HRC CORE IT (iPERMS, iPERMS-S, ASBS 2.0, SMS WEB)					
Description: 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.					
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.					
This effort transitions to PE 655013/FM7 in FY20.					
Title: Army Business System Modernization Initiatives					
	1.756	-	-	-	-
	2.735	2.628	2.943	-	2.943

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<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 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>					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020				
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<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 2020 Plans: Continue to fund Army Business System Modernization Initiatives.</p> <p>FY 2021 Base Plans: Continue to fund Army Business System Modernization Initiatives.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Increased requirements for installations business systems.</p>						
<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 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</p>		0.855	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>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 effort transitions to 0605013A project FM7 in FY20.</p>					
<p>Title: Family Advocacy System of Records (FASOR)</p> <p>Description: 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.</p> <p>This effort transitions to PE 655013/FM7 in FY20.</p>	1.914	-	-	-	-
<p>Title: Army SHARP</p> <p>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) in accordance with public law.</p> <p>This effort transitions to 0605013A project FM7 in FY 2020 for greater transparency.</p>	1.453	-	-	-	-
<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 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</p>	14.968	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army				Date: February 2020		
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)						
so 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.						
This Program transitions to PE 655013/FM8 in FY20.						
Title: SFL-TAP XXI Modernization						
Description: 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 requirements in place today represent a 300 percent increase over the pre-VOW requirements. A significant modernization effort within TAP XXI is needed. Justification: (\$ in Millions) FY 2019 Base procurement dollars in the amount of \$0.606 million resources the TAP XXI modernization requirements. Planned Program includes modernize client management module, Soldier module, and increase reporting capabilities.						
This Program transitions to PE 6550103/FM7 in FY20.						
		0.972	-	-	-	-
Title: Army Career Tracker (ACT)						
Description: Modify the existing Soldier Home Page to quickly display key career related status requiring immediate action. Use ACT professional development systems to support and enhance Soldier competitive efforts for advancement and retention. ACT will utilize the Real-Time Broker Service (RBS) to get the DoD ID Number from DMDC for new users who come to them through these other systems. This method will allow ACT to retrieve DoD ID for users that may not have been processed in the Batch Request.						
This Program transitions to PE 655013/FM8 in FY20.						
		0.250	-	-	-	-
Title: Defense Language Software Upgrade						
		1.476	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<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>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.</p> <p>This Program transitions to PE 655013/FM8 in FY20.</p>					
<p>Title: Corp of Engineers Installation IT Support</p> <p>Description: Funding is used to modernize Army installation IT systems.</p> <p>FY 2021 Base Plans: Funding is used to modernize Army installation IT systems.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: This is the first year of funding for this effort.</p>	-	-	1.790	-	1.790
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>	-	0.324	-	-	-
Accomplishments/Planned Programs Subtotals	27.530	5.720	20.818	-	20.818

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

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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C. Other Program Funding Summary (\$ in Millions)

Remarks

D. Acquisition Strategy

GFIM will leverage existing Force Management System Cost Plus Award Fee contract to execute development efforts.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	-
Subtotal			-	0.639		0.324		-		-		-	0.000	0.963	N/A

Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	24.751	1.235		0.846		0.987		-		0.987	0.000	27.819	-
Product Development for ACWS	C/IDIQ	PEO EIS : Alexandria, VA	45.741	-		-		-		-		-	0.000	45.741	-
ATIS	C/IDIQ	PEO EIS : FT Eustice VA	35.752	14.968		-		-		-		-	0.000	50.720	-
Army Career Tracker	C/FFP	TBD : Reston, VA	2.288	0.250		-		-		-		-	0.000	2.538	-
Army Business System Modernization Initiatives	C/IDIQ	TBD : TBD	27.639	1.500		1.782		1.956		-		1.956	Continuing	Continuing	-
Defense Language Software Upgrade	C/FFP	TBD : TBD	3.810	1.476		-		-		-		-	0.000	5.286	-
Global Force Information Management	Option/CPAF	CACI : Chantilly, VA	-	1.151		2.768		16.085		-		16.085	Continuing	Continuing	Continuing
Army SHARP	TBD	Various : Various	-	1.453		-		-		-		-	0.000	1.453	-
SFL-TAP XXI Modernization	TBD	To Be Determined : To Be Determined	-	0.333		-		-		-		-	0.000	0.333	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
HRC Core IT	C/CPFF	Digital Management, LLC / SAIC : Bethesda, MD / Reston, VA	3.407	1.756		-		-		-		-	Continuing	Continuing	Continuing
ARIMS	TBD	TBD : TBD	1.428	0.855		-		-		-		-	0.000	2.283	-
FASOR	MIPR	CECOM : CECOM	-	1.914	Aug 2019	-		-		-		-	0.000	1.914	-
Corp of Engineers Installation IT Support	TBD	TBD : TBD	-	-		-		1.790		-		1.790	0.000	1.790	-
Subtotal			161.386	26.891		5.396		20.818		-		20.818	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 2021 Army								Date: February 2020			
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 2019		FY 2020		FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	161.386	27.530		5.720		20.818	-	20.818	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 2021 Army		Date: February 2020
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 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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																											
Army Business System Modernization	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
	ABSM																											
Global Force Information Management	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
	GFIM Development																											
SFL-TAP XXI Modernization	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
	SFL-TAP XXI																											
HRC Core IT	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
	HRC Core IT																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
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
Army Business System Modernization	1	2016	4	2020
Global Force Information Management	2	2019	4	2025
SFL-TAP XXI Modernization	1	2019	4	2024
HRC Core IT	4	2018	4	2020

