Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 6: RDT&E

PE 0605326A I Concepts Experimentation Program

Date: February 2015

Management Support

Appropriation/Budget Activity

COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	21.563	19.430	19.430	-	19.430	33.788	30.722	29.055	58.595	-	-
312: Army/Joint Experimentation	-	5.599	2.454	0.506	-	0.506	0.514	0.521	0.532	0.548	-	-
317: Current Force Capability Gaps	-	14.096	15.862	17.265	-	17.265	31.736	28.639	26.939	56.435	-	-
33B: Soldier-Centered Analyses For Future Force	-	1.868	1.114	1.659	-	1.659	1.538	1.562	1.584	1.612	-	-

Note

Army

FY 2016 reduction attributed to realignment to other higher priority programs.

A. Mission Description and Budget Item Justification

Army Experimentation program supports current and future concepts and capabilities involving Soldiers and Leaders within live, virtual, and constructive environments of exploring concepts, capability requirements and solution across Doctrine, Organization, Training, Materiel, Leadership and Education, personnel, and Facilities (DOTMLPF) domains in order to learn and mitigate risk for current and future forces. Experiments inform Army future concepts and assess high-risk conceptual assumptions in order to focus required capabilities and represent the user's requirements in the future Army. Army experiments use the combined resources of Army battle laboratories, operational units, research labs, materiel developers, industry and academia to collaborate in the development, refinements, and assessment of future force concepts - to inform capability developments and validate concepts for current and future force. Due to significant reduction in funding, beginning in FY 2015, Research, Development, Test and Evaluation (RDT&E) funding will focus on Simulated Experiments (SIMEX) to integrate and assess Army Concepts, Force Designs phases, with Army level issues across the breadth of a campaign that highlights validation and integration of Force 2025 outcomes.

Training and Doctrine Command (TRADOC) lead for Accelerated Capability Developments (ACD) to address current critical operational needs. Enable development and deployment/employment of accelerated capabilities (both material and non-material) to the current force. Serve as TRADOC central coordinating organization for Headquarters Department of the Army (HQDA) staff support requirements related to accelerated capabilities developments. Integrate ACD activities to ensure unity and priority of effort and synchronization and optimization of resources. Integrate accelerated capabilities development activities between proponent force modernization domains to include Joint/Service coordination. Provide specialized capabilities development and integration at TRADOC Center of Excellence (CoE) Capabilities Development and Integration Directorates (CDIDs).

PE 0605326A: Concepts Experimentation Program

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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 6: RDT&E

PE 0605326A / Concepts Experimentation Program

Management Support

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	22.246	19.439	22.149	-	22.149
Current President's Budget	21.563	19.430	19.430	-	19.430
Total Adjustments	-0.683	-0.009	-2.719	-	-2.719
 Congressional General Reductions 	-	-0.009			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-0.683	-			
 Adjustments to Budget Years 	-	-	-2.719	-	-2.719

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2016 A	rmy							Date: Febr	uary 2015	
Appropriation/Budget Activity 2040 / 6						am Elemen 26A / Conce			Project (N 312 / Army		ne) rimentation	
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
312: Army/Joint Experimentation	-	5.599	2.454	0.506	-	0.506	0.514	0.521	0.532	0.548	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Army

Not applicable for this item.

A. Mission Description and Budget Item Justification

Army Experimentation program supports current and future concepts and capabilities involving Soldiers and Leaders within live, virtual, and constructive environments by exploring concepts, capability requirements and solutions across Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities (DOTMLPF) domains in order to learn and mitigate risk for current and future forces. Experiments inform Army future concepts and assess high-risk conceptual assumptions in order to focus required capabilities and represent the user's requirements in the future Army. Army experiments use the combined resources of Army battle laboratories, operational units, research labs, materiel developers, industry and academia to collaborate in the development, refinements, and assessment of future force concepts - to inform capability developments and validate concepts for current and future force. Due to significant reduction in funding, beginning in FY 2015, Research, Development, Test and Evaluation (RDT&E) funding will partially funds the Army's Simulated Experiment to integrate and assess Army Concepts, Force Designs, and Capabilities. Specifically the Army's tool to support Force 2025 and Beyond (F2025B) Maneuvers to develop, refine, and validate requisite Force 2025 and Beyond Concepts, Operational and Organizational Plans, and DOTMLPF solution to achieve the vision of the Army's Force in the near (2014-2020), mid (2020-2030) and far (2030-2040) terms.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Experimentation - World Class Blue Force (WCBLUFOR) Analysts	3.208	-	-
Description: Experimentation with future concepts requires commanders who understand those concepts, but military personnel are generally proficient in current doctrine, not future Army concepts. The WCBLUFOR bridge this gap with experienced commanders who are versed in future Army concepts. These subject matter experts provide technical and tactical expertise, play senior blue roles in experiments, develop orders, train and mentor staff, and provide analytic expertise. Requisite skill sets that are not available on our Table of Distribution and Allowances (TDA).			
FY 2014 Accomplishments: WCBLUFOR assisted and mentored planning, execution and evaluation of experiments supporting Army capstone, operational and functional concepts to provide credible incorporation of concepts into experiments. WCBLUFOR also supported analysis and coordination for the Army's Campaign of Learning - both what we have learned and what remains to be learned.			
Title: Experimentation - Maneuver Brigade Experiments	1.200	-	-

