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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604641A / <i>TACTICAL UNMANNED GROUND VEHICLE</i>
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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	-	-	-	6.770	-	6.770	20.290	77.279	92.402	123.352	Continuing	Continuing
DV7: <i>Small Unmanned Ground Vehicle</i>	-	-	-	6.770	-	6.770	20.290	77.279	92.402	123.352	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

The CRS(I) program is the result of the MOA between Director, Army Capabilities Integration Center (DIR ARCIC), United States Army Training and Doctrine Command (TRADOC) and Deputy Commandant for Combat Development and Integration (DC CD&I), Headquarters Marine Corps (HQMC) dated 19 Sep 2012. Thus the CRS(I) program has been jointly developed by the Army and USMC incorporating Army capability requirements, USMC Engineering Squad Robot (ESR) and USMC Tactical Robotic Controller (TRC) capabilities into one program.

As the lead service and in accordance with the Joint MOA Sec. 8.a., the Army will "have responsibility and authority for overall programming, budgeting, obligation, and expenditure of Research, Development, Test, and Evaluation (RDT&E) funding appropriated for program development."

The CRS(I) capability contributes to the essential Joint Operational Concepts (JOC) of: Major Combat Operations (MCO); Military Support to Stabilization, Security, Transition, and Reconstruction (SSTR); Homeland Support and Civil Defense and Joint Functional Concepts (JFC) of: Force Application and Protection. The CRS(I) contributes directly to Situational Awareness, Detect, Protect and Neutralize by providing a standoff hazards interrogation, detection, confirmation and neutralization capability employed to support a wide spectrum of mobility missions for current and future forces by providing required standoff capability across the Warfighting Functions. This capability allows commanders to make more informed decisions and plans, to use their forces more effectively and efficiently to produce desired outcomes, and to conduct focused operations for high-risk missions or selected missions that best satisfy the requirement without the limitations and vulnerabilities of manned systems. The CRS(I) capability provides commanders the ability to persistently monitor the operational environment (OE) while protecting and sustaining the force at standoff distances from the threat. The CRS (I) complements the Joint Integrated Warfighting Force by providing standoff to the Warfighter during Major Combat Operations, stability operations, and homeland security. The CRS(I) provides Warfighters the capability to find and identify targets of interest in the operational environment.

In support of the Joint Ground Robotic Integration Team (JGRIT) and emerging requirements, the Robot Enhancement Program (REP), modeled after the Soldier Enhancement Program (SEP), uses a "buy, try and decide" methodology to evaluate Commercial Off The Shelf (COTS), Government Off The Shelf (GOTS) and Non-Developmental Items (NDI) products that have the potential to enhance Soldier combat effectiveness. Hardware quantities will be limited to one Brigade Combat Team at the envisioned Basis of Issue as well as available SEP/REP funds. Evaluation results obtained will be used to inform emerging requirements documents and Cost-Benefit Analyses to support future Army decision making with actual operational user feedback.

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B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	13.141	-	-	-	-
Current President's Budget	-	-	6.770	-	6.770
Total Adjustments	-13.141	-	6.770	-	6.770
• Congressional General Reductions	-13.141	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	6.770	-	6.770

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604641A / <i>TACTICAL UNMANNED GROUND VEHICLE</i>				Project (Number/Name) DV7 / <i>Small Unmanned Ground Vehicle</i>			
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
<i>DV7: Small Unmanned Ground Vehicle</i>	-	-	-	6.770	-	6.770	20.290	77.279	92.402	123.352	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Note

In FY15 Program Element 0604641A Project DV7 will capture requirements for Common Robotic System (Individual) (CRS(I)) and a number of other emerging robotic systems development and test requirements. This program is a new start in FY15.

This line was established for the Small Unmanned Ground Vehicle (SUGV) program which was terminated effective April 23, 2013.

A. Mission Description and Budget Item Justification

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As the lead service and in accordance with the Joint MOA Sec. 8.a., the Army will "have responsibility and authority for overall programming, budgeting, obligation, and expenditure of Research, Development, Test, and Evaluation (RDT&E) funding appropriated for program development."

