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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Army **Date:** March 2023

<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 0604622A / Family of Heavy Tactical Vehicles
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	27.406	53.014	44.197	-	44.197	18.430	34.459	39.034	50.005	0.000	266.545
659: Family Of Hvy Tac Veh	-	4.896	24.089	7.232	-	7.232	4.596	11.266	16.038	11.011	0.000	79.128
DG7: Common Tactical Truck	-	-	-	23.905	-	23.905	-	-	-	-	0.000	23.905
E50: TRAILER DEVELOPMENT	-	2.862	0.737	-	-	-	-	-	-	-	0.000	3.599
EZ8: Leader/Follower	-	19.648	28.188	13.060	-	13.060	13.834	23.193	22.996	38.994	0.000	159.913

**Note**

Project DG7 / Common Tactical Truck (CTT) is not a new start effort in Fiscal Year (FY) 2024. The execution for this effort was previously tracked on 0604622A / Family of Heavy Tactical Vehicles - Project Number 659. Out-year funding for CTT is also captured on Project Number 659, but will be transferred to project DG7 before the next budget cycle.

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

This Program Element (PE) aligns system development and demonstration of Heavy Tactical Vehicles (HTV) with Multi-Domain Operations (MDO) requirements to support combat and combat support missions to include line haul, local haul, and unit resupply. HTV trucks transport water, ammunition, and general cargo over all terrains and throughout the battle-space. Systems include the Heavy Expanded Mobility Tactical Truck (HEMTT), Palletized Load System (PLS), Heavy Equipment Transporter System (HETS), Enhanced Heavy Equipment Transporter System (EHETS), Line Haul, Heavy Dump Truck (HDT), medium tactical trailers including the Medium Equipment Trailer (MET), the family of flatbed semitrailers to include but not limited to the 40-Ton M870, 34-Ton M872 and the 25-Ton M172 that support multiple Army missions and the development and demonstration of enablers. Recovery systems such as the Modular Catastrophic Recovery System (MCRS) and other heavy wreckers, that rescue large wheeled vehicle platforms in severe off-road conditions are also included. Periodic evolutionary upgrade of survivability and crew protection as described in the Long Term Protection Strategy (LTPS) is supported by this PE for both the HTV family of vehicles and the Family of Medium Tactical Vehicles (FMTV). Artic and other climate change efforts are also supported by this PE.

The Common Tactical Truck (CTT) is the next generation of tactical trucks to meet the Army's Tactical Wheeled Vehicle (TWV) Modernization Strategy to take full advantage of economies of scale and commonality with the objective to procure a commercial based Family of Vehicles to replace HEMTT, PLS and Line Haul tractors and leverage best commercial practices at lower procurement costs that are autonomy ready. CTT Middle Tier of Acquisition effort is \$60.000 million RDT&E from FY23 to FY26. The remainder of the CTT Program is fully funded across the Future Years Defense Program.

The Leader Follower (LF) funding line supports the Autonomous Transport Vehicle-System (ATV-S) effort that equips Tactical Wheeled Vehicles with autonomous behaviors. Additionally, the capability gives convoy commanders flexibility to leverage the six levels of automated driving that range from Level 0 (Fully Manual) to Level 5 (Fully Autonomous), and any combination therein to conduct convoy operations. Autonomous driving behaviors enables increased operational efficiency of tactical wheeled vehicles resulting in an increase of sustainment throughput while reducing Soldier exposure to hostile threats.

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<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / <i>Family of Heavy Tactical Vehicles</i>
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Funding also supports modernization of the current Tactical Wheeled Vehicle fleets by investigating technology insertions including, but not limited to: Predictive Logistics, vetronics, transportability of tactical wheeled vehicle equipment, vehicle electrification, fully autonomous operations, and other emerging technologies. Funding also supports developing initial prototypes to enable refinement of Operational Requirements and early user feedback to support future sustainment and operational movement operating concepts.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	28.445	50.924	27.866	-	27.866
Current President's Budget	27.406	53.014	44.197	-	44.197
Total Adjustments	-1.039	2.090	16.331	-	16.331
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-2.910			
• Congressional Rescissions	-	-			
• Congressional Adds	-	5.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.039	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	16.331	-	16.331

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

**Project:** 659: *Family Of Hvy Tac Veh*

Congressional Add: *HTV Winter Tires*

	<b>FY 2022</b>	<b>FY 2023</b>
	-	5.000
Congressional Add Subtotals for Project: 659	-	5.000
Congressional Add Totals for all Projects	-	5.000

**Change Summary Explanation**

FY 2024 decrease in EZ8 Leader / Follower due to completion of Operational Technology Demonstration activities in FY 2023. FY 2024 increase in DG7 due to increase in Common Tactical Truck prototype vendors.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2024 Army **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> 659 / Family Of Hvy Tac Veh
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
659: Family Of Hvy Tac Veh	-	4.896	24.089	7.232	-	7.232	4.596	11.266	16.038	11.011	0.000	79.128
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Heavy Tactical Vehicles (HTV) Predictive Logistics (PL) Development enables the Tactical Wheeled Vehicle fleet to transition from time-based/conditioned-based maintenance to the ability to act prior to materiel failure; conserves combat power for the battlefield commander.

