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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training Devices - Eng Dev							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	29.206	44.787	18.980	-	18.980	32.481	28.392	23.631	21.898	Continuing	Continuing
241: Nstd Combined Arms	-	24.144	39.614	15.940	-	15.940	29.422	25.492	19.729	18.688	Continuing	Continuing
573: Program Executive Office Simulation, Training Spt	-	5.062	5.173	3.040	-	3.040	3.059	2.900	3.902	3.210	Continuing	Continuing
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
^{##} The FY 2014 OCO Request will be submitted at a later date												
Note												
Funds were realigned to higher priority requirements.												
A. Mission Description and Budget Item Justification												
Program Element funds development of Non-System Training Devices to support force-on-force training at the Combat Training Centers (CTC), general military training, and training on more than one item/system, as compared with system devices which are developed in support of a specific item/weapon system. Training devices and training simulations contribute to the modernization of the forces by enabling and strengthening combat effectiveness through realistic training solutions for the Warfighter. Training devices maximize the transfer of knowledge, skills, and experience from the training situation to a combat situation. Force-on-force training at the National Training Center (NTC), Ft. Irwin, CA; Joint Readiness Training Center (JRTC), Ft. Polk, LA, and Joint Multinational Readiness Center (JMRC), formerly the Combat Maneuver Training Center (CMTC), Hohenfels, Germany; and battle staff training in Battle Command Training Program (BCTP) provide increased combat readiness through realistic collective training in low, mid, and high intensity scenarios. Project 241, Non-System Training Devices-Combined Arms, develops simulation training devices for Army-wide use, including the CTCs. Project 573 funds key organizational support to Army/DoD Transformation via innovative simulation and training device efforts. Program Executive Office (PEO) Simulation, Training and Instrumentation (STRI's) unique geographic co-location with other services facilitates joint training solutions in a common environment.												
FY 2014 Project 241 funds significant development efforts on the Combat Training Center Instrumentation Systems (CTC-IS), Live, Virtual, Constructive Integrating Architecture (LVC-IA), Engagement Skills Trainer 2000 (EST 2000), Medical Simulation Training Center (MSTC), One Tactical Engagement Simulation System (OneTESS), and further implementation of Live Training Transformation (LT2) through development of the Common Training Instrumentation Architecture (CTIA).												
FY 2014 Project 573 will provide for minimum PEO STRI core operations supporting development of training devices and simulations by PEO STRI's four Project Management Offices.												

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
2040: Research, Development, Test & Evaluation, Army		PE 0604715A: Non-System Training Devices - Eng Dev			
BA 5: System Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	29.981	44.787	33.504	-	33.504
Current President's Budget	29.206	44.787	18.980	-	18.980
Total Adjustments	-0.775	0.000	-14.524	-	-14.524
• Congressional General Reductions	-0.007	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.768	-			
• Adjustments to Budget Years	-	-	-14.524	-	-14.524

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training Devices - Eng Dev				PROJECT 241: Nstd Combined Arms			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
241: Nstd Combined Arms	-	24.144	39.614	15.940	-	15.940	29.422	25.492	19.729	18.688	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
This project supports development of prototype training devices to support Combined Arms (Infantry, Armor, Aviation, Air Defense, Artillery, Engineer, Chemical, and Support troops) training and multi-system training within the Army, to include the Reserve Components.												
Common Training Instrumentation Architecture (CTIA) provides the common product-line architecture, product line software, standards, services, and architecture framework for developing the Live Training Transformation (LT2) Product Line of live training systems supporting Army-wide live instrumented Force-On-Force (FOF) and Force-On-Target (FOT) training requirements and is the core live architecture for the Live, Virtual, Constructive Integrated Training Environment (LVC-ITE).												
