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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 Army **Date:** April 2022

<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 0604742A / <i>Constructive Simulation Systems Development</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	9.779	22.240	29.570	-	29.570	30.848	30.151	30.565	14.291	0.000	167.444
361: <i>Intelligence Simulation Systems</i>	-	1.950	5.525	6.958	-	6.958	7.838	7.853	7.812	8.090	0.000	46.026
362: <i>Jnt Land Component Constructive Trng</i>	-	7.829	16.715	22.612	-	22.612	23.010	22.298	22.753	6.201	0.000	121.418

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

This Program Element funds the development of constructive and wargame simulations used to realistically train commanders and their battle staffs on today's complex battlefield conditions.

Project 361 funds the development of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT). IEWTPT is a Non-System Training Device (NSTD) which supports home-station training by simulating and stimulating Military Intelligence (MI) organic or surrogate equipment. It enables sustainment of critical individual and collective MI tasks/skills and is the core of the U.S. Army Intelligence Center of Excellence (USAICoE) Military Intelligence (MI) holistic training strategy supporting mission command, targeting, and MI Soldier readiness. IEWTPT provides a realistic simulation intelligence target environment for multi-intelligence disciplines such as All Source Analysis, Signals Intelligence (SIGINT), Imagery Intelligence (IMINT), Human Intelligence (HUMINT), Geospatial Intelligence (GEOINT) and emerging electronic warfare (EW) systems. IEWTPT provides training for analyst and system operators to exploit intelligence data during training, just as they would in "Real World" operations. The IEWTPT Technical Control Cell (TCC) is composed of two components: the Lower Enclave (LE) which supports exercise planning and development and drives the All Source and GEOINT (and emerging EW) training tasks and the Upper Enclave (UE) which supports all SIGINT related training and operates at the Top Secret / Sensitive Compartmented Information (TS/SCI) classification level.

Project 362, Joint Land Component Constructive Training Capability (JLCCTC) supports Army Title X training worldwide for Army Commanders and their staff at Mission Training Complexes (MTCs), Training and Doctrine Command (TRADOC) facilities, and other customer locations. JLCCTC trains Commanders and their staff in Decisive Actions to include offensive, defensive, stability, and civil support operations. JLCCTC is a software modeling and simulation capability that contributes to Army Training Mission Area by providing appropriate levels of modeling and simulation resolution and fidelity to support unit collective and combined arms training. JLCCTC provides a composable federation configurable to any combination of models and simulations, as required by training exercise intent/design. JLCCTC provides accurate representations of tactically and operationally relevant land warfare operations executed in a contemporary Joint operating environment/context and in support of Army Training and Readiness.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2023 Army	<b>Date:</b> April 2022
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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 0604742A / <i>Constructive Simulation Systems Development</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	9.779	22.331	0.000	-	0.000
Current President's Budget	9.779	22.240	29.570	-	29.570
Total Adjustments	0.000	-0.091	29.570	-	29.570
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	29.570	-	29.570
• FFRDC Transfer	-	-0.091	-	-	-

**Change Summary Explanation**

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>				<b>Project (Number/Name)</b> 361 / <i>Intelligence Simulation Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
361: <i>Intelligence Simulation Systems</i>	-	1.950	5.525	6.958	-	6.958	7.838	7.853	7.812	8.090	0.000	46.026
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

FY 2022 is IEWTPT's year of transition to Increment 2 and FY 2023 begins Increment 2. When FY 2022 actuals can be updated, the forms will be corrected to reflect Increment 2 begins in 2023.

