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

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	57.604	70.652	52.739	-	52.739	-	-	-	-	-	-
083: <i>Global Combat Support Sys - Army</i>	-	12.507	20.883	20.375	-	20.375	-	-	-	-	-	-
EK2: <i>GCSS-A Increment 2</i>	-	45.097	49.769	32.364	-	32.364	-	-	-	-	-	-

Note

Effective February 2, 2017, the Department of Defense Instruction (DODI) 5000.75 was issued to establish policy for use of Business Capability Acquisition Cycle for Defense Business Systems. The DODI 5000.75 supersedes DODI 5000.02, improving the alignment of business systems to commercial best practices as well as optimizing efficiencies and effectiveness across the DOD for the acquisition of business systems. Decisions rendered by the Milestone Decision Authority, as outlined in the DODI 5000.75, are referred to as "Authority To Proceed" and replace DODI 5000.02 "Milestones."

A. Mission Description and Budget Item Justification

GCSS-Army Increment 1 gives combat forces a decisive edge by providing soldiers a seamless flow of timely, accurate, accessible, and secure logistics information to get combat power at the right place, at the right time. The GCSS-Army program is an information and communications technology investment that provides key enabling support to the transformation of the Army into a network-centric, knowledge-based future force. The GCSS-Army approved Capability Description Document (CDD) and Capability Production Document (CPD) require an enterprise approach to replace current logistics and maintenance Standard Army Management Information Systems (STAMIS) to include supply, maintenance, ammunition, aviation, and property book. GCSS-Army implements best business practices to streamline supply, accountability, maintenance, distribution, and reporting procedures in support of the future force transition path of The Army Campaign Plan.

GCSS-A must take critical steps towards integration and implementation of the next generation of Enterprise Business Systems capabilities. This effort will address the obsolescence of existing SAP Enterprise Resource Planning (ERP) logistics and financial management platforms that the vendor plans to sunset by FY 28. GCSS-A's modernization work sets the conditions for development of a converged, post-modern Defense Business System that streamlines and integrates the Army's core business functions.

GCSS-A must identify redundant processes as candidates for business process re-engineering. Funding will support the 1) market research of Industry best practices, 2) Initiation of an Army Enterprise Development Environment to enable prototyping which reduces risk by aiding the requirements development. This environment includes: Cloud-hosted infrastructure, applications, and programs and tools, 3) government Program Management and Systems Engineering and Technical Assistance (SETA) contractors needed to plan for and manage the initiation of the post-modern system implementation effort.

GCSS-Army Increment 2 consists of three waves: Wave 1- Enterprise Aviation (EAVN); Wave 2- Business Intelligence/Business Warehouse (BI/BW); Wave 3- Army Prepositioned Stocks (APS). Increment 2 builds on the current foundation by providing auditable EAVN maintenance, enhanced BI/BW, and APS functional capabilities which will directly impact the speed at which a deploying unit can draw combat equipment. Waves 1 and 2 will deliver greater efficiencies to Aviation Logistics

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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>
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warfighters and improved information flow and accuracy in real time to decision makers, helping them make better decisions faster on the battlefield. Wave 3 will sunset the Army War Reserve Deployment System (AWRDS) legacy system.

The funds in the GCSS-Army Increment 1 Research Development Test & Evaluation (RDT&E) line are for building the software solution for disconnected supply, maintenance and accountability. The funds in FY 2020 are for critical change requests, coming from the warfighter and prioritized by the Combat Developer. In FY 2021, the Army will begin design, development and build of disconnected operations capability to support ground operations and will complete this effort in FY 2022.

In FY 2020, the Army Acquisition Executive (AAE) approved a change in technical approach for GCSS-Army Increment 2 due to unforeseen technical complexities identified by the vendor which would have significantly increased cost and schedule. The new technical approach will deliver capability in five capability drops for Waves 1 and 2 to be developed and deployed incrementally from FY 2020 thru FY 2023. FY 2022 funding will continue the GCSS-Army Enterprise Aviation development and deployment of the final three capability drops for Wave 1 and the third and fourth capability drops for Wave 2.

