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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604115A / TECHNOLOGY MATURATION INITIATIVES							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	12.636	11.110	74.740	-	74.740	42.652	50.157	45.341	49.387	Continuing	Continuing
DS3: TECHNOLOGY MATURATION INITIATIVES	-	2.118	11.110	74.740	-	74.740	42.652	50.157	45.341	49.387	Continuing	Continuing
DX1: Analysis of Alternatives	-	10.518	-	-	-	-	-	-	-	-	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note
FY 13 decreases attributed to Congressional General Reductions (-17 thousand); Congressional Directed Reductions (-11.800 million); and SBIR/STTR transfers (-415 thousand)
FY 14 reductions attributed to FFRDC reduction (-6 thousand) and Congressional directed reductions (-44.489 million)

FY 2015 funding increased to support an expanded set of Technology Maturation Initiatives approved by the Executive Steering Group.

A. Mission Description and Budget Item Justification
This Program Element (PE) funds prototyping and demonstration of selected technology enabled capabilities to support advanced ground and aviation systems, precision weapons, and Soldier equipment. Funding facilitates maturation and demonstration of advanced technologies and systems in relevant environments and tactical/operational scenarios, taking technologies to a goal of Technology Readiness Level (TRL) 7 and reducing risk for acquisition programs of record. Efforts include competitive prototyping earlier in development to facilitate transition of new capabilities into acquisition programs. Efforts are directed by an Army Senior Executive Steering Group to ensure that demonstrations have high potential for filling capability gaps and transition. This PE provides the Army an improved mechanism for fulfilling the goals of the Weapon Systems Acquisition Reform Act (WSARA) of 2009 by enabling greater competition in the latter stages of technology maturation and establishes a closer alignment between Science and Technology (S&T) programs and acquisition programs. In FY 2013 this PE provided analytical support for Analysis of Alternatives (AoA) for new program starts that required a material development decision and did not yet have a Program Manager assigned for material development.

The cited work is consistent with the Assistant Secretary of Defense, Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.

Work in this PE is performed by the Research, Development and Engineering Command (RDECOM), Engineering Research Development Center (ERDC), Space and Missile Defense Command (SMDC), U.S. Army TRADOC Analysis Center (TRAC), and/or U.S. Army Materiel Systems Analysis Activity (AMSAA).

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)		PE 0604115A / TECHNOLOGY MATURATION INITIATIVES			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	24.868	55.605	64.088	-	64.088
Current President's Budget	12.636	11.110	74.740	-	74.740
Total Adjustments	-12.232	-44.495	10.652	-	10.652
• Congressional General Reductions	-0.017	-0.006			
• Congressional Directed Reductions	-11.800	-44.489			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.415	-			
• Adjustments to Budget Years	-	-	10.652	-	10.652