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

Project 361 funds the development of the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT). IEWTPT is a Non-System Training Device (NSTD) which supports home-station training and multi-domain operations by simulating and stimulating Military Intelligence (MI) organic or surrogate equipment. It enables sustainment of critical individual and collective MI tasks/skills and is the core of the U.S. Army Intelligence Center of Excellence (USAICoE) Military Intelligence (MI) holistic training strategy supporting mission command, targeting, and MI Soldier readiness. IEWTPT provides a realistic simulation intelligence target environment for multi-intelligence disciplines such as All Source Analysis, Signals Intelligence (SIGINT), Imagery Intelligence (IMINT), Human Intelligence (HUMINT), Geospatial Intelligence (GEOINT) and emerging electronic warfare (EW) systems. IEWTPT provides training for analyst and system operators to exploit intelligence data during training, just as they would in "Real World" operations. The IEWTPT Technical Control Cell (TCC) is composed of two components: the Lower Enclave (LE) which supports exercise planning and development and drives the All Source and GEOINT (and emerging EW) training tasks and the Upper Enclave (UE) which supports all SIGINT related training and operates at the Top Secret / Sensitive Compartmented Information (TS/SCI) classification level.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> IEWTPT development, integration and support.	1.950	-	-
<b>Description:</b> Continue IEWTPT development, integration and support to the user community.			
<b>Title:</b> Software Engineering, Development, Integration and Testing	-	5.323	6.958
<b>FY 2022 Plans:</b> Supports Increment 2 validated requirements for multi-intelligence discipline and electronic warfare individual, crew, and collective training for military intelligence unit certification and Soldier readiness. The Information Systems-Capability Development Document (IS-CDD) sets the conditions for program entry into the software acquisition pathway for development as a software intensive system facilitating rapid and iterative delivery of intelligence training capabilities. Supports Intelligence Requirements and Configuration Control Board (RC2B) priorities for development engineering, integration, and testing. Supports RC2B General Officer priorities for simulation interface development supporting the Terrestrial Layer System (TLS) and Signals Intelligence Electronic Warfare (SIGINT/EW) integration for home-station training. Funding supports a cloud ready baseline architecture for the			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 361 / <i>Intelligence Simulation Systems</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p>Technical Control Cell (TCC) transition from stand-alone to point of need. Continues baseline improvements for the distributed/federated constructive simulation environment and a baseline architecture that is cloud ready for point of need delivery; develop improved All Source intelligence messaging, and continue detailed support of the Electronic Warfare Program Management Tool (EWPMT) Integration into IEWTPT in support of multi domain capable training requirements.</p> <p>Expands SIGINT scenario development tools for cloud employment; sensor emulation effects modeling as well as theater and National level intelligence replication for the simulation/user environment. Will execute technology development and integration supporting product deliverables needed to meet Intelligence Center of Excellence (ICoE) and Army G2 training and modernization strategies.</p> <p><b>FY 2023 Plans:</b> Supports validated requirements for multi-intelligence discipline and electronic warfare individual, crew, and collective training for military intelligence unit certification and Soldier readiness. The Information Systems-Capability Development Document (IS-CDD) sets the conditions for program execution as a software intensive system facilitating rapid and iterative delivery of intelligence training capabilities. Supports priorities of work established by the General Officer led Requirements and Configuration Control Board (RC2B) for development, engineering, integration, and testing. Supports intelligence modernization training development for emerging systems such as the Terrestrial Layer System (TLS) for integrated Signals Intelligence Electronic Warfare (SIGINT/ EW) home-station training. Funding supports training mission analysis and development for the Tactical Intelligence Targeting Access Node (TITAN) multi-domain ground station. Supports cloud ready baseline architecture development for point of need intelligence critical task training and constructive simulation interface. Improves All Source intelligence messaging development and Electronic Warfare Program Management Tool (EWPMT) integration into the Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT) in support of multi-domain capable training requirements. Expands SIGINT scenario development tools for cloud employment, sensor emulation effects, threat systems modeling, and Theater/National level intelligence replication for the simulation/user environment . Will execute development and integration supporting product deliverables needed to meet Intelligence Center of Excellence (ICoE) and Army G2 training and modernization strategies.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Project 361 funding increase of \$1.433M from FY 2022 to FY 2023 provides critical multi-domain intelligence training development, integration and support for emerging Intelligence, Surveillance, and Reconnaissance (ISR) terrestrial platforms and soldier readiness. Provides DevSecOps tools and integration for Software Acquisition Pathway execution.</p>				
<p><b>Title:</b> SBIR/STTR</p> <p><b>FY 2022 Plans:</b> Funding transferred in accordance with Title 15 USC ?638.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b></p>		-	0.202	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 361 / <i>Intelligence Simulation Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Funding transferred in accordance with Title 15 USC ?638.			
<b>Accomplishments/Planned Programs Subtotals</b>	1.950	5.525	6.958