Combat Training Center Instrumentation System (CTC-IS) funds the continued development of the existing Instrumentation Systems (IS) at the National Training Center (NTC), Joint Readiness Training Center (JRTC) and Joint Multinational Readiness Center (JMRC). Also, CTC-IS funds the continued development of the Range Communication System at the NTC and JRTC, to provide high-fidelity live, virtual, and constructive brigade training rotations which prepare Brigade Combat Teams, Joint partners, and supporting units to deploy in support of Army Force Generation (ARFORGEN). CTC-IS develops new data communications systems increasing tracking accuracy and coverage at the CTCs to provide greater training fidelity to training units.												
The Medical Simulation Training Center (MSTC) program provides a standardized, combat medical training capability to sustain and validate Combat Medic skills and to support Combat Lifesaver training for Active, Reserve and the Army National Guard components, using both classroom and simulated battlefield conditions to better prepare Soldiers for the application of medical interventions under combat conditions. Each MSTC system is made up of sub-systems that include the Virtual Patient System (VPS), Instruction Support System (ISS) and facility, Medical Training-Command and Control (MT-C2), and the Medical Training Evaluation System (MTES).												
The Engagement Skills Trainer (EST) is a virtual, small arms, marksmanship training simulator for teams and squads with a standard mix of light, heavy and crew-served weapons used in Overseas Contingency Operations (OCO) and support of Unified Land Operations (ULO). The EST provides training for individual marksmanship, small unit collective gunnery skills and tactical training. It incorporates judgmental use of force, including escalation of force and graduated response scenarios. As the only validated and accredited virtual small arms training system, the EST is a critical element of the U.S. Army's gated marksmanship training strategy.												
The Live, Virtual, Constructive Integrating Architecture (LVC-IA) provides a net-centric linkage that collects, retrieves and exchanges data among existing Training Aids, Devices, Simulations, and Simulators (TADSS) and Mission Command Systems (Joint and Army). The LVC-IA defines the "how" information is exchanged among the												

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training Devices - Eng Dev	PROJECT 241: Nstd Combined Arms		
different LVC domains and the Mission Command Systems. The LVC-IA provides enterprise level tools for exercise control, after action review, and system information assurance. It also provides hardware and software to interface the different Live, Virtual and Constructive communication protocols and provides a correlated common operating picture for the training audience on their organic Mission Command equipment. The integration of the Live, Virtual, and Constructive TADSS with the Mission Command equipment will enable larger, more robust training events better preparing U.S. Soldiers for their missions at an overall reduced cost. The end-state goal is an LVC Integrated Training Environment that can approximate Operational Environments in a cost effective manner to provide a high level of value-added training and mission rehearsal opportunities to Army Commanders and their Soldiers. One Tactical Engagement Simulation System (OneTESS) develops a live, precision, combined arms Force-on-Force Indirect Fire training capability for Brigade and below exercises at Homestation, Maneuver Combat Training Centers and deployed sites. OneTESS will provide realistic, real-time casualty effects for Force-on-Force tactical engagement training scenarios and the capability to integrate into training instrumentation systems to provide for high fidelity combined arms combat exercises. It is interoperable with current and future Instrumentable-Multiple Integrated Laser Engagement System (I-MILES) Line of Sight (LOS) laser based systems. Integration and Interoperability (I2) integrates activities and products of current programs of record across the entire PEO STRI portfolio. I2 baselines persistent interoperability in PEO fielded systems, addresses current issues to facilitate interoperability, institutionalizes a common products/product line management approach and standards/policies across training/test, non-system/system and modeling and simulation domains. FY 2014 Project 241 funds significant development efforts on the Combat Training Center Instrumentation Systems (CTC-IS), Live, Virtual, Constructive Integrating Architecture (LVC-IA), Engagement Skills Trainer (EST), Medical Simulation Training Center (MSTC), One Tactical Engagement Simulation System (OneTESS), and further implementation of Live Training Transformation (LT2) through development of the Common Training Instrumentation Architecture (CTIA).				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Common Training Instrumention Architecture (CTIA) program.		1.882	1.681	0.873
Articles:		0	0	
Description: Continue EMD phase contract activities for the CTIA program to provide the common architecture capabilities.				
