Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army											Date: February 2018	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*						**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*						

COST ($ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	70.104	81.776	113.758	-	113.758	100.831	75.091	65.610	47.010	0.000	554.180
099: *Army Human Resource System*	-	4.496	16.607	3.367	-	3.367	0.807	0.208	0.208	0.207	0.000	25.900
184: *Installation Support Modules*	-	1.205	1.520	2.505	-	2.505	1.503	1.411	1.278	1.295	0.000	10.717
193: *Medical Communications For Combat Casualty*	-	1.160	0.390	4.404	-	4.404	2.363	1.533	1.563	1.595	0.000	13.008
738: *AcqBiz*	-	5.422	9.118	41.032	-	41.032	42.409	30.190	18.223	13.682	0.000	160.076
FE9: *ALTESS (P&R Forms)*	-	0.112	0.110	0.112	-	0.112	0.000	0.000	0.000	0.000	0.000	0.334
T04: *USMEPCOM TRANSFORMTION - IT MODERNIZATION*	-	28.043	11.217	21.598	-	21.598	15.235	8.214	8.292	0.000	0.000	92.599
T05: *Army Business System Modernization Initiatives*	-	29.666	39.216	37.714	-	37.714	35.419	30.376	32.824	26.963	0.000	232.178
VR3: *ASMIS-R (REPORTIT)*	-	0.000	3.598	3.026	-	3.026	3.095	3.159	3.222	3.268	0.000	19.368

Note

Army Safety Management Information System - Revised (ASMIS-R) funding was realigned from PE 0605013, Project T05 to PE 0605013, Project VR3 for greater transparency in FY 2018.
ALTESS (P&R Forms) funding was realigned from PE 0605013, Project 738 to PE 0605013, Project FE9 for greater transparency in FY 2018.

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 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.

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2019 Army			**Date:** February 2018		
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*			**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*		
B. Program Change Summary ($ in Millions)	**FY 2017**	**FY 2018**	**FY 2019 Base**	**FY 2019 OCO**	**FY 2019 Total**
Previous President's Budget	74.236	81.776	116.915	-	116.915
Current President's Budget	70.104	81.776	113.758	-	113.758
Total Adjustments	-4.132	0.000	-3.157	-	-3.157
• Congressional General Reductions	-0.035	-			
• Congressional Directed Reductions	-0.504	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.851	-			
• SBIR/STTR Transfer	-2.742	-			
• Adjustments to Budget Years	-	-	-3.157	-	-3.157

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										**Date:** February 2018	
Appropriation/Budget Activity 2040 I 5				**R-1 Program Element (Number/Name)** PE 0605013A I *Information Technology Development*				**Project (Number/Name)** 099 I *Army Human Resource System*			
COST ($ in Millions)	**Prior Years**	**FY 2017**	**FY 2018**	**FY 2019 Base**	**FY 2019 OCO**	**FY 2019 Total**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Cost To Complete**	**Total Cost**
099: *Army Human Resource System*	-	4.496	16.607	3.367	-	3.367	0.807	0.208	0.208	0.207	0.000	25.900
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY 2019 Base funding in the amount $3.367 million in support of Army Human Resource Systems (AHRS) continues to provide the Warfighter with state of art standardized systems that assist the Combatant Commander sustain, train, equip, deploy and account for personnel in and out of Theater. Systems include the Deployed Theater Accountability System, Range Facility Maintenance Support System and the electronic Military Personnel System.

A. Mission Description and Budget Item Justification

This project funds the Personnel Transformation - Enterprise Service Bus and GoArmyEd.
- Personnel Transformation (PT) - Enterprise Service Bus (ESB) - The Army's Enterprise Service Bus (ESB) provides a data integration service in which data can be extracted from the legacy human resource systems and transferred to DIMHRS. The ESB will be a middleware application which will provide a single interface to and from the Defense Integrated Military Human Resources System (DIMHRS) from the Army Legacy Systems. The ESB will provide the infrastructure for the integration of new and existing applications by allowing systems and applications to easily exchange information across different environments and platforms. It will also form the information bridge between the Integrated Personnel and Pay System - Army (IPPS-A) , the Army Legacy Systems, and external systems to create more streamlined systems in support of the military mission and personnel transformation goals.

- GoArmyEd is an Army Continuing Education System (ACES) program that provides the virtual gateway for soldiers to request Tuition Assistance (TA) and Department of the Army (DA) civilians to request training funds online, anytime for classroom, distance learning, and online college courses. GoArmyEd is a dynamic online portal that automates many of the paper-based processes historically conducted in-person at Army Education Centers. GoArmyEd includes automated registration tools that enforce TA policies and procedures. GoArmyEd is used by authorized users to pursue their post secondary educational goals: Army Education Counselors to provide educational guidance; CPMS and TMs to manage civilian training and Colleges to deliver degree and course offerings and to report user progress.

Modernization initiatives address continued improvements related to the integration of new users and decreasing reliance on the help desk. GoArmyEd is the Army's enterprise education solution. GoArmyEd has integrated the Reserve Component (USAR and National Guard) and the Department of the Army Civilians. In addition, GoArmyEd is working to add a new data warehouse for HQ data retrieval and user self help tools. Education benefits are paramount to recruiting and retention of quality Soldiers, Civilians and Families.

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 is capable of tracking high risk behavior patterns within a Commander's unit, coupled with a complete picture of high risk behavior of

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army				Date: February 2018		
Appropriation/Budget Activity 2040 *I* 5			R-1 Program Element (Number/Name) PE 0605013A *I Information Technology Development*		Project (Number/Name) 099 *I Army Human Resource System*	

individuals will allow Commanders to take a more proactive mitigation approach through unit level training as well as individual interventions. The implementation of the CRRD will decrease the number of resources and steps involved in gathering data and providing Commanders with risk related information.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Army Human Resource System (AHRS)	-	1.730	-	-	-
Description: Funding will support continued enhancement/automation of the software functionality.					
FY 2018 Plans: GoArmy Ed will add functionality, continue automation of manual business processes, and add a virtual self help tool, data hosting of GoArmy Ed at Human Resources Command (HRC).					
FY 2018 to FY 2019 Increase/Decrease Statement: Funding zeroed out in FY 2019.					
Title: Commanders Risk Reduction Dashboard (CRRD)	3.992	3.320	0.154	-	0.154
Description: Commanders Risk Reduction Dashboard will consolidate information from multiple Army databases and present to commanders a concise report about which soldiers in their units have been involved with at-risk behaviors, some of which may be associated with suicide, and when those instances occurred.					
FY 2018 Plans: During FY 2018 CRRD will complete development, conduct developmental testing, user experience experiments, system integration testing, performance testing, operational testing, interoperability certification testing, and cybersecurity testing and accreditation.					
FY 2019 Base Plans: The CRRD tool will provide a single dashboard of information that identified potential attributes that increase the risk of suicide. The dashboard will provide Commanders in all Army components with the capability to obtain information regarding the soldier?s previous disciplinary actions, both civilian and UCMJ as well as the information regarding the health of the Soldier. This information will enable the Commander to gain additional inputs on the Soldier?s background, allowing the Commander to adjust their leadership and counseling approach to improve the Soldier?s wellbeing therefore increasing their ability to perform their duties.					
FY 2018 to FY 2019 Increase/Decrease Statement: The FY 2019 decrease is the result of projected funding for $3.068 to be received within project line T05 - Army Business Systems Modernization.					
Title: VACE	0.504	11.557	3.213	-	3.213

Exhibit R-2A, **RDT&E Project Justification:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2017**	**FY 2018**	**FY 2019 Base**	**FY 2019 OCO**	**FY 2019 Total**
Description: VACE					
FY 2018 Plans: Performance Work Statement development, acquisition strategy and market research were all conducted in FY 2016/17 in anticipation of FY 2018/19 development of Modern GoArmyEd system. Sole source contract was also initiated to allow existing GoArmyEd system to continue to operate from IBM Federal Data center until Modern GoArmyEd system is operational.					
FY 2019 Base Plans: Performance Work Statement development, acquisition strategy and market research were all conducted in FY 2016/17 in anticipation of FY 2018/19 development of Modern GoArmyEd system. Sole source contract was also initiated to allow existing GoArmyEd system to continue to operate from IBM Federal Data center until Modern GoArmyEd system is operational.					
FY 2018 to FY 2019 Increase/Decrease Statement: Project development near completion.					
Accomplishments/Planned Programs Subtotals	4.496	16.607	3.367	-	3.367

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
• W00800: *GCSS-A Inc 1*	131.434	30.637	7.085	-	7.085	6.944	0.068	0.024	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

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

E. Performance Metrics

 N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** 099 *I Army Human Resource System*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	C/FFP	Acquisition Contract Center : Rock Island, Il	1.519	-		-		-		-		-	0.000	1.519	-
		Subtotal	1.519	-		-		-		-		-	0.000	1.519	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
AHRS - ECPs/SCPs/ICPs	C/FFP	Hewlitt Packard : various	89.251	-		-		-		-		-	0.000	89.251	-
AHRS - Software Development	C/FFP	Hewlitt Packard : various	51.723	-		-		-		-		-	0.000	51.723	-
GoArmyEd	C/FFP	IBM : Various	7.248	0.504		-		-		-		-	Continuing	Continuing	-
CRRD	C/FFP	PEO EIS : FT Belvoir VA	1.314	3.992		16.607		3.367		-		3.367	0.000	25.280	-
		Subtotal	149.536	4.496		16.607		3.367		-		3.367	Continuing	Continuing	N/A

Remarks

AHRS Software Development contract for CRRD FY 2017 is TBD; estimated value is $4.900 million, contract method is Firm Fixed Price (FFP). Commanders Risk Reduction Dashboard will consolidate information from multiple Army databases and present to commanders a concise report about which soldiers in their units have been involved with at-risk behaviors, some of which may be associated with suicide, and when those instances occurred.

