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**Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 3: Advanced Technology Development (ATD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603125A / <i>Combating Terrorism - Technology Development</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	23.334	33.520	27.686	-	27.686	24.906	25.199	25.701	26.215	-	-
DF5: <i>Agile Integration &amp; Demonstration</i>	-	23.334	27.520	27.686	-	27.686	24.906	25.199	25.701	26.215	-	-
DW4: <i>Energy Technologies (Congressional Adds (CAs))</i>	-	0.000	6.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	-

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

This Program Element (PE) demonstrates and evaluates emerging technologies and systems with high payoff potential to address current technology shortfalls or future capability gaps. Efforts include: hybrid electric power technologies to reduce use of fossil fuel in tactical generators; collaboration with the U.S. Department of Energy to demonstrate technologies that provide significant gains in ground vehicle energy efficiency; demonstration of ground platform power management, generation, and distribution technologies that increase energy efficiencies and support the integration of advanced future capabilities; and field demonstrations and red-teaming to stress and assess emerging systems in key areas for gaining or maintaining overmatch earlier in the life-cycle, thus improving systems by reducing vulnerabilities and providing a more holistic understanding of employment risks in operationally-representative environments and against potential threats.

This PE supports the Command, Control, Communications and Intelligence (C3I), Ground, Lethality, and Soldier/Squad Portfolios.

Work in this PE is complementary to and is fully coordinated with PE 0602105A (Materials Technology), PE 0602270A (Electronic Warfare Technology), PE 0602303A (Missile Technology), PE 0602618A (Ballistics Technology), PE 0602705A (Electronics and Electronic Devices), 0603005A (Combat Vehicle and Automotive Advanced Technology), PE 0603270A (Electronic Warfare Technology), and PE 0603710A (Night Vision Advanced Technology).

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 Army Research, Development, and Engineering Command (RDECOM) and the Army Engineer Research and Development Center (ERDC).

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	24.257	27.520	27.686	-	27.686
Current President's Budget	23.334	33.520	27.686	-	27.686
Total Adjustments	-0.923	6.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	6.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.923	-			

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** DW4: *Energy Technologies (Congressional Adds (CAs))*

Congressional Add: *Force Protection Radar Development*

	<b>FY 2015</b>	<b>FY 2016</b>
	-	6.000
Congressional Add Subtotals for Project: DW4	-	6.000
Congressional Add Totals for all Projects	-	6.000

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**Exhibit R-2A, RDT&E Project Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 3					<b>R-1 Program Element (Number/Name)</b> PE 0603125A / <i>Combating Terrorism - Technology Development</i>				<b>Project (Number/Name)</b> DF5 / <i>Agile Integration &amp; Demonstration</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
DF5: <i>Agile Integration &amp; Demonstration</i>	-	23.334	27.520	27.686	-	27.686	24.906	25.199	25.701	26.215	-	-

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

This project demonstrates and evaluates emerging technologies and systems with high payoff potential to address current technology shortfalls or future capability gaps. Efforts include: hybrid electric power technologies to reduce use of fossil fuel in tactical generators; collaboration with the U.S. Department of Energy (DOE) to demonstrate technologies that provide significant gains in ground vehicle energy efficiency; demonstration of ground platform power management, generation, and distribution technologies that increase energy efficiencies and support the integration of advanced future capabilities; and red-teaming to stress and assess emerging systems in key areas for gaining or maintaining overmatch earlier in the life-cycle, thus improving systems by reducing vulnerabilities and providing a more holistic understanding of employment risks in operationally-representative environments and against potential threats.

This project supports the Command, Control, Communications and Intelligence (C3I), Ground, Lethality, and Soldier/Squad Portfolios.

Work in this project is complementary to and is fully coordinated with Program Element (PE) 0602105A (Materials Technology), PE 0602270A (Electronic Warfare Technology), PE 0602303A (Missile Technology), PE 0602618A (Ballistics Technology), PE 0602705A (Electronics and Electronic Devices), PE 0603005A (Combat Vehicle and Automotive Advanced Technology), PE 0603270A (Electronic Warfare Technology), and PE 0603710A (Night Vision Advanced Technology).

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 project is performed by the Army Research, Development, and Engineering Command (RDECOM) and the Army Engineer Research and Development Center (ERDC).