FY 2012 Accomplishments: Continued development of CTIA to provide the common architecture capabilities that are essential for development, fielding, technology and capability insertion for Live Training Systems (LTS) to include: the Combat Training Centers-Instrumentation Systems (CTC-IS), Integrated Military Operations in Urbanized Terrain Training System (IMTS), Home Station Instrumentation Systems (HITS), Digital Ranges Training System (DRTS) training instrumentation programs and the Live, Virtual, Constructive-Integrated Training Environment (LVC-ITE) interoperability initiatives.				
FY 2013 Plans: Continue development of CTIA to provide the common architecture capabilities that are essential for development, fielding, technology and capability insertion for Live Training Systems (LTS) to include: the Combat Training Centers-Instrumentation				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Systems (CTC-IS), Integrated Military Operations in Urbanized Terrain Training System (IMTS), Home Station Instrumentation Systems (HITS), Digital Ranges Training System (DRTS) training instrumentation programs and the Live, Virtual, Constructive-Integrated Training Environment (LVC-ITE) interoperability initiatives.			
FY 2014 Plans: Continue development of CTIA to provide the common architecture capabilities that are essential for development, fielding, technology and capability insertion for Live Training Systems (LTS) to include: the Combat Training Centers-Instrumentation Systems (CTC-IS), Integrated Military Operations in Urbanized Terrain Training System (IMTS), Home Station Instrumentation Systems (HITS), Digital Ranges Training System (DRTS) training instrumentation programs and the Live, Virtual, Constructive-Integrated Training Environment (LVC-ITE) interoperability initiatives.			
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Combat Training Center Instrumentation System (CTC-IS).		4.660	14.023
Articles:		0	0
Description: Continue EMD phase contract activities for the CTC-IS.			
FY 2012 Accomplishments: Combat Training Center Instrumentation System (CTC-IS) funded the continued development of the existing Instrumentation Systems (IS) at the National Training Center (NTC), Joint Readiness Training Center (JRTC) and Joint Multinational Readiness Center (JMRC). Funding was also used to begin to develop a common Range Communications System (RCS) that can be implemented at all three Combat Training Centers for increased entity tracking coverage and accuracy in order to increase After Action Review fidelity for Brigade Combat Team rotations to better prepare units for deployment.			
FY 2013 Plans: Combat Training Center Instrumentation System (CTC-IS) funds the continued development of the existing Instrumentation Systems (IS) at the National Training Center (NTC), Joint Readiness Training Center (JRTC) and Joint Multinational Readiness Center (JMRC). Funding is also being used to develop a common Range Communications System (RCS) that can be implemented at all three Combat Training Centers for increased entity tracking coverage and accuracy in order to increase After Action Review fidelity for Brigade Combat Team rotations to better prepare units for deployment.			
FY 2014 Plans: Combat Training Center Instrumentation System (CTC-IS) will fund the continued development of the existing Instrumentation Systems (IS) at the National Training Center (NTC), Joint Readiness Training Center (JRTC) and Joint Multinational Readiness Center (JMRC). Funding will be used to develop a common Range Communications System (RCS) that can be implemented at			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
all both NTC and JRTC for increased entity tracking coverage and accuracy in order to increase After Action Review fidelity for Brigade Combat Team rotations to better prepare units for deployment.				