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

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• NA0102: <i>NSTD INTELLIGENCE</i>	1.607	3.680	0.000	-	0.000	-	-	-	-	0.000	5.287

**Remarks**

NA0102= Other Procurement Army (OPA)

**D. Acquisition Strategy**

The current IEWTPT Increment 1 contract will continue via a 12-month bridge to provide continued program support through 2nd QTR FY 2023. FY 2023 funds will provide support for the Increment 2 competitive contract award and formal transition to the software acquisition pathway. This strategy will support incremental capability development, integration and testing in an agile acquisition/development environment to meet the Information Systems-Capability Development Document (IS-CDD), Military Intelligence Corps requirements and the Requirements and Configuration Control Board (RC2B) priorities. FY 2023 funding continues to support home-station intelligence and emerging electronic warfare training. The Increment 2 contract will ensure alignment with Army and Military Intelligence modernization priorities.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 361 / <i>Intelligence Simulation Systems</i>
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<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management	Various	PEO STRI : Orlando, FL	11.018	-		-		-		-		-	0.000	11.018	-
SBIR/STTR	Various	Various : Various	-	-		0.202		-		-		-	0.000	0.202	-
<b>Subtotal</b>			11.018	-		0.202		-		-		-	0.000	11.220	N/A

<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
TCC Technology	C/CPFF	General Dynamics C4 Systems : Orlando, Florida	7.900	-		-		-		-		-	0.000	7.900	-
TCC Technology	C/CPFF	General Dynamics Mission Systems : Orlando, Florida	11.673	1.895	Nov 2020	-		-		-		-	0.000	13.568	-
Eng & Manufacturing Dev. (Cloud Environment)	Option/CPFF	General Dynamics C4 Systems : Orlando, FL	64.799	0.055	Jul 2021	-		-		-		-	0.000	64.854	29.003
Increment 2 Software Eng, Development, Integration and Test	C/IDIQ	TBD : Orlando, FL	-	-		3.658	Feb 2022	4.494	Feb 2023	-		4.494	Continuing	Continuing	Continuing
TCC Cloud Ready Architecture	C/IDIQ	TBD : Orlando, FL	-	-		1.665	Feb 2022	-		-		-	Continuing	Continuing	Continuing
DevSecOps Tools/Agile Ready Architecture	C/CPFF	TBD : Orlando, Florida	-	-		-		2.464	May 2023	-		2.464	0.000	2.464	-
<b>Subtotal</b>			84.372	1.950		5.323		6.958		-		6.958	Continuing	Continuing	N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 361 / <i>Intelligence Simulation Systems</i>
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<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering & Technical Support	Various	Various : Various	2.743	-		-		-		-		-	0.000	2.743	2.743
<b>Subtotal</b>			2.743	-		-		-		-		-	0.000	2.743	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
TEMP Support	Various	Multiple : Various	0.319	-		-		-		-		-	0.000	0.319	0.319
Test Engineering Support	Various	Multiple : Various	1.313	-		-		-		-		-	0.000	1.313	1.313
<b>Subtotal</b>			1.632	-		-		-		-		-	0.000	1.632	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		99.765	1.950	5.525	6.958	-	6.958	Continuing	Continuing	N/A

**Remarks**  
 FY 2023 marks the closeout of the Increment 1 Bridge contract period of performance and the transition to the Increment 2 contract leveraging the software acquisition pathway. The IEWTPT Increment 2 contract is planned as a full and open competitive acquisition.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 361 / <i>Intelligence Simulation Systems</i>

Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				
	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	
TCC Development/Integration/Test																													
Version 11.0 Security Accred.			▲ 1																										
Version 11.0 Release				▲ 2																									
Increment 1 Bridge							▲ 3																						
Increment 2 Contract Award																													
Min. Viable Capability Release 1														▲ 4															
Min. Viable Capability Release 2																			▲ 5										
Min. Viable Capability Release 3																								▲ 6					
Min. Viable Capability Release 4																													▲ 7

