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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0604100A / <i>Analysis Of Alternatives</i>							
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	9.396	10.023	10.082	-	10.082	10.216	10.418	10.754	10.864	0.000	71.753
EC7: <i>Analysis Of Alternatives</i>	-	9.396	10.023	10.082	-	10.082	10.216	10.418	10.754	10.864	0.000	71.753

A. Mission Description and Budget Item Justification

This Program Element (PE) provides funding for analytical support of Analysis of Alternatives. Analyses of Alternatives are statutory requirements for Major Defense Acquisition Programs and regulatory for all other programs. Based on Department of Defense Instruction (DoDI) 5000.02, Analyses of Alternatives are required to be completed for a new start program prior to its first Milestone Decision. The PE provides analytical capability for Pre-Milestone A programs that emerge outside the normal budget or POM cycles. Normally these programs are without program managers and require analysis to support Congressional, Defense and Army Senior Leader's requirement and acquisition needs and priorities. The Analyses of Alternatives support the preparation of the Capability Development Document, Key Performance Parameters and Thresholds values and tradeoff analysis. The cited work is consistent with the Army Futures Command Science and Technology priority focus areas and the Army Modernization Strategy and Guidance. Work in this PE is performed by analytical agencies such as The Research and Analysis Center and Data and Analysis Center. The Army is projecting to start work on multiple Analyses of Alternatives beginning in Fiscal Year 2021 (FY21), and will assess and fund the highest Congressional, Defense and Army Senior Leader's priorities during the year of execution.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	9.753	10.023	10.092	-	10.092
Current President's Budget	9.396	10.023	10.082	-	10.082
Total Adjustments	-0.357	0.000	-0.010	-	-0.010
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.357	-			
• Adjustments to Budget Years	-	-	-0.010	-	-0.010

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Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604100A / <i>Analysis Of Alternatives</i>				Project (Number/Name) EC7 / <i>Analysis Of Alternatives</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
EC7: <i>Analysis Of Alternatives</i>	-	9.396	10.023	10.082	-	10.082	10.216	10.418	10.754	10.864	0.000	71.753
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides funding for analytical support of Analysis of Alternatives. Analyses of Alternatives are statutory requirements for Major Defense Acquisition Programs and regulatory for all other programs. Based on Department of Defense Instruction (DoDI) 5000.02, Analyses of Alternatives are required to be completed for a new start program prior to its first Milestone Decision. The Project provides analytical capability for Pre-Milestone A programs that emerge outside the normal budget or POM cycles. Normally these programs are without program managers and require analysis to support Congressional, Defense and Army Senior Leader's requirement and acquisition needs and priorities. The Analyses of Alternatives support the preparation of the Capability Development Document, Key Performance Parameters and Thresholds values and tradeoff analysis. The cited work is consistent with the Army Futures Command Science and Technology priority focus areas and the Army Modernization Strategy and Guidance. Work in this Project is performed by analytical agencies such as The Research and Analysis Center and Data and Analysis Center. The Army is projecting to start work on multiple Analyses of Alternatives beginning in Fiscal Year 2021 (FY21) and will assess and fund the highest Congressional, Defense and Army Senior Leader's priorities during the year of execution.

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

	FY 2019	FY 2020	FY 2021
Title: Analysis of Alternatives	9.396	9.567	10.082
Description: This Project provides funding for analytical support for the following efforts:			
FY 2020 Plans: FY 2020 funding supports analysis for new start programs that do not yet have a program manager assigned and to augment program manager funds where requirement decisions drive changes in scope or increased fidelity to achieve Congressional, Defense and Army Senior Leaders priority intent and interest. The analysis initiation, scope, and fidelity are determined in accordance with U.S. Army Future Command processes prior to the Materiel Development Decision and synchronized to support Joint and Army Requirement Oversight Councils' (JROC and AROC) and Acquisition Executive/Program decisions. Current projections indicate multiple new start programs will need to start their Analysis of Alternatives in FY 2020, including Unified Network Operations, Terrain Shaping Obstacles, Aircraft Survivability Equipment, Next Generation Aerial ISR/MDSS, Maneuver Short Range Air Defense, Assured Positioning, Navigation Timing, Precision Strike Missile, Terrestrial Layer Intelligence Support for Multi-Domain Battle/Joint Combined Army Maneuver, Robotic Combat Vehicle, and Future Tactical Unmanned Aircraft System. In addition, several Analyses of Alternatives started in FY 2019 will continue to require analysis funding into FY 2020, to include Next Generation Combat Vehicle, Optionally Manned Fighting Vehicle, and Future Vertical Lift, Future Attack Recon Aircraft Capability Set 1. In the Spring of 2020 (on or about 1 May) we can provide, as desired, the Committee an updated listing of projected FY 2020 new start program Analyses of Alternatives.			
FY 2021 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2019	FY 2020	FY 2021
<p>FY 2021 funding supports analysis for new start programs that do not yet have a program manager assigned and to augment program manager funds where requirement decisions drive changes in scope or increased fidelity to achieve Congressional, Defense and Army Senior Leader's priority intent and interest. The analysis initiation, scope, and fidelity are determined in accordance with the U.S. Army Future Command processes prior to the Materiel Development Decision and synchronized to support Joint and Army Requirement Oversight Councils (JROC and AROC) and Acquisition Executive/Program decisions.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding change reflects planned lifecycle of this effort.</p>				
<p>Title: FY 2020 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>		-	0.456	-
Accomplishments/Planned Programs Subtotals		9.396	10.023	10.082
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604100A / Analysis Of Alternatives	Project (Number/Name) EC7 / Analysis Of Alternatives
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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.456		-		-		-	0.000	0.456	-
Subtotal			-	-		0.456		-		-		-	0.000	0.456	N/A

Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	-	0.357		-		-		-		-	0.000	0.357	-
Subtotal			-	0.357		-		-		-		-	0.000	0.357	N/A

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
System Engineering (Analysis of Alternative)	MIPR	TRADOC Analysis Center : Fort Leavenworth, KS	3.803	5.223		-		-		-		-	0.000	9.026	-
System Engineering (Analysis of Alternative)	MIPR	Army Materiel Systems Analysis Activity : Aberdeen Proving Ground, MD	3.504	3.816		-		-		-		-	0.000	7.320	-
Analytical Support for Analyses of Alternatives	MIPR	TBD : TBD	23.572	-		9.567		10.082		-		10.082	0.000	43.221	-
Subtotal			30.879	9.039		9.567		10.082		-		10.082	0.000	59.567	N/A

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		30.879	9.396	10.023	10.082	-	10.082	0.000	60.380	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army **Date:** February 2020

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Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
Identify Candidates for FY19 AoA funding																												
Issue FY19 AoA Funding																												
Identify Candidates for FY20 AoA funding																												
Issue FY 20 AoA Funding																												
Identify Candidates for FY21 AoA funding																												
Issue FY 21 AoA Funding																												
Identify Candidates for FY22 AoA funding																												
Issue FY 22 AoA Funding																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604100A / <i>Analysis Of Alternatives</i>	Project (Number/Name) EC7 / <i>Analysis Of Alternatives</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Identify Candidates for FY19 AoA funding	4	2018	3	2019
Issue FY19 AoA Funding	1	2020	4	2020
Identify Candidates for FY20 AoA funding	4	2019	3	2020
Issue FY 20 AoA Funding	1	2020	4	2020
Identify Candidates for FY21 AoA funding	4	2020	3	2021
Issue FY 21 AoA Funding	1	2021	4	2021
Identify Candidates for FY22 AoA funding	4	2021	3	2022
Issue FY 22 AoA Funding	1	2022	4	2022