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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604020A I CFT Advanced Development & Prototyping							
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	-	0.000	0.000	38.000	-	38.000	174.699	20.735	25.051	25.051	0.000	283.536
CF1: CFT Advanced Development & Prototyping	-	0.000	0.000	38.000	-	38.000	174.699	20.735	25.051	25.051	0.000	283.536

**Note**

This is a new start for FY19.

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

This Program Element (PE) funds experimental prototyping and technical demonstrations of selected technologies conducted by Cross-Functional Teams (CFT) in order to inform and refine the development of initial capability documents in support of Long Range Precision Fires (LRPF), Next Generation Combat Vehicle (NGCV), Future Vertical Lift (FVL), Network Command, Control Communication, and Intelligence (NC3I), Assured Positioning, Navigation, and Timing (APNT), Air and Missile Defense (AMD), Soldier Lethality, and Synthetic Training Environment (STE). Funding facilitates the experimentation and demonstration of priority technologies to ensure that planned capabilities are technologically feasible, affordable, and available to Soldiers. Benefits include the narrowing of capability gaps by developing capability documents and rapidly transitioning leader-approved capability requirements to the Army Acquisition System. In project CF1, CFT will conduct pre-Materiel Solution Analysis Phase experimentation and technical demonstrations to enable capability document development and improve the decision making for potential programs of record.

This investment support the Chief of Staff of the Army (CSA) six modernization priorities.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	38.000	-	38.000
Total Adjustments	0.000	0.000	38.000	-	38.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	38.000	-	38.000

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2019 Army		<b>Date:</b> February 2018
<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604020A / <i>CFT Advanced Development &amp; Prototyping</i>	
<b>Change Summary Explanation</b> This effort is a new start for FY19.		

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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 0604020A / CFT Advanced Development & Prototyping				Project (Number/Name) CF1 / CFT Advanced Development & Prototyping			
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
CF1: CFT Advanced Development & Prototyping	-	0.000	0.000	38.000	-	38.000	174.699	20.735	25.051	25.051	0.000	283.536
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

## Note

This effort is a new start for FY19.

## A. Mission Description and Budget Item Justification

This project funds pre-Materiel Solution Analysis Phase experimentation and technical demonstrations conducted by the eight Cross-Functional Teams (CFT) to inform and refine the development of Initial Capability Documents (ICD) to support Materiel Development Decision (MDD) in the areas of Long Range Precision Fires (LRPF), Next Generation Combat Vehicle (NGCV), Future Vertical Lift (FVL), Network Command, Control Communication, and Intelligence (NC3I), Assured Positioning, Navigation, and Timing (APNT), Air and Missile Defense (AMD), Soldier Lethality, and Synthetic Training Environment (STE). CFT advanced development and prototyping efforts will narrow an existing capability gap by informing capability document development and rapidly transition leader-approved capability requirements to the Army Acquisition System. This will allow for faster development of capabilities and ensure planned capabilities are technologically feasible, affordable, and available to the Soldier.

This investment support the Chief of Staff of the Army (CSA) six modernization priorities

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

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Title:</b> CFT Experimental prototyping and technology Demonstration	-	-	38.000
<b>Description:</b> Cross-Functional Teams (CFT) conduct experimental prototyping and technical demonstrations ) in order to inform and refine the development of initial capability documents in support of Long Range Precision Fires (LRPF), Next Generation Combat Vehicle (NGCV), Future Vertical Lift (FVL), Network Command, Control Communication, and Intelligence (NC3I), Assured Positioning, Navigation, and Timing (APNT), Air and Missile Defense (AMD), Soldier Lethality, and Synthetic Training Environment (STE).			
<b>FY 2019 Plans:</b> Will conduct experimental prototyping and technical demonstrations to enable the development of Initial Capability Document (ICD) development in support of Enhanced Night Vision Goggles, Enhanced Defense Advanced Global Positioning System			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 Army		<b>Date:</b> February 2018	
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604020A / CFT Advanced Development & Prototyping	<b>Project (Number/Name)</b> CF1 / CFT Advanced Development & Prototyping	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2017</b>	<b>FY 2018</b>
Receiver (DAGR) Distribution Device, and network and user assessments of Command Post (CP) Mobility and Survivability capabilities.			
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> This is a new start for FY19.			
<b>Accomplishments/Planned Programs Subtotals</b>		-	38.000
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A			
<b>Remarks</b>			
<b>D. Acquisition Strategy</b> Activities will be conducted both in-house and through competitively awarded contracts using best value source selection procedures. Multiple competitive contracts will be awarded.			
<b>E. Performance Metrics</b> N/A			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2019 Army													<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 2040 / 4						<b>R-1 Program Element (Number/Name)</b> PE 0604020A / CFT Advanced Development & Prototyping					<b>Project (Number/Name)</b> CF1 / CFT Advanced Development & Prototyping				

  

<b>Product Development (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
CFT Experimental Prototyping and technology demonstrations	C/Various	Various : various	-	-		-		38.000		-		38.000	0.000	38.000	-
<b>Subtotal</b>			-	-		-		38.000		-		38.000	0.000	38.000	N/A

  

	<b>Prior Years</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	-	-	0.000		38.000	-	38.000	0.000	N/A

  

**Remarks**

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army												Date: February 2018																
Appropriation/Budget Activity 2040 / 4								R-1 Program Element (Number/Name) PE 0604020A / CFT Advanced Development & Prototyping								Project (Number/Name) CF1 / CFT Advanced Development & Prototyping												
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
Cross Functional Teams									Advanced development and prototyping																			

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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 0604020A / CFT Advanced Development & Prototyping	Project (Number/Name) CF1 / CFT Advanced Development & Prototyping

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Cross Functional Teams	1	2019	2	2020