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**Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / Distributive Interactive Simulations (DIS) - Eng Dev
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	7.890	8.802	8.914	-	8.914	7.766	7.850	7.935	8.015	0.000	57.172
C74: Devel Simulation Tech	-	0.985	1.031	1.043	-	1.043	1.044	1.056	1.067	1.078	0.000	7.304
C77: Army Geospatial Data Master Plan	-	0.547	1.137	1.157	-	1.157	-	-	-	-	0.000	2.841
C78: One Semi-Automated Forces	-	6.358	6.634	6.714	-	6.714	6.722	6.794	6.868	6.937	0.000	47.027

**A. Mission Description and Budget Item Justification**

The program element applies to the Army's Advanced Simulation Program, which enables operational readiness and the development of concepts and systems for the Future Force through the application of new simulation technology and techniques. The development and application of simulation technology will provide the means to link electronically a range of various simulation tools in a manner that is transparent to the user. The amalgam of simulations and tools is linked together to enable execution of an event; to verify the scenarios, tactics/techniques and procedures; to train testers on new hardware/software; and to conduct trial test runs before costly live field tests. The tools developed are available for reuse by developers and users of simulations throughout the Army.

Project C74, Devel Simulation tech, funds the Headquarters Department of the Army-chartered mission of the Simulation-to-Mission Command Interoperability (SIMCI) Overarching Integrated Product Team (OIPT) in support of Army Training and Readiness. The SIMCI OIPT mission is to provide policy recommendations to Army senior leadership to improve organizations by allowing Soldiers to fight in the same manner in which they train. This is accomplished by interoperability between Mission Command (MC) systems and the Modeling and Simulation (M&S) systems that the Army uses to stimulate MC systems for training Soldiers and their Leaders. SIMCI also invests in targeted solutions to critical problem areas that exist between MC and Simulations. The SIMCI OIPT uses focused collaborative processes among its 30+ Army organizations to identify key/critical interoperability shortfalls and the required materiel solutions.

Project C77, Army Geospatial Data Master Plan, focuses on activities that start with data acquisition from multiple sources and culminate in (1) accurate, robust and timely geospatial data and data management and (2) integration and conversion tools that support multiple battle command, training and mission-rehearsal applications. Project C77 continues development efforts associated with the Ground-Warfighter Geospatial Data Model (GGDM) and Geospatial Data Standards.

Project C78, One Semi-Automated Forces (OneSAF), develops and delivers a software application that represents activities of units and forces in simulation to support Army Training and Readiness. The application is used by Army agencies to support the concept evaluation, experimentation, materiel acquisition and training throughout the communities. The focus of this project is systems/software engineering and design for development and evolution of the architecture and software tools for a universal system of Army computer-generated forces -- OneSAF. OneSAF is a high fidelity brigade-and-below SAF that represents a full range of operations, systems and control processes in support of stand-alone and embedded training and Research, Development and Acquisition (RDA) simulation applications. OneSAF is fully interoperable with the Army's emerging virtual, live, and division-and-above constructive simulations and provides next-generation simulation products. OneSAF replaces a variety of legacy simulations used within the Army to support analytic and training simulation activities.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Army	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	8.189	8.802	8.621	-	8.621
Current President's Budget	7.890	8.802	8.914	-	8.914
Total Adjustments	-0.299	0.000	0.293	-	0.293
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.001	-			
• SBIR/STTR Transfer	-0.300	-			
• Adjustments to Budget Years	-	-	0.293	-	0.293

**Change Summary Explanation**

Increase in program funding due realignment of Army improved priorities for Army Geospatial Data Master Plan and reflects economic assumptions.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Army **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C74 / <i>Devel Simulation Tech</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
	<i>C74: Devel Simulation Tech</i>	-	0.985	1.031	1.043	-	1.043	1.044	1.056	1.067	1.078	0.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

Project C74 funds the HQDA-chartered mission of the Simulation-to-Mission Command Interoperability (SIMCI) Overarching Integrated Product Team (OIPT) in support of Army Training and Readiness. The SIMCI OIPT mission is to provide policy recommendations to Army senior leadership to improve organizations by allowing Soldiers to fight in the same manner in which they train. This is accomplished by interoperability between Mission Command (MC) systems and the Modeling and Simulation (M&S) systems the Army uses to stimulate MC systems for training Soldiers and their Leaders. SIMCI also invests in targeted solutions to critical problem areas that exist between MC and Simulations.