PE 0605326A: Concepts Experimentation Program

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: F	ebruary 2015	
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / Concepts Experimentation Program	Project (Number/Name) 312 I Army/Joint Experimentation		า
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
Description: Perform maneuver brigade experiments that will ad of future Infantry Bridgade Combat Team (IBCT), Stryker Bridgad (ABCT) capability Doctrine, Organization, Training, Materiel, Lead requirements and DOTMLPF solutions; and 3) acceleration and Teams (BCTs).	le Combat Team (SBCT), and Airborne Brigade Combat Teadership and Education, Personnel and Facilities (DOTMLPF)	am		
FY 2014 Accomplishments: Conducted experiments to address learning demands supporting informed the Integrated Learning Plan for each AWFC; specificall				
Title: Experimentation - High-Fidelity Live-Virtual-Constructive Ex	periments	1.191	2.454	0.50
Description: Experiments address concept and capability development of future Doctrine, Organization, Training, Materiel, requirements and solutions; and acceleration and integration of cabove brigade.	Leadership and Education, Personnel and Facilities (DOTM	LPF)		
FY 2014 Accomplishments: Experiments continued to address learning demands supporting operational and concepts; and Formation Based Analysis. Experdevelopments providing tangible insurance against acquisition fail	iments supported learning in order to mitigate risk to Soldier			
FY 2015 Plans: Simulated Experiments (SIMEX) become the focus to integrate a	nd assess Army Concepts, Force Designs, and Capabilities.			
FY 2016 Plans: Simulated Experiments (SIMEX) will become the focus to integrate to support of Force 2025B Maneuvers to develop, refine, and valiand Organizational Plans, and DOTMLPF solutions to achieve the (2020-2030), and far (2030-2040) terms.	date rerequisite Force 2025 and Beyond Concepts, Operation			
	Accomplishments/Planned Programs Sub	totals 5.599	2.454	0.50

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

Army

Remarks

PE 0605326A: Concepts Experimentation Program

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my	Date: February 2015
R-1 Program Element (Number/Name) PE 0605326A / Concepts Experimentation Program	Project (Number/Name) 312 I Army/Joint Experimentation
·	
	PE 0605326A / Concepts Experimentation

PE 0605326A: Concepts Experimentation Program Army

Exhibit R-2A, RDT&E Project J	ustification	: PB 2016 A	Army							Date: Febr	uary 2015	
Appropriation/Budget Activity 2040 / 6					_		t (Number/ epts Experin	,	Project (N 317 / Curre		n e) apability Ga _l	ps
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
317: Current Force Capability Gaps	-	14.096	15.862	17.265	-	17.265	31.736	28.639	26.939	56.435	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Army

Programs not funded in FY 2016: Counter Improvised Explosive Device Adapt the Force (AtF), Robotics, Tunnel Detection (TD), Exploitation, Non-Standard Training Gap Initiative, and Squad Dismounted Network Enabled.

New starts in FY 2016: Maneuver Fires Center Integration Exercise (MFIX) and Manned Unmanned Teaming Ground (MUM-T(G)).

Operational Energy is renamed Net Zero Expeditionary Base Camp in FY 2016.

Contractor Year Equivalent (CME) Support to TRADOC Capability Development and Integration Directorates (CDIDs) - CME positions were previously realigned and FY14-18 funds transferred from a variety of RDT&E programs (i.e., PEs: 0605805A-F21; 0604804A-L43; 0604601A-S61; 0604270A-VS6; 0203744A-D17; 0604798A-DV1; 0603778A-090; 0605625A-FC8) into 0605326A-317 during the FY 14 PRESBUD cycle.

