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

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0203758A / Digitization							
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	-	3.759	-	1.515	-	1.515	1.559	1.560	1.605	1.622	Continuing	Continuing
374: HOR Battlefield Digitizn	-	3.759	-	1.515	-	1.515	1.559	1.560	1.605	1.622	Continuing	Continuing

A. Mission Description and Budget Item Justification

As the Army Equipping methodology transitions to the Army Modernization Enterprise or AME the information technology used to support Army Equipping must grow and change. The development of an upgraded Army Equipping Enterprise System (AE2S) will integrate and share programming data (dollars and quantities) with information from IT systems that support the Army Futures Command (AFC), ASA(ALT), ASA(FM&C) and Army G3/5/7. This data sharing will allow the AME to provide Army Senior Leaders with a complete picture of how well programs are executing, the impacts of programming decisions on Army current and future readiness and modernization, and help develop a road map needed to transition the current force to a fully modernize Army. The AE2S next generation capability requirements include a flexible data and software architectures that allows the user to integrate disparate data from differing architectures in order to develop new information that can be turned into actionable knowledge by senior leaders. The software architecture must have data visualization capabilities that allow the user to display data in ways that can articulate how AME decisions made impact warfighting effectiveness and plans.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	3.903	2.100	2.106	-	2.106
Current President's Budget	3.759	0.000	1.515	-	1.515
Total Adjustments	-0.144	-2.100	-0.591	-	-0.591
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-2.100			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.144	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.591	-	-0.591

Change Summary Explanation

FY2024 funds reduced to support higher Army priorities.

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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
374: HOR Battlefield Digitizn	-	3.759	-	1.515	-	1.515	1.559	1.560	1.605	1.622	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

As the Army Equipping methodology transitions to the Army Modernization Enterprise or AME the information technology used to support Army Equipping must grow and change. The development of an upgraded Army Equipping Enterprise System (AE2S) will integrate and share programming data (dollars and quantities) with information from IT systems that support the Army Futures Command (AFC), ASA(ALT), ASA(FM&C) and Army G3/5/7. This data sharing will allow the AME to provide Army Senior Leaders with a complete picture of how well programs are executing, the impacts of programming decisions on Army current and future readiness and modernization, and help develop a road map needed to transition the current force to a fully modernize Army. The AE2S next generation capability requirements include a flexible data and software architectures that allows the user to integrate disparate data from differing architectures in order to develop new information that can be turned into actionable knowledge by senior leaders. The software architecture must have data visualization capabilities that allow the user to display data in ways that can articulate how AME decisions made impact warfighting effectiveness and plans.

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

	FY 2022	FY 2023	FY 2024
<p>Title: Interoperability and Integration</p> <p>Description: Conducts independent analyses of Army, joint, and multinational interfaces, adherence to standards, implementation profiles, and interoperability baselines.</p> <p>FY 2024 Plans: Contractor will continue to conduct independent analyses of Army, joint, and multinational interfaces, adherence to standards, implementation profiles, and interoperability baselines.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY2024 funding increase to conduct independent analyses of interfaces, adherence to standards, implementation profiles and interoperability baselines.</p>	0.901	-	0.315
<p>Title: Operational Capability Analysis and Evaluation</p> <p>Description: Conducts iterative capability analyses and assessments consistent with CJCSI 3170 (JCIDS) and 6212 (Net Readiness) to ensure Army and joint program technical and operational requirements are consistent.</p> <p>FY 2024 Plans:</p>	0.866	-	0.304