The SIMCI OIPT provides the following: (1) Advisor to Army Leadership--improve MC and M&S interoperability programs, policies, directives, resourcing, and procedures; (2) Technical Investment--sponsor/support initiatives that seek common solutions to critical interoperability issues surrounding MC and M&S systems; (3) Outreach--conduct & participate in interoperability outreach activities. SIMCI investments consist primarily of cost-sharing initiatives, leveraging initial system solutions of acquisition programs to enhance the interoperability of multiple systems in the Joint Operational Environment. SIMCI investments accelerate implementation within MC and M&S systems, of common data models and information exchanges that are used by other Services and coalition nations.

FY 2025 base funding in the amount of \$1.043 million continues progress with embedding simulation into Mission Command Systems, continues management of the SIMCI OIPT's Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. It is focused first on reducing costs and improving capabilities in the areas of automating Operational Plans, Orders, and Reports in support of Army, Joint, and Coalition operations. Objectives are: identify and articulate to HQDA senior leadership specific standards that require Army-wide implementation; co-develop data standards, architecture standards, implementation specifications and Joint/Coalition products; continue transition of SIMCI knowledge and proof-of-principle products to Army and Joint acquisition programs.

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

	FY 2023	FY 2024	FY 2025
<b>Title:</b> Program Management for the SIMCI Overarching Integrated Product Team (OIPT) Projects.	0.985	1.031	1.043
<b>Description:</b> Program Management of the SIMCI OIPT's Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. The OIPT consists of a Product Director, engineers, and finance personnel.			
<b>FY 2024 Plans:</b> Will continue management and support of the SIMCI OIPT'S Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. Will continue focus			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C74 / <i>Devel Simulation Tech</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>on gap-analysis of the current model and simulation programs and capabilities in the areas of Live, Virtual, and Constructive (LVC) simulations. This will support the Vice Chief of Staff of the Army's request to find redundancy within the Modeling and Simulation (M&amp;S) community and reduce it. Objectives are to compare the current M&amp;S capabilities with what will be required in the upcoming LVC-Information Assurance (LVC-IA) and Synthetic Environment (SE) environments.</p> <p><b>FY 2025 Plans:</b> Will continue management and support of the SIMCI OIPT'S Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. Will continue focus on gap-analysis of the current model and simulation programs and capabilities in the areas of Live, Virtual, and Constructive (LVC) simulations. This will support the Vice Chief of Staff of the Army's request to find redundancy within the Modeling and Simulation (M&amp;S) community and reduce it. Objectives are to compare the current M&amp;S capabilities with what will be required in the upcoming LVC-Integrating Architecture (LVC-IA) and Synthetic Environment (SE) environments.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Minor increase in funding from FY2024 to FY2025 is due to economic assumptions.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	0.985	1.031	1.043

<p><b>C. Other Program Funding Summary (\$ in Millions)</b> N/A</p> <p><b>Remarks</b> SIMCI uses other contract vehicles (internal/external) and awards money to work on specific technical projects. This provides the opportunity to leverage technical expertise from different agencies. SIMCI chooses projects that enhance current capabilities, closes the gaps of existing capabilities, and makes the determination for future projects that affect both the Mission Command and Live, Virtual, Constructive simulations environment. SIMCI only chooses those projects that meet specific requirements and criteria as stated above. It is one of SIMCI's missions to locate, utilize, or upgrade those projects or specific products that do just that.</p> <p><b>D. Acquisition Strategy</b> SIMCI Overarching Integrated Product Team (OIPT) resources are allocated to multiple organizations in both the Mission Command (MC) and Modeling and Simulation (M&amp;S) communities. The funds are contracted to execute approved functions and to projects that advance the efforts of SIMCI and components-based architecture alignment. Products developed transition to the lead or sponsor's program which then maintains the product for the cost savings of itself and other programs in both communities. The primary focus for these projects are the following: Embedded simulations with current Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) systems, gap-analysis for current simulations, and the proper implementation of Next-Generation modeling and simulation capabilities in regards to the Synthetic Training Environment (STE).</p>
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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2025 Army</b>												<b>Date: March 2024</b>			
<b>Appropriation/Budget Activity</b> 2040 / 5				<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>				<b>Project (Number/Name)</b> C74 / <i>Devel Simulation Tech</i>							
<b>Management Services (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Management	Various	PEO STRI : Orlando, FL	10.843	0.140	Jan 2023	0.140	Jan 2024	0.140	Jan 2025	-		0.140	Continuing	Continuing	Continuing
<b>Subtotal</b>			10.843	0.140		0.140		0.140		-		0.140	Continuing	Continuing	N/A
<b>Support (\$ in Millions)</b>				<b>FY 2023</b>		<b>FY 2024</b>		<b>FY 2025 Base</b>		<b>FY 2025 OCO</b>		<b>FY 2025 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
SIMCI Program/OIPT Support	Various	Various : Various	9.280	0.820	Jan 2023	0.866	Jan 2024	0.878	Jan 2025	-		0.878	Continuing	Continuing	Continuing
Army Initialization Program and Technical Work Groups (TWG)	Various	Various : Various	0.791	0.025	Jan 2023	0.025	Jan 2024	0.025	Jan 2025	-		0.025	Continuing	Continuing	Continuing
<b>Subtotal</b>			10.071	0.845		0.891		0.903		-		0.903	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			20.914	0.985		1.031		1.043		-		1.043	Continuing	Continuing	N/A
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b>		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C74 / <i>Devel Simulation Tech</i>