A. Mission Description and Budget Item Justification

Training and Doctrine Command (TRADOC) lead for Accelerated Capability Developments (ACD) to address current critical operational needs. Enable development and deployment/employment of accelerated capabilities (both materiel and non-materiel) to the current force. Serve as TRADOC central coordinating organization for Headquarters Department of the Army (HQDA) staff support requirements related to accelerated capabilities developments. Integrate ACD activities to ensure unity and priority of effort and synchronization and optimization of resources. Integrate accelerated capabilities development activities between proponent force modernization domains to include Joint/Service coordination. Provide specialized capabilities development and integration at TRADOC Centers of Excellence (CoE) Capabilities Development and Integration Directorates (CDIDs).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
<i>Title:</i> Counter Improvised Explosive Device Adapt the Force (AtF) (formerly Improvised Explosive Device (IED) Integrated Concept Development Team (ICDT))	0.800	1.000	-
Description: The IED ICDT is responsible for conducting Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities (DOTMLPF) assessments; performs gap analyses identified by HQDA and Joint Urgent Operational Needs Statement (JUONS).			
FY 2014 Accomplishments:			

PE 0605326A: Concepts Experimentation Program

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: F	ebruary 2015	
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / Concepts Experimentation Program	Project (Number/ 317 / Current Forc	aps	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
Led the Adapt the Force efforts under Army Counter-IED (CIED) Stra CIED database and resolution of DOTMLPF issues associated with i coordination and facilitating IED-Defeat Council of Colonels and Gen directives for Army-wide IED-Defeat Training initiative and systems. all CIED Lines of Effort.	ntegration of various CIED initiatives. Was responsible teral Officer Steering Committees producing guidance are	nd		
FY 2015 Plans:		OIED		
Lead the Adapt the Force efforts under Army Counter-IED (CIED) St database and resolution of DOTMLPF issues associated with integra and facilitating IED-Defeat Council of Colonels and General Officer S Army-wide IED-Defeat Training initiative and systems. Support TRAI of Effort.	ation of various CIED initiatives. Responsible for coordin Steering Committees producing guidance and directives	ation for		
Title: Operational Energy (formerly Demo/Assess Operational Power	r and Energy)	3.000	1.000	
Description: Funding is needed for Operational Power and Energy				
FY 2014 Accomplishments: Continued acceleration of Operational Energy initiative for remote Continued acceleration of Operational Energy initiative for remote Continued acceleration of Operational Energy initiative for remote Continued Energy provided the warfighter with increased levels of agility, flexibility environment. Operational energy solutions approach extended combined uninterrupted and optimal energy to systems within the mission energy demand. Phased two of a multi-phased approach, which supsolutions. This approach ensured that designs identified and address the necessary employment guidance and assessed impacts on operations.	lity, and interoperability when operating in the expedition bat and tactical system's mission endurance and resilien sion command network, and mitigate force risk by reducit operational energy sed effects on the force when delivering solutions, provided	ary ce, ng /		
FY 2015 Plans: Continue acceleration of Operational Energy initiative for remote Cor Energy provides the warfighter with increased levels of agility, flexibil environment. Operational energy solutions approach extends comba ensure uninterrupted and optimal energy to systems within the missic energy demand. Phase two of multi-phased approached supports de require a system-of-systems engineering approach. This approach when delivering solutions provide necessary employment guidance as	lity, and interoperability when operating in the expedition at and tactical systems' mission endurance and resilienc on command network, and mitigate force risk by reducin evelopment of integrated operational energy solutions, we ensures that designs identify and address effects on the	ary e, g hich		
Title: Army Expeditionary Warrior Experiment (AEWE) (formerly Pro	totype Solution Demonstrations)	0.760	1.000	0.1