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 361 / <i>Intelligence Simulation Systems</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
TCC Development/Integration/Test	4	2007	4	2021
Version 4.0 Security Accred.	3	2014	3	2014
Version 4.0 Release	4	2014	4	2014
Version 5.0 Security Accred.	3	2015	3	2015
Version 5.0 Release	4	2015	4	2015
Version 6.0 Security Accred.	3	2016	3	2016
Version 6.0 Release	4	2016	4	2016
Version 7.0 Security Accred.	2	2017	2	2017
Version 7.0 Release	3	2017	3	2017
Version 8.0 Security Accred.	3	2018	3	2018
Version 8.0 Release	4	2018	4	2018
Version 9.0 Security Accred.	3	2019	3	2019
Version 9.0 Release	4	2019	4	2019
Version 10.0 Security Accred.	3	2020	3	2020
Version 10.0 Release	4	2020	4	2020
Version 11.0 Security Accred.	3	2021	3	2021
Version 11.0 Release	4	2021	4	2021
FOC	4	2020	4	2020
Increment 1 Bridge	2	2022	2	2022
Increment 2 Contract Award	2	2023	2	2028
Min. Viable Capability Release 1	2	2024	2	2024
Min. Viable Capability Release 2	2	2025	2	2025

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2023 Army **Date:** April 2022

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 361 / <i>Intelligence Simulation Systems</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
Min. Viable Capability Release 3	2	2026	2	2026
Min. Viable Capability Release 4	2	2027	2	2027
Min. Viable Capability Release 5	2	2028	2	2028
Min. Viable Capability Release 6	2	2029	2	2029

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army										<b>Date:</b> April 2022		
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<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
362: <i>Jnt Land Component Constructive Trng</i>	-	7.829	16.715	22.612	-	22.612	23.010	22.298	22.753	6.201	0.000	121.418
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

Funding transferred in accordance with Title 15 USC &#167;638.

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

The Joint Land Component Constructive Training Capability (JLCCTC) supports Army Title X training worldwide for Army Commanders and their staff at Mission Training Complexes (MTCs), Training and Doctrine Command (TRADOC) facilities, and other customer locations. JLCCTC trains Commanders and their staff in Decisive Actions to include offensive, defensive, stability, and civil support operations. JLCCTC is a software modeling and simulation capability that contributes to Army Training Mission Area by providing appropriate levels of modeling and simulation resolution and fidelity to support unit collective and combined arms training. JLCCTC provides a composable federation configurable to any combination of models and simulations, as required by training exercise intent/design. JLCCTC provides accurate representations of tactically and operationally relevant land warfare operations executed in a contemporary Joint operating environment/context and in support of Army Training and Readiness.

FY 2023 base funding in the amount of \$22.612 million will be used for the development, integration and test, and verification activities for JLCCTC Version 10.0 to train Commanders and their Staff. JLCCTC will continue to support emerging Common Operating Environment / Computing Environment (COE/CE), Mission Command (MC), Cyber Security/Risk Management Framework (RMF), Concurrency warfighter requirements, SE Core No Fail activities, and OWT Data to JLCCTC Runtime Translation Tool development. In addition, JLCCTC will continue to support the integration activities with Live, Virtual, Constructive-Integrated Architecture (LVC-IA), Combat Training Center Instrumentation System (CTC- IS), IEWTPT, and to begin interfacing the Army ground model with the Joint simulation capability.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Improve JLCCTC software models to comply with emerging Common Operating Environment (COE)/Computing Environment (CE) requirements.	0.650	0.650	0.650
<b>Description:</b> Improve JLCCTC software models to comply with emerging COE/CE requirements.			
<b>FY 2022 Plans:</b> Will continue improvements of JLCCTC software models to include common overlay development/modifications in support of COE compliance/standards.			
<b>FY 2023 Plans:</b>			