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Implementation of Initialization Products	[Redacted]																											
Transition of simulation initialization capability	[Redacted]																											
Data Model applications and reference implementations	[Redacted]																											
C2 Adapter Web Services and Tools	[Redacted]																											
Quarterly SIMCI OIPT Meeting	[Redacted]																											
Annual Project Call	[Redacted]																											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details: PB 2025 Army</b>		<b>Date: March 2024</b>
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C74 / <i>Devel Simulation Tech</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Implementation of Initialization Products	1	2010	4	2029
Transition of simulation initialization capability	1	2010	4	2029
Data Model applications and reference implementations	1	2010	4	2029
C2 Adapter Web Services and Tools	1	2010	4	2029
Quarterly SIMCI OIPT Meeting	1	2010	4	2029
Annual Project Call	1	2010	4	2029

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>				<b>Project (Number/Name)</b> C77 / <i>Army Geospatial Data Master Plan</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
<i>C77: Army Geospatial Data Master Plan</i>	-	0.547	1.137	1.157	-	1.157	-	-	-	-	0.000	2.841
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Army Geospatial Enterprise (AGE) provides the geospatial foundation, consisting of accurate, robust, and timely 2D and 3D geospatial data, robust tools and services, in support of mission command, intelligence, training, mission-rehearsal and other mission-applications. It addresses the implementation and acceleration of Army modernization objectives focused on enhancing situational awareness to the warfighter.

This effort provides a geospatial standards-based framework that enables the management, dissemination, and update of 2D and 3D geospatial data and services within the Army Geospatial Enterprise (AGE) across Mission Command, all Cross-Functional Team (CFT), and with our National and UAP partners ensuring a common operational picture enhancing soldier situational awareness and increasing mission success. Provides support to synthetic training environment, network and soldier lethality cross functional teams. Establishes a geospatial enterprise architecture framed around geospatial standards that enable address geospatial data, services, and application interoperability from National to tactical as required by as Department of Defense Instruction (DoDI) 5000.56, AR 525-95 - Army Geospatial-Intelligence and Geospatial Information and Services, Geospatial Annex to COE IP, Net-Enabled Mission Command ICD, OMB-Circular A-119 and A-130, the FY17 NDAA (National Defense Authorization Act), section 875, 10 U.S. Code 2223, Public Law 108-237, Standards Development Organization Advancement Action of 2004 and Public Law 108-113, National Technology Transfer and Advancement Act of 1995 and Public Law 82-436.