PE 0605326A: Concepts Experimentation Program Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	5
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / Concepts Experimentation Program		Project (Number/Name) 117 I Current Force Capability Gaps		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016
Description: AEWE addresses live, prototype experimentation requirem	ents.				
FY 2014 Accomplishments: This campaign of experiments was critical at the Maneuver Center as we to ensure our future Maneuver Force is prepared and equipped to fight a doctrine development, leveraging emerging technology and partnering w Maneuver Force. FY14 campaign of experiments, Spiral I, is focused on Communications, Robotics, Solider Load and Protection, Power Solution	nd win in a complex operating environment. Through ith industry, the Maneuver Center is an advocate for technologies to support five primary study areas: C	gh r the			
FY 2015 Plans: This campaign of experiments is critical at the Maneuver Center as we contone to ensure our future Maneuver Force is prepared and equipped to fight an doctrine development, leveraging emerging technology and partnering with Maneuver Force. FY15 campaign of experiments, Spiral J, will be focused Cellular Communications, Robotics, Solider Load and Protection, Power	nd win in a complex operating environment. Through ith industry, the Maneuver Center is an advocate for ed on technologies to support five primary study are	gh r the			
FY 2016 Plans: This series of experiments is critical to promote research, development, a Beyond (F2025B) efforts. AEWE provides a live prototype experimentati F2025B requirements. FY16 campaign of experiments, Spiral K, is focus Cellular Communications, Robics, Solider Load and Protection, Power Series of Experiments.	on venue to address current operational needs and sed on technologies to support five primary study ar				
Title: Robotics			2.165	1.000	
Description: Testing and demonstration of increased unmanned ground	vehicle capabilities.				
FY 2014 Accomplishments: Supported the Army robotics Campaign Plan development, and resolutio various Robotics initiatives. Was responsible for the Joint Ground Robot and directives for Army-wide Robotic subject matter experts (SMEs) and assessed. Included initiatives directly related to robotics such as operational systems linked to the controllers.	ics Integration Team meetings. Produced guidance products for applicable initiative being resourced ar	nd			
FY 2015 Plans: Support the Army robotics Campaign Plan development, and resolution of Robotics initiatives. Responsible for the Joint Ground Robotics Integration					

PE 0605326A: Concepts Experimentation Program Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015	
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / Concepts Experimentation Program	Project (Number/Name) 317 / Current Force Capability Gaps			aps
B. Accomplishments/Planned Programs (\$ in Millions)		F'	Y 2014	FY 2015	FY 2016
Army-wide Robotic SMEs and products for applicable initiative being related to robotics such as operational control units (OCUs) like Tac		ers.			
Title: Tunnel Detection (TD)			-	1.000	-
Description: Test and demonstration of sensor technology.					
FY 2015 Plans: Test and demonstrate a suite of sensor technology systems capable purpose-built tunnels.	e of detecting, exploiting, and remediating, clandestine				
Title: Exploitation			-	1.000	-
Description: Document and Media Exploitation (DOMEX) is the col and media.	lection and exploitation of captured equipment, documen	ts,			
FY 2015 Plans: Document and Media Exploitation (DOMEX) enables tactical, operar enemy forces through the rapid and accurate extraction, exploitation and materiel. Tactically, DOMEX is the collection and exploitation of actionable intelligence. The DOMEX is a critical part of target exploit during site exploitation activities. Efforts in exploitation also support assessments of classified solutions supporting technical reconnaiss.	n, and analysis of captured enemy documents, media, captured equipment, documents, and media to generate tation, especially as it relates to actions on the objective Special Operations Command (SOCOM) with DOTMLPF				
Title: Non Standard Training Gap Initiative (formerly Non-Standard	Capability Training Gaps)		3.129	1.162	-
Description: Training for accelerated capabilities is accomplished p with no process for follow on efforts. This incongruity is detrimental		Γ)			
FY 2014 Accomplishments: Led the Non Standard Equipment (NSE) training process initiative s maintenance of the 2nd pilot program to develop a standardized and Accelerated Capabilities Division (ACD) was responsible for facilitat and maintenance of Pilot Program 2 on the NSE training process.	d effective NSE training process for deployed units. ARC				
FY 2015 Plans: Lead the Non Standard Equipment (NSE) training process initiative maintenance of the 2nd pilot program to develop a standardized and		IC			

