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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 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</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	-	11.158	9.779	22.331	-	22.331	-	-	-	-	-	-
361: <i>Intelligence Simulation Systems</i>	-	2.902	1.950	5.525	-	5.525	-	-	-	-	-	-
362: <i>Jnt Land Component Constructive Trng</i>	-	8.256	7.829	16.806	-	16.806	-	-	-	-	-	-

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. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	11.636	10.150	11.758	-	11.758
Current President's Budget	11.158	9.779	22.331	-	22.331
Total Adjustments	-0.478	-0.371	10.573	-	10.573
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.478	-0.371			
• Adjustments to Budget Years	-	-	10.573	-	10.573

Change Summary Explanation

The Fiscal Year 2022 (FY22) increase of \$10.573 million is due to a \$5.525 million increase for Project 361 to support Increment 2 validated requirements for multi-intelligence discipline and electronic warfare individual, crew, and collective training for military intelligence unit certification and Soldier readiness and an \$5.048 million increase for Project 362 to support interfacing the Army ground model with the Joint simulation capability and for SE Core No Fail Activities and One World Terrain (OWT) Data to JLCCTC Runtime translation tool Development.

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>				Project (Number/Name) 361 / <i>Intelligence Simulation Systems</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
361: <i>Intelligence Simulation Systems</i>	-	2.902	1.950	5.525	-	5.525	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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)

	FY 2020	FY 2021	FY 2022
Title: IEWTPT development, integration and support.	2.902	1.950	-
Description: Continue IEWTPT development, integration and support to the user community.			
FY 2021 Plans: Supports V11.0 Security Accreditation, Version 11.01 release and incremental baseline improvements of detailed simulation interface capabilities for Intelligence, Surveillance, Reconnaissance (ISR) platform systems in the PEO Intelligence Electronic Warfare & Sensors (PEO IEW&S) portfolio to support home-station intelligence training. Develop prototype cloud ready baseline for the TCC transition to Increment 2, multi-intelligence training improvements that includes but not limited to: distributed/federated construct simulation environment, expand All Source, SIGINT baselines and begin detailed electronic warfare and cyber support task analysis in support of the Army's Multi Domain Operation strategy.			
Expand EW/SIGINT integration and cloud ready, point of need training capabilities. Expand 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			

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 361 / <i>Intelligence Simulation Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
to meet Intelligence Center of Excellence (ICoE) and Army G2 training and modernization strategies. Develop and maintain appropriate linkages to ISR platform programs/systems to meet the Army's multi-domain intelligence training requirements. FY 2021 to FY 2022 Increase/Decrease Statement: Project 361 funding decrease from FY 2021 to FY 2022 in IEWTPT Development, Integration and Support and moved to Software Engineering, Development, Integration, and Testing to align with program requirements.				
Title: Software Engineering, Development, Integration and Testing FY 2022 Plans: 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 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. 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. FY 2021 to FY 2022 Increase/Decrease Statement: Project 361 has a \$5.525 million funding increase from FY 2021 to FY 2022 to support Increment 2 validated requirements for multi-intelligence discipline and electronic warfare individual, crew, and collective training for military intelligence unit certification and Soldier readiness.		-	-	5.525
Accomplishments/Planned Programs Subtotals		2.902	1.950	5.525

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 361 / <i>Intelligence Simulation Systems</i>

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</u> <u>Complete</u>	<u>Total Cost</u>
• NA0102: <i>NSTD INTELLIGENCE</i>	6.081	1.607	3.680	-	3.680	-	-	-	-	-	-

Remarks

NA0102= Other Procurement Army (OPA)

D. Acquisition Strategy

The current IEWTPT Increment I/Block II contract, including a 12 month bridge, will provide continued program support through 2nd QTR FY2023, at which the next full and open contract solicitation will occur. The FY 2022 funds will provide continued support for Increment 2 transition to a software strategy supporting incremental development, integration, testing in an agile acquisition and 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 2022 funding will provide the ability to support the planned full and open competitive acquisition of the IEWTPT contract. A ten-year Indefinite Delivery/Indefinite Quantity (IDIQ) contract is planned for IEWTPT Increment 2 not later than 15 February 2023. This competitive acquisition will ensure future training capabilities meet IS-CDD requirements that are nested with the Intelligence Corps modernization priorities for multifunctional intelligence support to maneuver commanders.