Key lines of effort include Ground-Warfighter Geospatial Data Model (GGDM), development and maintenance of geospatial Standards, and integration with the Army Modelling and Simulation Enterprise. FY 2025 funding in the amount of \$1.157 million continues development efforts associated with the Ground-Warfighter Geospatial Data Model (GGDM) and integration with the Army Modelling and Simulation Enterprise.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Ground-Warfighter Geospatial Data Model (GGDM)	0.110	0.330	0.330
<b>Description:</b> The GGDM incorporates common data elements that conform to standards mandated by the Department of Defense Information Technology Standards Registry (DISR) for the National System for Geospatial Intelligence (NSG). Incorporating common geospatial data standards into the GGDM makes the Programs of Record (POR) consistent with new DISR-mandated geospatial intelligence standards for the NSG and ensures interoperability from National to Tactical. The implementation of GGDM across the Army increases system-interoperability at the geospatial data level. This effort includes the update and maintenance of the GGDM to enable interoperability in support of Army Modernization.			
<b>FY 2024 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army		<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C77 / <i>Army Geospatial Data Master Plan</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>Continue development of GGDMNext based upon GGDM assessment, emerging modernization requirements and changing technology (3D, AR and VR) and maintain capability to support current fielded systems. Includes additional revisions due to changes in the National System for Geospatial-Intelligence (NSG) Application Schema (NAS) as well as the National Geospatial-Intelligence Agency, USMC, and ABCANZ Allies. Update GGDM training classes to reflect changes to model and potential 3D capabilities. Ensure major Army PORs are implementing the GGDM (i.e., ISA and SECORE).</p> <p><b>FY 2025 Plans:</b> Build on FY24 efforts and continue development of GGDMNext based upon GGDM assessment, emerging modernization requirements and changing technology (3D, AR and VR) and maintain capability to support current fielded systems. Includes additional revisions due to changes in the National System for Geospatial-Intelligence (NSG) Application Schema (NAS), alignment with Defence Geospatial Information Framework (DGIF) for interoperability with Coalition partners as well as the National Geospatial-Intelligence Agency, USMC, and ABCANZ Allies. Develop GGDM profiles to support optimized visualization (i.e. vector tiles) and analysis. Update GGDM training classes to reflect changes to model and potential 3D capabilities. Support major Army PORs and CFTs in implementing the GGDM.</p>				
<p><b>Title:</b> Geospatial Data Standards</p> <p><b>Description:</b> Army Geospatial Standards including data standards and standards for services to manage, process and disseminate and utilize geospatial data. Alignment of industry and Open geospatial standards from organizations such as the Open Geospatial Consortium (OGC) and others into the Army Geospatial Enterprise (AGE). This effort includes addressing high priority Army gaps in international consensus standards enabling interoperability across the National System for Geospatial Intelligence and our international partners and develops standards roadmap.</p> <p><b>FY 2024 Plans:</b> Continue industry and other Government agencies collaboration to develop new geospatial data and services standards, DOD Profiles of these standards, and technology implementations of these standards. Focus will be on emerging modernization requirements and addressing high priority Army gaps enabling Army interoperability including maintaining standards support for existing fielded 2D systems and emerging 3D/AR/VR capabilities. Will continue to provide SME support on geospatial data and technology standards to Army PORs. Continue to utilize to perform integration of multiple geospatial standards (both 2D and 3D) in support of One World Terrain (OWT) and Integrated Visualization Augmentation System (IVAS) to support applications such as mission planning, mission rehearsal, and Army operations. The integration of 2D and 3D maps in Army systems will enable the soldier with cutting-edge geospatial capabilities and over match moving forward.</p> <p><b>FY 2025 Plans:</b> Continue industry and other Government agencies collaboration to develop new geospatial data and services standards, DOD Profiles of these standards, and technology implementations of these standards and improve interoperability with Coalition</p>		0.437	0.807	0.827

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C77 / <i>Army Geospatial Data Master Plan</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>partners. Focus will be on emerging modernization requirements and addressing high priority Army gaps enabling Army interoperability including maintaining standards support for existing fielded 2D systems and emerging 3D/AR/VR capabilities. Will continue to provide SME support on geospatial data and technology standards to Army PORs. Continue to utilize to perform integration of multiple geospatial standards (both 2D and 3D) in support of One World Terrain (OWT) and Integrated Visualization Augmentation System (IVAS) to support applications such as mission planning, mission rehearsal, and Army operations. The integration of 2D and 3D maps in Army systems will enable the soldier with cutting-edge geospatial capabilities and over match moving forward in support of HQDA EXORD 154-20 (Army 3D Geospatial Data Integration) and FRAGO1.</p> <p><b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> Minor increase in funding from FY2024 to FY2025 is due to economic assumptions.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	0.547	1.137	1.157

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

N/A

**Remarks**

**D. Acquisition Strategy**

Resources are allocated to several critical geospatial projects in support of the Army Geospatial Data Integrated Master Plan (AGDIMP) and the Army Geospatial Enterprise (AGE).