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	151.055	4.496	16.607	3.367	-	3.367	Continuing	Continuing	N/A

Remarks

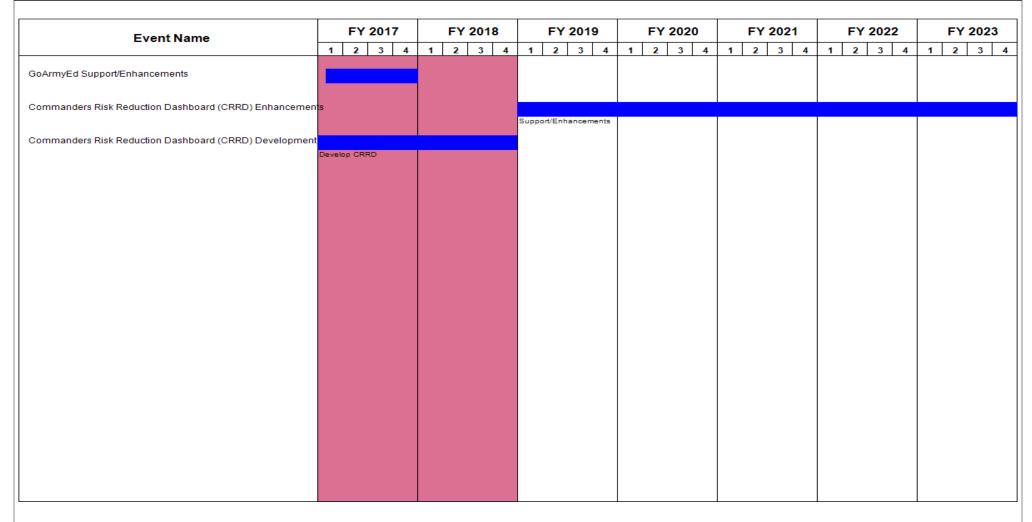| Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) 099 / Army Human Resource System

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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																												
Commanders Risk Reduction Dashboard (CRRD) Enhancements																												
Commanders Risk Reduction Dashboard (CRRD) Development																												

Support/Enhancements

Develop CRRD

Exhibit R-4A, **RDT&E Schedule Details:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 099 / *Army Human Resource System*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
Migration of AHRS eMILPO functionality into IPPS-A	3	2006	4	2012
eMILPO Support/Enhancements	4	2003	4	2012
DTAS Support/Enhancements	4	2004	4	2012
IPPS-A	3	2008	4	2012
Tactical Personnel System (TPS) Support/Enhancements	1	2006	4	2012
GoArmyEd Support/Enhancements	1	2013	4	2017
Commanders Risk Reduction Dashboard (CRRD) Enhancements	1	2019	4	2025
Commanders Risk Reduction Dashboard (CRRD) Development	3	2015	4	2018

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018	

Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0605013A I Information Technology Development	Project (Number/Name) 184 I Installation Support Modules

COST ($ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
184: Installation Support Modules	-	1.205	1.520	2.505	-	2.505	1.503	1.411	1.278	1.295	0.000	10.717
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 05.

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.

FY 2019 Base funding in the amount of $2.505 million will continue to facilitate Coalition Force interoperability research and development Coalition Warfighter Interoperability Demonstration (CWID) and will continue development of the Army Behavioral Health Integrated Data Environment (ABHIDE) system.

B. Accomplishments/Planned Programs ($ in Millions)

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Army Behavioral Health Integrated Data Environment	1.205	1.520	2.505	-	2.505

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 184 / *Installation Support Modules*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Description: Army Behavioral Health Integrated Data Environment (ABHIDE) will be the U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM) Suicide Registry. *FY 2018 Plans:* Army Behavioral Health Integrated Data Environment (ABHIDE) will be the U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM) Suicide Registry. Data relating to suicides and suicides attempts are collected and stored in a in disparate, non-related databases that cross the domains of medical, personnel and law enforcement. ABHIDE will provide the capability of integrating the non-related and dispersed data from the separate sources into a single comprehensive database to support both retrospective and predictive analysis. The information obtained will be used to conduct epidemiological surveillance, identify trends in behavior patterns and identify potential indicators for suicidal tendencies supporting the mitigation of future suicide attempts across all phases of Army service. *FY 2019 Base Plans:* Army Behavioral Health Integrated Data Environment (ABHIDE) will be the U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM) Suicide Registry. Data relating to suicides and suicides attempts are collected and stored in a in disparate, non-related databases that cross the domains of medical, personnel and law enforcement. ABHIDE will provide the capability of integrating the non-related and dispersed data from the separate sources into a single comprehensive database to support both retrospective and predictive analysis. The information obtained will be used to conduct epidemiological surveillance, identify trends in behavior patterns and identify potential indicators for suicidal tendencies supporting the mitigation of future suicide attempts across all phases of Army service. *FY 2018 to FY 2019 Increase/Decrease Statement:* Continued system development.					
Accomplishments/Planned Programs Subtotals	1.205	1.520	2.505	-	2.505

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
• BE4162: *MACOM AUTOMATION SYSTEMS (BE4162)*	30.870	43.069	133.513	9.353	142.866	143.760	111.007	104.966	37.600	Continuing	Continuing

PE 0605013A: *Information Technology Development*
Army

Exhibit R-2A, **RDT&E Project Justification:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** 184 *I Installation Support Modules*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost

Remarks

D. Acquisition Strategy

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

E. Performance Metrics

N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2019 Army											**Date:** February 2018		
Appropriation/Budget Activity 2040 / 5					**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*					**Project (Number/Name)** 184 / *Installation Support Modules*			

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Army Behavioral Health Integrated Data Environment	C/FFP	various : various	5.581	1.205		1.520		2.505		-		2.505	Continuing	Continuing	-
Post-Deployment Software Support (PDSS)	C/FFP	various : various	6.061	-		-		-		-		-	0.000	6.061	-
Coalition Warfighter Interoperability Demonstration (CWID)	C/TBD	various : various	0.091	-		-		-		-		-	0.000	0.091	-
Subtotal			11.733	1.205		1.520		2.505		-		2.505	Continuing	Continuing	N/A

Remarks
Post Deployment Software Support (PDSS) continues through 2025 as the Central issue Facility module evolves with changes in OCIE requirements.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
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

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	13.844	1.205	1.520	2.505	-	2.505	Continuing	Continuing	N/A

Remarks

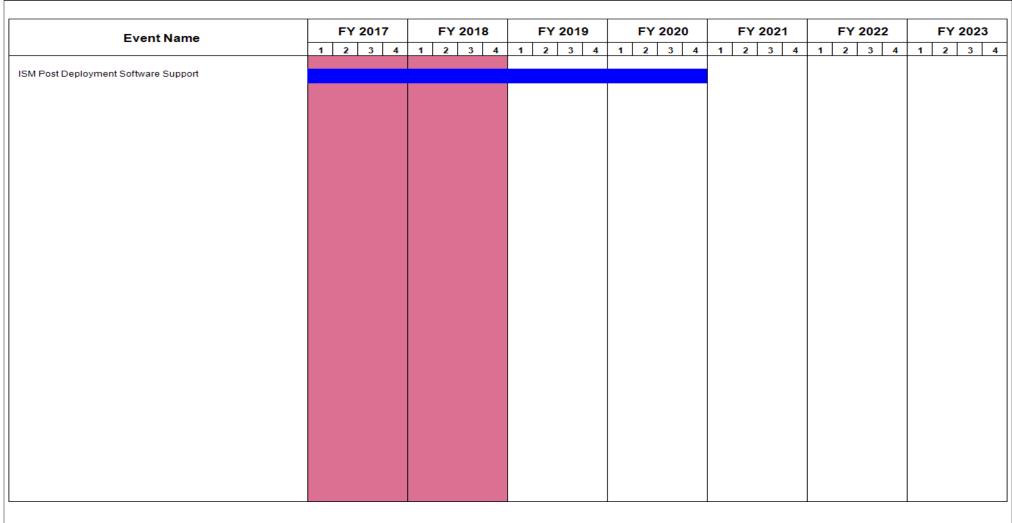| Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 184 / *Installation Support Modules*

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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																												

Exhibit R-4A, **RDT&E Schedule Details:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** 184 *I Installation Support Modules*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
ISM Post Deployment Software Support	4	2003	4	2020

Note

ISM Core requirements are less than $1.0 million.

There are no OCO requirements. End date is revised to 30 SEP 2025. Schedule Detail should show ISM System Post Deployment in 2020 1Q - 4Q.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018	

Appropriation/Budget Activity 2040 I 5				R-1 Program Element (Number/Name) PE 0605013A I Information Technology Development				Project (Number/Name) 193 I Medical Communications For Combat Casualty			

COST ($ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
193: Medical Communications For Combat Casualty	-	1.160	0.390	4.404	-	4.404	2.363	1.533	1.563	1.595	0.000	13.008
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 pre- and post-deployment screening and 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.