During this timeframe GCSS-Army Enterprise Aviation will integrate the Aircraft Notebook (ACN) data into GCSS-Army via an interface with the Enterprise Aviation Middleware components.

This integration of ACN with GCSS-Army will provide Warfighter level data to be populated into the Enterprise system that will provide Senior Leaders with a flight line view of Aviation assets as well as supports the data for Aviation reports through the Business Intelligence / Business Warehouse (BI/BW) application. The funding also supports trade studies, analysis and market research for SAP based ERP integration, consolidation and efficiencies.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	60.076	86.908	32.518	-	32.518
Current President's Budget	57.604	70.652	52.739	-	52.739
Total Adjustments	-2.472	-16.256	20.221	-	20.221
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-13.083			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.472	-3.173			
• Adjustments to Budget Years	-	-	20.221	-	20.221

Change Summary Explanation

FY22 will conclude design, development, and incremental testing for the three final capability drops of the GCSS-A INC 2 Wave 1 Enterprise Aviation capability in the GCSS-Army baseline software, along with associated Wave 2 BI/BW reporting capabilities.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army										Date: May 2021		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>				Project (Number/Name) 083 / <i>Global Combat Support Sys - Army</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
083: <i>Global Combat Support Sys - Army</i>	-	12.507	20.883	20.375	-	20.375	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

GCSS-Army Increment 1 provides critical Army sustainment support to the soldier with a seamless flow of timely, accurate, accessible, and secure information management that gives combat forces a decisive edge and is essential for combat readiness. The GCSS-Army approved Capability Description Document (CDD) and Capability Production Document (CPD) require an enterprise approach to replace current logistics and maintenance Standard Army Management Information Systems (STAMIS) to include supply, maintenance, ammunition and property book. GCSS-Army implements best business practices to streamline supply, accountability, maintenance, distribution, and reporting procedures in support of the future force transition path of The Army Campaign Plan. GCSS-Army is financially compliant and is a key component for the Army Enterprise Strategy to be financially auditable.

The funds in the GCSS-Army Increment 1 Research Development Test & Evaluation (RDT&E) line are for building the software solution for disconnected supply, maintenance and accountability. Aviation applications could leverage the ground disconnected operations solution for common functions without additional development. The Army requires a disconnected operations architecture for GCSS-Army to support ground mission. The FY22 funding will continue building the software solution for disconnected supply, maintenance and accountability. Currently the Army has battlefield gaps without network connectivity: inability to maintain or regenerate combat power, order/process spare parts, track battle losses, or conduct maintenance. The disconnected operations architecture will alleviate these problems when there are disruptions in communications or cyber-attacks. In FY2022 the Army will complete design, development and build of disconnected operations capability to support ground operations. The FY 2022 funding also supports critical change requests in each fiscal year, coming from the warfighter and prioritized by the Combat Developer, for the baseline system.

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

Title: Product Development	FY 2020	FY 2021	FY 2022
Description: The funds in the GCSS-Army Increment 1 RDT&E line are for building the software solution for disconnected supply, maintenance and accountability. The Army requires a disconnected operations architecture for GCSS-Army to support ground mission. The FY 2022 funding completes the development of the software solution for disconnected supply, maintenance and accountability. Aviation applications could leverage the ground disconnected operations solution for common functions without additional development.	12.507	20.883	20.375
FY 2021 Plans: Currently the Army has battlefield gaps without network connectivity: inability to maintain or regenerate combat power, order/process spare parts, track battle losses, or conduct maintenance. The FY 2021 funding builds edge software for disconnected			