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<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 362 / <i>Jnt Land Component Constructive Trng</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Will continue improvements of JLCCTC software models to include common overlay development/modifications in support of COE compliance/standards.				
<p><b>Title:</b> Improve JLCCTC software models to meet emerging Mission Command (MC) stimulation and Cyber Security requirements.</p> <p><b>Description:</b> Improve JLCCTC software models to meet emerging Mission Command (MC) stimulation and Risk Management Framework (RMF)/Cyber Security requirements.</p> <p><b>FY 2022 Plans:</b> Continue to evolve JLCCTC to support emerging Mission Command requirements and fully comply with the Cyber Security/Risk Management Framework (RMF) requirement.</p> <p><b>FY 2023 Plans:</b> Continue to evolve JLCCTC to support emerging Mission Command requirements and fully comply with the Cyber Security/Risk Management Framework (RMF) requirement.</p>		0.800	0.800	0.800
<p><b>Title:</b> Improve JLCCTC software models to meet emerging warfighter requirements for Concurrency of Commander and staff training (Battalion thru Theater Level).</p> <p><b>Description:</b> Improve JLCCTC software models to meet emerging warfighter requirements for Concurrency of Commander and staff training (Brigade through Theater Level).</p> <p><b>FY 2022 Plans:</b> Continue to evolve JLCCTC software models to support additional emerging requirements in support of Commander and staff warfighter training exercises through Theater level</p> <p><b>FY 2023 Plans:</b> Continue to evolve JLCCTC software models to support additional emerging requirements in support of Commander and staff warfighter training exercises through Theater level</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase from FY 2022 to FY 2023 for Recovery of Concurrency Warfighter requirements.</p>		2.834	2.321	6.226
<p><b>Title:</b> Government System Test and Evaluation for the Joint Land Component Constructive Training Capability (JLCCTC) Program.</p> <p><b>Description:</b> Government System Test and Evaluation for the Joint Land Component Constructive Training Capability (JLCCTC).</p> <p><b>FY 2022 Plans:</b></p>		1.651	1.701	1.750

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 362 / <i>Jnt Land Component Constructive Trng</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Continue conducting JLCCTC v10.0 system test events (Integration and Testing) and verification. <b>FY 2023 Plans:</b> Continue conducting system test events (Integration and Testing) in support of the JLCCTC v10.0 validation event (VE). <b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Minimal increase from FY 2022 to FY 2023 due to additional testing.				
<b>Title:</b> Conduct Army Ground Model Analysis of Alternative <b>FY 2022 Plans:</b> Begin interfacing the Army ground model with the Joint simulation capability . <b>FY 2023 Plans:</b> Continue development to interface the Army ground model with the Joint simulation capability. <b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase in funding from FY 2022 to FY 2023 is due to continuing development to interface the Army ground model with the Joint simulation capability.		1.894	5.692	7.660
<b>Title:</b> Constructive Terrain and Tools Development <b>FY 2022 Plans:</b> Plan is to execute SE Core No Fail Activities and development of tools to transform One World Terrain (OWT) data into JLCCTC compliant runtime formats. <b>FY 2023 Plans:</b> Continue execution of the SE Core No Fail Activities and development of tools to transform One World Terrain (OWT) data into JLCCTC compliant runtime formats. <b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase in funding from FY 2022 to FY 2023 is to continue execution of the SE Core No Fail Activities and development of tools to transform One World Terrain (OWT) data into JLCCTC compliant runtime formats.		-	4.937	5.526
<b>Title:</b> SBIR/STTR Transfer <b>FY 2022 Plans:</b> SBIR/STTR Transfer <b>FY 2022 to FY 2023 Increase/Decrease Statement:</b>		-	0.614	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 362 / <i>Jnt Land Component Constructive Trng</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2021	FY 2022	FY 2023
Funding transferred in accordance with Title 15 USC ?638.			
<b>Accomplishments/Planned Programs Subtotals</b>	7.829	16.715	22.612

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
Line Item	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• NA0103: <i>NSTD</i> <i>COMMAND &amp; CONTROL</i>	35.038	37.147	35.470	-	35.470	32.850	32.064	32.466	32.778	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**  
 The new JLCCTC contract (with Base contract of 4 years and two-three year options) was awarded to Phoenix Logistics Inc. (PLI) on 17 March 2020.