FY 2019 Base funding in the amount of $4.404 million will be used for the engineering effort required to evaluate initiatives that improve the performance of the Defense Health Medical Systems (DHMS) Electronic Health Record software on the Army platform, as well as the engineering effort for other Army unique capabilities. Activities include:
--Research of technologies to integrate electronic health record software into Army future information infrastructure
--Compliance with emerging Army network and cloud computing requirements (Army Cloud Computing Strategy and Common Operating Environment)
--Evaluate and test new hardware solutions to meet evolving mission requirements and replace obsolete equipment
--Develop and test hardware solutions for Army unique capability requirements (Point of Injury, Store and Forward, Telehealth, etc.)
--Coordinate research and development activities with Research partners (United States Army Medical Research Materiel Command and United States Army Research, Development and Engineering Command)

B. Accomplishments/Planned Programs ($ in Millions)

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Engineering and Technical Support	0.940	0.370	3.173	-	3.173
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					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 193 / *Medical Communications For Combat Casualty*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Readiness Levels (TRL) 6 or beyond, and engineering effort to modify system parameters due to cybersecurity or other pressing need. *FY 2018 Plans:* Continued evaluation and development of virtualization, interface/integration with Common Operating Environment as relevant to MC4 system to procure and field objective electronic health record capability. *FY 2019 Base Plans:* Evaluation and development of hardware solutions to replace obsolete handheld device, integration with Nett Warrior hardware/software in the Common Operating Environment, engineering and technical support for spiral development of Tele-Health capability and integration into electronic health record. Continued development of virtualization and cloud computing environment of electronic health record system to reduce cost and improve system effectiveness. *FY 2018 to FY 2019 Increase/Decrease Statement:* Theater Medical Information Program-Joint software (legacy joint electronic health record system) reaches final objective in FY 2018. Funding for FY 2018 completes test and integration of objective system for final procurement and fielding. JROC approval of Joint Initial Capabilities Document (ICD) (FY 2016) and Capability Development Document (CDD) (FY 2017), and Army staffing of ICD (FY 2017) for modernized electronic health record system (Joint Operational Medical Information System Increment 1 [JI1]) created a requirement, beginning in FY 2019, to research, develop and test new hardware and architecture solutions to effectively implement the new modernized system, complying with Army Common Operating Environment and cloud computing directives and to refine Army deployment architecture.					
Title: PMO Testing Support *Description:* Test augmentation by outside agencies to include test efforts for DHMS/TMIP-J and other Army unique software capabilities. *FY 2018 Plans:* Support to complete all test documentation required to obtain materiel release for final objective TMIP-J system . *FY 2019 Base Plans:* Test augmentation by outside agencies to support pilot testing of new point of injury hardware device prior to procurement and deployment. *FY 2018 to FY 2019 Increase/Decrease Statement:*	0.020	0.005	0.200	-	0.200

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 193 / *Medical Communications For Combat Casualty*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Theater Medical Information Program-Joint software (legacy joint electronic health record system) reaches final objective in FY18. Funding for FY18 completes test and integration of objective system for final procurement and fielding. JROC approval of Joint Initial Capabilities Document (ICD) (FY16) and Capability Development Document (CDD) (FY17), and Army staffing of ICD (FY17) for modernized electronic health record system (Joint Operational Medical Information System Increment 1 [JI1]) created a requirement, beginning in FY19, to research, develop and test new hardware and architecture solutions to effectively implement the new modernized system, complying with Army Common Operating Environment and cloud computing directives and to refine Army deployment architecture. Support from the test community will be required beginning in FY19 to support testing efforts related to modernized system.					
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. **FY 2018 Plans:** Plan pilot test for capability provided by new point of injury hardware device to replace obsolete equipment and meet system requirement **FY 2019 Base Plans:** Continue pilot test and test documentation of capability provided by new point of injury hardware device to replace obsolete equipment and meet system requirement. Pilot test to be completed prior to procurement and deployment decisions. **FY 2018 to FY 2019 Increase/Decrease Statement:** Theater Medical Information Program-Joint software (legacy joint electronic health record system) reaches final objective in FY 2018. Funding for FY 2018 completes test and integration of objective system for final procurement and fielding. JROC approval of Joint Initial Capabilities Document (ICD) (FY 2016) and Capability Development Document (CDD) (FY 2017), and Army staffing of ICD (FY 2017) for modernized electronic health record system (Joint Operational Medical Information System Increment 1 [JI1]) created a requirement, beginning in FY 2019, to research, develop and test new hardware and architecture solutions to effectively implement the new modernized system, complying with Army Common Operating Environment and cloud computing directives and to refine Army deployment architecture.	0.200	0.015	1.031	-	1.031
Accomplishments/Planned Programs Subtotals	1.160	0.390	4.404	-	4.404

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018	

Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0605013A I *Information Technology Development*	Project (Number/Name) 193 I *Medical Communications For Combat Casualty*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
• MA8000: *Family of Med Comm for Combat Casualty Care*	19.893	15.964	25.177	-	25.177	23.877	23.545	24.509	25.002	0.000	157.967
• 432612000: *OMA PE 432612*	3.467	3.464	2.359	-	2.359	4.917	4.396	2.522	2.573	0.000	23.698
• 435107000: *OMA CIVPAY 435107*	-	-	3.753	-	3.753	3.825	3.902	3.985	4.069	0.000	19.534

Remarks

MA8000 funding as of OPA Annex AF2.0 dated 22 Dec 2017

D. Acquisition Strategy

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

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army		Date: February 2018

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) 193 / Medical Communications For Combat Casualty

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
				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	-
		Subtotal	8.405	-		-		-		-		-	0.000	8.405	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.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
				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 (was L-3) : Various	5.078	1.140	Jan 2017	0.385	Jan 2018	4.204	Jan 2019	-		4.204	0.000	10.807	-
Information Assurance	Various	ISEC Support : AZ	1.783	-		-		-		-		-	0.000	1.783	-
		Subtotal	16.251	1.140		0.385		4.204		-		4.204	0.000	21.980	N/A

Remarks

Information Assurance (IA) activities moved from ISEC to L3 in FY12, IA activities moved to another appropriation FY13; FY15 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 2QFY18. Modernization of TMIP-J software by Joint program (Joint Operational Medical Information System [JI1]) is currently in process, requiring continued engineering and technical support to ensure an operational system for Army use.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
PMO Testing Spt	MIPR	ATEC/AMEDD Board/JITC : various	6.736	0.020		0.005		0.200		-		0.200	0.000	6.961	-

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2019 Army													**Date:** February 2018	

Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** 193 *I Medical Communications For Combat Casualty*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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			50.388	0.020		0.005		0.200		-		0.200	0.000	50.613	N/A

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

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	75.044	1.160	0.390	4.404	-	4.404	0.000	80.998	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army | **Date:** February 2018

Appropriation/Budget Activity 2040 *I* 5	R-1 Program Element (Number/Name) PE 0605013A *I Information Technology Development*	Project (Number/Name) 193 *I Medical Communications For Combat Casualty*

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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

Event schedule bars:
- MC4/TMIP-J I2R3 Fielding Decision — marker **1** (FY 2018 Q2)
- System Updates — FY 2017 Q1 through FY 2018 Q1. "System updates approximately 1Q and 3Q each FY"
- Engineering and Technical Support — FY 2017 Q1 through FY 2023 Q4. "Engineering and Technical Support"
- MC4/TMIP-J Limited User Test and Test Documentation — FY 2017 Q1 through Q2
- Joint modernized software JI1 provided to Services to begin fielding — marker **2** (FY 2022 Q4). "JI1 Full Deployment Decision"

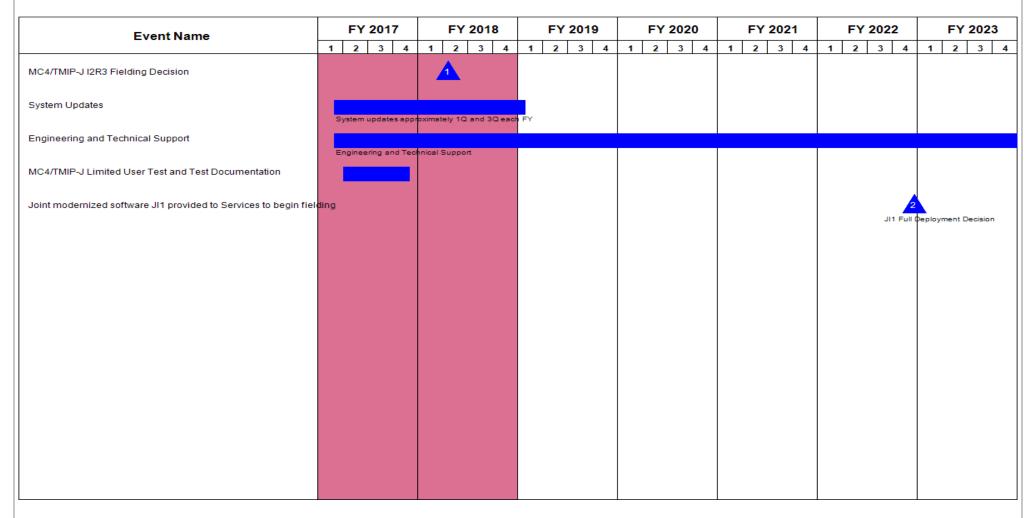| **Exhibit R-4A**, **RDT&E Schedule Details:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** 193 *I Medical Communications For Combat Casualty*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Planned Upgrades	1	2007	1	2016
MC4 Development/Integration Testing for TMIP-J I2R2	2	2012	3	2013
MC4/TMIP-J I2R2 MultiService Operational Test & Evaluation	3	2013	1	2014
MC4 Development/IntegrationTesting for TMIP-J I2R3	1	2014	3	2015
MC4/TMIP-J I2R3 MultiService Operational Test & Evaluation	4	2015	1	2016
MC4/TMIP-J I2R3 Fielding Decision	2	2018	2	2018
System Updates	1	2007	1	2019
Engineering and Technical Support	1	2007	1	2024
MC4/TMIP-J Limited User Test and Test Documentation	2	2017	4	2017
Joint modernized software JI1 provided to Services to begin fielding	4	2022	4	2022

Note

Planned Upgrades correspond to current TMIP-J Acquisition Strategy schedules for upgrades and enhanced capability of the TMIP software. System Updates correspond to projected software change packages, to include security enhancements, throughout this time period. Both Upgrades and 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 technology insertions for the modernized electronic health record system. The modernized electronic health record system, Joint Operational Medical Information System (JOMIS) Increment 1 (JI1) software, being developed by Defense Health Medical Systems, is expected to attain full deployment decision and provided to the Services in 4QFY22 to begin initial fielding.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018	
Appropriation/Budget Activity 2040 / 5				**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*					**Project (Number/Name)** 738 / *AcqBiz*		

COST ($ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
738: *AcqBiz*	-	5.422	9.118	41.032	-	41.032	42.409	30.190	18.223	13.682	0.000	160.076
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Beginning in FY 2019 funding for ACQBIZ/Integrated Program Management Environment (IPME) was transferred to 0605803A.