Heavy Tactical Vehicles Winter Tire effort develops a winter tire for improved mobility in snow and ice for Heavy Tactical Vehicles (Heavy Expanded Mobility Tactical Truck, Palletized Load System, Heavy Equipment Transporter), in Northern & Arctic Regions.

The Common Tactical Truck (CTT) is a Family of Vehicles (FoV) modernization effort to replace the Line Haul, HEMTT, PLS, Line Haul and M1088 vehicles by leveraging the best commercial practices, lower procurement cost (commercial economies of scale) and technology to include Predictive Logistics, Advanced Driver Assistance Systems (ADAS), and autonomy ready without significantly degrading the performance from current platforms. The total cost of the CTT Middle Tier of Acquisition effort is \$60.000 million RDT&E from FY23 to FY26. The remainder of the CTT Program is fully funded across the Future Years Defense Program.

FY 2024 Project 659 Base funds in the amount of \$7.232 million supports Predictive Logistics (PL) development for Heavy Tactical Vehicles. The PL Development effort provides Heavy Tactical Vehicles with Engineer Change Proposals (ECPs) that will enhance fleet readiness and help to overcome the effects obsolescence.

Matrix Functional Support is required to address/augment Engineering and Logistic functions, capabilities and gaps to supplement core employee competencies. System Engineering oversight and multiple functions of Logistics support such as management, fielding, tracking and documentation is required during the acquisition process.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> Common Tactical Truck (CTT) Non-Recurring Engineering	3.887	0.435	-
<b>Description:</b> Middle Tier Acquisition is being considered for rapid prototyping, including designs by multiple vendors for replacement of the M915 Tractor, Palletized Loading System (PLS) and Heavy Expanded Mobility Tactical Truck (HEMTT).			
<b>FY 2023 Plans:</b> Funds will be used for non-recurring engineering for the development of Common Tactical Truck prototypes.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> 659 / Family Of Hvy Tac Veh		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Decision was made to go from 3 to 4 vendors for CTT and the increase in FY 2023 is to cover an additional vendor.				
<p><b>Title:</b> Common Tactical Truck (CTT) Prototype Manufacturing</p> <p><b>Description:</b> Middle Tier Acquisition is being considered for rapid prototyping, including designs by multiple vendors for replacement of the M915 Tractor, Palletized Loading System (PLS) and Heavy Expanded Mobility Tactical Truck (HEMTT).</p> <p><b>FY 2023 Plans:</b> Funds will be used for the competitive acquisition of Common Tactical Truck prototypes in preparation for test and down-select.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2024 decrease due to the transfer of CTT funding to proj DG7</p>		-	12.300	-
<p><b>Title:</b> Common Tactical Truck (CTT) Matrix Functional Support</p> <p><b>Description:</b> Matrix Functional Support is required to address/augment Engineering and Logistic functions, capabilities and gaps to supplement core employee competencies.</p> <p><b>FY 2023 Plans:</b> Funds will be used for CTT Matrix Functional Support to provide engineering and logistics functions through the prototyping process.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2024 decrease due to the transfer of CTT funding to proj DG7</p>		1.009	2.920	-
<p><b>Title:</b> Common Tactical Truck (CTT) Test Planning Development</p> <p><b>Description:</b> The CTT Prototype Testing and Soldier Touch Points will determine which vendor's prototype meets the program's desired characteristics such as Digitization and Autonomy Ready.</p> <p><b>FY 2023 Plans:</b> Funds will be used for test planning development to ensure testing will begin on schedule.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2024 begins CTT Prototype Testing and Soldier Assessment.</p>		-	1.527	-
<p><b>Title:</b> Common Tactical Truck (CTT) Requirements Framing Analysis</p> <p><b>FY 2023 Plans:</b> Funds will be used for Requirements Framing Analysis (RFA) report.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>		-	0.430	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
FY 2023 completes the Requirements Framing Analysis				
<p><b>Title:</b> Predictive Logistics (PL) Development</p> <p><b>Description:</b> Development of PL Engineer Change Proposals (ECPs) to enable the Tactical Wheeled Vehicle fleet to transition from time-based/conditioned-based maintenance to the ability to act prior to material failure.</p> <p><b>FY 2023 Plans:</b> Begins the development of Engineer Change Proposals (ECPs) for the Digital Source Collector Ruggedized (DSCR), Operator Support Device (OSD), and Digital Logbook (DLB) applications.</p> <p><b>FY 2024 Plans:</b> Development of Engineer Change Proposals (ECPs) for the Digital Source Collector Ruggedized (DSCR), Operator Support Device (OSD), and Digital Logbook (DLB) applications.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2024 continues the Predictive Logistics ECP development effort.</p>		-	0.560	2.007
<p><b>Title:</b> HTV Matrix Functional Support</p> <p><b>FY 2023 Plans:</b> Funding required for the functional matrix support for HTV efforts.</p> <p><b>FY 2024 Plans:</b> Funding required in FY24 for functional matrix support for HTV efforts</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY24 increased due to economic adjustment</p>		-	0.220	0.225
<p><b>Title:</b> Predictive Logistics - Rapid Sustainment Improvement Process (RSIP)</p> <p><b>Description:</b> Rapid Sustainment Improvement Process (RSIP) is used for projects and processes that can improve current sustainment throughout the Department of Defense, including, Capturing information from sensors already on the vehicles, assist with the accurate analysis for system usage, assessing the actual health of the fleet and accurate life cycle cost reporting.</p> <p><b>FY 2024 Plans:</b> FY 2024 funds implements the Rapid Sustainment Improvement Process (RSIP) for predictive logistics in support of the HEMTT and PLS programs.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>		-	-	5.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
FY 2024 begins the RSIP effort for predictive logistics in support of the HEMTT and PLS programs.			
<b>Title:</b> Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR)	-	0.697	-
<b>Description:</b> Funding transferred in accordance with Title 15 USC §638			
<b>FY 2023 Plans:</b> Funding transferred in accordance with Title 15 USC §638			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding transferred in accordance with Title 15 USC §638			
<b>Accomplishments/Planned Programs Subtotals</b>	4.896	19.089	7.232

