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**Exhibit R-2, RDT&E Budget Item Justification:** FY 2018 Army **Date:** May 2017

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)					<b>R-1 Program Element (Number/Name)</b> PE 0604642A / LIGHT TACTICAL WHEELED VEHICLES							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	0.000	0.494	7.000	-	7.000	8.300	3.000	2.000	2.000	0.000	22.794
E40: LTV Prototype	-	0.000	0.494	7.000	-	7.000	8.300	3.000	2.000	2.000	0.000	22.794

## **Note**

Ground Mobility Vehicle (GMV) is a new start program in FY17. This project includes GMV and Joint Light Tactical Vehicle - Reconnaissance Vehicle (JLTV-RV).

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

The Army Ground Mobility Vehicle (GMV) provides enhanced tactical mobility for an Infantry Brigade Combat Team (IBCT) 9-Soldier infantry squad with their associated equipment to move quickly around the battlefield. This capability is required across the range of military operations facing IBCT units conducting crises response, initial entry, and selected decisive action missions. GMV deploys worldwide by sea, air, and land modes to support strategic deployment and operational maneuver in accordance with Army and Joint doctrine. This capability provides flexibility for entry operations (permissive and non-permissive) to counter threat anti-access strategies by using multiple austere entry points to bring in combined arms configured units.

The Joint Light Tactical Vehicle - Reconnaissance Vehicle (JLTV-RV) was designated as the interim solution (2016 AROCM16-11.2) for the Light Reconnaissance Vehicle (LRV) to address a near term capability gap identified in the U.S. Army Combat Vehicle Modernization Strategy for the IBCT Cavalry Squadrons and Infantry Battalion Scout Platoons. This effort includes increased precision lethality through improved optics and a larger caliber weapon system to provide overmatch and counter threats as forces perform reconnaissance, surveillance and security operations.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Previous President's Budget	0.000	0.494	1.000	-	1.000
Current President's Budget	0.000	0.494	7.000	-	7.000
Total Adjustments	0.000	0.000	6.000	-	6.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	0.000	0.000	6.000	-	6.000

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<p><b>Change Summary Explanation</b></p> <p>FY 2018 Project E40 Base funds in the amount of \$6.000 million will be used for Joint Light Tactical Vehicle - Reconnaissance Vehicle (JLTV-RV) test assets. JLTV-RV was designated as the interim solution (2016 AROCM16-11.2) for the Light Reconnaissance Vehicle (LRV) to address a near term capability gap identified in the U.S. Army Combat Vehicle Modernization Strategy for the IBCT Cavalry Squadrons and Infantry Battalion Scout Platoons.</p>		

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army										Date: May 2017		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604642A / LIGHT TACTICAL WHEELED VEHICLES				Project (Number/Name) E40 / LTV Prototype			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
E40: LTV Prototype	-	0.000	0.494	7.000	-	7.000	8.300	3.000	2.000	2.000	0.000	22.794
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
Ground Mobility Vehicle (GMV) is a new start program in FY17. This project includes GMV and Joint Light Tactical Vehicle - Reconnaissance Vehicle (JLTV-RV).												
A. Mission Description and Budget Item Justification												
The Army Ground Mobility Vehicle (GMV) provides enhanced tactical mobility for an Infantry Brigade Combat Team (IBCT) 9-Soldier infantry squad with their associated equipment to move quickly around the battlefield. This capability is required across the range of military operations facing IBCT units conducting crises response, initial entry, and selected decisive action missions. GMV deploys worldwide by sea, air, and land modes to support strategic deployment and operational maneuver in accordance with Army and Joint doctrine. This capability provides flexibility for entry operations (permissive and non-permissive) to counter threat anti-access strategies by using multiple austere entry points to bring in combined arms configured units.												
The Joint Light Tactical Vehicle - Reconnaissance Vehicle (JLTV-RV) was designated as the interim solution (2016 AROCM16-11.2) for the Light Reconnaissance Vehicle (LRV) to address a near term capability gap identified in the U.S. Army Combat Vehicle Modernization Strategy for the IBCT Cavalry Squadrons and Infantry Battalion Scout Platoons. This effort includes increased precision lethality through improved optics and a larger caliber weapon system to provide overmatch and counter threats as forces perform reconnaissance, surveillance and security operations.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2016	FY 2017	FY 2018
Title: GMV Test Vehicles										-	0.494	-
Description: Purchase GMV Test Vehicles												
FY 2017 Plans:												
Contract award for two each GMV Test Vehicles for destructive testing such as Low Velocity Air Drop (LVAD), Roll over and Durability.												
Title: GMV Testing										-	-	1.450
Description: GMV Operational testing, LVAD, rollover and durability testing												
FY 2018 Plans:												
Developmental Testing of 9-man seating kit, operational testing, LVAD, rollover and durability testing will take place at various locations to prove the vehicle is effective, survivable and sustainable.												
Title: GMV Program Management Support										-	-	0.160

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2016	FY 2017	FY 2018
Description: Personnel and travel												
FY 2018 Plans: Funding personnel and travel related to test support of GMV.												
Title: GMV Seating Kit										-	-	0.390
Description: Development of GMV Seating kit to obtain 9-man seating kit.												
FY 2018 Plans: Development of the GMV seating kit												
Title: JLTV-RV Mission Equipment Packages (MEP)										-	-	0.328
Description: Effort to design/develop the integration kit for the improved optics and weapon system of JLTV.												
FY 2018 Plans: Contract award of work directive on current JLTV contract.												
Title: JLTV-RV Test Assets										-	-	4.139
Description: Purchase JLTV-RV MEP test assets.												
FY 2018 Plans: Test assets for performance testing, Log Demo and Limited User Test.												
Title: JLTV-RV Program Management Support										-	-	0.533
Description: Personnel and Travel												
FY 2018 Plans: Funding to support program management efforts.												
Accomplishments/Planned Programs Subtotals										-	0.494	7.000
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
• D15505: Ground Mobility Vehicle D15505 OPA	-	4.907	40.935	-	40.935	48.078	50.956	50.000	50.000	0.000	244.876	

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<b>C. Other Program Funding Summary (\$ in Millions)</b>											
			<u>FY 2018</u>	<u>FY 2018</u>	<u>FY 2018</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Complete</u>	<u>Total Cost</u>
<b>Remarks</b>											
<b>D. Acquisition Strategy</b>											
<p>GMV Phase I: Per the Directed Requirement procure the GMV capability for 5 Airborne IBCTS through the SOCOM GMV1.1 contract.</p> <p>GMV Phase II: Pursue development of the GMV to fulfill the requirements for the remainder of the IBCTs using a Commercial off the shelf or Non-developmental Item vehicle. A firm fixed priced contract will be awarded through full and open competition. Funding for Phase 2 will be competed in the FY19-23 POM with an expectation that contract award would be in FY20.</p> <p>Pursue development of the JLTV-RV to fulfill near term capability gap identified in the U.S. Army Combat Vehicle Modernization Strategy for the Infantry Brigade Combat Team (IBCT) Cavalry Squadrons and Infantry Battalion Scout Platoons. The JLTV-RV MEP will be incorporated into the current JLTV Technical Data Battalion Scout Platoons. The JLTV-RV MEP will be incorporated into the current JLTV Technical Data Package (TDP) and will be a kit option on the next JLTV contract. The program is planning for the next production contract to be awarded through full and open competition.</p>											
<b>E. Performance Metrics</b>											
N/A											