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Contractor will continue to conduct iterative capability analyses and assessments consistent with CJCSI 3170 (JCIDS) and 6212 (Net Readiness) to ensure Army and joint program technical and operational requirements are consistent. Efforts support Army and joint initiatives. FY 2023 to FY 2024 Increase/Decrease Statement: FY2024 funding increase to conduct capability analyses and assessments consistent with JCIDS and Net Readiness.				
Title: Systems Architecture Development Description: Conducts broad concept studies with emphasis on interoperability and joint coalition operations. FY 2024 Plans: FFRDC contractor will continue to conduct broad concept studies with emphasis on interoperability and joint coalition operations. FY 2023 to FY 2024 Increase/Decrease Statement: FY2024 funding increase to conduct broad concept studies with emphasis on interoperability and joint coalition operations.		0.633	-	0.515
Title: AE2S Software Description: Procures AE2S software integration and enhancements for the single program language, single platform system that incorporates FDIIS, CEaVa, COP, and AFM.		0.566	-	-
Title: Technical Reviews and Technical Performance Analysis Description: Provides technology maturity assessments, prepare technical recommendations in support of Army Transformation and specific technologies of interest, including test and evaluate network systems, and infrastructure modeling and simulations to the G-8. FY 2024 Plans: Contractor will continue to provide technology maturity assessments, prepare technical recommendations in support of Army Transformation and specific technologies of interest, including test and evaluate network systems, and infrastructure modeling and simulations to the G-8. FY 2023 to FY 2024 Increase/Decrease Statement: FY2024 funding increase to provide technology maturity assessments and technical recommendations to support Army transformation.		0.686	-	0.243
Title: Academic Research Description: Apply university academic and research resources to the integration of Army complex modeling, simulation, and training in support of modernized forces.		0.107	-	0.138

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p><i>FY 2024 Plans:</i> Contractor will continue to apply university academic and research resources to the integration of Army complex modeling, simulation, and training in support of modernized forces.</p> <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> FY2024 funding increase applies university academic research to integration of modeling, simulation and training in support of modernized forces.</p>			
Accomplishments/Planned Programs Subtotals	3.759	-	1.515

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

N/A

Remarks

D. Acquisition Strategy

The AE2S development will be done through either a competitive Cost Plus or Fixed Price Incentive contracts that will deliver capabilities in increments, recognizing up front the need for future improvements. The objective of the strategy is to develop and optimize system capabilities while reducing risk and streamlining business and engineering processes.

FFRDC requirements will be accomplished by competitive contract.

Other efforts will be accomplished by various contract methods and types.

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

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Product Development (\$ in Millions)				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			
Army Equipping Enterprise SSystem (AE2S) Software	C/CPFF	TBD : TBD	11.654	0.566		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			11.654	0.566		-		-		-		-	Continuing	Continuing	N/A

Support (\$ in Millions)				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			
Interoperability and Integration	Various	Various : Various	10.045	0.901		-		0.315		-		0.315	0.000	11.261	-
Operational Capability Analysis and Evaluation	Various	VAR : VAR	9.349	0.866		-		0.304		-		0.304	0.000	10.519	-
Academic Research	Various	Various : Various	3.511	0.107		-		0.138		-		0.138	0.000	3.756	-
Systems Architecture Development	Various	VAR : VAR	8.184	0.633		-		0.515		-		0.515	0.000	9.332	-
Technical Reviews and Technical Performance Analysis	Various	VAR : VAR	8.007	0.686		-		0.243		-		0.243	0.000	8.936	-
Subtotal			39.096	3.193		-		1.515		-		1.515	0.000	43.804	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	
Project Cost Totals		50.750	3.759	-	1.515	-	1.515	Continuing	Continuing	N/A

Remarks

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

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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
Interoperability and Integration																												
Operational Capability Analysis and Evaluation																												
Technical Reviews and Technical Performance Analysis																												
Academic Research																												

Note
None.

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

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Interoperability and Integration	1	2016	4	2023
Operational Capability Analysis and Evaluation	1	2016	4	2022
Systems Architecture Development 1.0	2	2015	2	2016
Systems Architecture Development 2.0	3	2016	3	2017
Systems Architecture Development 3.0	4	2017	4	2018
Systems Architecture Development 4.0	1	2019	1	2020
Systems Architecture Development 5.0	2	2020	4	2021
Army Equipping Enterprise System (AE2S) Software SW 1.0	2	2015	2	2016
Army Equipping Enterprise System (AE2S) Software SW 2.0	3	2016	3	2017
Army Equipping Enterprise System (AE2S) Software SW 3.0	4	2017	4	2018
Army Equipping Enterprise System (AE2S) Software SW 4.0	1	2019	1	2020
Army Equipping Enterprise System (AE2S) Software SW 5.0	2	2020	4	2021
Technical Reviews and Technical Performance Analysis	1	2015	4	2022
Academic Research	3	2015	4	2022