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Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604115A / TECHNOLOGY MATURATION INITIATIVES				Project (Number/Name) DS3 / TECHNOLOGY MATURATION INITIATIVES			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DS3: TECHNOLOGY MATURATION INITIATIVES	-	2.118	11.110	74.740	-	74.740	42.652	50.157	45.341	49.387	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note N/A												
A. Mission Description and Budget Item Justification												
This Project funds the prototyping and demonstration of selected technology enabled capabilities to support advanced Soldier, ground, aviation, and command, control, communication & reconnaissance systems and equipment. Demonstration of these advanced technologies and systems are conducted in relevant environments and performing tactical/operational scenarios, taking technologies to a goal of Technology Readiness Level (TRL) 7 and reducing risk for acquisition programs. Efforts are typically 1-3 years in duration, and may include early competitive prototyping to facilitate transition of new capabilities into acquisition programs of record. Efforts are directed by an Army Senior Executive Steering Group (ESG) based on program priority and opportunity, to ensure that demonstrations have high potential for filling capability gaps and transitioning. This Project provides the Army an improved mechanism for fulfilling the goals of the Weapon Systems Acquisition Reform Act (WSARA) of 2009 by enabling greater competition in the latter stages of technology maturation and establishing a closer alignment between Science and Technology (S&T) and acquisition programs.												
The cited work is consistent with the Assistant Secretary of Defense, Research and Engineering science and technology priority focus areas and the Army Modernization Strategy.												
Work in the Project is performed by the Research, Development and Engineering Command (RDECOM), Engineering Research Development Center (ERDC), the Space and Missile Defense Command (SMDC), U.S Army TRADOC Analysis Center (TRAC) and/or U.S. Army Materiel Systems Analysis Activity (AMSAA).												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Prototype, Evaluate, and Demonstrate									2.118	3.610	-	
									Articles: -	-	-	
Description: This effort selects technologies in advanced ground systems, aviation systems, precision navigation and weapons, and/or Soldier equipment that show high promise for advancing capabilities required under acquisition programs; prototypes, evaluates, and demonstrates integrated technologies within a high fidelity and realistic operating environment, and transitions them to a formal program of record at reduced cost and/or risk.												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
<i>FY 2013 Accomplishments:</i> Demonstrated three technology-enabled capability prototyping efforts initiated in FY 12: Tier 1 Soldier Battery Charger, Azimuth & Vertical Angle Module (AVAM) for Joint Effects Targeting System (JETS), and Advanced Weapons Sight Technology; developed test parameters and assessment criteria and transitioned these efforts to the Nett Warrior, Family of Weapons Sights-Crew Served, and JETS programs.					
<i>FY 2014 Plans:</i> Complete the Integrated Soldier Power and Data System-Enhanced technology maturation effort initiated in FY12; develop test parameters and assessment criteria and transition effort to the Soldier Power program of record. Evaluate current Government and contractor-developed ground vehicle subsystem prototypes and demonstrators; analyze prototypes and demonstrators to assess current state of the art of ground combat vehicle technologies and inform future requirements and prototyping efforts.					
<i>Title:</i> Maturation and Prototyping for Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Systems			-	7.500	35.500
<i>Articles:</i>			-	-	-
<i>Description:</i> This effort selects technologies that show high promise for advancing command, control, communication and reconnaissance capabilities required under acquisition programs; prototypes, evaluates, and demonstrates integrated technologies within a high fidelity and realistic operating environment, and transitions them to a formal program of record at reduced cost and/or risk.					
<i>FY 2014 Plans:</i> Demonstrate and validate critical technologies – Pseudolites – that provide a ground-based alternative for Positioning, Navigation and Timing (PNT) in a Global Positioning System (GPS) challenged or denied environment; prototype Pseudolite systems and develop a second source to enable competitive testing prior to the Assured PNT program's Milestone B; demonstrate Pseudolite software for six legacy GPS receiver variants that are widely used by the Army. This investment accelerates and reduces risk for the Assured PNT program.					
<i>FY 2015 Plans:</i> Will complete demonstration, validation and testing of Pseudolite prototypes and legacy receiver software, and transition to Assured PNT program of record; mature and prototype Assured PNT devices for mounted and dismounted applications, reducing size, weight and power for protection in all environments; accelerate integration and testing of dismounted capability with Nett Warrior end-user device and military GPS; develop and validate Anti-Jam GPS Antenna performance specifications and A-Kit to enable off-the-shelf, Assured PNT for mounted applications. Will demonstrate mature critical optical elements, coatings, and assembly technologies for prototype integration, addressing performance requirements of the Improved Forward-Looking Infrared (I-FLIR) at reduced cost and risk prior to program Engineering and Manufacturing Development (EMD) phase. Will demonstrate					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
a next generation Command Post data foundation interoperable with the Mounted and Mobile Handheld Computing Environments and the tactical cloud to critically inform the implementation of the Army Common Operating Environment V3. Will mature and demonstrate spectrum assignment and frequency reuse software for incorporation into Joint Enterprise Network Manager to alleviate Software Radio Waveform spectrum congestion.					
Title: Maturation and Prototyping for Ground Systems Description: This effort selects ground maneuver technologies in areas such as mobility, survivability, vehicle architecture, lethality and systems integration, that show high promise for advancing capabilities required under acquisition programs; prototypes, evaluates, and demonstrates integrated technologies within a high fidelity and realistic operating environment, and transitions them to a formal program of record at reduced cost and/or risk. FY 2015 Plans: Will finalize and demonstrate VICTORY ground vehicle architecture and performance specifications in a realistic operational environment, reducing technology risk, non-recurring engineering, and production costs that hinder the transition of the VICTORY standards into ground vehicle platforms; mature and productize open-source VICTORY Adapter component for integration and evaluation in major vehicle systems. Will mature and demonstrate TRL 7 eye and camera protection in combat vehicle gunner's sight to prevent blinding by advanced wavelength-agile laser weapons; simplify hardware design and specifications to reduce production cost from \$100k to \$35k per unit under Abrams and Bradley Engineering Change Programs. Will prototype the remote, tele-operated and semi-autonomous control of the Route Clearance Interrogation System (RCIS) by integrating Autonomous Mobility Applique System (AMAS) hardware and developing Government Purpose Rights software and interface specifications, reducing RCIS program integration costs and technical risks for this capability. Will mature and demonstrate an improved Ground Penetrating Radar for the Husky Mounted Detection System (HMDS) for increased detection capability while addressing limitations caused by radio-frequency interference.			-	-	18.405
Title: Maturation and Prototyping for Soldier Systems Description: This effort selects technologies that show high promise for advancing required soldier system capabilities required under acquisition programs; prototypes, evaluates, and demonstrates integrated technologies within a high fidelity and realistic operating environment, and transitions them to a formal program of record at reduced cost and/or risk. FY 2015 Plans: Will accelerate, integrate and demonstrate targeting software for the Mobile Handheld Fires Application, providing a timely, advanced Government Purpose Rights software solution for the Pocket-sized Forward Entry Device (PFED) Inc 2 program. Will prototype and demonstrate a competitive materiel solution to meet Improved Military Combat Eye Protection objective requirements; transition specifications for improved transparent, ballistic fragmentation-resistant materials and coatings to materiel			-	-	7.950