PE 0605326A: Concepts Experimentation Program Army

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Proportiation/Budget Activity R.1 Program Element (Number/Name) PE 0605328A / Concepts Experimentation Program 3717 Current Force Capability Gaps Program Accomplishments/Planned Programs (\$ in Millions) Coelerated Capabilities Division (ACD) responsible for facilitating and coordinating stakeholders in the execution, evaluation, and maintenance of Pilot Program 2 on the NSE training process. Itle: Tower Hawk R.2 Program Element (Number/Name) FY 2014 FY 2015 FY		UNCLASSIFIED			
Accomplishments/Planned Programs (\$ in Millions) Coelerated Capabilities Division (ACD) responsible for facilitating and coordinating stakeholders in the execution, evaluation, and maintenance of Pilot Program 2 on the NSE training process. If the: Tower Hawk Lescription: Provides support to development, integration, and equiping of solutions to the field for integrated base defense while roviding long range pinpoint offensive action. Y 2014 Accomplishments: Tovided support to development, integration, and equiping of solutions to the field for integrated base defense while providing long range pinpoint offensive action against insurgents identified in hostile acts. ACD provideds the integration efforts across OTMLPF as part of coordination and facilitation efforts between Project Offices, TRADOC CoEs, and test agencies. If the: Small Unit Learder Situational Awareness Tool (SULSAT) P 2014 Accomplishments: Tovided support to the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration feremering Robotics initiatives such as Small Unit Leader Situational Awareness Tools (SULSAT). This required cutting-dige technology in multiple fields, including high speed graphics computing, 3-D imaging, virtual reality, and visualization. This apability help with visualizing internal and external structures of buildings as well as potential threats, and then disseminating that formation to soldiers and small-unit leaders. If the: Stack Kite P 2014 Accomplishments: Inco Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: Inco Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: Inco Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with tegration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and tegrated with TRADOC C	Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Da	te: February 20	15
coelerated Capabilities Division (ACD) responsible for facilitating and coordinating stakeholders in the execution, evaluation, and maintenance of Pilot Program 2 on the NSE training process. ### 2.500 - ### 1000 ### 2014 Accomplishments: Tovided support to development, integration, and equiping of solutions to the field for integrated base defense while roviding long range pinpoint offensive action and facilitation efforts between Project Offices, TRADOC CoEs, and test agencies. #### 1.002 - ### 1.002 - ### 1.002 - ### 1.002 - ### 1.002 - ### 1.002 - ### 1.002 - ### 1.002 - ### 1.002 - ### 1.003 - ### 1.003 - ### 1.004 - ### 1.004 - ### 1.005 - ### 1.00	Appropriation/Budget Activity 2040 / 6	PE 0605326A / Concepts Experimentation			
ittle: Tower Hawk escription: Provides support to development, integration, and equiping of solutions to the field for integrated base defense while roviding long range pinpoint offensive action. Y 2014 Accomplishments: rovided support to development, integration, and equiping of solutions to the field for integrated base defense while providing ung range pinpoint offensive action against insurgents identified in hostile acts. ACD provideds the integration efforts across OTMLPF as part of coordination and facilitation efforts between Project Offices, TRADOC CoEs, and test agencies. Interest Supports the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration for emerging Robotics initiatives. Y 2014 Accomplishments: rovided support to the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration for emerging Robotics initiatives such as Small Unit Leader Situational Awareness Tools (SULSAT). This required cutting-dage technology in multiple fields, including high speed graphics computing, 3-D imaging, virtual raily, and visualization. This apability help with visualizing internal and external structures of buildings as well as potential threats, and then disseminating that formation to soldiers and small-unit leaders. Itie: Black kite 0.740 - W 2014 Accomplishments: Itie: Black kite 0.740 - W 2014 Accomplishments: Itier Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: Itier Squad Dismounted Non-Network Enabled - 1.000 - 1	B. Accomplishments/Planned Programs (\$ in Millions)		FY 20	14 FY 2015	FY 2016
Provides support to development, integration, and equiping of solutions to the field for integrated base defense while roviding long range pinpoint offensive action. Y 2014 Accomplishments: rovided support to development, integration, and equiping of solutions to the field for integrated base defense while providing mag range pinpoint offensive action against insurgents identified in hostile acts. ACD provideds the integration efforts across OTMLPF as part of coordination and facilitation efforts between Project Offices, TRADOC CoEs, and test agencies. Iftel: Small Unit Learder Situational Awareness Tool (SULSAT) 1.002 - Intercription: Supports the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration femerging Robotics initiatives such as Small Unit Leader Situational Awareness Tools (SULSAT). This required cutting-dige technology in multiple fields, including high speed graphics computing, 3-D imaging, virtual reality, and visualization. This apability help with visualizing internal and external structures of buildings as well as potential threats, and then disseminating that information to soldiers and small-unit leaders. Intel: Black Kite 0.740 - Velocia (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: Ilicro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with the integration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and the integration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and the integration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and the integration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems.	Accelerated Capabilities Division (ACD) responsible for facilitating and and maintenance of Pilot Program 2 on the NSE training process.	coordinating stakeholders in the execution, evaluation	n,		
Y 2014 Accomplishments: rovided support to development, integration, and equiping of solutions to the field for integrated base defense while providing may range pinpoint offensive action against insurgents identified in hostile acts. ACD provideds the integration efforts across OTMLPF as part of coordination and facilitation efforts between Project Offices, TRADOC CoEs, and test agencies. Ittle: Small Unit Learder Situational Awareness Tool (SULSAT) 1.002 - Itescription: Supports the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration of emerging Robotics initiatives. Y 2014 Accomplishments: rovided support to the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration of emerging Robotics initiatives such as Small Unit Leader Situational Awareness Tools (SULSAT). This required cutting-dage technology in multiple fields, including high speed graphics computing, 3-D imaging, virtual reality, and visualization. This apability help with visualizing internal and external structures of buildings as well as potential threats, and then disseminating that information to soldiers and small-unit leaders. Itilizes Black Kite 0.740 - Iteration of the complishments: liter Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: liter Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with letegration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and letegrated with TRADOC CoEs with CIED SMEs and products for all CIED Line of Efforts. Iter Squad Dismounted Non-Network Enabled - 1.000 Independent of the Army Counter Provides integration and assessment support across DOTMLPF.	Title: Tower Hawk		2.	.500 -	-