The CRS(I) capability contributes to the essential Joint Operational Concepts (JOC) of: Major Combat Operations (MCO); Military Support to Stabilization, Security, Transition, and Reconstruction (SSTR); Homeland Support and Civil Defense and Joint Functional Concepts (JFC) of: Force Application and Protection. The CRS(I) contributes directly to Situational Awareness, Detect, Protect and Neutralize by providing a standoff hazards interrogation, detection, confirmation and neutralization capability employed to support a wide spectrum of mobility missions for current and future forces by providing required standoff capability across the Warfighting Functions. This capability allows commanders to make more informed decisions and plans, to use their forces more effectively and efficiently to produce desired outcomes, and to conduct focused operations for high-risk missions or selected missions that best satisfy the requirement without the limitations and vulnerabilities of manned systems. The CRS(I) capability provides commanders the ability to persistently monitor the operational environment (OE) while protecting and sustaining the force at standoff distances from the threat. The CRS (I) complements the Joint Integrated Warfighting Force by providing standoff to the Warfighter during Major Combat Operations, stability operations, and homeland security. The CRS(I) provides Warfighters the capability to find and identify targets of interest in the operational environment.

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604641A / TACTICAL UNMANNED GROUND VEHICLE	Project (Number/Name) DV7 / Small Unmanned Ground Vehicle
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In support of the Joint Ground Robotic Integration Team (JGRIT) and emerging requirements, the Robot Enhancement Program (REP), modeled after the Soldier Enhancement Program (SEP), uses a "buy, try and decide" methodology to evaluate Commercial Off The Shelf (COTS), Government Off The Shelf (GOTS) and Non-Developmental Items (NDI) products that have the potential to enhance Soldier combat effectiveness. Hardware quantities will be limited to one Brigade Combat Team at the envisioned Basis of Issue as well as available SEP/REP funds. Evaluation results obtained will be used to inform emerging requirements documents and Cost-Benefit Analyses to support future Army decision making with actual operational user feedback.

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

	FY 2013	FY 2014	FY 2015
Title: CRS(I) and emerging robotic requirements.	-	-	6.770
Description: During FY15, the CRS(I) program expects a Material Development Decision (MDD), will initiate an AoA, begin the program Test & Evaluation Working-Level Integrated Product Team (T&E WIPT), form a CRS(I) program IPT to support the AoA and acquisition process, and additionally support JGRIT, emerging robotic system requirements, and REP.			
FY 2015 Plans: JGRIT emerging robotic systems requirements, REP, Material Development Decision (MDD), initiate CRS(I) AoA, begin program Test & Evaluation Working-Level Integrated Product Team (T&E WIPT) and form a CRS(I) program IPT to support the AoA and acquisition process.			
Accomplishments/Planned Programs Subtotals	-	-	6.770

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• F00001: OPA BCT Unmanned Ground Vehicle/JGRIT	6.895	-	-	-	-	2.480	5.953	5.957	5.961	Continuing	Continuing

Remarks

D. Acquisition Strategy

The CRS(I) system will enter the acquisition process in the Material Solution Analysis (MSA) Phase. Per DoDI 5000.02, an Acquisition Strategy is not required in the MSA Phase of the acquisition process. An Analysis of Alternatives (AoA) will be conducted in FY15-16 to determine the best alternatives for the CRS(I) Program to choose from. The Acquisition Strategy for the CRS(I) will be developed based on the outcome of the AoA.

E. Performance Metrics

N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		Date: March 2014
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	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
MDD																												
AoA Approval																												
RFP																												
MS B and Contract Award																												
PDR																												
CDR																												
TRR																												
MS C																												
LRIP																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604641A / <i>TACTICAL UNMANNED GROUND VEHICLE</i>	Project (Number/Name) DV7 / <i>Small Unmanned Ground Vehicle</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MDD	2	2015	2	2015
AoA Approval	2	2016	2	2016
RFP	1	2017	1	2017
MS B and Contract Award	2	2017	2	2017
PDR	3	2017	3	2017
CDR	1	2018	1	2018
TRR	2	2018	2	2018
MS C	2	2019	2	2019
LRIP	2	2019	2	2019