Title: Government Program Management for the Combat Training Center Instrumentation System (CTC-IS) program. Articles: Description: Government Program Management for the CTC IS program. FY 2012 Accomplishments: Program Management for the Combat Training Center Instrumentation System (CTC-IS) program. FY 2013 Plans: Program Management for the Combat Training Center Instrumentation System (CTC-IS) program. FY 2014 Plans: Program Management for the Combat Training Center Instrumentation System (CTC-IS) program.		0.542 0	1.230 0	1.358
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Homestation Instrumentation Training System (HITS) program. Articles: Description: EMD phase contract activities for the HITS program. FY 2012 Accomplishments: Developed, integrated, and tested new and upgraded software capabilities for the Home Station Instrumentation Training System (HITS). These capabilities upgraded the operating system to Windows 7 and Microsoft Server 2008 and the associated applications into a new HITS baseline version 3.0. This software upgrade was critical to sustaining a training system based on COTS software, and for maintaining Information Assurance accreditation. FY 2013 Plans: Integrate, and test Synthetic Environment Core (SE Core) into the Home Station Instrumentation Training System (HITS) Exercise Control (EXCON) to establish a common terrain database among all components within the Live, Virtual, and Constructive Integrated Training Environment. The HITS Capabilities Production Document (CPD) requires the integration of SECore. Develop, integrate, and test the OneTESS Mortar interface with the HITS EXCON to expand the scope of provided instrumentated training to mortar teams and platoons.		0.688 0	0.963 0	0.000
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Medical Simulation Training Center (MSTC). Articles:		1.295 0	0.815 0	0.000

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Description: EMD phase contract activities for the MSTC program. FY 2012 Accomplishments: Development within the Virtual Patient System (VPS) of an effective Tetherless Mannequin (TLM). Developed Virtual Patient training capability and a Medical Training Evaluation System (MTES). MTES will have capability to use Army Knowledge Online to access the training and interoperate with the Virtual Patient System. Developed mobile training capability to support remote site training. FY 2013 Plans: Development of the Instructor Support System (ISS - TADSS Application) to incorporate new injuries and part task trainers and to improve existing part task trainers. Development of ISS (Trauma Immersion) for the use of immersive, virtual, medical environments. Development of Medical Simulation Training Center (Mobile) for the capability to stand up a mobile training center in remote locations. Enhancement of Virtual Patient System (VPS) Tetherless Mannequin to implement autonomous casualty system technology. Develop multi-lingual, voice recognition, haptic enabled, artificial intelligence (AI) capabilities, and open architecture for other systems and applications to interface with MSTC systems.				
Title: Government Program Management for the Medical Simulation Training Center (MSTC) program. Articles: Description: Government Program Management for the MSTC program. FY 2012 Accomplishments: Program management costs associated with the FY12 Medical Training Evaluation System (MTES) system. FY 2013 Plans: Program management costs associated with the FY13 Medical Simulation Training Center (MSTC) development efforts. FY 2014 Plans: Research management costs associated with Instructor Support System (ISS) development efforts for the FY14 Medical Simulation Training Center (MSTC) program.		0.191 0	0.220 0	0.075
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Engagement Skills Trainer (EST) program. Articles: Description: EMD phase contract activities for the Engagement Skills Trainer (EST) program. FY 2013 Plans:		0.000	0.993 0	0.800

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Integrate an EST prototype of the AN/PEQ 15-A Laser Aiming Device. The AN/PEQ 15-A offers exceptional functionality in the field for maximum visibility. Operators can easily switch between the visible laser, IR laser, IR illuminator or a combination of both laser and illuminator. Ideal for special operations or covert missions, the DBAL-A2 ensures performance in the toughest conditions and situations. Fielded in Iraq, Afghanistan and by multiple law enforcement agencies, the DBAL-A2 is setting a higher standard for aiming lasers. EST prototyping of the M145 Machine Gun Optic. The M145 Machine Gun Optic (MGO), a variant of the C79 optical scope, is a small arms scope manufactured by ELCAN Optical Technologies with 3.4x28 magnification. It was developed for the U.S. Army and is commonly mounted on M240 and M249 machine guns. The reticle is illuminated by a battery-powered LED with varying intensity settings. FY 2014 Plans: Develop EST Dynamic Terrain to accurately portray all battlefield effects, in accordance with the Contemporary Operating Environment (COE), across the full range of military operations including: friendly and enemy forces and their doctrine, tactics, techniques and procedures; all military recognized terrain; atmospheric and weather conditions; specific enemy and friendly vehicles and equipment; dynamic, correlated terrain; the effects of munitions on personnel, vehicles, structures; and develop prior years efforts (weapons, optics, etc). Develop enhanced capabilities in accordance with the capability manager's priorities.				