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

	FY 2015	FY 2016	FY 2017
<b>Title:</b> Rapidly Deployable Technologies	5.060	5.060	-
<b>Description:</b> This effort conducts live, virtual, and hybrid scenario-based experiments to stress and assess emerging technology systems that are targeted to support expeditionary units, improving technology design, development, and ultimate employment. These technologies must be readily transportable; require minimal set up, take down, and operational effort; and must be easily adaptable across a variety of missions, environments, and threats. This effort is coordinated with PE 0602618A (Ballistics Technology)/Project H80 (Survivability and Lethality Technology).			
<b>FY 2015 Accomplishments:</b>			

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<b>Appropriation/Budget Activity</b> 2040 / 3	<b>R-1 Program Element (Number/Name)</b> PE 0603125A / <i>Combating Terrorism - Technology Development</i>	<b>Project (Number/Name)</b> DF5 / <i>Agile Integration &amp; Demonstration</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>Increased focus on active defense measures for small expeditionary units based on critical threats associated with one or two high-priority operational environments, including coastal and urban terrains; developed and integrated critical measures of success into the Warfighter Technology Tradespace Methodology to include assessing systems' means to adapt, as well as new measures specific select new theaters; expanded quantitative protocols for field-based experiments; implemented narrative-based modeling and assessment tool for Warfighter feedback on technologies to expose and eliminate barriers affecting technology acceptance and use; conducted a series of experiments using live and virtual scenarios and coordinated demonstrations to identify, expose, and mitigate system vulnerabilities; leveraged ongoing activities with units such as Special Operations Teams in CENTCOM Area of Responsibility to conduct in-country assessments and garner feedback on performance of high-priority systems.</p> <p><b>FY 2016 Plans:</b>                      Incorporate Army G-2 and Army Training and Doctrine Command (TRADOC)-provided threat information, as well as the expertise of Special Forces Soldiers, to develop a series of operationally relevant experiments that stress the performance limits of emerging and fielded systems geared for small unit expeditionary forces. Integrate Pacific Command (PACOM), Africa Command (AFRICOM), Southern Command (SOUTHCOM) and/or the Central Command (CENTCOM)-based scenarios into experiments and target specific environments of interest (e.g., wooded, marine, urban, contested and congested radio frequency (RF)). Replicate relevant threat/overmatch capabilities (e.g., commercially available computer network, RF, and electromagnetic (EM) attack methodologies) and integrate, train, and operate technology systems in increasingly complex blue/red team scenarios. Expand and refine quantitative measures of success for the Warfighter Technology Tradespace Methodology, and assess systems' performance across technical, user, supportability, and adaptability factors. Uncover technology system vulnerabilities, including risks to user acceptance, and recommend mitigation options and/or areas for additional development.</p>			
<p><b>Title:</b> Technology Systems Adaptive Red Teaming</p> <p><b>Description:</b> This effort seeks to challenge conventional approaches to technology and systems development and insertion, and increase the awareness of risks and opportunities earlier in the lifecycle in order to improve system design, development and employment. It builds on the concepts and methodology developed under the Deployable Force Protection Adaptive Red Teaming effort and applies them to other high-priority areas for the Army. It designs and conducts live, virtual and mixed scenarios and demonstrations to evaluate the most promising technologies. It stresses and assesses developing technology systems for both individual and system-of-system performance across a representation of operational environments, realistic scenarios and emerging threats. Activities include: identifying, integrating and examining system performance at live demonstration venues with experienced operators; emulating emerging threats and alternative futures to challenge assumptions regarding scenarios and system employment; and identifying and informing of potential vulnerabilities in systems and systems-of-systems, including but not limited to, performance degradation in congested/contested environments, interoperability, and adaptability. This effort is coordinated with PE 0602618A (Ballistics Technology)/Project H80 (Survivability and Lethality Technology).</p>	8.198	12.298	-