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.

The funding in this program element also funds the development requirements for the Human Resources Command, U.S. Army Accessioning Integrated Automation Architecture which provides the Information Technology solution necessary to accomplish the Army's Accessioning mission.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Program Management *Description:* This effort provides program management in support of the U.S. Army Accessing Integrated Automation Architecture mission. *FY 2018 Plans:* Continue efforts develop RIE/ARISS. *FY 2019 Base Plans:* Army HRC will continue efforts for ARISS, CCIMM and JCIMS for Financial Audit Readiness Requirement and technical requirements gathering, analysis and documentation to allow Readiness Requirement and technical requirements gathering, analysis and documentation. Development requirements for the Army Human Resources Command which provides the IT solution necessary to accomplish the Army's Accessioning mission and support development of the Accessioning Information Environment (AIE) /Recruitment Information	3.008	5.957	41.032	-	41.032

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) 738 / AcqBiz

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Environment (RIE) development. The Program Executive Office -Enterprise Information Systems was designated as the OPR for AIE effective 11 Oct 17 and funds will be transferred pending approval of Schedule 8 during POM 20-24. **FY 2018 to FY 2019 Increase/Decrease Statement:** AIE is an Enterprise level IT modernization effort to improve efficiency and effectiveness of the Army's Talent Acquisition workforce. The initiative will provide enterprise level capability with transparency, efficiency, effectiveness and greater mobility to acquire the best-qualified talent to meet Army manning requirements					
Title: Design, Development, and Test **Description:** This effort supports the sunset of the ACQBIZ system to the hosting of Integrated Program Management Environment (IPME) in a commercial cloud environment. **FY 2018 Plans:** PdM AcqBusiness funds will support the integration of COTS SW solutions (tentatively referred to as PM Tools) that provide authoritative, visible, accessible, understandable, trusted, and interoperable data in an Acquisition Data Warehouse (ADW) down to the ACAT III program level through the optimization of Product/Project Manager business processes. Increment 1 of the new Army Acquisition Domain Data Management (AADDM) capability will focus on programatic information such as Integrated Master Schedules (IMS), cost and budget, industrial base and contractor information. Increment II will then begin the connection of live, authoritative Army databases to the Acquisition data warehouse. Once the business processes and external data sources are providing the data: visualization tools can be utilized to provide key charts/views that support Army Staff (ARSTAFF) processes such as Program Objective Memorandum (POM), Weapon System Review (WSR), Strategic Portfolio Analysis and Review (SPAR), and budget execution drills. Supporting efforts include business process evaluation and definition to maximize efficiency of the Software integration process. Completion of Increment I PM Tools software integration, demonstration and evaluation of the PM Tools in a 6-9 month pilot event within a minimum of one PEO. Funding also supports further acquisition integration of external data sources as required. Further focus will concentrate on delivering more common data views and analytical capabilities to support decision making at Product Manager (PdM), Program Manager (PM), Program Executive Officer (PEO), ASA (ALT), and at ARSTAFF levels. Key events include the PM Tool pilot evaluation and a FP Tool deployment decision by the Milestone Decision Authority (MDA).	2.414	3.161	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 738 / *AcqBiz*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Human Resources Command will continue effort for CCIMM and JCIMS for Financial Audit Readiness Requirement and technical requirements gathering, analysis and documentation to allow TRADOC to conduct the Analysis of Alternatives for the RIE. ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Beginning in FY 2019 funding for ACQBIZ/Integrated Program Management Environment (IPME) was transferred to 0605803A.					
Accomplishments/Planned Programs Subtotals	5.422	9.118	41.032	-	41.032

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
• 432615000: *Operations and Maintenance*	10.542	8.294	8.511	-	8.511	8.738	8.977	9.224	-	0.000	54.286

Remarks

D. Acquisition Strategy

The ACQBIZ system will sunset and Integrated Program Management Environment (IPME) will be sustained in a commercial cloud environment in FY19. (APE 655013738 TO APE 0605803A)

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 738 / *AcqBiz*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Option/ FFP	ACC : Rock Island, IL	20.174	-		5.957		41.032		-		41.032	Continuing	Continuing	Continuing
Subtotal			20.174	-		5.957		41.032		-		41.032	Continuing	Continuing	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Analysis and Design, Development, Integration	TBD	TBD : TBD	80.052	5.422	Aug 2017	3.161		-		-		-	Continuing	Continuing	Continuing
Subtotal			80.052	5.422		3.161		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	100.226	5.422	9.118	41.032	-	41.032	Continuing	Continuing	N/A

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2019 Army	**Date:** February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** 738 / *AcqBiz*

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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

Technical Prototyping & Component Integration

Integration & Benefits Assessments

Major or Minor Release FY17 — ▲1

Sustainment FY18

Continuous

Sunset ACQBIZ System FY19 — ▲2

Exhibit R-4A, **RDT&E Schedule Details:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** 738 *I AcqBiz*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
Technical Prototyping & Component Integration	1	2006	4	2018
Major or Minor Release FY17	4	2017	4	2017
Sustainment FY18	1	2006	4	2018
Sunset ACQBIZ System FY19	4	2018	4	2018

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										**Date:** February 2018	
Appropriation/Budget Activity 2040 / 5				**R-1 Program Element (Number/Name)** PE 0605013A / Information Technology Development					**Project (Number/Name)** FE9 / ALTESS (P&R Forms)		

COST ($ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
FE9: *ALTESS (P&R Forms)*	-	0.112	0.110	0.112	-	0.112	0.000	0.000	0.000	0.000	0.000	0.334
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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.

B. Accomplishments/Planned Programs ($ in Millions)

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Continued development of the Army's Budget System	0.112	0.110	0.112	-	0.112
FY 2018 Plans: Continued development of the Army's Budget System					
FY 2019 Base Plans: System enhancements to improve reliability of form data and efficiency of form creation.					
FY 2018 to FY 2019 Increase/Decrease Statement: Economic adjustment.					
Accomplishments/Planned Programs Subtotals	0.112	0.110	0.112	-	0.112

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

D. Acquisition Strategy
N/A

E. Performance Metrics
N/A

PE 0605013A: *Information Technology Development*
Army

R-1 Line #119

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army | | | | | | | | | | | | Date: February 2018 | | |

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) FE9 / ALTESS (P&R Forms)

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
P&R System	SS/ Various	ALTESS : Radford, Virginia	-	0.112	Dec 2016	0.110		0.112		-		0.112	0.000	0.334	-
Subtotal			-	0.112		0.110		0.112		-		0.112	0.000	0.334	N/A

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	0.112	0.110	0.112	-	0.112	0.000	0.334	N/A

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2019 Army | **Date:** February 2018

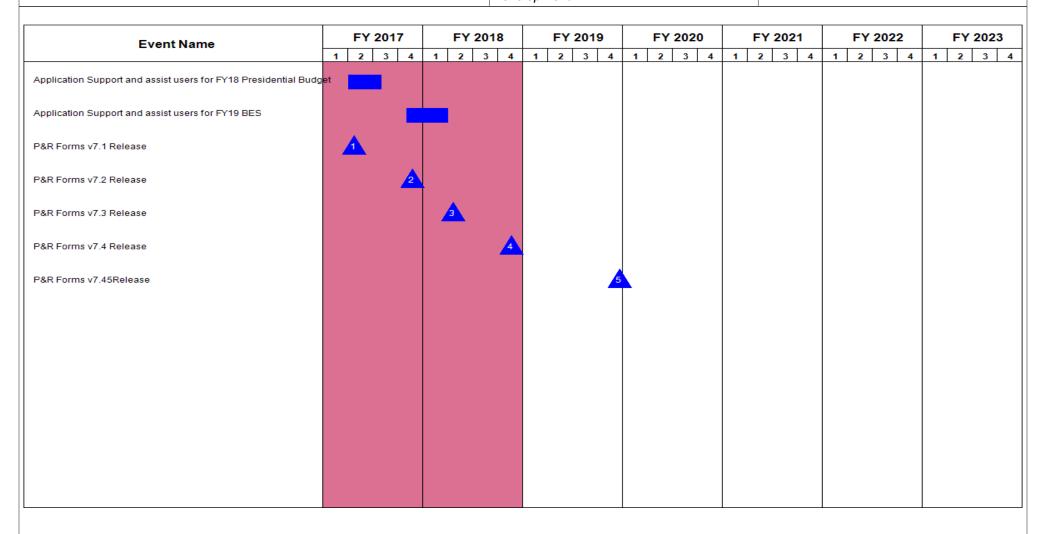| Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) FE9 / ALTESS (P&R Forms)

