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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>
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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	-	27.301	28.034	25.835	0.000	25.835	30.006	30.542	31.088	31.660	Continuing	Continuing
640211: <i>GLOBAL ACCESS</i>	-	7.718	7.493	5.633	0.000	5.633	7.792	7.930	8.072	8.221	Continuing	Continuing
640212: <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>	-	14.387	15.183	14.773	0.000	14.773	16.670	16.969	17.272	17.589	Continuing	Continuing
640213: <i>CYBER</i>	-	5.196	5.358	5.429	0.000	5.429	5.544	5.643	5.744	5.850	Continuing	Continuing

**Note**

- This program, BA 4, PE 0604776F, project 640211, Submersible Matting, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Rapid Available Interface for trans-Loading, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Repair and Retrofit of Railway Systems, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Drone Supported Surface Deployment, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Buoyant Roll On/Roll Off Interface Kit, is a new start.
- This program, BA 4, PE 0604776F, project 640211, 35 Thousand Foot Airdrop, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Aerial Port of the Future JCTD, is a new start.

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

This program provides for the development, integration, demonstration and detailed assessment of capabilities which improve deployment, distribution and supply chain decision-making/collaboration (e.g., planning stage to real-time execution/retrograde operations) without need for highly specialized operators. Projects in this area address the following: decision support tools, distribution process simulations/analytics, distribution demand forecasting/execution monitoring, automated decision-maker support (e.g., queuing, alerting, courses of action), automated status monitoring with information fusion to include drilldown capability, and resilient Command & Control (C2) infrastructure capabilities. Current planning, forecasting, and collaboration capabilities do not permit full synchronization of people, processes and assets to execute planned operations. Automated tools must be able to dynamically analyze/predict demand and provide input to advanced distribution planning systems to include the capability for Combatant Commanders to manage theater transportation operations from the port of debarkation to the point of need. Transportation information exchange across the DOD is inhibited by disparate systems, multiple data standards and insufficient interfaces. The ability to rapidly determine the impact of any delays/changes and conduct "what-if" impact assessments on the closure of force packages is required. This project addresses the required mission support to combatant commanders and other customers in the area of C2, Optimization, and Modeling and Simulations.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	27.964	28.034	28.939	0.000	28.939
Current President's Budget	27.301	28.034	25.835	0.000	25.835
Total Adjustments	-0.663	0.000	-3.104	0.000	-3.104
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	-0.241	0.000			
• SBIR/STTR Transfer	-0.422	0.000			
• Other Adjustments	0.000	0.000	-3.104	0.000	-3.104

**Change Summary Explanation**

FY 2018 funds include \$0.015 million pending transfer to the Rapid Prototyping Fund in accordance with PL 114-92; section 828, Penalty for Cost Overruns, as amended by PL 115-91 section 825(a).

FY 2019 funds include \$0.058 million withhold pending final determination of Penalty for Cost Overruns in accordance with PL 114-92 as amended by PL 115 -91 section 825(a).

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**Exhibit R-2A, RDT&E Project Justification:** PB 2021 Air Force **Date:** February 2020

<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640211 / <i>GLOBAL ACCESS</i>
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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
640211: <i>GLOBAL ACCESS</i>	-	7.718	7.493	5.633	0.000	5.633	7.792	7.930	8.072	8.221	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

- This program, BA 4, PE 0604776F, project 640211, Submersible Matting, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Rapid Available Interface for trans-Loading, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Repair and Retrofit of Railway Systems, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Drone Supported Surface Deployment, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Buoyant Roll On/Roll Off Interface Kit, is a new start.
- This program, BA 4, PE 0604776F, project 640211, 35 Thousand Foot Airdrop, is a new start.
- This program, BA 4, PE 0604776F, project 640211, Aerial Port of the Future JCTD, is a new start.

In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology (DDET) and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE0604776F, (BA4) Deployment and Distribution Enterprise (DDE)) in order to support auditability, increase management efficiency, and reduce administrative actions.