rovided support to development, integration, and equiping of solutions to the field for integrated base defense while providing ang range pinpoint offensive action against insurgents identified in hostile acts. ACD provideds the integration efforts across OTMLPF as part of coordination and facilitation efforts between Project Offices, TRADOC CoEs, and test agencies. Integration: Supports the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration of emerging Robotics initiatives. Y 2014 Accomplishments: Tovided support to the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration of emerging Robotics initiatives and small Unit Leader Situational Awareness Tools (SULSAT). This required cutting-dege technology in multiple fields, including high speed graphics computing, 3-D imaging, virtual reality, and visualization. This apability help with visualizing internal and external structures of buildings as well as potential threats, and then disseminating that information to soldiers and small-unit leaders. Integration: Micro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: Increased Sensor capability in support of Army Counter-IED (CIED) Strategy associated with the degration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and degrated with TRADOC CoEs with CIED SMEs and products for all CIED Line of Efforts. Integration: Provides integration and assessment support across DOTMLPF.	Description: Provides support to development, integration, and equipin providing long range pinpoint offensive action.	ng of solutions to the field for integrated base defense	while		
Pescription: Supports the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration of emerging Robotics initiatives. Y 2014 Accomplishments: Trovided support to the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration of emerging Robotics initiatives such as Small Unit Leader Situational Awareness Tools (SULSAT). This required cutting-dige technology in multiple fields, including high speed graphics computing, 3-D imaging, virtual reality, and visualization. This apability help with visualizing internal and external structures of buildings as well as potential threats, and then disseminating that information to soldiers and small-unit leaders. Title: Black Kite Documentary Provides (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: Increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with detegration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and detegrated with TRADOC CoEs with CIED SMEs and products for all CIED Line of Efforts. Integration: Provides integration and assessment support across DOTMLPF.	long range pinpoint offensive action against insurgents identified in host	tile acts. ACD provideds the integration efforts acros			
Y 2014 Accomplishments: rovided support to the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration f emerging Robotics initiatives such as Small Unit Leader Situational Awareness Tools (SULSAT). This required cutting-dge technology in multiple fields, including high speed graphics computing, 3-D imaging, virtual reality, and visualization. This apability help with visualizing internal and external structures of buildings as well as potential threats, and then disseminating that formation to soldiers and small-unit leaders. ittle: Black Kite 0.740 - vescription: Micro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: Ilicro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with the degration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and the degrated with TRADOC CoEs with CIED SMEs and products for all CIED Line of Efforts. ittle: Squad Dismounted Non-Network Enabled - 1.000 vescription: Provides integration and assessment support across DOTMLPF.	Title: Small Unit Learder Situational Awareness Tool (SULSAT)		1.	.002 -	-
rovided support to the Army Robotics Campaign Plan initiatives by addressing DOTMLPF issues associated with integration of emerging Robotics initiatives such as Small Unit Leader Situational Awareness Tools (SULSAT). This required cutting-dge technology in multiple fields, including high speed graphics computing, 3-D imaging, virtual reality, and visualization. This apability help with visualizing internal and external structures of buildings as well as potential threats, and then disseminating that information to soldiers and small-unit leaders. Ititle: Black Kite 0.740 - vescription: Micro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. Y 2014 Accomplishments: Iticro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with stegration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and attegrated with TRADOC CoEs with CIED SMEs and products for all CIED Line of Efforts. - 1.000 Ities Cription: Provides integration and assessment support across DOTMLPF.	Description: Supports the Army Robotics Campaign Plan initiatives by of emerging Robotics initiatives.	addressing DOTMLPF issues associated with integr	ation		
Pescription: Micro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy. If Y 2014 Accomplishments: Ilicro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with integration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and integrated with TRADOC CoEs with CIED SMEs and products for all CIED Line of Efforts. Itile: Squad Dismounted Non-Network Enabled - 1.000 Description: Provides integration and assessment support across DOTMLPF.	of emerging Robotics initiatives such as Small Unit Leader Situational A edge technology in multiple fields, including high speed graphics compu	wareness Tools (SULSAT). This required cutting- uting, 3-D imaging, virtual reality, and visualization. T	his		
Y 2014 Accomplishments: Ilicro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with integration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and integrated with TRADOC CoEs with CIED SMEs and products for all CIED Line of Efforts. Ittle: Squad Dismounted Non-Network Enabled - 1.000 Description: Provides integration and assessment support across DOTMLPF.	Title: Black Kite		0.	.740 -	-
dicro Air Vehicle (MAV) with increased sensor capability in support of Army Counter-IED (CIED) Strategy associated with stegration of various CIED initiatives. Supported Army-wide IED-Defeat Training initiatives and systems. Coordinated and stegrated with TRADOC CoEs with CIED SMEs and products for all CIED Line of Efforts. **Itle:** Squad Dismounted Non-Network Enabled** **Provides integration and assessment support across DOTMLPF.**	Description: Micro Air Vehicle (MAV) with increased sensor capability i	in support of Army Counter-IED (CIED) Strategy.			
Description: Provides integration and assessment support across DOTMLPF.	integration of various CIED initiatives. Supported Army-wide IED-Defea	at Training initiatives and systems. Coordinated and			
	Title: Squad Dismounted Non-Network Enabled			- 1.00	0 -
Y 2015 Plans:	Description: Provides integration and assessment support across DOT	MLPF.			
	FY 2015 Plans:				