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p><b><i>FY 2015 Accomplishments:</i></b> Utilized stakeholder analysis, operational scenarios and findings from technology vulnerability assessments to identify high-priority developmental systems that support Army acquisition programs within areas such as intelligence, surveillance, and reconnaissance (ISR), electronic warfare, and/or communications. Conducted in-depth, phased assessments that incorporated near-peer threats and live experiments with Warfighters to stress the systems under different scenarios and uncover vulnerabilities pertaining to systems integration, interoperability, adaptability and technology employment. Recommended means to harden systems against vulnerabilities and reduce risks arising from operational and logistics contexts.</p> <p><b><i>FY 2016 Plans:</i></b> Incorporate intelligence, requirements, acquisition, and science and technology community stakeholder input to identify developmental systems that support key Army acquisition programs, either current or planned. System areas of interest include: Positioning, Navigation and Timing; Weapons Systems Guidance and Control; Threat Detection/Hostile Fire Detection; Counter-Rocket, Artillery and Mortar (C-RAM), Counter-Precision Guided Munitions (C-PGM), and/or Counter-Unmanned Aerial Systems (C-UAS); Platform Common Architectures; Sensor Protection Technologies; Robotics and Autonomous/Semi-Autonomous Systems; and Denial and Deception Technologies. Design and conduct a series of in-depth, phased assessments that incorporate near-peer threats and field experiments with experienced Warfighters; stress the systems under various, operationally-relevant scenarios and uncover potential risks pertaining to systems integration, interoperability, adaptability, user technology acceptance, and performance in contested environments. Recommend means to mitigate or reduce systems' vulnerabilities, with the goal of informing current or future acquisition programs early in the development lifecycle.</p>				
<p><b><i>Title:</i></b> Ground Platform Subsystem Demonstrations</p> <p><b><i>Description:</i></b> This effort contributes to the Army's ground platform risk reduction efforts which seek to address technical and integration challenges in the areas of mobility, survivability, vehicle architecture and systems integration. Specifically, this effort focuses on maturing and demonstrating integrated vehicle power management, generation and distribution technologies to increase ground vehicle energy efficiencies and ensure ground platforms have enough power to enable future capabilities such as electromagnetic armor, active protections systems, improvised explosive device (IED) detect and defeat technologies, advanced situational awareness and future network integration technologies. This effort is coordinated with PE 0603005A.</p> <p><b><i>FY 2015 Accomplishments:</i></b> Conducted analysis of vehicle architecture and power systems. Evaluated Government and contractor developed platform architectures and conducted trades studies, analysis and interface testing to ensure common power architecture designs meet known future vehicle power requirements. Updated VICTORY architecture standards to drive next generation combat platform data and electrical architectures to enable affordable future upgrade capability for the combat fleet. Investigated advanced</p>		5.000	5.000	5.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>capability in integrated platform power management and electrical power generation and distribution while reducing parasitic thermal burdens on the vehicle system.</p> <p><b>FY 2016 Plans:</b> Analyze the next generation power and data architecture and the corresponding system design's interface with vehicle subsystems, specifically powertrain subsystems. Demonstrate electronic control communication between powertrain system components. Mature the engine controls architecture to optimize engine power density, fuel efficiency and heat rejection. Finalize requirements for demonstrating a system design of the next generation power and data architecture integrated on a combat vehicle, in order to validate the open architecture and power and data capabilities required for the Combat Vehicle Prototyping program and future vehicle modernization efforts.</p> <p><b>FY 2017 Plans:</b> Will model and develop a powertrain controls architecture and algorithm to improve powertrain efficiencies and minimize parasitic losses. Will mature and demonstrate the feasibility of realizing a high voltage power electronics architecture to save Size, Weight, and Power (SWaP) and enhance interoperability among system of systems architecture. Will optimize thermal properties of power components leveraging the Vehicle Electronics &amp; Architecture (VEA) Mobile Demonstrator (VMD) effort in coordination with PE 0603005A. Will continue to optimize the performance specification requirements for the next generation power architecture as it applies to combat vehicles and future tactical vehicle modernization efforts.</p>				
<p><b>Title:</b> Ground Vehicle Power and Energy</p> <p><b>Description:</b> This effort matures and demonstrates advanced technologies that enable military ground vehicles to become significantly more energy efficient. It collaborates with the DOE to demonstrate technologies in: advanced combustion engines and transmissions; lightweight structures and materials; energy recovery and thermal management; alternative fuels and lubricants; hybrid propulsion systems; batteries and energy storage; and analytical tools (e.g., modeling and simulation). This effort is coordinated with PE 0602601A.</p> <p><b>FY 2015 Accomplishments:</b> Supported the Advanced Vehicle Power Technology Alliance (AVPTA) to mature advanced modeling tools to understand the behavior of batteries at the component, cell and module/pack levels and aid future efforts to develop new energy storage systems; conducted reliability studies utilizing military form factor advanced chemistry batteries to drive military standards into the commercial sectors, with the intent to reduce the Army cost of advanced batteries; investigate advanced lightweight materials and demonstrated advanced manufacturing techniques to reduce platform structural weight and drive down associated costs; and leveraged significant investments in commercial trucking industry to demonstrate fuel efficient and active safety technologies for Army tactical vehicles.</p> <p><b>FY 2016 Plans:</b></p>		5.076	5.162	5.249