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
vendors. Will mature, prototype, and demonstrate advanced counter-defilade grenade to inform and expedite requirements for Increased Range Anti-Personnel (Low Velocity) and reduce future acquisition risks.			
Title: Maturation and Prototyping for Logistics and Sustainment Systems Description: This effort selects logistics and/or sustainment technologies that show high promise for advancing mobility capabilities required under acquisition programs; prototypes, evaluates, and demonstrates integrated technologies within a high fidelity and realistic operating environment, and transitions them to a formal program of record at reduced cost and/or risk. FY 2015 Plans: Will advance government-owned Transparent Armor 3a design to meet Rock Strike requirements; integrate and test on Joint Light Tactical Vehicle (JLTV) and transition to materiel vendors for increased competition. Will demonstrate an affordable, high-pressure fuel distribution hose for insertion into emerging program of record and reduction of in-theater footprint and manpower needs. Will qualify components and develop competitive procurement specification for a common Army Vehicle Fire Extinguisher, reducing procurement and life-cycle costs due to low-volume manufacturing of 50-plus unique configurations. Will prototype an Environmental Control Unit for upgrade of military refrigeration assets to extend shelf life of fresh fruits and vegetables from days to weeks; validate performance and high return-on-investment and transition specifications for competitive procurement. Will mature and qualify the Li-ion 6T size battery for Naval vessel transport and assignment of National Stock Number, enabling the storage and transport of the JLTV; introduce multiple manufacturers and enable the use of Li-ion 6T advanced batteries across military vehicles as drop-in replacements.		-	-
			12.885
Accomplishments/Planned Programs Subtotals		2.118	11.110
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
Multiple competitive contracts will be awarded based on selection of efforts from the Senior ESG. The various developmental programs in this project will continue to exercise competitively awarded contracts using best value source selection procedures.			
E. Performance Metrics			
N/A			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0604115A / TECHNOLOGY MATURATION INITIATIVES				Project (Number/Name) DS3 / TECHNOLOGY MATURATION INITIATIVES					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Azimuth and Vertical Angle Module (AVAM) for the Joint Effects Targeting System (JETS)	C/CPFF	Crossbow; Toyon Research/Sensor In Motion; Irvine Sensors : Milpitas, CA; Goleta, CA; Irvine, CA	1.925	0.750	Jun 2013	-		-		-		-	-	2.675	-
Tier 1 Soldier Battery Charger	C/FFP	DSCP; Thales Communications : Clarksburg, MD	1.121	0.830	Mar 2013	-		-		-		-	-	1.951	-
Advanced Weapon Sight Technology for Family of Weapon Sights (FWS)	C/CPFF	Alion; N2 : Alexandria, VA; Irvine, CA	1.925	0.460	Jun 2013	-		-		-		-	-	2.385	-
Integrated Soldier Power and Data System	C/CPFF	Ultra Electronics AMI : Ann Arbor, MI	1.443	0.078	Jun 2013	1.172	Oct 2013	-		-		-	-	2.693	-
Maturation and Prototyping for C4ISR Systems	Various	Various : Various	0.000	-		7.500	May 2014	35.500		-		35.500	-	43.000	-
Maturation and Prototyping for Ground Systems	Various	Various : Various	0.000	-		-		18.405		-		18.405	-	18.405	-
Maturation and Prototyping for Soldier Systems	Various	Various : Various	0.000	-		-		7.950		-		7.950	-	7.950	-
Maturation and Prototyping for Logistics and Sustainment Systems	Various	Various : Various	0.000	-		-		12.885		-		12.885	-	12.885	-
Subtotal			6.414	2.118		8.672		74.740		-		74.740	-	91.944	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Ground Vehicle Subsystem Prototype Evaluations	TBD	Prototype Evaluation : Warren, MI	0.000	-		2.438		-		-		-	-	2.438	-
Subtotal			0.000	-		2.438		-		-		-	-	2.438	-