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Live, Virtual, Constructive Integrating Architecture (LVC-IA) program. Articles: Description: Continue EMD phase contract activities for the LVC-IA program. FY 2012 Accomplishments: Completed system development, integration and demonstration of Live, Virtual, Constructive Integrated Archiectecture (LVC-IA) Version 1 capability. FY 2013 Plans: Begin system development and perform design, development, integration and demonstration of the Live, Virtual, Constructive Integrating Architecture (LVC-IA) Version 2 capability. FY 2014 Plans: Complete system development, integration and demonstration of Live, Virtual, Constructive Integrating Architecture (LVC-IA) Version 2 capability.		5.897 0	6.264 0	6.211
Title: Government Program Management for the Live, Virtual, Constructive Integrating Architecture (LVC-IA) program. Articles: Description: Government Program Management for the LVC-IA program.		1.068 0	1.127 0	1.240

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: The Government Program Management Office for LVC-IA supported the engineering and manufacturing development phase. Funding supported manpower, facilities, training, operations and maintenance and other infrastructure.				
FY 2013 Plans: The Government Program Management Office for LVC-IA supports the engineering and manufacturing development phase. Funding supports manpower, facilities, training, operations and maintenance and other infrastructure.				
FY 2014 Plans: The Government Program Management Office for LVC-IA will support the engineering and manufacturing development phase of LVC-IA Version 2. Funding supports manpower, facilities, training, operations and maintenance and other infrastructure.				
Title: Government System Test and Evaluation for the Live, Virtual, Constructive Integrating Architecture (LVC-IA) program. Articles:		0.923 0	0.961 0	1.000
Description: Government System Test and Evaluation for the LVC-IA program.				
FY 2012 Accomplishments: LVC-IA continued integration testing support on developed components for LVC-IA for inter-operability with TADSS and other Mission Command Systems. Conducted FIE, FV & system measurement of performance (SMP) events for LVC-IA Build 2. Completed Test Readiness Review (TRR) as well as Government Acceptance Testing (GAT).				
FY 2013 Plans: LVC-IA continues test support on the engineering and manufacturing development phase for Version 2. Will also support integration testing on developed components for LVC-IA with other Mission Command Systems and LVC Training Aids. Conduct federation integration event (FIE) and functional verification (FV) events for LVC-IA.				
FY 2014 Plans: LVC-IA continues integration testing support on developed components for LVC-IA for interoperability with TADSS and other Mission Command Systems. LVC-IA will conduct Federation Integration, Functional Verification and system measurement of performance (SMP) events, complete Test Readiness Review (TRR) and Government Acceptance Testing for Version 2.				
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the Target Modernization program. Articles:		1.586 0	1.466 0	0.000
Description: EMD phase contract activities for the Target Modernization program.				
FY 2012 Accomplishments:				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Target Modernization continued development of target system technologies which provided enhanced realism (look and behavior), threat/friend identification, and training performance feedback mechanisms. FY 2013 Plans: Target Modernization continues development of target system technologies which provide enhanced realism (look and behavior), threat/friend identification, and training performance feedback mechanisms.				
Title: Government Program Management for the Target Modernization program. Description: Government Program Management for Target Modernization. FY 2012 Accomplishments: Program Management for the Target Modernization program. FY 2013 Plans: Program Management for the Target Modernization program.		0.178 0 Articles:	0.262 0	0.000
Title: Engineering and Manufacturing Development (EMD) phase contract activity for the One Tactical Engagement Simulation System (OneTESS) program. Description: Continue EMD phase contract activities for the OneTESS program FY 2012 Accomplishments: Continued development of OneTESS capability for Real Time Casualty Assessment (RTCA). Performed Developmental Test (DT) efforts that supported the training and testing communities into systems under development. FY 2013 Plans: Begin development of the Increment 2 effort (Fire Control Platforms for Stryker Brigade Combat Teams (SBCT) and/or Heavy Brigade Combat Teams (HBCT)). FY 2014 Plans: Perfrom Operational Test, complete procurement of Technical Data Package (TDP) in support of a Milestone C Decision.		3.820 0 Articles:	8.158 0	1.494
Title: Government Program Management for the One Tactical Engagement Simulation System (OneTESS) program. Description: Government Program Management for the One Tactical Engagement Simulation System (OneTESS) program.		1.414 0 Articles:	0.339 0	0.342

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Government Program Management for the One Tactical Engagement Simulation System (OneTESS) program.											