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
Application Support and assist users for FY18 Presidential Budget																												
Application Support and assist users for FY19 BES																												
P&R Forms v7.1 Release																												
P&R Forms v7.2 Release																												
P&R Forms v7.3 Release																												
P&R Forms v7.4 Release																												
P&R Forms v7.45Release																												

PE 0605013A: *Information Technology Development*
Army

Exhibit R-4A, **RDT&E Schedule Details:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** FE9 *I ALTESS (P&R Forms)*

Schedule Details

	Start		End	
Events	**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

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army											Date: February 2018	
Appropriation/Budget Activity 2040 *I* 5				**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*					**Project (Number/Name)** T04 *I USMEPCOM TRANSFORMTION - IT MODERNIZATION*			
COST ($ in Millions)	**Prior Years**	**FY 2017**	**FY 2018**	**FY 2019 Base**	**FY 2019 OCO**	**FY 2019 Total**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Cost To Complete**	**Total Cost**
T04: *USMEPCOM TRANSFORMTION - IT MODERNIZATION*	-	28.043	11.217	21.598	-	21.598	15.235	8.214	8.292	0.000	0.000	92.599
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

US Military Entrance Processing Command Integrated Resource System (MIRS) provides automation and communications capability to meet peacetime, mobilization and wartime military manpower accession mission for the Armed Services. MIRS interfaces with recruiting capabilities for the services, incorporating the concept of electronic data sharing using standard DoD data elements between USMEPCOM and all Armed Services recruiting commands. This project includes Computerized Adaptive Testing-Armed Services Vocational Aptitude Battery (CAT-ASVAB), automated Armed Services Vocational Aptitude Battery is given to determine applicants' mental abilities. Data Services mission consists of automatic data processing in support of USMEPCOM, the Selective Service System (SSS) and other external agencies for both peacetime and mobilization requirements. MIRS directly supports mobilization in the event of a military draft, through electronic links with the SSS and its ability to process and ship. USMEPCOM/MIRS is the only DoD organization legally authorized to collect civilian, medical and testing data for purposes of processing into military services and is the only DoD joint support system used to enforce congressional, DoD and Armed Forces qualification criteria for enlistment. USMEPCOM has established interfaces with US Citizenship and Immigration Services to verify citizenship status for applicants of military service to screen out undesired or security threat and Federal Bureau of Investigation for background screening using digital fingerprints to eliminate people with criminal records from entering military service. USMEPCOM's IT sustainment effort will maintain MIRS and the associated network certification and accreditation until the end of system lifecycle. MIRS was scheduled to be replaced by the Virtual Interactive Processing System (VIPS).   VIPS program cancellation has placed USMEPCOMs legacy IT infrastructure at high risk. The resultant system leaves a non-compliant and non-networthy accession system with processing gaps that need to be addressed for secure, compliant, sustainable, and reliable capabilities to meet DoD and Service requirements. USMEPCOM must continue toward security and data integrity regulatory/security compliance (PII and HIPAA) or lose Authority to Operate.

Customers/beneficiaries of this investment include the Accessions Community of Interest (ACOI) including components of the Army, Navy, Air Force, Marines, Coast Guard, USMEPCOM and OSD (P&R).

Stakeholders include: All Uniformed Services, Assistant Secretary of Defense (Health Affairs), Defense Transportation Management Office, USD P&R, USD Intel, Defense Manpower Data Center and Department of Veterans Affairs.

Requested funding mitigates inefficient system sustainability and scalability through an update of the applications underlying database, operating system and middleware software. The current legacy system requires time consuming and expensive efforts to make operational changes (even minor ones) to military accessions processing to meet DoD and individual Services requirements. MIRS operational processes exist in a system where business rules and workflow are hard coded throughout the system. Any changes require extensive review and analysis of the code to see what is impacted before a change can be made, then extensive testing afterwards to make sure it works correctly throughout the accession process. Currently there are over 600 Problem Reports (PR) and System Change Requests (SCRs) pending.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** T04 *I USMEPCOM TRANSFORMTION - IT MODERNIZATION*

The requested funding also provides for the development of the Defense Digital Service's (DDS) Minimally Viable Product (MIRS 1.1) and its integration with existing applicant processing applications and the incorporation of MHS GENESIS with USMEPCOM's applicant processing systems. Lastly, funding will be used to develop a full-scale replacement for MIRS/MIRS 1.1, if deemed necessary.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Phase 3 Application update	19.977	9.717	21.598	-	21.598
Description: Initiate update of MIRS and associated Applicant Processing applications to secure applicant data					
FY 2018 Plans: Continue update of MIRS and associated Applicant Processing applications to secure applicant data					
FY 2019 Base Plans: Continue update of MIRS and associated Applicant Processing applications to secure applicant data, and fielding of DDS MIRS 1.1.					
FY 2018 to FY 2019 Increase/Decrease Statement: FY 2018 funding was reduced by $20M. These funds were realigned to FY 2019, $10M and FY 2020, $10M allowing USMEPCOM to better position funding for any Defense Business System modernization efforts identified by Business Process Reengineering.					
Title: Project Support	8.066	1.500	-	-	-
Description: Funding will support Information Technology					
FY 2018 Plans: Continue Update of MIRS and associated Applicant Processing Applications to facilitate DoDAF 2.0 and BEA compliant architecture.					
FY 2018 to FY 2019 Increase/Decrease Statement: Project in sustainment.					
Accomplishments/Planned Programs Subtotals	28.043	11.217	21.598	-	21.598

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

Exhibit R-2A, **RDT&E Project Justification:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** T04 *I USMEPCOM TRANSFORMTION - IT MODERNIZATION*

D. Acquisition Strategy

 N/A

E. Performance Metrics

 N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** T04 *I USMEPCOM TRANSFORMTION - IT MODERNIZATION*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Contractor PM Support	Various	TBD : TBD	9.645	-		8.474		21.598		-		21.598	0.000	39.717	-
		Subtotal	9.645	-		8.474		21.598		-		21.598	0.000	39.717	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MIRS Phase 3 & eSecurity/Biometircs Replacement	C/Various	various : various	12.062	28.043		2.743		-		-		-	Continuing	Continuing	-
		Subtotal	12.062	28.043		2.743		-		-		-	Continuing	Continuing	N/A

Remarks
  MEPCOM Jnt Comp Ctr(JCC) & Integ Resource Sys(IRR). This RDT&E will be used by USMEPCOM for continued project transformation support of VIPS.

	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	21.707	28.043		11.217		21.598		-		21.598	Continuing	Continuing	N/A

Remarks

PE 0605013A: *Information Technology Development*
Army

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army			Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) T04 / USMEPCOM TRANSFORMTION - IT MODERNIZATION	

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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																												

Exhibit R-4A, **RDT&E Schedule Details:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** T04 *I USMEPCOM TRANSFORMTION - IT MODERNIZATION*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
PRODUCT DEVELOPMENT	1	2015	4	2020

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018	

Appropriation/Budget Activity 2040 I 5				R-1 Program Element (Number/Name) PE 0605013A I Information Technology Development					Project (Number/Name) T05 I Army Business System Modernization Initiatives		

COST ($ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
T05: *Army Business System Modernization Initiatives*	-	29.666	39.216	37.714	-	37.714	35.419	30.376	32.824	26.963	0.000	232.178
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
 Chief of Staff, Army Leaders' Dashboard was requested in an FY 2017 Above Threshold Reprogramming action.

A. Mission Description and Budget Item Justification
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).

The Army Training Information System (ATIS) will provide a common operational picture (COP) of the training environment through integrated, interoperable training development, management, scheduling, and delivery capabilities. 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. 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 visualization, understanding, and informed decision making.

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 is capable of tracking high risk behavior patterns within a Commander's unit, coupled with a complete picture of high risk behavior of individuals will allow Commanders to take a more proactive mitigation approach through unit level training as well as individual interventions. The implementation of the CRRD will decrease the number of resources and steps involved in gathering data and providing Commanders with risk related information.

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 DASA(ESOH) revealed a deficiency in the system's requirements that would support Army Commands in identifying hazards in the work place, determining hazard

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) T05 / Army Business System Modernization Initiatives

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.

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).

The Defense Language Software Upgrade will perform a major modification to the Universal Course Authoring Tool (UCAT). The modification will enable the tool to allow the curriculum development department to author new curricula without having to know a programming language, such as HTML. Currently, the tool has limited authoring templets and doesn't support the higher language levels or contain testing templets. The tool will do the programming automatically in the proper format for online viewing regardless of the mobile device used to view the material. This will enable the author to input the content in a predetermined way and the program will convert it into the proper online format. There will also be programming support to develop and convert existing online material into the current formats for use with all mobile devices regardless of the operating system used. Our current online material does not support all mobile devices and it needs to be reprogrammed to support all current mobile devices regardless of the Operating System (OS) used (Android, Apple, Microsoft). The Defense Language Institute (DLI) doesn't have the capability to do any programming modifications to existing programs. The programs are in need of modifications to meet DLI's new graduation standards of 2+/2+.

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 streamling 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).

Army Career Tracker (ACT) is a leader development tool created to change significantly the way training, education, and experiential learning support is provided to Army enlisted, officers, civilians, and their leaders/supervisors. Users can search multiple education and training resources, monitor career development, and receive advice from their leadership. ACT provides single-site, easy access, and offers a complete and personalized career picture not available until now. ACT allows users

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0605013A I *Information Technology Development*	Project (Number/Name) T05 I *Army Business System Modernization Initiatives*

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 the Army's success. ACT comprises over 780,000 users with an adoption rate of 4,000 users per week. HQDA EXORD 054-12 ISO Army Transition mandates that leaders utilize roles in ACT to promote life-long learning and development opportunities throughout the Soldier's lifecycle of service (hire to retire).