	FY 2022	FY 2023
<b>Congressional Add:</b> HTV Winter Tires	-	5.000
<b>FY 2023 Plans:</b> Development, prototype builds, and testing of advanced tire technology.		
<b>Congressional Adds Subtotals</b>	-	5.000

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>						
• DA0924: Modification Of In Svc Equip	212.349	140.869	80.326	-	80.326	173.717	240.489	307.662	308.074	Continuing	Continuing
• DA0500: Family Of Heavy Tactical Vehicles (FHTV)	186.643	239.612	66.428	-	66.428	83.265	66.766	70.338	66.283	0.000	779.335

**Remarks**  
DA0924 - Modification Of In Svc Equip and DA0500 - Family of Heavy Tactical Vehicles are shared funding lines with other product offices

**D. Acquisition Strategy**  
The Common Tactical Truck (CTT) Family of Vehicles (FoVs) is a modernization effort to replace the Line Haul, HEMTT, PLS, and M1088 vehicles. The CTT has an approved Abbreviated Capability Development Document (A-CDD) and has been approved to pursue the Middle-Tier of Acquisition Rapid Prototyping pathway with a transition to Major Capability Acquisition for Low-Rate Initial production. The rapid prototyping effort will be executed as a competitive OTA, awarded to four offerors to deliver three prototypes and three digital designs/studies. The Soldier Touch Points and prototype assessments will inform the Capability Development Document (CDD).

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / <i>Family of Heavy Tactical Vehicles</i>	<b>Project (Number/Name)</b> 659 / <i>Family Of Hvy Tac Veh</i>

The strategy to develop, integrate and test Predictive Logistics technologies is to leverage existing capabilities developed commercially and adapt for military use on the tactical wheeled vehicle fleet. Development and testing will be conducted by the U.S. Army Capabilities Development Command and ECPs will be integrated by the vehicle Original Equipment Manufacturers.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> 659 / Family Of Hvy Tac Veh
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<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SBIR/STTR	TBD	Various : Various	-	-		0.697	Jan 2023	-		-		-	0.000	0.697	-
<b>Subtotal</b>			-	-		0.697		-		-		-	0.000	0.697	N/A