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

This program provides for the development, integration, demonstration and detailed assessment of DOD procedures/technologies targeted at optimizing throughput at the nodes as well as across the conduits of the deployment and distribution supply chains, from origin to point of use as well as return. Needed capabilities include inventory/cargo management, materiel handling innovations, improved physical node access, port throughput improvements, innovative delivery methods (e.g., precision airlift, autonomous re-supply), and cargo/container security. This project addresses required mission support to combatant commanders and other customers of DOD's distribution and transportation systems in the area of deployment/distribution velocity management, manned/unmanned systems to the point of effect, and increased global reach in austere/anti-access environments.

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

	FY 2019	FY 2020	FY 2021
<b>Title:</b> Autonomous 60K Tunner	-	0.700	0.400
<b>Description:</b> Autonomous Technologies applied to the 60K Tunner to improve throughput and safety			
<b>FY 2020 Plans:</b> Apply semi autonomous technologies and testing			
<b>FY 2021 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640211 / <i>GLOBAL ACCESS</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Test semi autonomous technologies				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Various technologies applied varies the costs				
<b>Title:</b> Joint Deployable Airborne Package		0.125	0.000	-
<b>Description:</b> Airworthiness certification for a rapidly deployable, modular and scalable airborne C4 communications platform to replace the current antiquated and end-of-life Joint Airborne Communications Center/Command Post				
<b>FY 2020 Plans:</b> Project ended FY19				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> N/A				
<b>Title:</b> Submersible Matting		-	0.000	0.400
<b>Description:</b> Develop a submersible matting system (SUBMAT) to facilitate mobility across the shoreline and wet/dry gaps by combining current soil stability technology and mobility matting into a single product.				
<b>FY 2020 Plans:</b> FY21 New Start				
<b>FY 2021 Plans:</b> Design for manufacture analysis and preliminary fabrication				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY21 New Start				
<b>Title:</b> Rapid Available Interface for trans-Loading		-	0.000	0.400
<b>Description:</b> Provides a process to rapidly assess the condition, design acceptable repairs and delivers pre-kitted rail repair and retrofit solutions. The standardized repair kits allows for the development of Tactics, Techniques and Procedures (TTPs) for each repair that can be scaled to address a range of damages.				
<b>FY 2020 Plans:</b> Funding starts in FY21				
<b>FY 2021 Plans:</b>				

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Work will identify and develop a robotic survey vehicle integrated with rail condition survey equipment. <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Prior year funding by OSD/services.				
<b>Title:</b> Repair and Retrofit of Railway Systems <b>Description:</b> The standardized repair kits allows for the development of Tactics, Techniques and Procedures (TTPs) for each repair that can be scaled to address a range of damages. <b>FY 2020 Plans:</b> Effort starts in FY21 <b>FY 2021 Plans:</b> Work will identify and develop a robotic survey vehicle integrated with rail condition survey equipment. <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY21 start		-	0.000	0.175
<b>Title:</b> Drone Supported Surface Deployment <b>Description:</b> Determine the suitability of using modern drones and drone mapping technology for capturing data for input to systems such as the Integrated Computerized Deployment System (ICODES) and the Transportation Geospatial Information System (TGIS) <b>FY 2020 Plans:</b> FY21 New start <b>FY 2021 Plans:</b> Analyze RFID Hardware, Middleware and Software <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY21 New Start		-	0.000	0.227
<b>Title:</b> Buoyant Roll On/Roll Off Interface Kit <b>Description:</b> Prototype consisting of the RO/RO ramp to interface to a commercial supply vessel and a section of floating causeway and ancillary equipment sufficient to conduct a limited operational assessment <b>FY 2020 Plans:</b>		-	0.000	0.300

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<p>FY21 New Start</p> <p><b>FY 2021 Plans:</b> Develop a prototype rapidly deployable ship-to-shore connector capability</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY21 New Start</p>				
<p><b>Title:</b> 35 Thousand Foot Airdrop</p> <p><b>Description:</b> Develop capabilities to airdrop from 35 thousand feet to increase aircraft standoff range from threat.</p> <p><b>FY 2020 Plans:</b> FY21 New Start</p> <p><b>FY 2021 Plans:</b> parafoil and parachute technologies</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Fy21 New Start</p>		-	0.000	0.400
<p><b>Title:</b> Aerial Port of the Future JCTD</p> <p><b>Description:</b> Series of technologies in collaboration with OSD and services to automate aerial port activities. Improves efficiency and safety.</p> <p><b>FY 2020 Plans:</b> FY21 New Start</p> <p><b>FY 2021 Plans:</b> Development of automation technologies</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY21 New Start</p>		-	0.000	0.400
<p><b>Title:</b> Interoperable Multi-modal Patient Movement</p> <p><b>Description:</b> Create system to move mass casualties when air medivac is not available</p> <p><b>FY 2020 Plans:</b></p>		-	0.500	0.150