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 2021 Army **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
VR3: <i>ASMIS-R (REPORTIT)</i>	-	1.369	2.836	3.156	-	3.156	3.219	3.265	3.298	3.331	0.000	20.474
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 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 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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: ASMIS-R Development	1.369	2.656	3.156	-	3.156
<p>Description: 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 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 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 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,</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
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.					
FY 2020 Plans: Continue work with Army Analytics Group and contract for the development of the fourth activity.					
FY 2021 Base Plans: Continue work with Army Analytics Group and contract for the development of the fourth activity.					
FY 2020 to FY 2021 Increase/Decrease Statement: Funding increase due to increase in analytics requirements.					
Title: FY 2020 SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638	-	0.180	-	-	-
FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638					
FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638					
Accomplishments/Planned Programs Subtotals	1.369	2.836	3.156	-	3.156

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,

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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does not provide any IT (material solution) to the business requirements identified above. The Command has utilized a FFP contract to execute specific Task Orders to develop the tools and products through mid-year FY 2015. The CRC will be competing a new contract vehicle to support the development of products and tools from midyear FY 2015 through FY 2024.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	0.434	0.426		0.093		0.156		-		0.156	Continuing	Continuing	Continuing
Subtotal			0.434	0.426		0.093		0.156		-		0.156	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	3.021	0.943	Dec 2018	2.563		3.000		-		3.000	Continuing	Continuing	Continuing
Subtotal			3.021	0.943		2.563		3.000		-		3.000	Continuing	Continuing	N/A

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		3.455	1.369	2.836	3.156	-	3.156	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army			Date: February 2020
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 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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 2021 Army		Date: February 2020
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

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>				Project (Number/Name) XV6 / <i>Army Leader Dashboard</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
XV6: <i>Army Leader Dashboard</i>	-	0.000	1.355	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.355
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

The Army Leader Dashboard (ALD) is not a new start. On 10 May 2018 an Above Threshold Reprograming (ATR) was approved by the House Appropriations Committee-Defense (HAC-D) for \$7.4 million used to award an Other Transaction Agreement (OTA) to five vendors and to complete Phase 1 of the prototype development efforts (Program Element - 0605013A / Project Number T05). In addition, ALD was allocated \$9.575 million (FY 2019 RDT&E) to fund Phase 2 of the prototype development efforts in FY 2019. In FY 2020, the ALD program was given its own Project Number (XV6) under Program Element 0605013A / Information Technology Development.

A. Mission Description and Budget Item Justification

Army Leader Dashboard (ALD) is a large data management platform and tailorable solution that integrates, analyzes, and visualizes information from multiple disparate data sources, both classified and unclassified. Information relayed by the system will include timely, precise, and accurate reports and indicators for readiness, manning, equipping, training, sustainment, acquisition, and cyber security capabilities at all levels from the individual Soldier or item, to Unit levels, and to the strategic level.

The ALD will provide Army senior leaders and other users near real-time visibility and access to Army data, facilitating rapid decision making while supporting strategic, operational, and tactical planning. The ALD is one of the Chief of Staff, Army's top priorities and is endorsed by senior leaders across the entire Army.