<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CTT Non-Recurring Engineering	C/IDIQ	Various : Various	-	3.887	Jan 2023	0.435	Jan 2023	-		-		-	0.000	4.322	-
CTT Prototype Manufacturing	C/IDIQ	Various : Various	-	-		12.300	Jul 2023	-		-		-	0.000	12.300	-
PL Development	TBD	TBD : TBD	-	-		0.875	Jun 2023	2.007	Jan 2024	-		2.007	Continuing	Continuing	-
HTV Winter Tires	TBD	National Center for Manufacturing Sciences Commercial Technologies for Maintenance : Michigan	-	-		2.100	Apr 2023	-		-		-	0.000	2.100	-
PL - Rapid Sustainment Improvement Process (RSIP)	TBD	TBD : TBD	-	-		-		5.000	Jan 2024	-		5.000	Continuing	Continuing	-
<b>Subtotal</b>			-	3.887		15.710		7.007		-		7.007	Continuing	Continuing	N/A

**Remarks**  
 CTT Non-Recurring Engineering and Prototype Manufacturing awarded to four vendors: Mack Defense, Navistar Defense, American Rheinmetall Vehicles, Oshkosh

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army** **Date:** March 2023

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<b>Support (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CTT Acquisition Planning and Document Development	MIPR	TACOM LCMC : Warren, MI	1.007	-		-		-		-		-	0.000	1.007	-
CTT Matrix Functional Support	MIPR	TACOM LCMC : Warren, MI	-	1.009	Dec 2021	2.920	Jan 2023	-		-		-	0.000	3.929	-
Requirement Frame Analysis (RFA) report	MIPR	Ft. Leavenworth, MD : Ft. Leavenworth, MD	-	-		0.430	Mar 2023	-		-		-	0.000	0.430	-
PdM HTV Matrix Functional Support	MIPR	TACOM, LCMC : Warren, MI	-	-		0.220	Mar 2023	0.225	Mar 2024	-		0.225	Continuing	Continuing	-
HTV Winter Tires Support Cost	TBD	TACOM, LCMC : Warren, MI	-	-		1.579	Jul 2023	-		-		-	0.000	1.579	-
<b>Subtotal</b>			1.007	1.009		5.149		0.225		-		0.225	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CTT Test Planning Development	MIPR	Aberdeen Test Center (ATC) : Aberdeen, MD	-	-		1.212	Aug 2023	-		-		-	0.000	1.212	-
HTV Winter Tires Testing	TBD	Gound Vehicle Systems Center, Michigan Technological University : Michigan	-	-		1.321	Jul 2023	-		-		-	0.000	1.321	-
<b>Subtotal</b>			-	-		2.533		-		-		-	0.000	2.533	N/A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	1.007	4.896	24.089	7.232	-	7.232	Continuing	Continuing	N/A



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> 659 / Family Of Hvy Tac Veh

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
<b>PL Development</b>																												
PL ECP Development																												
PL ECP Production																												
<b>Common Tactical Truck (CTT)</b>																												
A-CDD																												
ASP #1																												
ASP #2																												
OTA #1 RPP																												
RFA, Trade-Space Analysis, CDD Development																												
OTA #1 Award																												
DP MTA-RP Entry																												
MS C Documentation																												
Test Plan Development																												

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> 659 / Family Of Hvy Tac Veh

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028							
	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				
Prototype Delivery									▲ 7																							
Performance & Durability Testing / Soldier Touch Point																																
AoA or AoA Sufficiency Memo																																
CDD Document Staffing																																
AROC																																
JROC																																
CDD																																
MDD/MS C																																
LRIP/Production Phase																																
IDIQ #1 Award																																
Runoff testing																																
Test Asset Delivery																																
LRIP																																

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>			<b>Date: March 2023</b>		
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Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
HTV Winter Tire																												
HTV Winter Tire Testing																												

Test and Development

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Army		<b>Date:</b> March 2023
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
PL Development	1	2024	4	2027
PL ECP Development	1	2024	4	2027
PL ECP Production	2	2026	4	2028
Common Tactical Truck (CTT)	1	2021	4	2027
A-CDD	2	2022	2	2022
ASP #1	2	2022	2	2022
ASP #2	3	2022	3	2022
OTA #1 RPP	3	2022	3	2022
RFA, Trade-Space Analysis, CDD Development	4	2022	3	2025
OTA #1 Award	2	2023	2	2023
DP MTA-RP Entry	2	2023	2	2023
MS C Documentation	3	2023	2	2026
Test Plan Development	4	2023	1	2024
Prototype Delivery	2	2024	2	2024
Performance & Durability Testing / Soldier Touch Point	2	2024	4	2024
AoA or AoA Sufficiency Memo	2	2024	2	2025
CDD Document Staffing	1	2025	2	2026
AROC	4	2025	4	2025
JROC	2	2025	2	2025
CDD	2	2026	2	2026
MDD/MS C	3	2026	3	2026
LRIP/Production Phase	1	2027	4	2029