The Defense Language Software Upgrade will perform a major modification to the Universal Course Authoring Tool (UCAT). The modification will enable the tool to allow the curriculum development department to author new curricula without having to know a programming language, such as HTML. Currently, the tool has limited authoring templets and doesn't support the higher language levels or contain testing templets. The tool will do the programming automatically in the proper format for online viewing regardless of the mobile device used to view the material. This will enable the author to input the content in a predetermined way and the program will convert it into the proper online format. There will also be programming support to develop and convert existing online material into the current formats for use with all mobile devices regardless of the operating system used. Our current online material does not support all mobile devices and it needs to be reprogrammed to support all current mobile devices regardless of the Operating System (OS) used (Android, Apple, Microsoft). The Defense Language Institute (DLI) doesn't have the capability to do any programming modifications to existing programs. The programs are in need of modifications to meet DLI's new graduation standards of 2+/2+.

Criminal Information 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 will be applied to CIMS initiatives.

Educational Outreach Initiative: The Defense Forensic Science Center (DFSC), a subordinate element of USACIDC, requires funding for educational outreach initiatives including internship positions at the undergraduate, graduate, and doctoral candidate levels. The DFSC was designated as the leader for forensic science disciplines (DAPM Memo 4 Oct 2011). This memorandum states that the DFSC will establish a forensic RDT&E program that provides the integration of joint operational research, including procedures for establishing customer requirements, and identifying gaps and needs that lead to RDT&E priorities. The program includes developing a scholarly environment across the Defense Forensic Enterprise through the use of educational partnerships, internships and fellowships to facilitate participation in RDT&E projects. The Educational Outreach program provides an opportunity for students to contribute to forensic science research and influence shared research priorities

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) T05 / Army Business System Modernization Initiatives

across forensic science communities, while simultaneously supporting DFSC laboratory operations. Through the internship program, innovative research is conducted that supports research capabilities across the entire range of defense forensic operations (traditional laboratory, expeditionary (forward-deployed) laboratories, and reach-back functions).

Research & Development Identified through the Broad Agency Announcement (BAA) Initiative: The DFSC requires funds to coordinate the execution of forensic research projects that will enhance the capability of forensic science applications for DoD customers both in traditional law enforcement/criminal justice settings as well as in expeditionary environments. The DFSC staff manage federally-funded research & development contracts identified through a two-year, rolling BAA procedure. The BAA is issued under the provisions of paragraph 6.102(d) (2) of the Federal Acquisition Regulation (FAR), which provides for the competitive selection of proposals. Submitted BAA research proposals selected for award are considered to be the result of full and open competition and in full compliance with the provisions of Public Law 98-369, "The Competition in Contracting Act of 1984" (and subsequent applicable amendments).

Financial Integrated Reporting Environment (FIRE): FIRE is a U.S. Army Material Command (AMC) Enterprise Resource Planning (ERP) system currently deployed at the Armament, Research, Development and Engineering Center (ARDEC). FIRE supports the funding and manpower required to accomplish ARDEC's reimbursable workload. RDTE is required to develop and expand the system as an enterprise solution across all AMC reimbursable activities. This strategy is in line with existing Army Portfolio Management System (APMS) and Business Enterprise Architecture (BEA) Objectives.

Regional Level Application Software (RLAS) is a critical IT application to the AR managing the automated military pay, funds control, training calendar management and administrative records management for 198,000 Soldiers.

Army Software Marketplace (ASM): ASM will enable the Army to have a centralized location to store software applications and application metadata.

Chief of Staff, Army (CSA) Leaders' Dashboard: The CSA Leaders' Dashboard will capture and store readiness information in order to produce predictive analytics and facilitate decision making by senior Army leaders.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Global Force Information Management	-	2.968	2.887	-	2.887
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. In addition, it will establish a common standard for force structure data by implementing the Global Force Management Data Initiative (GFM-DI). FY 2018 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0605013A I *Information Technology Development*	**Project (Number/Name)** T05 I *Army Business System Modernization Initiatives*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Funding will be used for pre-Milestone Acquisition Planning including development of acquisition strategy, cost estimating, and contract strategy. In addition, funding will be used to support pre-Milestone Systems Engineering support for requirements analysis and functional blueprinting support. *FY 2019 Base 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 2018 to FY 2019 Increase/Decrease Statement:* FY 2018 included start up costs.					
Title: Army Training Information System (ATIS) *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. *FY 2018 Plans:* Funding will be used to continue the Business System Functional Requirements and Acquisition Planning (BS FARP) phase activities, complete RFP activities, and develop documentation needed to achieve the Acquisition Authority to Proceed (ATP) milestone. *FY 2019 Base Plans:* Funding will be used to complete the Business System Functional Requirements and Acquisition Planning (BS FARP) phase activities, develop documentation needed to achieve the Acquisition Authority to Proceed (ATP) milestone, develop Business System Acquisition, Testing and Deployment (BS ATD) RFP, and enter into BS ATD phase to begin development of the Army Training Information System (ATIS). *FY 2018 to FY 2019 Increase/Decrease Statement:* Funding will be used to execute the Business System Acquisition and begin the development of the Army Training Information System (ATIS).	15.663	12.722	15.859	-	15.859
Title: Commanders Risk Reduction Dashboard (CRRD)	0.627	1.485	3.068	-	3.068

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018	
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0605013A I *Information Technology Development*	Project (Number/Name) T05 I *Army Business System Modernization Initiatives*	

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Description: CRRD will consolidate information from multiple Army databases and present to commanders a concise report about which Soldiers in their unit have been involved with at-risk behaviors, some of which may be associated with suicide, and when those instances occurred. *FY 2018 Plans:* -Complete development of CRRD Inc 2 capability -Conduct Operational Test *FY 2019 Base Plans:* The CRRD tool will provide a single dashboard of information that identified potential attributes that increase the risk of suicide. The dashboard will provide Commanders in all Army components with the capability to obtain information regarding the soldier?s previous disciplinary actions, both civilian and UCMJ as well as the information regarding the health of the Soldier. This information will enable the Commander to gain additional inputs on the Soldier?s background, allowing the Commander to adjust their leadership and counseling approach to improve the Soldier?s wellbeing therefore increasing their ability to perform their duties. *FY 2018 to FY 2019 Increase/Decrease Statement:* In addition to the 099 AHRS project line, CRRD has a confirmed development requirement in FY 2018 for $1.485M. In FY 2019, the programs requires at least $800K of the projected $3.068M to complete development and design of various system interfaces.					
Title: The Army Safety and Health Management System (ASHMS) *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 DASA(ESOH) revealed a deficiency in the system's requirements that would support Army Commands in identifying hazards in the	5.533	0.191	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army			Date: February 2018		
Appropriation/Budget Activity 2040 I 5		R-1 Program Element (Number/Name) PE 0605013A I Information Technology Development		Project (Number/Name) T05 I Army Business System Modernization Initiatives	

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
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. . *FY 2018 Plans:* FY 2018 funds are being used to continue development of products and tools to modernize mishap reporting through the addition of an Initial Notification capability for Commanders, offline capability for mishap reporting in low/no bandwidth areas, and mobile application capabilities as well as Human Factors risk management. *FY 2018 to FY 2019 Increase/Decrease Statement:* System in sustainment.					
Title: Army Business System Modernization Initiatives, CPOL, iPERMS & RLAS *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	0.682	1.379	1.200	-	1.200

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0605013A / *Information Technology Development*	**Project (Number/Name)** T05 / *Army Business System Modernization Initiatives*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
processes include, but are not limited to, analytics, materials management, management reporting, Freedom of Information Act requests (FOIA), legal discovery request, court preparation and outsource processing. Civilian Personnel Online - Portal (CPOL-Portal) is a one stop secure site which provides Army civilian employees and HR specialists access to a private portal with a complete set of employment related resources, links and web based applications that require single sign-on access - Army Regional Tools (ART). CPOL-Portal will provide an Integrated Management System (IMS) in support of Civilian Workforce Transformation (CWT). It will support Civilian human capital decision making and allow leaders and 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. 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. 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. ***FY 2018 Plans:*** Continue to fund Army Business System Modernization Initiatives. ***FY 2019 Base Plans:*** Continue to fund Army Business System Modernization Initiatives ***FY 2018 to FY 2019 Increase/Decrease Statement:*** Economic adjustments.					
Title: Army Career Tracker (ACT)	0.748	0.960	0.962	-	0.962

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0605013A I *Information Technology Development*	**Project (Number/Name)** T05 I *Army Business System Modernization Initiatives*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total

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.

FY 2018 Plans:
The revision of the Professional development model will ensure greater granularity, while providing the ability to capture and report on branch competencies by skill levels. This effort will include provide a backend administrative console for use of management and sustainment, additions and deletions of career/learning content and related competencies. The automated Individual Development Plan in ACT does not support the continuous interaction between the supervisor and employee as a living document. As we transition to DoD Performance Management and Appraisal Program (DPMAP), these required enhancements to the ACT system will assist in keeping a strong connection between performance management and employee development. Currently the Sergeant Major Management Office (SMMO) does not have an enterprise level leader development tool for accurate display management of KSAs at the personnel or position level. Exportable Life Long Learning Profile is needed in collaboration with each individual, identify employment, education, and training opportunities which will extend their talents and optimize their performance.