In FY 2021 Project XV6 ALD transitions to sustainment.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Army Leader Dashboard Acquisition, Testing, and Deployment Phase (FY17-FY20) / Capability Support (FY21 - FY25)	-	1.293	-	-	-
Description: During the acquisition, testing, and deployment phase the ALD program office will perform all development, data integration, test, and deployment activities for a data management and visualization solution that encapsulates all Army data. During the Capability Support Phase when the ALD system is in production, ALD will continue to establish automated connections to existing Army data (also known as Authoritative Data Sources (ADSs)). To date, ALD has identified more than 600 ADSs that will require automated data ingestion. This is a major increase from the initial requirement which focused solely on readiness (108 ADSs). The ALD team has assessed all 600+, categorized them by complexity, priority/value, and sunset/retirement dates.					
FY 2020 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army	Date: February 2020
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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) XV6 / <i>Army Leader Dashboard</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Funding will support the Phase 3 Production phase, specifically on external interface partner integration and development. To date, a potential of 697 authoritative data sources have been identified that will require some sort of connection to ALD. FY 2020 to FY 2021 Increase/Decrease Statement: In FY 2021 Project XV6 ALD transitions to sustainment.					
Title: FY 2020 SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638 FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638 FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638	-	0.062	-	-	-
Accomplishments/Planned Programs Subtotals	-	1.355	-	-	-

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

Remarks
Army Leader Dashboard (ALD) has also requested Operations and Maintenance (O&M) dollars PB 2020 to fund the Production phase as a Software as a Service (SaaS) contract. The O&M dollars will maintain the selected system - licenses, helpdesk hosting, cybersecurity, and all supporting sustainment activity requirements.

D. Acquisition Strategy
In Section 815 of the National Defense Authorization Act (NDAA) for FY 2016, Public Law 114-92, Congress amended DoD's authority to carry out prototype projects using Other Transaction (OT) agreements. The OT agreements are now permanently codified in 10 U.S.C. Section 2371b, titled "Authority of the Department of Defense to Carry out Certain Prototype Projects" and offer a streamlined method for selecting and conducting prototype projects. The ALD program office is taking advantage of this useful acquisition tool to procure ALD prototypes rapidly. Section 2371b requires that competitive procedures be used "to the maximum extent practicable," and the ALD is using a "full and open" Prototype Proposal Opportunity Notice (PPON) to achieve maximum competition.

In addition to the system functional requirements, a directed needs statement directs the program to:
- Procure no less than two, and not more than four, prototypes for user assessment, development of application protocol interfaces, and development of selected software interfaces with designated Authoritative Data Sources.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) XV6 / <i>Army Leader Dashboard</i>

- Phase the program to deliver an initial capability of two to four prototypes no later than 30 days (from award announcement) that allows assessment of the awarded two to four prototypes and a final comparison tradeoff. The results will lead to a follow-on award of one to two prototypes for an additional assessment phase upon execution of a Decision Point.

In actuality, ALD selected five vendors to compete in Phase 1 of the prototype development (August 2019 through December 2019) which resulted in two vendors moving onto Phase 2 of the prototype development. The ALD program office is currently conducting/completing Phase 2 with one vendor (down-selected to one on 26 June 2019). Production will be acquired separately, as a sole-sourced contract, leveraging the research and information captured during the two prototyping phases.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) XV6 / <i>Army Leader Dashboard</i>
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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	-	-		0.062		-		-		-	0.000	0.062	-
Subtotal			-	-		0.062		-		-		-	0.000	0.062	N/A

Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
External Interface Partner Integration	IA	Army Interface Partners - Multiple : TBD - Multiple	-	-		1.293	Jan 2020	-		-		-	0.000	1.293	Continuing
Subtotal			-	-		1.293		-		-		-	0.000	1.293	N/A

Remarks
The interface development approach for ALD will be informed by the Studies & Analysis requirement during the Phase 1 Prototyping Stage in FY 2018/FY 2019.

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	1.355	-	-	-	0.000	1.355	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) XV6 / <i>Army Leader Dashboard</i>

Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
ALD OTA Contract Award Phase 1 Prototyping	[Redacted]				5 Vendors; Down-Selected to 2																							
ALD OTA Contract Award Phase 2 Prototyping	[Redacted]				2 Vendors; Down-Selected to 1																							
ALD Production Award Contract - Begin ALD Capability Support Phase					1 ▲ 1 Vendor																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / <i>Information Technology Development</i>	Project (Number/Name) XV6 / <i>Army Leader Dashboard</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ALD OTA Contract Award Phase 1 Protoyping	4	2018	1	2019
ALD OTA Contract Award Phase 2 Protoyping	2	2019	1	2020
ALD Production Award Contract - Begin ALD Capability Support Phase	2	2020	2	2020