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2024 Army **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / <i>Family of Heavy Tactical Vehicles</i>	<b>Project (Number/Name)</b> 659 / <i>Family Of Hvy Tac Veh</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
IDIQ #1 Award	1	2027	1	2027
Runoff testing	3	2027	3	2028
Test Asset Delivery	4	2027	4	2027
LRIP	4	2028	4	2028
HTV Winter Tire	3	2023	4	2024
HTV Winter Tire Testing	3	2023	4	2024

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**Exhibit R-2A, RDT&E Project Justification:** PB 2024 Army **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> DG7 / Common Tactical Truck
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
DG7: Common Tactical Truck	-	-	-	23.905	-	23.905	-	-	-	-	0.000	23.905
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

Project DG7 / Common Tactical Truck (CTT) is not a new start effort in Fiscal Year (FY) 2024. The execution for this effort was previously tracked on 0604622A / Family of Heavy Tactical Vehicles - Project Number 659. Out-year funding for CTT is also captured on Project Number 659, but will be transferred to project DG7 before the next budget cycle.

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

The Common Tactical Truck (CTT) is a Family of Vehicles (FoV) modernization effort to replace the Line Haul, HEMTT, PLS, and M1088 vehicles by leveraging the best commercial practices, lower procurement cost (commercial economies of scale) and technology to include Predictive Logistics, Advanced Driver Assistance Systems (ADAS), and autonomy ready without significantly degrading the performance from current platforms.

FY 2024 Project DG7 Base funds in the amount of \$23.905 million supports the award of the third phase of the OTA Award as well as the CTT Prototype Testing and Soldier Assessment. The CTT Prototype Testing and Soldier Assessment will determine which vendors bring the best value to the government while meeting the CTT requirement. The CTT supports the National Defense Strategy for modernization by providing the warfighter the updated transportation technologies that are aligned with what is available in the marketplace.

The total cost of the CTT Middle Tier of Acquisition effort is \$60.000 million RDT&E from FY23 to FY26. The remainder of the CTT Program is fully funded across the Future Years Defense Program.

Matrix Functional Support is required to address/augment Engineering and Logistic functions, capabilities and gaps to supplement core employee competencies. System Engineering oversight and multiple functions of Logistics support such as management, fielding, tracking and documentation is required during the acquisition process.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> CTT Prototype Manufacturing	-	-	8.170
<b>FY 2024 Plans:</b> Funding for phase three of OTA award.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> DG7 / Common Tactical Truck		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Funding for CTT realigned to project DG7 starting in FY24.				
<b>Title:</b> CTT Matrix Functional Support <b>FY 2024 Plans:</b> Funding for CTT matrix functional support. <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding for CTT realigned to project DG7 starting in FY24.		-	-	3.860
<b>Title:</b> CTT Prototype Testing <b>FY 2024 Plans:</b> Funding used for the testing of the CTT prototypes from the four vendors. <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding for CTT realigned to project DG7 starting in FY24.		-	-	9.609
<b>Title:</b> CTT Soldier Assessment <b>FY 2024 Plans:</b> Funding for the Soldier assessment of the CTT prototypes. <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding for CTT realigned to project DG7 starting in FY24.		-	-	2.266
<b>Accomplishments/Planned Programs Subtotals</b>		-	-	23.905
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b> The Common Tactical Truck (CTT) Family of Vehicles (FoVs) is a modernization effort to replace the Line Haul, HEMTT, PLS, and M1088 vehicles. The CTT has an approved Abbreviated Capability Development Document (A-CDD) and has been approved to pursue the Middle-Tier of Acquisition Rapid Prototyping pathway with a transition to Major Capability Acquisition for Low-Rate Initial production. The rapid prototyping effort will be executed as a competitive OTA, awarded to four offerors to deliver three prototypes and three digital designs/studies. The Soldier Touch Points and prototype assessments will inform the Capability Development Document (CDD).				