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>	Project (Number/Name) 083 / <i>Global Combat Support Sys - Army</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>supply, maintenance and accountability, leveraging the Increment 2 architecture and revised technical approach approved in FY 2019. The disconnected operations architecture, using FY 2021 RDTE funding, will alleviate these problems when there are disruptions in communications or cyber-attacks.</p> <p>FY 2022 Plans: The FY 2022 funding will complete development of software for disconnected supply, maintenance and accountability. The disconnected operations architecture, using FY 2022 RDTE funding, will alleviate these problems when there are disruptions in communications or cyber-attacks.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY22 funding amount available is lower than FY21 due to completion of design and development in FY 2022.</p>				
Accomplishments/Planned Programs Subtotals		12.507	20.883	20.375
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
<p>GCSS-Army will design and develop the software solution for disconnected ground operations . The program will design and build user screens for disconnected supply, maintenance and accountability. The Army will use a disconnected operations architecture for GCSS-Army to support the ground missions. Aviation applications could leverage the ground disconnected operations solution for common functions without additional development. In FY21, the program office will award a development/production base year (FY21) and option year (FY22) contract for the disconnected operations solution</p>				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 7				PE 0303141A / Global Combat Support System				083 / Global Combat Support Sys - Army							
Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
1. PM GCSS-Army- PMO Operations	Various	PM GCSS-Army : Fort Lee, VA 23805	103.931	-		-		-		-		-	0.000	103.931	62.385
Subtotal			103.931	-		-		-		-		-	0.000	103.931	N/A
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Enterprise Resource Planning (ERP) design and development	C/FPAF	Northrop Grumman Information Systems : Chester, VA 23836	467.058	-		-		-		-		-	0.000	467.058	457.056
Government Developer Subject Matter Experts	IA	ASA (FM&C), CASCOM and GFEBs : Various Locations	22.315	-		-		-		-		-	0.000	22.315	19.730
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	0.042	-		-		-		-		-	0.000	0.042	-
Disconnected Ground Operations	SS/TBD	TBD : Arlington VA	-	-		20.883		20.375		-		20.375	19.218	60.476	-
Continuous Enhancements	Option/TBD	TBD : TBD	-	12.507	Sep 2020	-		-		-		-	6.182	18.689	-
Subtotal			489.415	12.507		20.883		20.375		-		20.375	25.400	568.580	N/A
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
1. PM Support - Independent Verification and Validation (IV&V)	C/T&M	CAP Gemini : 2250 Corporate Park Dr, Herndon, VA 20171	1.031	-		-		-		-		-	0.000	1.031	1.031

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 7				PE 0303141A / Global Combat Support System				083 / Global Combat Support Sys - Army							
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
2. PM Support - Program Management Support Services A	C/T&M	Engility Corporation : 3750 Centerview Drive Chantilly, VA 20151	1.386	-		-		-		-		-	0.000	1.386	-
3. PM Support - Program Management Support Services B	C/T&M	Logistics Management Institute : Colonial Heights, VA 23834	42.101	-		-		-		-		-	0.000	42.101	42.101
Subtotal			44.518	-		-		-		-		-	0.000	44.518	N/A
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
1. Test and Evaluation - Test and Evaluation	C/IDIQ	Northrop Grumman : McLean VA	39.950	-		-		-		-		-	0.000	39.950	-
Subtotal			39.950	-		-		-		-		-	0.000	39.950	N/A
Project Cost Totals			677.814	12.507		20.883		20.375		-		20.375	25.400	756.979	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>	Project (Number/Name) 083 / <i>Global Combat Support Sys - Army</i>

Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Continuous Enhancements (Design and Development)	[Redacted]																											
Disconnected Ground Operations (Development Test and Deployment)	[Redacted]				[Redacted]																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>	Project (Number/Name) 083 / <i>Global Combat Support Sys - Army</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Seg 2 Contract Award	1	2008	1	2008
Increment 1 - Acquisition Review	2	2008	2	2008
Increment 1/Segment 1 Operational Assessment	1	2008	3	2010
Increment 1 - Milestone B	4	2008	4	2008
Increment 1/Release 1.1 DTOE	3	2010	4	2010
GCSS-Army Release 1.1 Design, Build, Test & Stabilize	1	2011	3	2011
Increment 1 - Milestone C	4	2011	4	2011
Release 1.1 Intial Operational Test and Evaluation (IOT&E)	1	2012	1	2012
Release 1.1 Stabilization	2	2011	1	2013
Lead Site Verification	1	2013	1	2013
Release 1.1 Full Deployment Decision	1	2013	1	2013
Field Wave 1	1	2013	1	2016
GCSS-Army Release 1.2 (Wave 2) Plan, Analyze, Design, Build & Test	3	2011	4	2015
Release 1.2 (Wave 2) Lead Site Verification Test	3	2015	3	2015
Release 1.2 (Wave 2) In Progress Review	4	2015	4	2015
Field Release 1.2 (Wave 2)	1	2015	1	2018
Continuous Enhancements (Design and Development)	1	2018	4	2022
Disconnected Ground Operations (Development Test and Deployment)	1	2021	4	2022