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	Prior Years	FY 2013	FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	6.414	2.118		11.110		74.740		-	74.740	-	94.382	-
Remarks												

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604115A / TECHNOLOGY MATURATION INITIATIVES			Project (Number/Name) DS3 / TECHNOLOGY MATURATION INITIATIVES				

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Azimuth & Vertical Angle Module for Joint Effects Targeting System (JETS)																												
Tier 1 Soldier Battery Charger																												
Alternative Weapons Sight Technology for Family of Weapons Systems (FWS)																												
Integrated Soldier Power & Data System (ISPDS)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604115A / <i>TECHNOLOGY MATURATION INITIATIVES</i>	Project (Number/Name) DS3 / <i>TECHNOLOGY MATURATION INITIATIVES</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Azimuth & Vertical Angle Module for Joint Effects Targeting System (JETS)	2	2012	4	2013
Tier 1 Soldier Battery Charger	2	2012	4	2013
Alternative Weapons Sight Technology for Family of Weapons Systems (FWS)	2	2012	4	2013
Integrated Soldier Power & Data System (ISPDS)	2	2012	3	2014

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604115A / TECHNOLOGY MATURATION INITIATIVES				Project (Number/Name) DX1 / Analysis of Alternatives			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DX1: Analysis of Alternatives	-	10.518	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification This effort provides analytical support for Analysis of Alternatives (AoA). To qualify for funding a material development decision will be required and none of the funds can be obligated or expended to initiate an AoA without 30-day prior notification to the Congressional Defense Committees identifying the purpose of the AoA and certifying its full funding. Work in the PE is performed by U.S. Army TRADOC Analysis Center (TRAC) and the U.S. Army Materiel Systems Analysis Activity (AMSAA). Beginning in FY15, this effort moves to PE 0604100A. This reflects a realignment from DX1-APE 644115 Technology Maturation Initiatives to EC7-APE 644100 Analysis of Alternatives.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Analytical Support for Analysis of Alternatives Description: This effort provides analytical support for Analysis of Alternatives (AoA). FY 2013 Accomplishments: Provided analytical support for Analysis of Alternatives (AoA) for new program starts that required a material development decision and did not yet have a Program Manager assigned for material development.									Articles:			
Accomplishments/Planned Programs Subtotals									10.518	-	-	
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A												

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E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0604115A / <i>TECHNOLOGY MATURATION INITIATIVES</i>						Project (Number/Name) DX1 / <i>Analysis of Alternatives</i>			

Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Analytical Support for Analysis of Alternatives	TBD	TBD : TBD	3.500	10.518		-		-		-		-	-	14.018	-
Subtotal			3.500	10.518		-		-		-		-	-	14.018	-

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	3.500	10.518	-	-	-	-	-	14.018	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 4		R-1 Program Element (Number/Name) PE 0604115A / <i>TECHNOLOGY MATURATION INITIATIVES</i>			Project (Number/Name) DX1 / <i>Analysis of Alternatives</i>

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Identify Candidates for AoA funding																												
Issue Funding as Determined in the MDD																												
Conduct Analyses of Alternatives																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604115A / <i>TECHNOLOGY</i> <i>MATURATION INITIATIVES</i>	Project (Number/Name) DX1 / <i>Analysis of Alternatives</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Identify Candidates for AoA funding	1	2013	4	2013
Issue Funding as Determined in the MDD	1	2013	4	2013
Conduct Analyses of Alternatives	1	2013	4	2013