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b>			<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C77 / <i>Army Geospatial Data Master Plan</i>	

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Ground Warfighter Geospatial Data Model																												
Geospatial Data Standards																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Army		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C77 / <i>Army Geospatial Data Master Plan</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Ground Warfighter Geospatial Data Model	1	2010	4	2029
Geospatial Data Standards	1	2010	4	2029

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>				<b>Project (Number/Name)</b> C78 / <i>One Semi-Automated Forces</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
<i>C78: One Semi-Automated Forces</i>	-	6.358	6.634	6.714	-	6.714	6.722	6.794	6.868	6.937	0.000	47.027
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

One Semi-Automated Forces (OneSAF) develops and delivers a software application that represents activities of units and forces in simulation to support Army Training and Readiness. The application is used by Army agencies to support the concept evaluation, experimentation, materiel acquisition and training. The focus of this project is systems/software engineering and design for development and evolution of the architecture and software tools for a universal system of Army computer-generated forces -- OneSAF. OneSAF is a high fidelity brigade-and-below SAF that represents a full range of operations, systems and control processes in support of stand-alone and embedded training and Research, Development and Acquisition (RDA) simulation applications. OneSAF is fully interoperable with the Army's virtual, live, and division-and-above constructive simulations.

FY 2025 base funding in the amount of \$6.714 million allows for continued development of the software product line Prioritized Improvements. This funding also provides for the management of the infrastructure, equipment, laboratories, and processes needed to develop, test, and release the required product baseline.

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Engineering and Manufacturing Development (EMD) phase contract activities for the One Semi-Automated Forces program. <b>Description:</b> Continue EMD phase contract activities for the OneSAF program.	5.008	-	-
<b>Title:</b> Government System Test and Evaluation for the One Semi-Automated Forces (OneSAF) program. <b>Description:</b> Government System Test and Evaluation for the OneSAF program.  <b>FY 2024 Plans:</b> Will provide for software, test, integration and release for Version 13.0. Will provide support to the user community experiments, analyses, and validation events for integration into the Home Station Training Federation, Network Integration Events (NIE), Battle Lab Collaborative Simulation Environment (BLCSE), Entity Simulation Service (ESS) in support of Joint Land Component Constructive Training Capability (JLCCTC), and other Live, Virtual and Constructive (LVC) applications.  <b>FY 2025 Plans:</b> Will provide for software, test, integration and release for Version 12.2 (Note: FY 2024 release of V13.0 is renamed to V12.1 but prior years are locked). Will provide support to the user community experiments, analyses, and validation events for integration into the Home Station Training Federation, Network Integration Events (NIE), Battle Lab Collaborative Simulation Environment	1.050	1.050	1.050

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army		<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C78 / <i>One Semi-Automated Forces</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
(BLCSE), Entity Simulation Service (ESS) in support of Joint Land Component Constructive Training Capability (JLCCTC), and other Live, Virtual and Constructive (LVC) applications.				
<b>Title:</b> Government Program Management for the One Semi-Automated Forces (OneSAF) program.		0.300	0.300	0.300
<b>Description:</b> Government Program Management for the One Semi-Automated Forces (OneSAF) program.				
<b>FY 2024 Plans:</b> Will provide a portion of program management, engineering and technical oversight, contract support, and travel for support of site surveys and Subject Matter Experts for the development of OneSAF.				
<b>FY 2025 Plans:</b> Will provide a portion of program management, engineering and technical oversight, contract support, and travel for support of site surveys and Subject Matter Experts for the development of OneSAF.				
<b>Title:</b> Software Engineering activities for the One Semi-Automated Forces Program		-	5.284	5.364
<b>Description:</b> Continue development activities for the OneSAF program.				
<b>FY 2024 Plans:</b> Will continue the development of software capabilities and prioritized improvements. Will continue the software development of functionality that enhances architectural services, components, synthetic environment and infrastructure of the OneSAF Product Line and will provide for software integration, test and release of required software refreshes and Version 13.0.				
<b>FY 2025 Plans:</b> Will continue the development of software capabilities and prioritized improvements. Will continue the software development of functionality that enhances architectural services, components, synthetic environment and infrastructure of the OneSAF Product Line and will provide for software integration, test and release of required software refreshes and Version 12.2 (Note: Version 12.2 was previously titled Version 14.0 and FY 2024 Version 13.0 is now known as Version 12.1)				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Increase from FY2024 to FY2025 funding is due to economic assumptions.				
<b>Accomplishments/Planned Programs Subtotals</b>		6.358	6.634	6.714
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	Project (Number/Name) C78 / <i>One Semi-Automated Forces</i>

**D. Acquisition Strategy**

OneSAF manages two Task Orders under one Indefinite Delivery/Indefinite Quantity (ID/IQ) Production and Support contract. The Task Order for support includes Program Management; Development and Customer support; Training; Travel and Other Direct Costs (ODC). The Task Order for Production includes Capability Improvements; Tailored Product Baseline Release; Capability Concurrence; and Integration, Test, and Release. The OneSAF Production and Support contract is tailored to fully serve the current and evolving needs of the user community.