FY 2013 Plans: Government Program Management for the One Tactical Engagement Simulation System (OneTESS) program.											
FY 2014 Plans: Government Program Management for the OneTactical Engagement Simulation System (OneTESS) program.											
Title: Development Activity for the Integration and Interoperability (I2) Program. Articles:									0.000	0.978 0	0.000
Description: Development of the I2 Program.											
FY 2013 Plans: Document capabilities (intra and inter domain) and user capability events. Formalize the interoperability documentation and identify limitations/interoperability issues needing resolution, assess opportunities for capability expansion, develop time-phased and cost estimated interoperability execution plan and ensure proposals for enhancement are in sync with the plan. Identify/ institutionalize a set of common components, integrate common capabilities, and develop baseline management processes for the common components. Identify target/programs (non-system, system, other) that can benefit from and share the cost of systematic re-use of common components.											
Title: Government Program Management for the Integration and Interoperability (I2) Program. Articles:									0.000	0.134 0	0.000
Description: Government Program Management for the I2 Program.											
FY 2013 Plans: Program management costs associated with the FY13 I2 efforts.											
Accomplishments/Planned Programs Subtotals									24.144	39.614	15.940
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• Training Devices, Non-System: Training Devices, Non-System	180.892	152.501	225.200		225.200	186.955	197.014	164.867	121.829	Continuing	Continuing
• CTC Support: CTC Support	46.117	111.649	121.710		121.710	124.480	82.690	84.523	133.368	Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	<u>Total Cost</u>
Remarks											
D. Acquisition Strategy											
Competitive development efforts based on performance specifications.											
E. Performance Metrics											
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
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2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)						PE 0604715A: Non-System Training Devices - Eng Dev				241: Nstd Combined Arms					
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OneTESS Program Management	Various	PEO STRI:Orlando, FL	8.046	-		-		-		-		-	0.000	8.046	8.046
OneTESS Program Management	Various	PEO STRI,:Orlando, FL	0.000	1.414	Dec 2011	0.339	Dec 2012	0.342	Dec 2013	-		0.342	Continuing	Continuing	Continuing
CTC-IS Program Management	Various	PEO STRI:Orlando, FL	0.879	0.542	Dec 2011	1.230	Dec 2012	1.358	Dec 2013	-		1.358	Continuing	Continuing	Continuing
HITS Program Management	Various	PEO STRI:Orlando, FL	0.400	-		-		-		-		-	0.000	0.400	0.400
MSTC Program Management	Various	PEO STRI:Orlando, FL	0.191	0.191	Dec 2011	0.220	Dec 2012	0.075	Dec 2013	-		0.075	Continuing	Continuing	Continuing
EST Program Management	Various	PEO STRI:Orlando, FL	0.214	-		-		-		-		-	0.000	0.214	0.000
LVC-IA Program Management	Various	PEO STRI:Orlando, FL	2.098	1.068	Dec 2011	1.127	Dec 2012	1.240	Dec 2013	-		1.240	Continuing	Continuing	Continuing
Integration and Interoperability	Various	PEO STRI:Orlando, FL	0.000	-		0.134	Oct 2012	-		-		-	Continuing	Continuing	Continuing
Target Modernization	Various	PEO STRI:Orlando, FL	0.273	0.178	Dec 2011	0.262	Dec 2012	-		-		-	0.000	0.713	0.714
ETC-IS Program Management	Various	PEO STRI:Orlando, FL	0.164	-		-		-		-		-	0.000	0.164	0.164
Subtotal			12.265	3.393		3.312		3.015		0.000		3.015			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OneTESS	SS/CPFF	General Dynamics:Fairfax, VA	124.769	-		-		-		-		-	0.000	124.769	124.769