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> DG7 / Common Tactical Truck
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CTT Prototype Manufacturing	C/DIQ	TBD : TBD	-	-		-		8.170	Dec 2023	-		8.170	0.000	8.170	-
<b>Subtotal</b>			-	-		-		8.170		-		8.170	0.000	8.170	N/A

**Remarks**  
CTT Non-Recurring Engineering and Prototype Manufacturing awarded to four vendors: Mack Defense, Navistar Defense, American Rheinmetall Vehicles, Oshkosh

<b>Support (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Matrix Functional Support	MIPR	TACOM LCMP : Warren, MI	-	-		-		3.860	Jan 2024	-		3.860	0.000	3.860	-
<b>Subtotal</b>			-	-		-		3.860		-		3.860	0.000	3.860	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CTT Prototype Testing	MIPR	U.S. Army Test Center : Aberdeen, MD	-	-		-		9.609	Feb 2024	-		9.609	0.000	9.609	-
CTT Soldier Assessment	MIPR	Aberdeen Test Center : ATC, MD	-	-		-		2.266	May 2024	-		2.266	0.000	2.266	-
<b>Subtotal</b>			-	-		-		11.875		-		11.875	0.000	11.875	N/A

			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			-	-	-	23.905	-	23.905	0.000	23.905	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> DG7 / Common Tactical Truck

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
A-CDD	▲ 1																											
ASP #1	▲ 2																											
ASP #2		▲ 3																										
OTA #1 RPP			▲ 4																									
RFA, Trade-Space Analysis, CDD Development																												
OTA #1 Award					▲ 5																							
DP MTA-RP Entry					▲ 6																							
MS C Documentation																												
Test Plan Development																												
Prototype Delivery											▲ 7																	
Performance & Durability Testing / Solider Touch Points																												
AoA or AoA Sufficiency Memo																												
CDD Document Staffing																												

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> DG7 / Common Tactical Truck

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028								
	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					
AROC													8																				
JROC													9																				
CDD													10																				
MDD/MS C													11																				
LRIP/Production Phase																																	
IDIQ #1 Award																									12								
Runoff Testing																																	
Test Asset Delivery																													13				
LRIP																					14												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> DG7 / Common Tactical Truck

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
A-CDD	2	2022	2	2022
ASP #1	2	2022	2	2022
ASP #2	3	2022	3	2022
OTA #1 RPP	3	2022	3	2022
RFA, Trade-Space Analysis, CDD Development	4	2022	3	2025
OTA #1 Award	2	2023	2	2023
DP MTA-RP Entry	2	2023	2	2023
MS C Documentation	3	2023	2	2026
Test Plan Development	4	2023	1	2024
Prototype Delivery	2	2024	2	2024
Performance & Durability Testing / Solider Touch Points	2	2024	4	2024
AoA or AoA Sufficiency Memo	2	2024	2	2025
CDD Document Staffing	1	2025	2	2026
AROC	4	2025	4	2025
JROC	2	2026	2	2026
CDD	2	2026	2	2026
MDD/ MS C	3	2026	3	2026
LRIP/Production Phase	1	2027	4	2029
IDIQ #1 Award	1	2027	1	2027
Runoff Testing	3	2027	3	2028
Test Asset Delivery	4	2027	4	2027
LRIP	4	2028	4	2028

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**Exhibit R-2A, RDT&E Project Justification:** PB 2024 Army **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> E50 / TRAILER DEVELOPMENT
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
E50: TRAILER DEVELOPMENT	-	2.862	0.737	-	-	-	-	-	-	-	0.000	3.599
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Medium Equipment Trailer (MET) provides critical layered, agile and responsive sustainment capability required for Large Scale Combat Operations (LSCO). The MET supports Multi-Domain Operations (MDO) with the ability to maneuver across strategic distances by providing intermediate weight combat vehicles transportation for a competitive advantage. The MET will be assigned to Heavy Equipment Transporter Systems (HETS) Companies and Composite Truck Companies- Heavy (CTC-H) to expeditiously move Combat Tracked Vehicles such as the Bradley Fighting Vehicle, Armored Multi-Purpose Vehicles (AMPV), Paladin and Field Artillery Ammunition Support Vehicles (FAASV) with a threshold of up to 60 tons and an objective to meet up to 70 tons while also obtaining North Atlantic Treaty Organization (NATO) road permits with a 45 ton payload. The MET will also be capable of transporting vehicles at the OCONUS standard minimum bridge and underpass clearance of 157.5 inches (4 meters).