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

Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>				Project (Number/Name) EK2 / <i>GCSS-A Increment 2</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
EK2: <i>GCSS-A Increment 2</i>	-	45.097	49.769	32.364	-	32.364	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

GCSS-Army Increment 1 gives combat forces a decisive edge by providing soldiers a seamless flow of timely, accurate, accessible, and secure logistics information to get combat power at the right place, at the right time. The GCSS-Army program is an information and communications technology investment that provides key enabling support to the transformation of the Army into a network-centric, knowledge-based future force. GCSS-Army implements best business practices to streamline supply, accountability, maintenance, distribution, and reporting procedures in support of the future force transition path of The Army Campaign Plan.

GCSS-Army Increment 2 builds on the current foundation by providing auditable Army Enterprise Aviation maintenance, enhanced Business Intelligence/Business Warehouse (BI/BW) and Army Pre-Positioned Stocks (APS) functional capabilities and will sunset the legacy system Army War Reserve Deployment System (AWRDS). Increment 2 will deliver greater efficiencies to Aviation Logistics warfighters and improve information flow and accuracy in real time to decision makers, helping them make better decisions faster on the battlefield. This Project is undertaking to develop the underlying common architecture for the next generation Enterprise Business System converged capabilities. This will include efforts to implement updated Business Processes through Business Process Reengineering in a modernized technical capability.

In FY 2020, the Army Acquisition Executive (AAE) approved the program's technical approach that provides the software solution for Enterprise Aviation via five incremental capability drops. The change resulted from technical risk identified by the vendor which would have significantly increased cost and schedule to the program. The new approach will integrate the Aircraft Notebook (ACN) with GCSS-Army for Aviation maintenance data, usage data, readiness data, Aviation supply processes, airworthiness data for Aviation assets, fully integrate the Aviation Critical Safety Item (Aviation Tracked Components for airworthiness) Process, and provide an end to end solution for the Aviation Directed Maintenance Action process.

Implementation of the BI/BW capabilities provide enhancements in materiel and supply chain readiness analytics that are critical to improve commanders' understanding of weapons systems readiness, helping them make better decisions faster on the battlefield.

The APS capabilities directly impacts the speed at which a deploying unit can draw combat equipment while reducing the burden of the day-to-day maintenance and accountability of Army Prepositioned Stocks.