FY 2019 Base Plans:
The revision of the Professional development model will ensure greater granularity, while providing the ability to capture and report on branch competencies by skill levels. This effort will include provide a backend administrative console for use of management and sustainment, additions and deletions of career/learning content and related competencies. The automated Individual Development Plan in ACT does not support the continuous interaction between the supervisor and employee as a living document. As we transition to DoD Performance Management and Appraisal Program (DPMAP), these required enhancements to the ACT system will assist in keeping a strong connection between performance management and employee development. Currently the Sergeant Major Management Office (SMMO) does not have an enterprise level leader development tool for accurate display management of KSAs at the personnel or position level. Exportable Life Long Learning Profile is needed in collaboration with each individual, identify employment, education, and training opportunities which will extend their talents and optimize their performance.

FY 2018 to FY 2019 Increase/Decrease Statement:

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0605013A I *Information Technology Development*	Project (Number/Name) T05 I *Army Business System Modernization Initiatives*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Economic adjustments.					
Title: Criminal Information Management System (CIMS)	2.167	4.361	4.094	-	4.094

Description: CIMS formerly known as the Law Enforcement Advisory Program (LEAP), is a collection of mission essential information technology (IT) systems within the Criminal Investigation Command (CIDC) and the Office of the Provost Marshal General (OPMG). Thru the CIMS, USACIDC and OPMG developed an integrated and unified, comprehensive enterprise program / system that houses Classified and Unclassified - Law Enforcement Sensitive (LES) data, leveraging existing and future Army 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), provides US Army Law Enforcement stakeholders the enhanced capability to rapidly and efficiently manage a variety of Law Enforcement and criminal intelligence (CrimIntel) functions; as well as a broader range of senior executive reporting requirements. RDT&E dollars are required to further enhance ALERTS and other CIMS systems to continue the consolidation/rationalization of LE applications, and to give the LE community the tools to more quickly investigate, solve, and prevent Army crime.

FY 2018 Plans:
FY 2018 funds will continue to develop the Database and to increase and improve law enforcement data sharing in the Army Law Enforcement Community. FY 2018 RDT&E dollars are required to further enhance ALERTS, COPS and other CIMS systems to continue the consolidation/rationalization of Law Enforcement applications, and to give the law enforcement community the tools to more quickly investigate, solve, and prevent Army crime.

FY 2019 Base Plans:
FY 2019 funds will continue to develop the Database and to increase and improve law enforcement data sharing in the Army Law Enforcement Community. FY 2019 RDT&E dollars are required to further enhance ALERTS, COPS and other CIMS systems to continue the consolidation/rationalization of Law Enforcement applications, and to give the law enforcement community the tools to more quickly investigate, solve, and prevent Army crime.

FY 2018 to FY 2019 Increase/Decrease Statement:
Economic adjustments.

Title: Educational Outreach Initiative	0.156	-	-	-	-

Description: Defense Forensic Science Center requires funding for educational outreach initiatives including internship positions at the undergraduate, graduate, and doctoral candidate levels. Defense Forensic Science

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) T05 / Army Business System Modernization Initiatives		

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Center was designated as the leader for forensic science disciplines (DAPM Memo 4 Oct 2011). This memorandum states that the DFSC will establish a forensic RDT&E program that provides the integration of joint operational research, including procedures for establishing customer requirements, and identifying gaps and needs that lead to RDT&E priorities. The program includes developing a scholarly environment across the Defense Forensic Enterprise through the use of educational partnerships, internships and fellowships to facilitate participation in RDT&E projects. The Educational Outreach program will provide an opportunity for students to contribute to forensic science research and influence shared research priorities across the forensic science communities, while supporting the DFSC and laboratory operations. Through the internship program, a variety of innovative research will be conducted that supports research capabilities across the entire range of military operations including traditional, expeditionary (forward deployed laboratories), and reach-back operations.					
Title: Financial Integrated Reporting Environment (FIRE) Description: FIRE supports the funding and manpower required to accomplish ARDEC?s reimbursable workload. RDTE is required to develop and expand the system as an enterprise solution across all AMC reimbursable activities. This strategy is in line with existing Army Portfolio Management System (APMS) and Business Enterprise Architecture (BEA) Objectives. FY 2018 Plans: Continue funding development work to expand the system as an enterprise solution across all AMC reimbursable activities. FY 2019 Base Plans: Continue funding development work to expand the system as an enterprise solution across all AMC reimbursable activities. FY 2018 to FY 2019 Increase/Decrease Statement: Economic adjustments.	0.104	8.291	8.228	-	8.228
Title: Research & Development Identified through the Broad Agency Announcement Initiative Description: The Defense Forensic Science Center (DFSC) requires funds to coordinate the execution of forensic research projects that will enhance the capability of forensic science applications for DoD customers both in traditional law enforcement/criminal justice purviews and in expeditionary environments. The DFSC staff will manage federally funded research and development contracts identified through a two year rolling Broad Agency Announcement (BAA) procedure. The BAA is issued under the provisions of paragraph 6.102(d)	2.340	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army				**Date:** February 2018	
Appropriation/Budget Activity 2040 *I* 5		**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*		**Project (Number/Name)** T05 *I Army Business System Modernization Initiatives*	

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
(2) of the Federal Acquisition Regulation (FAR), which provides for the competitive selection of proposals. Research proposals submitted in response to this BAA and selected for award are considered to be the result of full and open competition and in full compliance with the provisions of Public Law 98-369, "The Competition in Contracting Act of 1984" and subsequent amendments.					
Title: Defense Language Software Upgrade **Description:** Modify the Universal Course Authoring Tool (UCAT). This tool will enable the curriculum development department to author new curricula without having to program in HTML. The tool will do the programming automatically in the proper format for online viewing. There will also be programming support to develop and convert existing online material into the current formats for use with all mobile devices regardless of the operating system used. **FY 2018 Plans:** Modify the Universal Course Authoring Tool (UCAT). This tool will enable the curriculum development department to author new curricula without having to program in HTML. The tool will do the programming automatically in the proper format for online viewing. There will also be programming support to develop and convert existing online material into the current formats for use with all mobile devices regardless of the operating system used. **FY 2019 Base Plans:** Modify the Universal Course Authoring Tool (UCAT). This tool will enable the curriculum development department to author new curricula without having to program in HTML. The tool will do the programming automatically in the proper format for online viewing. There will also be programming support to develop and convert existing online material into the current formats for use with all mobile devices regardless of the operating system used. **FY 2018 to FY 2019 Increase/Decrease Statement:** Inflation adjustment to funding.	1.646	1.379	1.416	-	1.416
Title: Army Software Marketplace (ASM) **Description:** ASM will enable the Army to have a centralized location to store software applications and application metadata. **FY 2018 Plans:**	-	5.480	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0605013A I *Information Technology Development*	**Project (Number/Name)** T05 I *Army Business System Modernization Initiatives*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
User will be able to access application software to perform their mission. ASM will allow the Army to avoid duplicative efforts and excessive cost by creating a standardized environment. ASM will allow the Army to manage software applications and control which users have the ability to download and/or install software. ***FY 2018 to FY 2019 Increase/Decrease Statement:*** There is no requirement for development in FY 2019 for Army Software Marketplace.					
Accomplishments/Planned Programs Subtotals	29.666	39.216	37.714	-	37.714

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

D. Acquisition Strategy

 Modernize IT legacy systems across Army IT domains by adapting/improving government off the shelf (GOTS), commercial off the shelf (COTS), and new software development to perform various tasks in a networked environment. These efforts include Army Contract Writing System (ACWS), Army Training Information System (ATIS), Soldier Management System (SMS), Commander's Risk Reduction Dashboard (CRRD), the Army Strategic Readiness Update (ASRU), Law Enforcement Advisory Program (LEAP),Educational Outreach Program, R&D Broad Agency Program, Program Planning Budget Execution (PPBE) - Business Operating System (BOS), 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 Retain System, Army Contract Writing System (ACWS), Army Mapper, and the Interactive Personnel Electronic Records Management System (iPERMS).

 ACWS strategy is to perform all requisite activities to concurrently develop pre-milestone A/B documentation and perform pre-solicitation/source selection activities to meet the USD AT&L timelines for building a contract writing system to replace legacy contract systems to include the Standard Procurement System (SPS).

 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.

Exhibit R-2A, **RDT&E Project Justification:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** T05 *I Army Business System Modernization Initiatives*

Additionally, advances in technology allow for improvements in performance and data integrity that currently are deficiencies in the system. ASMIS-R, in its current state, does not provide any IT (material solution) to the business requirements identified above. The Command has utilized a 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 2019.

HQDA AG-1 Civilian Personnel (CP) Systems' Acquisition Strategy - The HQDA AG-1 Civilian Personnel (CP) office, Civilian Information Services Division (CISD) Chief and Program Managers will manage these modernization efforts and will utilize the HQDA AG-1 CP's Configuration Control Committee (CCC), Configuration Control Board (CCB), and Integrated Product Teams (IPT) to ensure the appropriate functionality is implemented into OET, CPOL Portal, and FASCLASS. Development tasks will be performed by AG-1 CP's contractor staff, whose performance is monitored according to the Quality Assurance Surveillance Program. In addition, unit testing and operational testing will be implemented to ensure the new functionality performs as required. This work will be performed on a firm- fixed- price contract vehicle.