OneTESS	SS/CPFF	General Dynamics C4 Systems:Orlando, FL 32826	0.000	3.278	Dec 2011	8.158	Dec 2012	0.494	Dec 2013	-		0.494	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604715A: <i>Non-System Training Devices - Eng Dev</i>						PROJECT 241: <i>Nstd Combined Arms</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CTIA	C/CPFF	Lockheed Martin Inc.:Orlando, FL	57.091	-		-		-		-		-	0.000	57.091	57.091
CTIA	SS/CPFF	TBS:TBS	1.585	-		-		-		-		-	0.000	1.585	4.886
CTIA	C/CPFF	General Dynamics C4 Systems:Orlando, FL	1.661	1.516	Dec 2011	1.288	Dec 2012	0.455	Dec 2013	-		0.455	Continuing	Continuing	Continuing
CTC-IS	C/FFP	Northrop Grumman Technical Services:Herndon, VA	8.806	4.660	May 2012	14.023	May 2013	2.547	May 2014	-		2.547	Continuing	Continuing	Continuing
HITS	C/FFP	Riptide:Orlando, FL	1.379	-		-		-		-		-	0.000	1.379	1.379
HITS	C/IDIQ	General Dynamics C4 Systems:Orlando, FL 32826	0.000	0.688	May 2012	0.963	May 2013	-		-		-	0.000	1.651	1.651
MSTC Development	C/FP	Multiple:Various	0.732	1.295	May 2012	0.815	Jan 2013	-		-		-	Continuing	Continuing	Continuing
EST Development	SS/FP	TBD:Various	1.528	-		-		-		-		-	Continuing	Continuing	Continuing
EST PEQ-15A	C/FP	TBS:TBD	0.000	-		0.993	Jan 2013	-		-		-	0.000	0.993	0.000
EST Enhanced Capabilities	C/FFP	TBS:TBD	0.000	-		-		0.800	Jan 2014	-		0.800	0.000	0.800	0.000
LVC-IA Development	C/CPAF	Cole Engineering Services, Inc:Various	11.309	5.897	Dec 2011	6.264	Jun 2013	6.211	Jun 2014	-		6.211	Continuing	Continuing	Continuing
Integration and Interoperability	TBD	PEO STRI:Orlando, FL	0.000	-		0.978	Jun 2013	-		-		-	0.000	0.978	0.978
Target Modernization	C/CPFF	General Dynamics C4 Systems:Orlando, FL	2.136	1.532	Dec 2011	1.410	Dec 2012	-		-		-	0.000	5.078	5.078
Congressional Add Center of Excellence for Military Operations in Urban Terrain and Cultural Trn	C/FP	Multiple:Various	2.996	-		-		-		-		-	0.000	2.996	2.996
ETC-IS	SS/CPFF	General Dynamics C4 Systems:Orlando, FL 32826	4.836	-		-		-		-		-	0.000	4.836	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604715A: <i>Non-System Training Devices - Eng Dev</i>						PROJECT 241: <i>Nstd Combined Arms</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			218.828	18.866		34.892		10.507		0.000		10.507			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OneTESS	Various	Various:Orlando, FL	6.596	-		-		-		-		-	0.000	6.596	6.596
OneTESS	Various	Various:Various	0.000	0.262	Dec 2011	-		-		-		-	0.000	0.262	0.262
CTIA	Various	Various:Various	11.392	0.366	Dec 2011	0.393	Dec 2012	0.418	Dec 2013	-		0.418	Continuing	Continuing	Continuing
Target Modernization	Various	Various:Various	0.082	0.054	Dec 2011	0.056	Dec 2012	-		-		-	0.000	0.192	0.192
Subtotal			18.070	0.682		0.449		0.418		0.000		0.418			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OneTESS Development & Test	Various	Multiple:Orlando, FL	4.162	-		-		-		-		-	0.000	4.162	4.162
OneTESS Test Support	Various	Multiple:Orlando, FL	0.000	0.280	Dec 2011	-		1.000	Dec 2013	-		1.000	Continuing	Continuing	Continuing
HITS	Various	Various:Orlando, FL	0.740	-		-		-		-		-	0.000	0.740	0.740
LVC-IA Test Support	Various	Multiple:Orlando, FL	1.285	0.923	Dec 2011	0.961	Dec 2012	1.000	Dec 2013	-		1.000	Continuing	Continuing	Continuing
IEDES	Various	Multiple:Orlando, FL	0.519	-		-		-		-		-	0.000	0.519	0.519
Subtotal			6.706	1.203		0.961		2.000		0.000		2.000			
Project Cost Totals			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
			255.869	24.144		39.614		15.940		0.000		15.940			
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604715A: Non-System Training Devices - Eng Dev					PROJECT 241: Nstd Combined Arms	