There are no FY 2024 Project E50 requirements.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> Medium Equipment Trailer (MET) Prototype Testing and Soldier Assessment	2.510	0.710	-
<b>Description:</b> MET prototypes will be tested to determine which trailer provides the best value to the Government while meeting the MET requirement. To assist in determining the best value to the Government, a Soldier touch point will also be a part of the evaluation. The best value determination will be used to support a follow on production contract.			
<b>FY 2023 Plans:</b> Completion of the MET Prototype Competitive Run-off Testing and Soldier Assessment.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2023 completes MET Testing.			
<b>Title:</b> Functional Matrix Support	0.352	-	-
<b>Title:</b> SIBR/STTR	-	0.027	-
<b>Description:</b> SIBR/STTR Transfer			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> E50 / TRAILER DEVELOPMENT
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
<b>FY 2023 Plans:</b> SIBR/STTR Transfer			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> SIBR/STTR Transfer for FY23			
<b>Accomplishments/Planned Programs Subtotals</b>	2.862	0.737	-

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• DA0926: MODIFICATION APPLICATION	11.710	13.070	26.717	-	26.717	98.556	144.206	189.782	189.944	0.000	673.985
• D08921: MEDIUM EQUIPMENT TRAILER (MET)	-	20.265	41.639	-	41.639	62.527	61.913	61.833	62.632	0.000	310.809

**Remarks**

**D. Acquisition Strategy**  
The Acquisition Strategy is to execute the MET as a competitive Other Transaction Agreement (OTA) awarded to two Original Equipment Manufacturers (OEMs). The OEMs will provide three prototypes per vendor in preparation to test and down-select to one vendor for follow-on production.



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> E50 / TRAILER DEVELOPMENT

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				
	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	
<b>Medium Equipment Trailer (MET)</b>																													
MET Other Transaction Agreement (OTA) Award	1																												
	Prototype Contract Award																												
MET Prototype Manufacturing																													
	Prototype Build																												
MET Competitive Run-off Test																													
					Runoff Test																								
MET OTA Down Select								1																					
								OTA Down Select																					
MET Milestone C								2																					
								MSC																					

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / <i>Family of Heavy Tactical Vehicles</i>	<b>Project (Number/Name)</b> E50 / <i>TRAILER DEVELOPMENT</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Medium Equipment Trailer (MET)	1	2022	4	2023
MET Materiel Development Decision	2	2021	2	2021
MET Request Prototype Proposal (RPP)	3	2021	3	2021
MET Other Transaction Agreement (OTA) Award	1	2022	1	2022
MET Prototype Manufacturing	1	2022	4	2022
MET Competitive Run-off Test	1	2023	3	2023
MET OTA Down Select	3	2023	3	2023
MET Milestone C	4	2023	4	2023

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**Exhibit R-2A, RDT&E Project Justification:** PB 2024 Army **Date:** March 2023

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> EZ8 / Leader/Follower
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
<i>EZ8: Leader/Follower</i>	-	19.648	28.188	13.060	-	13.060	13.834	23.193	22.996	38.994	0.000	159.913
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Leader Follower (LF) funding line supports the Autonomous Transport Vehicle-System (ATV-S) effort that equips Tactical Wheeled Vehicles with autonomous behaviors. Additionally, the capability gives convoy commanders flexibility to leverage the six levels of automated driving that range from Level 0 (Fully Manual) to Level 5 (Fully Autonomous), and any combination therein to conduct convoy operations. Autonomous driving behaviors enables increased operational efficiency of tactical wheeled vehicles resulting in an increase of sustainment throughput while reducing Soldier exposure to hostile threats.

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

	FY 2022	FY 2023	FY 2024
<p><b>Title:</b> Tactical Wheeled Vehicle Leader Follower (Autonomous Transport Vehicle-System)</p> <p><b>Description:</b> Leader Follower (Autonomous Transport Vehicle-System program) equips Tactical Wheeled Vehicles with autonomous behaviors to reduce Soldier risk and increase convoy throughput.</p> <p><b>FY 2023 Plans:</b> FY 2023 funds support the ongoing Operation Technology Demonstration (OTD) and associated close-out activities, to include contractor support to return supplied OTD vehicles to their deployable configuration. FY 2023 funds also support the development of acquisition pathway documentation, solicitation development, continued development of Government owned software to be provided as part of the solicitation, source selection and award for test and evaluation assets.</p> <p><b>FY 2024 Plans:</b> FY 2024 funds agile software development for additional autonomous behaviors, configuration management, competitive demonstration &amp; evaluation, and logistics activities.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FY 2023 to FY 2024 decrease in funding results from the OTD closeout.</p>	19.648	27.159	13.060
<p><b>Title:</b> SBIR/STTR Transfer</p> <p><b>Description:</b> Funding transferred in accordance with Title 15 USC §638</p> <p><b>FY 2023 Plans:</b> SBIR / STTR</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>	-	1.029	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> EZ8 / Leader/Follower
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
FY 2023 funding captures SBIR / STTR reduction.			
<b>Accomplishments/Planned Programs Subtotals</b>	19.648	28.188	13.060