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army				Date: February 2015			
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / Concepts Experimentation Program		roject (Number/Name) 17 I Current Force Capability Gaps				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016		
TRADOC Accelerated Capability Developments initiative provides integrated to equip, train, and deploy capability support for OEF problem of isolated Forward Operating Bases (FOBs) which have difficulty locating ground to organic, lethal, effects while minimizing collateral damage and exposure	I maneuver elements at Command Outposts (COPs argets and lack timely response to engage these tar)/					
Title: Contractor Year Equivalent (CME) Support to TRADOC Capability	Development and Integration Directorates (CDIDs)		-	7.700	16.43		
Description: Provides CMEs to CDIDs across TRADOC to develop and	integrate capabilities.						
FY 2015 Plans: Provide approximately 45 CMEs to CDIDs across TRADOC to develop a community is developing and fielding material solutions. FY14 would hat the requirement is funded in FY 2017 and beyond.							
FY 2016 Plans: Will provide approximately 87 CMEs to CDIDs across TRADOC to devel community is developing and fielding materiel solution. FY 2014 would of the requirement is funded in FY 2017 and beyond.							
Title: Maneuver Fires Center Integration Exercise (MFIX)			-	-	0.200		
Description: Maneuver Fires Center Integration Exercise (MFIX) will con Leadership and Education, Personnel, and Facilities (DOTMLPF) assess							
FY 2016 Plans: MFIX will conduct DOTMLPF assessments; test and certification training mission command, training and leader development, mobility and force punits to operate in complex and uncertain environments, see and fight acfavorable conditions, overmatch the enemy in encounter actions, maneu act on opportunities, adapt rapidly to changing battle conditions, and operatem.	protection). MFIX will integrate efforts to allow small cross a wide area, make contact with the enemy und ver rapidly to seize and retain the initiative, identify a	ler and					
Title: Net Zero Expeditionary Base Camp (NET 0) (Formerly Operationa	l Energy)		-	-	0.275		
Description: Continue acceleration of Operational Energy initiative for re	emote Combat Outposts and Soldier Power iniatives	5.					
FY 2016 Plans:							