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
OneTESS MS C																												
HITS Development																												
MSTC MTES Development																												
MSTC System Developments																												
EST PEQ-15A																												
EST Enhanced Capabilities																												
LVC-IA - Version 2																												
LVC-IA - Version 3																												
LVC-1A - Version 4																												
I2 Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604715A: <i>Non-System Training</i> <i>Devices - Eng Dev</i>	PROJECT 241: <i>Nstd Combined Arms</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
OneTESS MS C	3	2014	3	2014
HITS Development	3	2012	4	2018
MSTC MTES Development	3	2012	1	2014
MSTC System Developments	2	2013	4	2015
EST PEQ-15A	2	2013	1	2015
EST Enhanced Capabilities	2	2014	4	2018
LVC-IA - Version 2	1	2013	4	2014
LVC-IA - Version 3	1	2015	4	2016
LVC-1A - Version 4	1	2017	4	2018
I2 Development	1	2013	4	2013

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>					R-1 ITEM NOMENCLATURE PE 0604715A: <i>Non-System Training Devices - Eng Dev</i>				PROJECT 573: <i>Program Executive Office Simulation, Training Spt</i>			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
573: <i>Program Executive Office Simulation, Training Spt</i>	-	5.062	5.173	3.040	-	3.040	3.059	2.900	3.902	3.210	Continuing	Continuing
Quantity of RDT&E Articles												
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 ^{##} The FY 2014 OCO Request will be submitted at a later date												
Note												
A. Mission Description and Budget Item Justification In support of Non-System Training Devices (NSTD), this project funds the US Army Program Executive Officer Simulation, Training and Instrumentation (PEO STRI) core operations supporting development of training devices and simulations by PEO STRI project managers (PM TRADE, PM ITTS, PM CATT, and PM Constructive Simulation) FY 2014 funds labor in support of PEO operations.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Government Program Management to support PEO STRI. Articles: Description: Government Program Management to support PEO STRI. FY 2012 Accomplishments: Government Program Management to support PEO STRI labor for project managers in PM TRADE, PM ITTS, PM CATT, and PM Constructive Simulation. FY 2013 Plans: Government Program Management to support PEO STRI labor for project managers in PM TRADE, PM ITTS, PM CATT, and PM Constructive Simulation. FY 2014 Plans: Government Program Management to support PEO STRI labor for project managers in PM TRADE, PM ITTS, PM CATT, and PM Constructive Simulation.										5.062 0	5.173 0	3.040
Accomplishments/Planned Programs Subtotals										5.062	5.173	3.040

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604715A: <i>Non-System Training</i> <i>Devices - Eng Dev</i>	PROJECT 573: <i>Program Executive Office Simulation,</i> <i>Training Spt</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604715A: <i>Non-System Training Devices - Eng Dev</i>						PROJECT 573: <i>Program Executive Office Simulation, Training Spt</i>			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Program Management- PEO STRI	Various	PEO STRI:Orlando, FL	4.275	5.062	Dec 2011	5.173	Dec 2012	3.040	Dec 2013	-		3.040	Continuing	Continuing	Continuing
Government Program Management - BCT-M	Various	PEO STRI:Orlando, FL	0.394	-		-		-		-		-	0.000	0.394	0.394
Subtotal			4.669	5.062		5.173		3.040		0.000		3.040			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			4.669	5.062		5.173		3.040		0.000		3.040			
Remarks															