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>Continue to support the AVPTA with the DOE to mature and demonstrate technologies within the alliance technology focus areas. Complete demonstration of lightweight structures and materials using advanced manufacturing techniques. Develop advanced lubricants to help mitigate frictional losses in powertrain to increase vehicle efficiency. Develop the capability to model advanced chemistry batteries and batteries in extreme temperature conditions. Investigate autonomy-enabled technologies and vehicle electrification to leverage common military and industry investments.</p> <p><b>FY 2017 Plans:</b> Will continue to support the AVPTA with the DOE to mature and demonstrate technologies within the alliance technology focus areas. Will provide the capability to model and simulate advanced chemistry batteries and batteries in extreme temperature conditions to improve characterizing battery life cycle estimations. Will mature, and demonstrate friction and wear reduction technologies to increase powertrain and vehicle efficiencies. Will provide tire efficiency optimization to improve vehicle fuel efficiency. Will exploit autonomy-enabled technologies and vehicle electrification to leverage dual use technology maturation. Will continue to support the AVPTA with the DOE to mature and demonstrate technologies within the alliance technology focus areas. Will provide the capability to model and simulate advanced chemistry batteries and batteries in extreme temperature conditions to improve characterizing battery life cycle estimations. Will mature, and demonstrate friction and wear reduction technologies to increase powertrain and vehicle efficiencies. Will provide tire efficiency optimization to improve vehicle fuel efficiency. Will exploit autonomy-enabled technologies and vehicle electrification to leverage dual use technology maturation.</p>				
<p><b>Title:</b> Red Teaming Field Demonstration</p> <p><b>Description:</b> This effort conducts field demonstrations of emerging technologies using realistic environments, scenarios, warfighters, and adaptive adversaries to uncover potential vulnerabilities in systems and identify fixes and improvements earlier in the development cycle. Demonstrated technologies include candidates being developed by the Science and Technology Enterprise as well as those by other Services/Agencies, Academia, and Industry. Some technologies undergoing System Intensive Analysis may be selected to undergo field demonstrations as well. (This effort builds upon the work previously completed in Rapidly Deployable Technologies and Technology Systems Adaptive Red Teaming.)</p> <p><b>FY 2017 Plans:</b> Will conduct a series of live/virtual/hybrid, multi-day, operationally relevant field demonstrations shaped by threat-informed challenges and areas of overmatch concern (e.g., unmanned aerial systems, jamming environments); stress the performance limits of selected emerging systems integrated into increasingly complex scenarios and provide feedback to developers through structured Red, Blue, and White Cell assessments that provide options to reduce or mitigate vulnerabilities; potential technical areas of interest include human performance, advanced weapons, autonomous systems, and electronic warfare.</p>		-	-	8.718
<p><b>Title:</b> Red Teaming Systems Intensive Analysis</p>		-	-	5.107

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p><b>Description:</b> This effort conducts detailed analysis (from concepts to employment to interoperability) for selected technologies with planned or recent transitions to high-priority emerging programs of record associated with contested and congested environments. The intent is to identify and mitigate any identified vulnerabilities as early as possible. Some technologies may be selected to undergo Red Teaming Field Demonstrations to further understand vulnerabilities.</p> <p><b>FY 2017 Plans:</b> Will conduct intensive analysis for several key emerging systems and concepts based on intelligence, requirements, acquisition, and science and technology community stakeholder input for individual, intensive assessment and feedback to uncover vulnerabilities and potential risks pertaining to systems integration, interoperability, adaptability, user technology acceptance, and performance in contested environments; potential technical areas of interest include human performance, advanced weapons, autonomous systems, and electronic warfare.</p>			
<p><b>Title:</b> Red Teaming Vulnerability Exercises</p> <p><b>Description:</b> This effort conducts in-depth assessments of emerging threats and technologies to anticipate future challenges in contested and congested environments, inform threat concepts, adapt system development practices and maintain overmatch capability. This venue allows analysis in areas that would be too dangerous or too expensive to assess during a live demonstration, as well as supports a future "what if" assessment.</p> <p><b>FY 2017 Plans:</b> Will explore alternatives in plans, concepts, operations, and organizations in the context of the operational environment and from the perspective of partners and adversaries; expand hierarchical task analysis methodologies, virtual discovery experiment approach, and implement identified adaptability metrics into structured assessments; tailor or extend assessment frameworks to capture data for analysis and feedback, and provide means to mitigate findings with the goal of informing current or future acquisition programs early in the development lifecycle; potential technical areas of interest include human performance, advanced weapons, autonomous systems, and electronic warfare.</p>	-	-	3.612
<b>Accomplishments/Planned Programs Subtotals</b>	23.334	27.520	27.686

<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A
<b>Remarks</b>
<b>D. Acquisition Strategy</b> N/A

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<b><u>E. Performance Metrics</u></b> N/A
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
DW4: <i>Energy Technologies (Congressional Adds (CAs))</i>	-	0.000	6.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	-

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

This project contains Congressional add funding.

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

	FY 2015	FY 2016
<b><i>Congressional Add:</i></b> Force Protection Radar Development	-	6.000
<b><i>FY 2016 Plans:</i></b> This is a Congressional interest item.		
<b>Congressional Adds Subtotals</b>	-	6.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

N/A