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Develop interoperable multi-modal platform <i>FY 2021 Plans:</i> Continue development and testing <i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Various technologies varies development costs				
<i>Title:</i> Replenishment from Ships to Point of Need Delivery <i>Description:</i> Unmanned system launched from ships and capable of carrying supplies up to 100 miles inland. <i>FY 2020 Plans:</i> testing various payloads and distance calculations <i>FY 2021 Plans:</i> Development of technologies to support required payloads and distances <i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Various technologies varies development costs		-	0.600	0.450
<i>Title:</i> Use of Dual Row Airdrop System with Joint Light Tactical Vehicle <i>Description:</i> Increasing the strength of C-17 dual row rails to enable dropping the JLTV <i>FY 2020 Plans:</i> Testing of above-the-floor release mechanisms <i>FY 2021 Plans:</i> Applying technologies and testing results <i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Applying technologies and testing results		-	0.750	0.575
<i>Title:</i> Port Improvement via Exigent Repair (PIER) JCTD <i>Description:</i> Develop robust capability to rapidly restore damaged pier to a minimal militarily-capable to support reception, power projection & sustainment operations. <i>FY 2020 Plans:</i>		1.255	0.000	0.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Projects ends 2019 <b>FY 2021 Plans:</b> no program change plans <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends in 2019				
<b>Title:</b> Autonomous Aerial Insertion and Resupply into Dense Urban Complex Terrain (AAIRDUCT) Joint Capabilities Technology Demonstration (JCTD) <b>Description:</b> Enhance capability of a guided airdrop system to navigate in contested/denied environments where Global Positioning System data is either suspect or unavailable. <b>FY 2020 Plans:</b> Project ends 2019 <b>FY 2021 Plans:</b> No program change <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> no program change		1.950	0.000	0.000
<b>Title:</b> Enhanced Vision Navigation for Joint Precision Airdrop System (Supports FY17 AAIRDUCT JCTD) <b>Description:</b> Advanced technologies to improve airdrop capabilities to the warfighter. <b>FY 2020 Plans:</b> Project support requirement <b>FY 2021 Plans:</b> Program support requirements <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant change		0.544	0.350	0.175
<b>Title:</b> Expeditionary End-to-End Fueling Concept <b>Description:</b> Addressing gap in theater fuel delivery/distribution capabilities to inform the development of the Army Early Entry Fluid Distribution System as well as provide a development path for Navy/USMC ship-to-shore capabilities.		1.170	0.800	0.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<p><b>FY 2020 Plans:</b> demonstration of fueling ashore operations</p> <p><b>FY 2021 Plans:</b> Project ends 2020</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends 2020</p>				
<p><b>Title:</b> Dropsonde Optimization</p> <p><b>Description:</b> Mobility assets lack drop zone situational awareness, pre-drop confirmation of clear/safe drop zone, capability of post-drop assessment, and autonomous/passive bundle geo-location.</p> <p><b>FY 2020 Plans:</b> Project ends 2019</p> <p><b>FY 2021 Plans:</b> No effort in 2021</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends 2019</p>		0.314	0.000	0.000
<p><b>Title:</b> Advanced Planning for Global Response Force Mission</p> <p><b>Description:</b> Create and leverage analytical and visual tools to provide planners the ability to streamline GRF missions, integrating aircraft load planning with sophisticated airdrop mission simulations.</p> <p><b>FY 2020 Plans:</b> Completing planning tool development</p> <p><b>FY 2021 Plans:</b> No effort in 2021</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends 2020</p>		0.300	0.700	0.000
<p><b>Title:</b> Autonomous Drone Delivery from Airdrop Systems</p> <p><b>Description:</b> An air-droppable Unmanned Aircraft System (UAS) to conduct resupply missions in densely populated urban areas.</p>		0.210	0.750	0.220

