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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army	Date: February 2018
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Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
2040: Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)	PE 0604100A / Analysis Of Alternatives											
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	6.354	9.921	9.765	-	9.765	10.023	10.092	10.225	10.427	0.000	66.807
EC7: Analysis Of Alternatives	-	6.354	9.921	9.765	-	9.765	10.023	10.092	10.225	10.427	0.000	66.807

A. Mission Description and Budget Item Justification

This PE provides funding for analytical support of Analysis of Alternatives (AoA). Based on Department of Defense Instruction (DoDI) 5000.02, AoAs are required to be completed for a new start program prior to its first Milestone (MS) Decision. AoAs are a statutory requirement for ACAT I programs and regulatory for ACAT II and ACAT III programs. The AoAs support the preparation of the Capability Development Document (CDD), Key Performance Parameters (KPP) and Thresholds within the CDDs and tradeoff analysis. The Army must complete an AoA prior to the MS A Decision in order to successfully achieve a MS A decision for new start programs. For new start programs which do not yet have a Program Manager assigned this PE provides central funding prior to a materiel development decision. 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 Plan. Work in this 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 AoAs beginning in FY 2019, and will assess and fund the highest Army priorities during the year of execution.

B. Program Change Summary (\$ in Millions)	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019 Base</u>	<u>FY 2019 OCO</u>	<u>FY 2019 Total</u>
Previous President's Budget	6.608	9.921	9.870	-	9.870
Current President's Budget	6.354	9.921	9.765	-	9.765
Total Adjustments	-0.254	0.000	-0.105	-	-0.105
• Congressional General Reductions	-0.003	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.251	-			
• Adjustments to Budget Years	-	-	-0.105	-	-0.105

Change Summary Explanation

FY 2017 adjustments include \$-0.003 million for FFRDC, \$-0.220 million for SBIR and \$-0.031 million for STTR.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army										Date: February 2018		
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
EC7: Analysis Of Alternatives	-	6.354	9.921	9.765	-	9.765	10.023	10.092	10.225	10.427	0.000	66.807
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This PE provides funding for analytical support of Analysis of Alternatives (AoA). Based on Department of Defense Instruction (DoDI) 5000.02, AoAs are required to be completed for a new start program prior to its first Milestone (MS) Decision. AoAs are a statutory requirement for ACAT I and ACAT II programs and regulatory for ACAT III programs. The AoAs support the preparation of the Capability Development Document (CDD), Key Performance Parameters (KPP) and Thresholds within the CDDs and tradeoff analysis. The Army must complete an AoA prior to the MS A Decision in order to successfully achieve a MS A decision for new start programs. For new start programs which do not yet have a Program Manager assigned this PE provides central funding prior to a materiel development decision. 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 Plan. Work in this 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 AoAs beginning in FY 2019, and will assess and fund the highest Army priorities during the year of execution.

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

Title: Analysis of Alternatives	FY 2017	FY 2018	FY 2019
<p>Description: This PE provides funding for analytical support of Analysis of Alternatives (AoA). Based on Department of Defense Instruction (DoDI) 5000.02, AoAs are required to be completed for a new start program prior to its first Milestone (MS) Decision. AoAs are a statutory requirement for ACAT I programs and regulatory for ACAT II and ACAT III programs. The AoAs support the preparation of the Capability Development Document (CDD), Key Performance Parameters (KPP) and Thresholds within the CDDs and tradeoff analysis. The Army must complete an AoA prior to the MS A Decision in order to successfully achieve a MS A decision for new start programs. For new start programs which do not yet have a Program Manager assigned this PE provides central funding prior to a materiel development decision. 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 Plan. Work in this 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 AoAs beginning in FY 2019, and will assess and fund the highest Army priorities during the year of execution.</p> <p>FY 2018 Plans: FY 2018 PE funds are planned to support AoAs for new program starts that require a materiel development decision. Funding will support new programs including Maneuver SHORAD, Enhanced Heavy Equipment Transport System, Terrestrial Layer Intelligence Support for Multi-Domain Battle/Joint Combined Arms Maneuver, Future Vertical Lift Capability Set 3, Family of Unmanned Aircraft Systems, Vehicle Protection Suite, and Advanced Threat Detection System. Funding will also support</p>	6.354	9.921	9.765

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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>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018
finalizing FY 2017 analysis efforts on programs including Next Generation Biometric Collection Capability, Mobile Protected Firepower, and Degraded Visual Environment. <i>FY 2019 Plans:</i> FY 2019 funding in the amount of \$9.765 million supports Analysis of Alternatives (AoA) 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. AoA 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 AoA 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 AoA 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 AoAs. <i>FY 2018 to FY 2019 Increase/Decrease Statement:</i> The decrease in funding is attributed to economic adjustments.			
Accomplishments/Planned Programs Subtotals		6.354	9.921
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
Not applicable for this item.			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
N/A			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
Appropriation/Budget Activity 2040 / 4						R-1 Program Element (Number/Name) PE 0604100A / Analysis Of Alternatives				Project (Number/Name) EC7 / Analysis Of Alternatives					
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
TRADOC Analysis Center (TRAC)	SS/LH	TRADOC Analysis Center : Fort Leavenworth, KS	-	-		5.899		5.765		-		5.765	0.000	11.664	-
Army Materiel Systems Analysis Activity (AMSAA)	SS/LH	Army Materiel Systems Analysis Activity : Aberdeen Proving Ground, MD	-	-		4.022		4.000		-		4.000	0.000	8.022	-
Subtotal			-	-		9.921		9.765		-		9.765	0.000	19.686	N/A
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Analytical Support for Analyses of Alternatives	TBD	TBD : TBD	17.218	6.354		-		-		-		-	0.000	23.572	-
Subtotal			17.218	6.354		-		-		-		-	0.000	23.572	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			17.218	6.354		9.921		9.765		-		9.765	0.000	43.258	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army	Date: February 2018
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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>
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Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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 FY18 AoA funding																												
Issue FY18 AoA Funding																												
Conduct Analysis of Alternatives																												
Identify Candidates for FY20 AoA funding																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
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 FY19 AoA funding	4	2018	3	2019
Issue FY19 AoA Funding	1	2019	4	2019
Identify Candidates for FY18 AoA funding	4	2017	3	2018
Issue FY18 AoA Funding	1	2018	4	2018
Conduct Analysis of Alternatives	1	2018	4	2020
Identify Candidates for FY20 AoA funding	4	2019	3	2020