The enhancements will be executed within the development line as modifications to the released baseline via Engineering Change Proposals (ECPs); Change Requests (CRs); and correction of deficiencies identified as Problem Test Reports (PTRs) and Deficiency Reports (DRs) by the user community.

In FY 2025, the program will continue with yearly releases of the OneSAF Software versions containing performance enhancements resulting from the development and integration of Prioritized Improvements, concurrency enhancements, user feedback, corrections of deficiencies identified as Problem Test Reports (PTR) and Deficiency Reports (DR) and Co-Developers handovers. The OneSAF program will continue to manage the single award contract for the continuing development and maintenance of the software baseline as well as continue to manage the Integrated Development Environment (IDE).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604760A / Distributive Interactive Simulations (DIS) - Eng Dev				C78 / One Semi-Automated Forces							
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Program Management	Various	PEO STRI, Orlando, FL : Various	29.801	0.300	Oct 2022	0.300	Oct 2023	0.300	Oct 2024	-		0.300	Continuing	Continuing	Continuing
<b>Subtotal</b>			29.801	0.300		0.300		0.300		-		0.300	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Software Development	C/CPFF	Riptide : Orlando, FL	23.465	4.583	Dec 2022	4.859	Oct 2023	4.939	Dec 2024	-		4.939	Continuing	Continuing	Continuing
<b>Subtotal</b>			23.465	4.583		4.859		4.939		-		4.939	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Domain Analysis	Various	Various : Various	6.789	0.125	Dec 2022	0.125	Oct 2023	0.125	Dec 2024	-		0.125	Continuing	Continuing	Continuing
Architecture Engr & Tech Spt	SS/FP	MITRE FFRDC : Aberdeen Proving Ground, MD	6.923	0.300	Dec 2022	0.300	Oct 2023	0.300	Dec 2024	-		0.300	Continuing	Continuing	Continuing
<b>Subtotal</b>			13.712	0.425		0.425		0.425		-		0.425	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
OneSAF Integration, Evaluation and Test	Various	Various : Various	17.194	0.875	Dec 2022	0.875	Oct 2023	0.875	Dec 2024	-		0.875	Continuing	Continuing	Continuing
OneSAF Verification, Validation & Accreditation	Various	Various : Various	8.151	0.175	Dec 2022	0.175	Oct 2023	0.175	Dec 2024	-		0.175	Continuing	Continuing	Continuing
<b>Subtotal</b>			25.345	1.050		1.050		1.050		-		1.050	Continuing	Continuing	N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b>		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C78 / <i>One Semi-Automated Forces</i>

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
P3I Requirements Development																												
P3I																												
OneSAF Version Release 12.0 (Concurrency Updates)	1 V12.0																											
OneSAF Version Release 12.1 (Concurrency Updates)					2 V12.1																							
OneSAF Version Release 12.2 (Concurrency Updates)									3 V12.2																			
OneSAF Version Release 13.0 (Concurrency Updates)													4 V13.0															
OneSAF Version Release 13.1 (Concurrency Updates)																	5 V13.1											
OneSAF Version Release 13.2 (Concurrency Updates)																					6 V13.2							
OneSAF Version Release 14.0 (Concurrency Updates)																									7 V14.0			
OneSAF Support																												
Life Cycle Software Support																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Army		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604760A / <i>Distributive Interactive Simulations (DIS) - Eng Dev</i>	<b>Project (Number/Name)</b> C78 / <i>One Semi-Automated Forces</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
P3I Requirements Development	1	2006	4	2029
OneSAF Version Release 9.0 (Concurrency Updates)	2	2020	2	2020
OneSAF Version Release 10.0 (Concurrency Updates)	2	2021	2	2021
OneSAF Version Release 11.0 (Concurrency Updates)	2	2022	2	2022
OneSAF Version Release 12.0 (Concurrency Updates)	2	2023	2	2023
OneSAF Version Release 12.1 (Concurrency Updates)	2	2024	2	2024
OneSAF Version Release 12.2 (Concurrency Updates)	1	2025	1	2025
OneSAF Version Release 13.0 (Concurrency Updates)	3	2026	3	2026
OneSAF Version Release 13.1 (Concurrency Updates)	3	2027	3	2027
OneSAF Version Release 13.2 (Concurrency Updates)	3	2028	3	2028
OneSAF Version Release 14.0 (Concurrency Updates)	3	2029	3	2029
OneSAF Support	1	2006	4	2029