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<p><b>FY 2020 Plans:</b> development and demonstration of drone delivery from JPADS</p> <p><b>FY 2021 Plans:</b> continued development and testing</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> no significant decrease</p>				
<p><b>Title:</b> Mini Robotic Dredge</p> <p><b>Description:</b> Prototype a tactical dredging capability to deepen an usable port facility</p> <p><b>FY 2020 Plans:</b> Complete development of dredge and demo</p> <p><b>FY 2021 Plans:</b> No effort in 2021</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends 2020</p>		0.850	0.800	0.000
<p><b>Title:</b> Optimized HALO Delivery using Probabilistic Airdrop Planner</p> <p><b>Description:</b> A low-cost, low-complexity solution to deliver payloads at improved accuracy, compared to standard ballistic parachutes, but without the expensive parafoil and guidance systems</p> <p><b>FY 2020 Plans:</b> complete development of planner</p> <p><b>FY 2021 Plans:</b> no effort in 2021</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends 2020</p>		0.200	0.500	0.000
<p><b>Title:</b> Expedient and Expeditionary Airfield Damage Repair</p> <p><b>Description:</b> Provide a truly expeditionary, indigenous-material based repair capability to support high pace, aircraft sortie generation, recovery and egress</p>		0.300	0.600	0.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<p><b><i>FY 2020 Plans:</i></b> Demonstrate and complete development of repair effort</p> <p><b><i>FY 2021 Plans:</i></b> No effort in 2021</p> <p><b><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i></b> Project ends 2020</p>				
<p><b><i>Title:</i></b> Unmanned Logistics System - Air</p> <p><b><i>Description:</i></b> Provides the warfighter with an assured/organic resupply capability to sustain maneuver units</p> <p><b><i>FY 2020 Plans:</i></b> Project ends 2019</p> <p><b><i>FY 2021 Plans:</i></b> no effort in 2021</p> <p><b><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i></b> Project ends 2019</p>		0.500	0.000	0.000
<p><b><i>Title:</i></b> Resilient Expeditionary Agile Littoral Logistics</p> <p><b><i>Description:</i></b> Transfer of fuel ashore from various conveyances from off-shore platform</p> <p><b><i>FY 2020 Plans:</i></b> Testing platform types</p> <p><b><i>FY 2021 Plans:</i></b> Technology development of fuel transfer</p> <p><b><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i></b> Technology development varies as project progresses</p>		-	0.443	1.361
<b>Accomplishments/Planned Programs Subtotals</b>		7.718	7.493	5.633
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				

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

**Remarks**

**D. Acquisition Strategy**

Requirements for joint deployment and distribution enterprise technology enhancements are annually identified, validated and prioritized by the Joint Deployment & Distribution Enterprise (JDDE) community. Pursuit of the development of new capabilities to meet these requirements is managed by the United States Transportation Command (USTRANSCOM). Prototype products, once evaluated by the users, are spirally transitioned by the operational community.

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

<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640211 / <i>GLOBAL ACCESS</i>
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<b>Support (\$ in Millions)</b>				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			
Support	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Integrated Logistics Support	Various	Various : Belleville, IL	-	7.718	Nov 2018	7.493	Nov 2019	5.633	Nov 2020	-		5.633	Continuing	Continuing	-
<b>Subtotal</b>			-	7.718		7.493		5.633		-		5.633	Continuing	Continuing	N/A

**Remarks**  
Funds will be realigned within the PE.

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	7.718	7.493	5.633	-	5.633	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640211 / <i>GLOBAL ACCESS</i>

	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

<i>Deployment and Distribution</i>																												
Integrated Logistics Support																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640211 / <i>GLOBAL ACCESS</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Deployment and Distribution</i></b>				
Integrated Logistics Support	1	2019	4	2025

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>				<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
640212: <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>	-	14.387	15.183	14.773	0.000	14.773	16.670	16.969	17.272	17.589	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology (DDET) and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE0604776F, (BA4) Deployment and Distribution Enterprise (DDE)) in order to support auditability, increase management efficiency, and reduce administrative actions.