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: F	ebruary 201	5		
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605326A / Concepts Experimentation Program		roject (Number/Name) 17 I Current Force Capability Gaps			
B. Accomplishments/Planned Programs (\$ in Millions)		F	FY 2014	FY 2015	FY 2016	
Continue acceleration of Operational Energy initative for remote Energy provides the Warfighter with increased levels of agility, fle environment. Operational energy solutions will extend combat a uninterrupted and optimal energy to systems within the mission of demand. Phase two of multi-phased approached will support de system-of-systems engineering approach. This approach will en delivering solutions, and that necessary employment guidance is	exibility, and interoperability when operating in the expedition of tactical system's mission endurance and resilience, ensucommand network, and mitigate force risk by reducing energy velopment of integrated operational energy solutions requiring that capability impacts are identified and addressed processed presents.	nary ire ing a				
Title: Manned Unmanned Teaming Ground (MUM-T(G)			-	-	0.203	
Description: Follow-on focused assessment to test interoperable advanced technologies.	lity, assess integration with manned systems, and evaluate					
FY 2016 Plans: Follow-on focused assessment to test interoperability, assess int technologies. MUM-T (G) capabilities will provide greater autom survivability in contested environments. In addition, system will and streamlined system design. Capabilities must also demonst support unmanned systems.	ation, improved performance, flexible use profiles, and greademonstrate improved communications, security from tampe					

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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14.096

15.862

17.265

Accomplishments/Planned Programs Subtotals

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army							Date: February 2015					
Appropriation/Budget Activity 2040 / 6				PE 0605326A / Concepts Experimentation 33				• •	Project (Number/Name) 33B I Soldier-Centered Analyses For Future Force			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
33B: Soldier-Centered Analyses For Future Force	-	1.868	1.114	1.659	-	1.659	1.538	1.562	1.584	1.612	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

B Accomplishments/Planned Programs (\$ in Millions)

This project will provide early application of human performance and human figure modeling tools in the development of Soldier-focused requirements to shape technology for Future Force development. Design analyses, constructive simulations and Soldier-in-the-loop assessments will ensure that manpower requirements and workload and skill demands are considered to avoid information and physical task overloads, and take optimum advantage of aptitudes, individual and collective training, and numbers of Soldiers for an affordable Future Force. The cited work is consistent with the Strategic Planning Guidance, the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan, and the Defense Technology Area Plan (DTAP). Work in this project is performed by the Army Research Laboratory (ARL).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Manpower and Personnel Integration (MANPRINT)	1.868	1.114	1.659
Description: Provide dedicated modeling and analysis cell for early and accurate MANPRINT estimates to Army Materiel Command (AMC), Research, Development, and Engineering Command (RDECOM) and its Research, Development, and Engineering Centers (RDECs), TRADOC Centers, Schools and Centers of Excellence (CoEs), Army Test and Evaluation Command (ATEC) and other service laboratories.			
FY 2014 Accomplishments: Developed and demonstrated model based links between Systems Engineering (SE) and MANPRINT tools and methods to leverage common data elements and resources to better inform acquisition tradeoff decisions. Developed an analysis methodology to link Human Systems Integratino (HSI) risk mitigation (i.e. specific system design changes) to manpower and health care cost avoidance.			
FY 2015 Plans: Develop analysis methodologies to quantitatively predict (in dollars and/or mission success) the effect of manpower, personnel, and training issues in system acquisition to inform optimization of Soldier-system performance and affordability.			
FY 2016 Plans: Will develop model-based predictive analyses of Dismounted Infantry (DI) missions that will provide DOD leadership with analytic data to inform requirements development and trade-off decisions as early as Milestone A. This analyses will integrate Human Systems Integration (HSI) and Systems Engineering (SE) inputs to generate critical tasks combinations that provide the necessary analytical data to support cognitive workload measurement, Measures of Effectiveness and Measures of Performance for DI.			

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EV 2014 EV 2015 EV 2016

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)		
2040 / 6	PE 0605326A / Concepts Experimentation	33B I Soldier-Centered Analyses For Future		
	Program	Force		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Expand digital library by developing 3D models of Air Soldier Clothing and equipment items to perform early human figure modeling assessments of future aviation platform designs. Develop 3D models of mounted and dismounted Soldier clothing and equipment items that are sized and fitted to ANTHRO II based human figure model sets for early assessments of future ground vehicle platform designs.			
Accomplishments/Planned Programs Subtotals	1.868	1.114	1.659

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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