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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Army Date: March 2019

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0604100A / Analysis Of Alternatives
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COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	7.307	9.753	10.023	-	10.023	10.092	10.225	10.427	10.765	0.000	68.592
EC7: Analysis Of Alternatives	-	7.307	9.753	10.023	-	10.023	10.092	10.225	10.427	10.765	0.000	68.592

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 Program Element (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 Assistant Secretary of Defense, Research and Engineering Science and Technology priority focus areas and the Army Modernization Strategy and Plans. Work in this Program Element (PE) is performed by analytical agencies such as U.S. Army TRADOC Analysis Center and U.S. Army Materiel Systems Analysis Activity. The Army is projecting to start work on multiple Analyses of Alternatives beginning in FY 2020, 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	9.921	9.765	10.023	-	10.023
Current President's Budget	7.307	9.753	10.023	-	10.023
Total Adjustments	-2.614	-0.012	0.000	-	0.000
• Congressional General Reductions	-0.006	-0.012			
• Congressional Directed Reductions	-2.310	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.298	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Army										Date: March 2019		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604100A / Analysis Of Alternatives				Project (Number/Name) EC7 / Analysis Of Alternatives			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
EC7: Analysis Of Alternatives	-	7.307	9.753	10.023	-	10.023	10.092	10.225	10.427	10.765	0.000	68.592
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 Assistant Secretary of Defense, Research and Engineering Science and Technology priority focus areas and the Army Modernization Strategy and Plans. Work in this Program Element is performed by analytical agencies such as U.S. Army TRADOC Analysis Center and U.S. Army Materiel Systems Analysis Activity. The Army is projecting to start work on multiple Analyses of Alternatives beginning in FY 2020 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 2018	FY 2019	FY 2020
Title: Analysis of Alternatives	7.307	9.396	10.023
Description: This Project provides funding for analytical support for the following efforts:			
FY 2019 Plans: FY 2019 funding supports Analysis of Alternatives for new start programs that do not yet have a Program Manager assigned and to augment PM funds where requirement decisions drive changes in scope or increased fidelity to achieve Congressional intent and interest. Analysis of Alternatives initiation, scope, and fidelity are determined through the AROC process prior to the materiel development decision. Current projections indicate multiple new start programs will need to start their Analysis of Alternatives in FY 2019, including Unified Network Operations, Common Operating Environment, Cyberspace Situational Understanding, Offensive Cyberspace Operations, Mobile Armored Combat Earthmover, and Synthetic Training Environment. In addition, several Analyses of Alternatives started in FY 2018 will continue to require analysis funding into FY 2019, to include Vehicle Protection Suite, Terrestrial Layer Intelligence Support for Multi-Domain Battle/Joint Combined Army Maneuver, Future Tactical Unmanned Aircraft System, and Advanced Threat Detection System. In the Spring of 2018 (on or about 1 May) we will provide the Committee an updated listing of projected FY 2019 new start program Analyses of Alternatives.			
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 Leader's priority intent and interest. The analysis initiation, scope, and fidelity are determined			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Army		Date: March 2019	
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>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019
in accordance with the Joint and Army Requirement Oversight Councils (JROC and AROC) processes prior to the Materiel Development Decision.			
FY 2019 to FY 2020 Increase/Decrease Statement: Minor economic adjustments.			
Title: FY 2019 SBIR / STTR Transfer		-	0.357
Description: FY 2019 SBIR / STTR Transfer			-
FY 2019 Plans: FY 2019 SBIR / STTR Transfer			
FY 2019 to FY 2020 Increase/Decrease Statement: FY 2019 SBIR / STTR Transfer			
Accomplishments/Planned Programs Subtotals		7.307	9.753
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy N/A			
E. Performance Metrics N/A			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Army												Date: March 2019			
Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0604100A / Analysis Of Alternatives				Project (Number/Name) EC7 / Analysis Of Alternatives					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
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 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
System Engineering (Analysis of Alternative)	MIPR	TRADOC Analysis Center : Fort Leavenworth, KS	-	3.803		5.580		-		-		-	0.000	9.383	-
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	-		-		10.023		-		10.023	0.000	33.595	-
Subtotal			23.572	7.307		9.396		10.023		-		10.023	0.000	50.298	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			23.572	7.307		9.753		10.023		-		10.023	0.000	50.655	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Army

Date: March 2019

Appropriation/Budget Activity
2040 / 4

R-1 Program Element (Number/Name)
PE 0604100A / *Analysis Of Alternatives*

Project (Number/Name)
EC7 / *Analysis Of Alternatives*

Event Name	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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 FY18 AoA funding																												
Issue FY18 AoA Funding																												
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																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Army			Date: March 2019
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>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Identify Candidates for FY18 AoA funding	4	2017	3	2018
Issue FY18 AoA Funding	1	2018	4	2018
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