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• R06806: Leader/ Follower Applique (L/F)	-	-	0.438	-	0.438	0.576	1.231	1.218	1.219	0.000	4.682

**Remarks**

**D. Acquisition Strategy**  
 The Leader Follower (Autonomous Transport Vehicle-System (ATV-S) program) strategy involves transitioning a Science & Technology project to equip tactical wheeled vehicles with autonomous behaviors. The ATV-S program is pursuing a Middle Tier of Acquisition (MTA) Rapid Prototyping pathway to compete solutions, down select to a single contractor, and build demonstration prototypes to gain operational feedback. The Government will be conducting agile software development with the awarded contractor to increase capability throughout the planned MTA effort.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army												Date: March 2023			
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604622A / Family of Heavy Tactical Vehicles					Project (Number/Name) EZ8 / Leader/Follower						
Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
LF / ATV-S Program Management	Allot	PM FP : Warren, MI; Harrison Twp, MI	2.635	1.450	Oct 2021	2.750	Oct 2022	1.833	Oct 2023	-		1.833	0.000	8.668	-
SBIR/STTR Transfer	TBD	Various : Various	-	-		1.029		-		-		-	0.000	1.029	-
<b>Subtotal</b>			2.635	1.450		3.779		1.833		-		1.833	0.000	9.697	N/A
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Operational Technology Demonstration, Maturation, And Close Out	C/CPFF	Multiple : Various	-	15.883	Feb 2022	6.525	Apr 2023	-		-		-	0.000	22.408	-
Prototyping Competition Award	C/CPFF	Multiple : Various	-	-		4.150	Aug 2023	5.435	Nov 2023	-		5.435	0.000	9.585	-
<b>Subtotal</b>			-	15.883		10.675		5.435		-		5.435	0.000	31.993	N/A
Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Tech Support	MIPR	GVSC, TACOM : Warren, MI	1.634	0.791	Oct 2021	12.984	Oct 2022	5.042	Oct 2023	-		5.042	0.000	20.451	-
<b>Subtotal</b>			1.634	0.791		12.984		5.042		-		5.042	0.000	20.451	N/A
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Test Support	MIPR	A TEC : Aberdeen, MD	3.653	1.524	Apr 2022	0.750	Feb 2023	0.750	Mar 2023	-		0.750	0.000	6.677	-
<b>Subtotal</b>			3.653	1.524		0.750		0.750		-		0.750	0.000	6.677	N/A









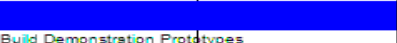
**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2024 Army								<b>Date:</b> March 2023			
<b>Appropriation/Budget Activity</b> 2040 / 5				<b>R-1 Program Element (Number/Name)</b> PE 0604622A / <i>Family of Heavy Tactical Vehicles</i>				<b>Project (Number/Name)</b> EZ8 / <i>Leader/Follower</i>			
	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>		
<b>Project Cost Totals</b>	7.922	19.648	28.188	13.060	-	13.060	0.000	68.818	N/A		

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date: March 2023</b>
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / Family of Heavy Tactical Vehicles	<b>Project (Number/Name)</b> EZ8 / Leader/Follower

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
Operational Technology Demonstration (OTD)																												
OTD Close Out Award					 OTD Close Out Award																							
OTD Close Out					 OTD Close Out																							
Agile Software Development and Configuration Management																												
Acquisition Pathway Initiation					 Acquisition Pathway Initiation																							
Prototyping Award					 Prototyping Award																							
Build and Integrate Test Assets									 Build and Integrate Test Assets																			
Demostration and Evaluation / Downselect													 Demostration and Evaluation / Downselect															
Test and Evaluation / Downselect																	 Test and Evaluation / Downselect											
Award Demonstration Prototypes																	 Award Demonstration Prototypes											
Build Demonstration Prototypes																					 Build Demonstration Prototypes							

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604622A / <i>Family of Heavy Tactical Vehicles</i>	<b>Project (Number/Name)</b> EZ8 / <i>Leader/Follower</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Operational Technology Demonstration (OTD)	1	2022	4	2023
OTD Close Out Award	3	2023	3	2023
OTD Close Out	3	2023	3	2024
Agile Software Development and Configuration Management	1	2023	4	2028
Acquisition Pathway Initiation	4	2023	4	2023
Prototyping Award	4	2023	4	2023
Build and Integrate Test Assets	1	2024	4	2024
Demostration and Evaluation / Downselect	4	2024	2	2025
Test and Evaluation / Downselect	3	2025	4	2025
Award Demonstration Prototypes	1	2026	1	2026
Build Demonstration Prototypes	1	2026	4	2027