GFIM will leverage an existing Force Management System Cost Plus Fixed Fee contract with CACI to execute development efforts.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army													Date: February 2018

Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0605013A I *Information Technology Development*	Project (Number/Name) T05 I *Army Business System Modernization Initiatives*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017 Cost	FY 2017 Award Date	FY 2018 Cost	FY 2018 Award Date	FY 2019 Base Cost	FY 2019 Base Award Date	FY 2019 OCO Cost	FY 2019 OCO Award Date	FY 2019 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
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	23.230	0.104		8.291		8.228		-		8.228	0.000	39.853	-
Product Development for ACWS	C/IDIQ	PEO EIS : Alexandria, VA	45.741	-		-		-		-		-	Continuing	Continuing	Continuing
ATIS	C/IDIQ	PEO EIS : FT Eustice VA	8.845	15.663		12.722		15.859		-		15.859	Continuing	Continuing	-
CRRD	C/IDIQ	TBD : TBD	-	0.627		1.485		3.068		-		3.068	Continuing	Continuing	-
The Army Safety and Health Management System	C/IDIQ	TBD : TBD	3.692	4.533		0.191		-		-		-	Continuing	Continuing	-
Army Career Tracker	C/FFP	IBM : Reston, VA	0.580	0.748		0.960		0.962		-		0.962	Continuing	Continuing	-
Army Business System Modernization Initiatives	C/IDIQ	TBD : TBD	19.715	1.682		1.379		1.200		-		1.200	Continuing	Continuing	-
CIMS	C/IDIQ	ACC : NCR	0.003	2.167		4.361		4.094		-		4.094	0.000	10.625	-
Educational Outreach Initiative:	C/IDIQ	DFSC : FT Gillem	-	0.156		-		-		-		-	0.000	0.156	-
Research & Development Identified through the Broad Agency Announcement Initiative	C/IDIQ	DFSC : Ft Gillem	-	2.340		-		-		-		-	0.000	2.340	-
Defense Language Software Upgrade	C/FFP	TBD : TBD	0.878	1.646		1.379		1.416		-		1.416	0.000	5.319	-
Army Software Marketplace (ASM)	TBD	PEO EIS : Fort Belvoir, VA	-	-		5.480		-		-		-	0.000	5.480	-
Global Force Information Management	Option/CPFF	CACI : Chantilly, VA	-	-		2.968		2.887		-		2.887	0.000	5.855	-
Subtotal			119.254	29.666		39.216		37.714		-		37.714	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army															Date: February 2018	

Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0605013A I Information Technology Development	Project (Number/Name) T05 I Army Business System Modernization Initiatives

Product Development ($ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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

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.

Adapt/improve/install/field government off the shelf (GOTS), commercial off the shelf (COTS), and new software to perform various tasks in a networked environment such as data warehousing, force management, personnel, installation and environmental databases and applications to support Business System Transformation and Installation Management, to include Commander's Risk Reduction Dashboard.

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).

Criminal Information 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 Criminal Investigation Command (CIDC) and the Office of the Provost Marshal General (OPMG). Thru the CIMS, USACIDC and OPMG developed an integrated and unified, comprehensive enterprise program / system that houses Classified and Unclassified - Law Enforcement Sensitive (LES) data, leveraging existing and future Army 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), provides US Army Law Enforcement stakeholders the enhanced capability to rapidly and efficiently manage a variety of Law Enforcement and criminal intelligence (CrimIntel) functions; as well as a broader range of senior executive reporting requirements. RDT&E dollars are required to further enhance ALERTS and other CIMS systems to continue the consolidation/rationalization of LE applications, and to give the LE community the tools to more quickly investigate, solve, and prevent Army crime.

Educational Outreach Initiative: The Defense Forensic Science Center (DFSC), a subordinate element of USACIDC, requires funding for educational outreach initiatives including internship positions at the undergraduate, graduate, and doctoral candidate levels. The DFSC was designated as the leader for forensic science disciplines (DAPM Memo 4 Oct 2011). This memorandum states that the DFSC will establish a forensic RDT&E program that provides the integration of joint operational research, including procedures for establishing customer requirements, and identifying gaps and needs that lead to RDT&E priorities.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army													**Date:** February 2018		

Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0605013A I *Information Technology Development*	Project (Number/Name) T05 I *Army Business System Modernization Initiatives*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
IPPS-A SUPPORT COSTS	MIPR	HRC : FORT KNOX, KY	15.357	-		-		-		-		-	0.000	15.357	-
HRC SYSTEMS KEYSTONE, IPERMS	MIPR	HRC : FORT KNOX, KY	0.385	-		-		-		-		-	0.000	0.385	-
Law Enforcement Advisory Program(LEAP)	MIPR	ACC/NCR : Quantico, VA	2.677	-		-		-		-		-	Continuing	Continuing	-
ARMY MAPPER	C/T&M	TBD : TBD	0.220	-		-		-		-		-	0.000	0.220	-
Subtotal			18.639	-		-		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	137.893	29.666	39.216	37.714	-	37.714	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** T05 *I Army Business System Modernization Initiatives*

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
ACWS Product Development ACWS																												
ATIS Product Development ATIS																												
CRRD Product Development CRRD																												
ASHMS Product Development ASHMS																												
ACT Prduct Development ACT																												
Army Business System Modernization ABSM																												
Army Software Marketplace (ASM) ASM																												
Global Force Information Management GFIM Development																												

Exhibit R-4A, **RDT&E Schedule Details:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** T05 *I Army Business System Modernization Initiatives*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
PPB BOS Product Development	1	2014	4	2015
ACWS Product Development	1	2014	4	2018
ATIS Product Development	1	2016	1	2023
CRRD Product Development	1	2016	2	2017
ASHMS Product Development	1	2016	2	2018
ACT Prduct Development	1	2016	4	2018
Army Business System Modernization	1	2016	4	2020
Army Software Marketplace (ASM)	3	2017	1	2018
Global Force Information Management	2	2018	4	2021

Note
 Army Contract Writing System moves to 0605047 FY 2017.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018	
Appropriation/Budget Activity 2040 / 5				**R-1 Program Element (Number/Name)** PE 0605013A / Information Technology Development					**Project (Number/Name)** VR3 / ASMIS-R (REPORTIT)		

COST ($ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
VR3: *ASMIS-R (REPORTIT)*	-	0.000	3.598	3.026	-	3.026	3.095	3.159	3.222	3.268	0.000	19.368
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: ASMIS-R Development **FY 2018 Plans:** FY 2018 funds are being used to continue development of ASMIS-R products and tools. **FY 2019 Base Plans:** FY 2019 funds are being used to continue development of ASMIS-R products and tools. **FY 2018 to FY 2019 Increase/Decrease Statement:** Contract rate adjustment beginning in FY 2019.	-	3.598	3.026	-	3.026
Accomplishments/Planned Programs Subtotals	-	3.598	3.026	-	3.026

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

PE 0605013A: *Information Technology Development*
Army

R-1 Line #119

Exhibit R-2A, **RDT&E Project Justification:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 **/** 5	**R-1 Program Element (Number/Name)** PE 0605013A **/** *Information Technology Development*	**Project (Number/Name)** VR3 **/** *ASMIS-R (REPORTIT)*

D. Acquisition Strategy

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

Additionally, advances in technology allow for improvements in performance and data integrity that currently are deficiencies in the system. ASMIS-R, in its current state, does not provide any IT (material solution) to the business requirements identified above. The Command has utilized a 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 2019.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army													Date: February 2018	
Appropriation/Budget Activity 2040 *I* 5									**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*				**Project (Number/Name)** VR3 *I ASMIS-R (REPORTIT)*	

Management Services ($ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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**
Product Development	Option/ FFP	Global Technology Services : Anchorage, Alaska	-	-		3.598		3.026		-		3.026	0.000	6.624	-
		Subtotal	-	-		3.598		3.026		-		3.026	0.000	6.624	N/A

	Prior Years	**FY 2017**		**FY 2018**		**FY 2019 Base**		**FY 2019 OCO**		**FY 2019 Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Project Cost Totals	-	-		3.598		3.026		-		3.026	0.000	6.624	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605013A / Information Technology Development	Project (Number/Name) VR3 / ASMIS-R (REPORTIT)

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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																												

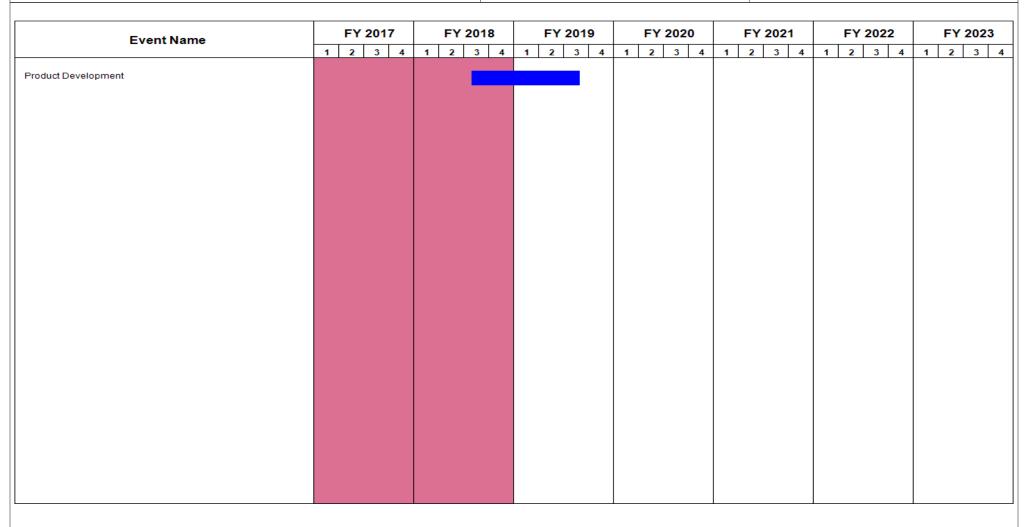| **Exhibit R-4A**, **RDT&E Schedule Details:** PB 2019 Army		**Date:** February 2018
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0605013A *I Information Technology Development*	**Project (Number/Name)** VR3 *I ASMIS-R (REPORTIT)*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
Product Development	3	2018	3	2019