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

This program provides for the development, integration, demonstration and detailed assessment of capabilities which improve deployment, distribution and supply chain decision-making/collaboration (e.g., planning stage to real-time execution/retrograde operations) without need for highly specialized operators. Projects in this area address the following: decision support tools, distribution process simulations/analytics, distribution demand forecasting/execution monitoring, automated decision-maker support (e.g., queuing, alerting, courses of action), automated status monitoring with information fusion to include drilldown capability, and resilient Command & Control (C2) infrastructure capabilities. Current planning, forecasting, and collaboration capabilities do not permit full synchronization of people, processes and assets to execute planned operations. Automated tools must be able to dynamically analyze/predict demand and provide input to advanced distribution planning systems to include the capability for Combatant Commanders to manage theater transportation operations from the port of debarkation to the point of need. Transportation information exchange across the DOD is inhibited by disparate systems, multiple data standards and insufficient interfaces. The ability to rapidly determine the impact of any delays/changes and conduct "what-if" impact assessments on the closure of force packages is required. This project addresses the required mission support to combatant commanders and other customers in the area of C2, Optimization, and Modeling and Simulations.

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

<b>Title:</b> TRANSCOM Innovation	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<b>Description:</b> Rapidly develop and integrate technology solutions for the enterprise	0.000	1.986	4.358
<b>FY 2020 Plans:</b> Develop solutions to identified challenges			
<b>FY 2021 Plans:</b> Continue to pursue and develop solutions to identified challenges			
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Greater push for the development of solutions to identified challenges and Joint Deployment and Distribution Enterprise needs.				
<b>Title:</b> Analytics Driven Command Decision Support <b>Description:</b> Developing the capability that improves organizational decision making by providing a holistic methodology that capitalizes on relevant information, captures accurate data, and leverages best practice tools and decision-making processes. <b>FY 2020 Plans:</b> No funding in FY 2020 <b>FY 2021 Plans:</b> No Funding in 2021 <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No funding in 2021		0.557	0.000	0.000
<b>Title:</b> Strategies for Artificial Intelligence and Machine Learning <b>Description:</b> This research effort is to demonstrate the potential of AI/ML to increase the effectiveness and value of USTRANSCOM's Big Data initiatives while also leveraging cloud computing capabilities. <b>FY 2020 Plans:</b> FY20 funding moved to MIT Lincoln Labs <b>FY 2021 Plans:</b> Continue to improve data quality and analytical capabilities <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY20 funding moved to MIT Lincoln Labs		-	0.000	0.950
<b>Title:</b> Data Lake <b>Description:</b> Develop and demonstrate the capability that allows incongruent data to be brought together to provide automated decision support. <b>FY 2020 Plans:</b> Develop data analytics <b>FY 2021 Plans:</b>		0.975	1.477	0.695

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Continue data analytics development				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY21 is testing earlier development efforts				
<b>Title:</b> End-to-End Deployment and Distribution Modeling		3.452	2.500	2.375
<b>Description:</b> Provide an integrated deployment/distribution environment to provide continuous and optimal balancing of total demand verse capacity from planning through mission execution.				
<b>FY 2020 Plans:</b> Increase analytical capability for DoD programmatic studies and analysis				
<b>FY 2021 Plans:</b> Increase analytical capability for DoD programmatic studies and analysis				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Demonstrations and testing				
<b>Title:</b> Massachusetts Institute of Technology Lincoln Labs		3.052	3.250	2.970
<b>Description:</b> Partnership with MIT-LL to research efforts to improve enterprise operational architecture supporting high-end analytics, integrated information technology/data structures, understanding of cloud capabilities and multi-level cyber security defense.				
<b>FY 2020 Plans:</b> Effective secure operations enabled via data fusion frameworks and prototypes.				
<b>FY 2021 Plans:</b> Continue effective secure operations enabled via data fusion frameworks and prototypes.				
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant change				
<b>Title:</b> Modeling & Simulation Innovation		0.125	0.125	0.225
<b>Description:</b> Select student research/faculty-assisted projects (e.g., Joint Transportation Asset Scheduling Kit, Next Generation Cargo Capability, Applying Post Modern Portfolio Theory to Mitigate Risk in International Shipping, Optimal CH-47/C-130 Workload Balance, Remotely Piloted Aircraft Performing Airdrop Mission).				
<b>FY 2020 Plans:</b>				