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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 / 5				PE 0604742A / Constructive Simulation Systems Development				361 / Intelligence Simulation Systems							
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
Program Management	Various	PEO STRI : Orlando, FL	11.018	-		-		-		-		-	0.000	11.018	-
Subtotal			11.018	-		-		-		-		-	0.000	11.018	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
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	9.745	1.928	Feb 2020	1.895	Nov 2020	-		-		-	0.000	13.568	-
Eng & Manufacturing Dev. (Cloud Environment)	Option/CPFF	General Dynamics C4 Systems : Orlando, FL	63.825	0.974	Feb 2020	0.055	Jul 2021	-		-		-	0.000	64.854	29.003
Increment 2 Software Eng, Development, Integration and Test	C/IDIQ	TBD : Orlando, FL	-	-		-		3.797	Feb 2022	-		3.797	Continuing	Continuing	Continuing
TCC Cloud Ready Architecture	C/IDIQ	TBD : Orlando, FL	-	-		-		1.728	Feb 2022	-		1.728	Continuing	Continuing	Continuing
Subtotal			81.470	2.902		1.950		5.525		-		5.525	Continuing	Continuing	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
Engineering & Technical Support	Various	Various : Various	2.743	-		-		-		-		-	0.000	2.743	2.743
Subtotal			2.743	-		-		-		-		-	0.000	2.743	N/A

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 361 / <i>Intelligence Simulation Systems</i>
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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
Subtotal			1.632	-		-		-		-		-	0.000	1.632	N/A
Project Cost Totals			96.863	2.902		1.950		5.525		-		5.525	Continuing	Continuing	N/A

Remarks
 FY 2022 marks the close out of the period of performance for the Increment 1 contract and the transition to Increment 2 and the software acquisition pathway for development as a software intensive system supporting detailed version builds for intelligence, electronic warfare training lines of effort. FY 2022 funding will provide the ability to quickly transition and support the planned full and open competitive acquisition of the IEWTPT Increment 2 contract.

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
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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
TCC Development/Integration/Test																												
Version 10.0 Security Accred.			▲ 1																									
Version 10.0 Release				▲ 2																								
Version 11.0 Security Accred.								▲ 4																				
Version 11.0 Release												▲ 5																
FOC				▲ 3																								
Increment 2 Software Engineering, Development, Integration and Testing																												
Capability Drop 1											▲ 6																	
Capability Drop 2															▲ 7													
Capability Drop 3																			▲ 8									
Capability Drop 4																											▲ 9	
Capability Drop 5																												▲ 10

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 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 2 Software Engineering, Development, Integration and Testing	4	2021	2	2028
Capability Drop 1	4	2022	4	2022
Capability Drop 2	4	2023	4	2023
Capability Drop 3	4	2024	4	2024

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army			Date: May 2021	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 361 / <i>Intelligence Simulation Systems</i>		

Events	Start		End	
	Quarter	Year	Quarter	Year
Capability Drop 4	4	2025	4	2025
Capability Drop 5	4	2026	4	2026
Capability Drop 6	4	2027	4	2027
Capability Drop 7	4	2028	4	2028

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

Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>				Project (Number/Name) 362 / <i>Jnt Land Component Constructive Trng</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
362: <i>Jnt Land Component Constructive Trng</i>	-	8.256	7.829	16.806	-	16.806	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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.

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

	FY 2020	FY 2021	FY 2022
<p>Title: Improve JLCCTC software models to comply with emerging Common Operating Environment (COE)/Computing Environment (CE) requirements.</p> <p>Description: Improve JLCCTC software models to comply with emerging COE/CE requirements.</p> <p>FY 2021 Plans: Will continue improvements of JLCCTC software models to include common overlay development/modifications in support of COE compliance/standards.</p> <p>FY 2022 Plans: Will continue improvements of JLCCTC software models to include common overlay development/modifications in support of COE compliance/standards.</p>	0.672	0.650	0.650
<p>Title: Improve JLCCTC software models to meet emerging Mission Command (MC) stimulation and Cyber Security requirements.</p> <p>Description: Improve JLCCTC software models to meet emerging Mission Command (MC) stimulation and Risk Management Framework (RMF)/Cyber Security requirements.</p> <p>FY 2021 Plans:</p>	0.800	0.800	0.800