Activities under the current new contract and follow-on contracts include System Engineering, Software Development, Integration and Test, support to validation events and PDSS/P3I support.

JLCCTC produces a major software release/version which is then distributed/fielded to over 40 MTCs worldwide in support of Army Command and Staff Training.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 362 / <i>Jnt Land Component Constructive Trng</i>
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<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management	Various	Various : Various	68.854	-		-		-		-		-	Continuing	Continuing	Continuing
SBIR/STTR Transfer	TBD	PEO STRI : Orlando, FL	0.843	-		0.614		-		-		-	0.000	1.457	-
<b>Subtotal</b>			69.697	-		0.614		-		-		-	Continuing	Continuing	N/A

<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Constructive Strategy Implementation	C/CPFF	Lockheed Martin : Orlando, FL	9.869	-		-		-		-		-	Continuing	Continuing	Continuing
Integration of JLCCTC	SS/FFP	Various : Various	56.851	-		-		-		-		-	0.000	56.851	-
Improve JLCCTC to meet emerging warfighter requirements.	C/CPFF	Phoenix Logistics, Inc. : Orlando, FL	11.418	2.834	Dec 2020	2.321	Dec 2021	6.226	Dec 2022	-		6.226	Continuing	Continuing	Continuing
MC Systems Stimulation and Cyber Security	C/CPFF	Phoenix Logistics, Inc. : Orlando, FL	8.332	0.800	Dec 2020	0.800	Dec 2021	0.800	Dec 2022	-		0.800	Continuing	Continuing	Continuing
COE Compliance	C/CPFF	Phoenix Logistics, Inc. : Orlando, FL	5.740	0.650	Dec 2020	0.650	Dec 2021	0.650	Dec 2022	-		0.650	Continuing	Continuing	Continuing
JLCCTC mission command training program simulation upgrades	C/CPFF	Lockheed Martin : Orlando, FL	7.397	-		-		-		-		-	Continuing	Continuing	Continuing
Conduct Army ground Model AoA	C/CPFF	TBD : Orlando, FL	-	1.894	Dec 2020	5.692	Dec 2021	7.660	Dec 2022	-		7.660	Continuing	Continuing	Continuing
Constructive Terrain and Tools Development	C/CPFF	TBD : Orlando, FL	-	-		4.937	Dec 2021	5.526	Dec 2022	-		5.526	Continuing	Continuing	Continuing
<b>Subtotal</b>			99.607	6.178		14.400		20.862		-		20.862	Continuing	Continuing	N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Army</b>		<b>Date: April 2022</b>
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 362 / <i>Jnt Land Component Constructive Trng</i>

Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
JLCCTC Version 9.0 System Engr / Develop / I&T / Validation	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
JLCCTC Version 9.0 Release	[Redacted]				 JLCCTC V9.0 Release				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
JLCCTC Version 10.0 System Engr / Develop / I&T / Validation	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
JLCCTC Version 10.0 Release	[Redacted]				[Redacted]				[Redacted]				 JLCCTC V10.0 Release				[Redacted]				[Redacted]							
JLCCTC Integration into LVC-IA / CTC-IS	[Redacted]																											
JLCCTC Version 2027 Sys Engr/ Develop/I&T/ Validation	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]			
JLCCTC Version 2027 Release	[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				 JLCCTC			

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604742A / <i>Constructive Simulation Systems Development</i>	<b>Project (Number/Name)</b> 362 / <i>Jnt Land Component Constructive Trng</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
JLCCTC Version 9.0 System Engr / Develop / I&T / Validation	1	2018	4	2021
JLCCTC Version 9.0 Release	3	2022	3	2022
JLCCTC Version 10.0 System Engr / Develop / I&T / Validation	3	2022	4	2024
JLCCTC Version 10.0 Release	1	2025	1	2025
JLCCTC Integration into LVC-IA / CTC-IS	1	2014	4	2027
JLCCTC Version 2027 Sys Engr/ Develop/ I&T/ Validation	1	2025	4	2027
JLCCTC Version 2027 Release	1	2028	1	2028