The FY 2022 funding will continue design, development, and incremental testing for Enterprise Aviation capability in the GCSS-Army baseline software; FY 2022 RDTE funds will also allow the Army to develop critical maintenance, supply and financial reports that will be used for Enterprise Aviation and key functional areas in order to improve readiness reporting. FY 2022 will provide the development and deployment of the final three Capability Drops that will integrate the Aircraft Notebook with GCSS-Army for Aviation supply processes, airworthiness data for Aviation assets, fully integrate the Aviation Critical Safety Item (Aviation Tracked Components for airworthiness) Process, and provide an end to end solution for the Aviation Directed Maintenance Action process.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>	Project (Number/Name) EK2 / <i>GCSS-A Increment 2</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
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<p>Title: System Design, Develop and Build</p> <p>Description: The purpose of this phase is to begin the system development for an incremental capability that is affordable and executable to satisfy the Key Performance Parameters and Key System Attributes.</p> <p>FY 2021 Plans: Starting in FY2020, continuing through FY2021 and into FY2022, the program will perform design, development, and incremental testing for Enterprise Aviation (EAVN) software , which includes five capability drops: 1) Capability Drop 2.1 - Aircraft Logbook Data (Technical and Operational Readiness Status); 2) Capability Drop 2.2 - Personnel Flight Data, Aircraft Weapon Data and Aviation Daily Readiness data; 3) Capability Drop 2.3 - Integrated Aviation Technical Supply process; 4) Capability Drop 2.4 - Aviation Critical Safety Items (DA Form 2410 Tracked Components) Process (sunset interface from Aircraft Notebook to MCDS); and 5) Capability Drop 2.5 - End to End Directed Maintenance Action (DMA), Maintenance Work Order (MWO), Aviation Safety Message Tracking, and Aircraft Historical Records (airworthiness data). These capability drops will provide the required changes in the GCSS-Army baseline, the Aircraft Notebook (ACN), and the AESIP Enterprise Hub to accommodate the incorporation of the Aviation data and processes into the Enterprise. FY2021 RDTE funds will be used to complete software code development and developmental/Government testing on Capability Drops 2.1 and 2.2. As the development team completes 2.1 and 2.2, they will transition into the design and development of EAVN Capability Drops 2.3, 2.4, and 2.5. This design and development will continue throughout FY2021 and into FY2022.</p> <p>Implementation of GCSS-Army Wave 2 BI/BW reporting capabilities will provide enhancements to materiel and supply chain readiness with an additional capability to perform self-service analytics. The analyses will provide critical information to commanders' on weapons systems readiness enabling them to make quick decisions on the battlefield. BI/BW reporting will provide visibility and associated costs of materials and equipment, at the tactical and national levels, for Supply, Maintenance, Property Book functions, helping to improve lifecycle management and auditability.</p> <p>As directed, following an FY 2020 gap analysis, APS development will include integration of worldwide APS business processes to include conduct of operational assessment of APS in order to operationalize logistics management of APS overseas to improve readiness posture.</p> <p>FY 2022 Plans:</p>	44.378	47.809	26.000
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p>Building on the momentum initiated in FY2020 and continued through FY2021, the EAVN team will complete software design, development, and developmental testing on Capability Drops 2.3, 2.4, and 2.5 in FY2022. In addition to the planned developmental testing on these capabilities, Operational Testing is required for Capability Drops 2.3 and 2.5.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY22 will conclude design, development, and incremental testing for the three final capability drops of the GCSS-A INC 2 Wave 1 Enterprise Aviation capability in the GCSS-Armey baseline software, along with associated Wave 2 BI/BW reporting capabilities.</p> <p>Title: Government System Test and Evaluation</p> <p>Description: Government System Test and Evaluation</p> <p>FY 2021 Plans: FY 2021 funding will provide for government personnel to conduct continuous evaluation assessment of developmental testing.</p> <p>FY 2022 Plans: FY2022 funding will provide for testing of Capability Drops 2.3, 2.4, and 2.5, including IOT&E as development of the capability drops concludes.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Capability Drop (Release 2) government testing will commence in FY 2021 and complete in FY 2022. The evaluation of operational suitability will include a demonstrated capability to maintain the software. IOT&E will include an end-to-end demonstration of regression test, automated, in the maintenance test environment. The demonstration will show how changes in requirements or discovered defects are mapped to lines of software that must be modified, and how modifications in software are mapped to the regression test scripts that will verify correct functioning of the modified software.</p>			
Accomplishments/Planned Programs Subtotals	0.719	1.960	6.364
	45.097	49.769	32.364

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• W11011: <i>GCSS-Armey Increment 2</i>	6.841	0.794	8.715	-	8.715	-	-	-	-	-	-
• OMA - 423612000-OMA: <i>GCSS-Armey Increment2</i>	-	16.791	-	-	-	-	-	-	-	-	-
Remarks											

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>	Project (Number/Name) EK2 / <i>GCSS-A Increment 2</i>

D. Acquisition Strategy

GCSS-Army Increment 2 continues the evolutionary acquisition strategy of Increment 1 and will define, develop, and deploy additional and enhanced capabilities to GCSS-Army based upon proven technology, time-phased requirements, projected threat assessments, and demonstrated manufacturing capabilities.

GCSS-Army Increment 2 is being implemented in three waves:

Wave 1 provides the Army Enterprise Aviation logistics capability. Government System Integrator is the Combat Capability Development Command (CCDC) Aviation and Missile Center, System Simulation and Software Integration (S3I) Directorate. The program office will employ System Simulation and Software Integration Directorate (S3I) to design and develop the minimum viable Aviation solution through a series of five Capability Drops which will bring Aviation data and functionality into GCSS-Army and be independently designed, developed, and deployed.