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021		
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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
Continue to evolve JLCCTC to support emerging Mission Command requirements and fully comply with the Cyber Security/Risk Management Framework (RMF) requirement. FY 2022 Plans: Continue to evolve JLCCTC to support emerging Mission Command requirements and fully comply with the Cyber Security/Risk Management Framework (RMF) requirement.				
Title: Improve JLCCTC software models to meet emerging warfighter requirements for Concurrency of Commander and staff training (Battalion thru Theater Level). Description: Improve JLCCTC software models to meet emerging warfighter requirements for Concurrency of Commander and staff training (Brigade through Theater Level). FY 2021 Plans: Continue to evolve JLCCTC software models to support additional emerging requirements in support of Commander and staff warfighter training exercises through Theater level. FY 2022 Plans: Continue to evolve JLCCTC software models to support additional emerging requirements in support of Commander and staff warfighter training exercises through Theater level FY 2021 to FY 2022 Increase/Decrease Statement: Funding decrease from FY 2021 to FY 2022 is because of less emerging requirements.		4.531	2.834	2.321
Title: Government System Test and Evaluation for the Joint Land Component Constructive Training Capability (JLCCTC) Program. Description: Government System Test and Evaluation for the Joint Land Component Constructive Training Capability (JLCCTC). FY 2021 Plans: Conduct the v9.0 validation event (VE) and conduct system test events (Integration and Testing) in support of the JLCCTC v10.0 validation event (VE). FY 2022 Plans: Continue conducting JLCCTC v10.0 system test events (Integration and Testing) and verification. FY 2021 to FY 2022 Increase/Decrease Statement: Funding increase from FY 2021 to FY 2022 is due to additional integration events to test v10.0 capabilities.		1.731	1.651	1.701
Title: Government Program Management for the Joint Land Component Constructive Training Capability (JLCCTC) Program.		0.522	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Description: Supports Government program management, engineering, logistics, contracting support and continues operational evaluation support for JLCCTC.			
Title: Conduct Army Ground Model Analysis of Alternative	-	1.894	6.090
FY 2021 Plans: Start conducting Army ground model Analysis of Alternative (AoA) to interface with Joint simulation capability.			
FY 2022 Plans: Begin interfacing the Army ground model with the Joint simulation capability .			
FY 2021 to FY 2022 Increase/Decrease Statement: Increase in funding from FY 2021 to FY 2022 is due to beginning interfacing the Army ground model with the Joint simulation capability.			
Title: Constructive Terrain and Tools Development	-	-	5.244
FY 2022 Plans: 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.			
FY 2021 to FY 2022 Increase/Decrease Statement: Increase in funding from FY 2021 to FY 2022 is to execute SE Core No Fail Activities and integrate One World Terrain (OWT) data into JLCCTC runtime formats.			
Accomplishments/Planned Programs Subtotals	8.256	7.829	16.806

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

Line Item	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
• NA0103: <i>NSTD</i>	35.313	35.038	37.147	-	37.147	-	-	-	-	-	-
<i>COMMAND & CONTROL</i>											

Remarks

D. Acquisition Strategy

Proposals for new competitive contract were received on 14 August 2019 and proposals evaluation activities were completed by the team during February 2020. The new JLCCTC contract (with Base contract of 4 years and two-three year options) was awarded to Phoenix Logistics Inc. (PLI) (now Phoenix Defense) on 17 March 2020. Transition activities from incumbent Lockheed Martin) to new prime (Phoenix Logistics) have been completed. (Phoenix Defense) is progressing with activities under

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new contract. 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 every three years 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 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604742A / Constructive Simulation Systems Development				362 / Jnt Land Component Constructive Trng							
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
Program Management	Various	Various : Various	68.332	0.522	Oct 2019	-		-		-		-	Continuing	Continuing	Continuing
SBIR/STTR Transfer	TBD	PEO STRI : Orlando, FL	0.843	-		-		-		-		-	0.000	0.843	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	-		-		0.000		-		0.000	-	-	-
Subtotal			69.175	0.522		-		0.000		-		0.000	Continuing	Continuing	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
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	6.887	4.531	Jan 2020	2.834	Dec 2020	2.321	Dec 2021	-		2.321	Continuing	Continuing	Continuing
MC Systems Stimulation and Cyber Security	C/CPFF	Phoenix Logistics, Inc. : Orlando, FL	7.532	0.800	Jan 2020	0.800	Dec 2020	0.800	Dec 2021	-		0.800	Continuing	Continuing	Continuing
COE Compliance	C/CPFF	Phoenix Logistics, Inc. : Orlando, FL	5.068	0.672	Jan 2020	0.650	Dec 2020	0.650	Dec 2021	-		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	6.090	Dec 2021	-		6.090	Continuing	Continuing	Continuing
Constructive Terrain and Tools Development	C/CPFF	TBD : Orlando, FL	-	-		-		5.244	Dec 2021	-		5.244	Continuing	Continuing	Continuing
Subtotal			93.604	6.003		6.178		15.105		-		15.105	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 362 / <i>Jnt Land Component Constructive Trng</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
JLCCTC Version 9.0 System Engr / Develop / I&T / Validation	Version 9.0																											
JLCCTC Version 9.0 Release									 JLCCTC V9.0 Release																			
JLCCTC Version 10.0 System Engr / Develop / I&T / Validation													Version 10.0															
JLCCTC Version 10.0 Release																	 JLCCTC V10.0 Release											
JLCCTC Integration into LVC-IA / CTC-IS	LVC-IA and CTC-IS Integration																											
JLCCTC Version 11.0 Sys Engr/ Develop/ I&T/ Validation																	Version 11.0											

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604742A / <i>Constructive Simulation Systems Development</i>	Project (Number/Name) 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	4	2021	4	2021
JLCCTC Version 10.0 System Engr / Develop / I&T / Validation	3	2021	3	2024
JLCCTC Version 10.0 Release	4	2024	4	2024
JLCCTC Integration into LVC-IA / CTC-IS	1	2014	4	2026
JLCCTC Version 11.0 Sys Engr/ Develop/ I&T/ Validation	3	2023	3	2027
JLCCTC Version 11.0 Release	4	2027	4	2027