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
Collaboration partnership with AFIT for student research <b>FY 2021 Plans:</b> Collaboration partnership with AFIT for student research <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> additional requirements				
<b>Title:</b> Infrastructure Information Confidence Model <b>Description:</b> Inform decision makers of the quality of primary and alternate data sources they are using to make decisions <b>FY 2020 Plans:</b> Continue development of information collaboration process that analyzes and provides a confidence assessment of structured and unstructured data <b>FY 2021 Plans:</b> Continue development of information collaboration process that analyzes and provides a confidence assessment of structured and unstructured data <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Costs vary as development continues		0.918	1.137	0.909
<b>Title:</b> Program Execution <b>Description:</b> Provide technical assistance and program management support to the USTRANSCOM RDT&E Program. <b>FY 2020 Plans:</b> TRL 4-6: Program support to explore technology solutions to capability gaps identified through Joint Concept Development documents, the Joint capabilities Integration and Development System process, Joint Experimentation, etc, to increase the responsiveness, efficiency and effectiveness of the Joint Deployment and Distribution Enterprise. <b>FY 2021 Plans:</b> TRL 4-6: Program support to explore technology solutions to capability gaps identified through Joint Concept Development documents, the Joint capabilities Integration and Development System process, Joint Experimentation, etc, to increase the responsiveness, efficiency and effectiveness of the Joint Deployment and Distribution Enterprise. <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant change		1.485	1.221	1.741
<b>Title:</b> Scheduling Mobility Aircrews for Readiness and Transportation		1.974	2.150	0.550

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<p><b>Description:</b> Develop prototype software for advanced squadron scheduling, collaboration, and predictive modeling.</p> <p><b>FY 2020 Plans:</b> Complete development of the squadron scheduler and visualizations.</p> <p><b>FY 2021 Plans:</b> No plans in 2020</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends 2020</p>				
<p><b>Title:</b> Full Spectrum Mission Assurance</p> <p><b>Description:</b> All-threats/hazards, collaborative transportation risk management activity to identify unacceptable physical/cyber risks</p> <p><b>FY 2020 Plans:</b> Complete the operational picture environment fed by standardized, reusable, and shareable data layers of actionable info.</p> <p><b>FY 2021 Plans:</b> no plans in 2021</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends 2020</p>		0.979	0.998	0.000
<p><b>Title:</b> Modeling Dynamics of Modular Causeways to Improve Debarkation Sites</p> <p><b>Description:</b> High-fidelity model to provide planners with precise knowledge of Modular Causeway behavior.</p> <p><b>FY 2020 Plans:</b> Population of database, demonstration and training</p> <p><b>FY 2021 Plans:</b> Project ends in 2020</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Project ends 2020</p>		0.350	0.339	0.000
<p><b>Title:</b> Web Based Seaport Explosive Safety Planning</p> <p><b>Description:</b> Provide seaport planners capability to manage net explosive weight/hazard munitions</p>		0.520	0.000	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<b><i>FY 2020 Plans:</i></b> Project ends 2019				
<b><i>FY 2021 Plans:</i></b> Project ends 2019				
<b><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i></b> Project ends 2019				
<b>Accomplishments/Planned Programs Subtotals</b>		14.387	15.183	14.773
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b> Requirements for joint deployment and distribution enterprise technology enhancements are annually identified, validated and prioritized by the Joint Deployment & Distribution Enterprise (JDDE) community. Pursuit of the development of new/improved capabilities to meet these requirements is managed by the United States Transportation Command (USTRANSCOM). Prototype products, once evaluated by the users, are spirally transitioned by the operational community.				