Wave 2 provides the enhanced BI/BW capability. Base contract was awarded as a small business set aside IDIQ contract, June 2019. Option year awarded June 2020.

Wave 3 provides the APS capability. Will leverage Army Shared Service Center (ASSC) contract.

GCSS-Army will also leverage the partnership with the U.S. Army Communications-Electronics Command, and supplement the design and development team with architecture and engineering support from the existing support contract.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army												Date: May 2021				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
2040 / 7				PE 0303141A / Global Combat Support System				EK2 / GCSS-A Increment 2								
Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
PMO Operations	Allot	PMO : Huntsville AL	1.860	-		-		-		-		-	0.000	1.860	-	
Subtotal			1.860	-		-		-		-		-	0.000	1.860	N/A	
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
EAVN Blueprinting	RO	AMRDEC : Huntsville AL	90.815	-		-		-		-		-	0.000	90.815	90.815	
EAVN System Design, Develop and Build	C/T&M	CCDC Aviation and Missile Cmd : Huntsville AL	34.139	24.691	Feb 2020	30.591	Oct 2020	22.145	Oct 2020	-		22.145	20.062	131.628	115.397	
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	2.398	2.269		2.533		0.595		-		0.595	1.407	9.202	-	
EAVN ADO Development	C/FFP	DOD ESI : Arlington VA	-	6.112		-		-		-		-	2.366	8.478	25.337	
EAVN SME Services	C/T&M	DOD ESI : Richmond VA	-	1.555		1.667		-		-		-	1.701	4.923	5.168	
EAVN SETA Supt	C/T&M	LMI : Arlington VA	5.963	7.035	Dec 2019	7.197	Dec 2020	2.150	Dec 2020	-		2.150	6.924	29.269	27.364	
BI/BW Development	C/FFP	4M : Huntsville AL	2.140	0.918		2.491		0.447		-		0.447	4.971	10.967	10.677	
BI/BW Program/SETA Support	C/T&M	LMI : Arlington VA	1.259	0.627		0.889		0.258		-		0.258	1.335	4.368	4.355	
Program Support	TBD	Various : Various	0.748	0.486		1.219		0.405		-		0.405	1.335	4.193	4.033	
EAVN Government Matrix Supt	RO	CCDC Aviation and Missile Cmd : Huntsville A	1.355	0.930		1.222		-		-		-	0.000	3.507	-	
Subtotal			138.817	44.623		47.809		26.000		-		26.000	40.101	297.350	N/A	

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>	Project (Number/Name) EK2 / <i>GCSS-A Increment 2</i>

Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Full Deployment ATP													▲ 1															
Capability Support ATP																	▲ 2											
Rel 1 Testing																												
Rel 1 Deployment																												
Release 2 EAVN Blueprinting/R2 SW Development																												
Rel 2 Testing																												
Rel 2 Deployment																												
Business Intelligence/Business Warehouse Blueprinting/Development																												
APS Blueprinting/Development/Testing/Deployment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303141A / <i>Global Combat Support System</i>	Project (Number/Name) EK2 / <i>GCSS-A Increment 2</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MDA Meeting	2	2016	2	2016
Full Deployment ATP	4	2022	4	2022
Capability Support ATP	4	2023	4	2023
Rel 1 EAVN Blueprinting/ SW Development	1	2018	4	2019
Rel 1 Testing	1	2018	2	2020
Rel 1 Deployment	4	2019	2	2021
Release 2 EAVN Blueprinting/R2 SW Development	3	2019	3	2022
Rel 2 Testing	1	2021	4	2022
Rel 2 Deployment	1	2021	4	2023
Business Intelligence/Business Warehouse Blueprinting/Development	1	2019	4	2022
APS Blueprinting/Development/Testing//Deployment	1	2021	1	2022

Note

The schedule for GCSS-Army Increment 2 is based upon the Army Acquisition Executive (AAE) decision to utilize the Government System Integrator. Schedule reflects two releases for Enterprise Aviation (Wave 1), one release for Business Intelligence/Business Warehouse (Wave 2), and one release for Army Prepositioned Stock (Wave 3).