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

<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>
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<b>Support (\$ in Millions)</b>				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			
Support	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Integrated Logistics Support	Various	Various : Belleville, IL	-	14.387	Nov 2018	15.183	Nov 2019	14.773	Nov 2020	-		14.773	Continuing	Continuing	-
<b>Subtotal</b>			-	14.387		15.183		14.773		-		14.773	Continuing	Continuing	N/A

**Remarks**  
Funds will be realigned within PE.

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	14.387	15.183	14.773	-	14.773	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2021 Air Force</b>		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>

	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

<i>Deployment and Distribution</i>																												
Integrated Logistics Support																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Deployment and Distribution</i></b>				
Integrated Logistics Support	1	2019	4	2025

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**Exhibit R-2A, RDT&E Project Justification:** PB 2021 Air Force **Date:** February 2020

<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640213 / <i>CYBER</i>
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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
640213: <i>CYBER</i>	-	5.196	5.358	5.429	0.000	5.429	5.544	5.643	5.744	5.850	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**  
In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology (DDET) and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE0604776F, (BA4) Deployment and Distribution Enterprise (DDE)) in order to support auditability, increase management efficiency, and reduce administrative actions.

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

This program provides for the development, integration, demonstration and detailed assessment of capabilities to ensure USTRANSCOM mission assurance is in a persuasive/dynamic cyber environment. USTRANSCOM requires the procedures/technologies to improve cyber surveillance and control of networks across multiple domains and the ability to continue critical network operations in contested unclassified and classified network environments. The Command also needs the ability to differentiate between valid/unauthorized users and determine/quantify the trustworthiness of hardware/software systems. Additionally USTRANSCOM must have the ability to rapidly analyze & correlate data regarding malicious activities, select/evoke real-time defense actuators, perform automated reasoning capabilities that address data quality issues, and the ability to rapidly return to a known/safe operating state.

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

	FY 2019	FY 2020	FY 2021
<p><b>Title:</b> Lincoln Labs</p> <p><b>Description:</b> Partnership with MIT-LL to research efforts to improve enterprise operational architecture supporting high-end analytics, integrated information technology/data structures, understanding of cloud capabilities and multi-level cyber security defense.</p> <p><b>FY 2020 Plans:</b> Increased awareness and ability to respond to cyber events</p> <p><b>FY 2021 Plans:</b> Continue increased awareness and ability to respond to cyber events</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant change</p>	2.793	5.358	5.429
<p><b>Title:</b> Operationally Transparent Cyber</p> <p><b>Description:</b> Rapidly identify, track, and eliminate malicious actor behavior and defend against Advanced Persistent Threats in near real-time</p>	2.403	0.000	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640213 / <i>CYBER</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<b><i>FY 2020 Plans:</i></b> Project cancelled in FY19			
<b><i>FY 2021 Plans:</i></b> Project cancelled in FY19			
<b><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i></b> Project cancelled in FY19			
<b>Accomplishments/Planned Programs Subtotals</b>	5.196	5.358	5.429

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

N/A

**Remarks**

**D. Acquisition Strategy**

Requirements for joint deployment and distribution enterprise technology enhancements are annually identified, validated and prioritized by the Joint Deployment & Distribution Enterprise (JDDE) community. Pursuit of the development of new/improved capabilities to meet these requirements is managed by the United States Transportation Command (USTRANSCOM). Prototype products, once evaluated by the users, are spirally transitioned by the operational community.

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

<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640213 / <i>CYBER</i>
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<b>Support (\$ in Millions)</b>				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			
Support	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Integrated Logistics Support	Various	Various : Belleville, IL	-	5.196	Nov 2018	5.358	Nov 2019	5.429	Nov 2020	-		5.429	Continuing	Continuing	-
<b>Subtotal</b>			-	5.196		5.358		5.429		-		5.429	Continuing	Continuing	N/A

**Remarks**  
Funds will be realigned within the PE.

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	5.196	5.358	5.429	-	5.429	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640213 / <i>CYBER</i>

	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

<i>Deployment and Distribution</i>																												
Integrated Logistics Support																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Air Force		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604776F / <i>Deployment &amp; Distribution Enterprise R&amp;D</i>	<b>Project (Number/Name)</b> 640213 / <i>CYBER</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Deployment and Distribution</i></b>				
Integrated Logistics Support	1	2019	4	2025