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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force **Date:** February 2018

Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604776F I Deployment & Distribution Enterprise R&D							
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	-	25.890	26.222	28.350	0.000	28.350	28.937	29.439	30.051	30.597	Continuing	Continuing
640211: GLOBAL ACCESS	-	7.538	7.318	12.184	0.000	12.184	7.493	7.644	7.804	7.945	Continuing	Continuing
640212: C2/OPTIMIZATION/ MODELING AND SIMULATION	-	14.634	16.945	12.763	0.000	12.763	16.086	16.356	16.695	16.999	Continuing	Continuing
640213: CYBER	-	3.718	1.959	3.403	0.000	3.403	5.358	5.439	5.552	5.653	Continuing	Continuing

Note

This program, BA 4, PE 0604776F, project 640211, Advanced Planning for Global Response Force Mission, is a new start.
This program, BA 4, PE 0604776F, project 640211, Autonomous Drone Delivery from Airdrop Systems, is a new start.
This program, BA 4, PE 0604776F, project 640211, Optimized HALO Delivery using Probablistic Airdrop Planner, is a new start.
This program, BA 4, PE 0604776F, project 640212, Infrastructure Information Confidence Model, is a new start.
This program, BA 4, PE 0604776F, project 640212, Synchronizing Mobility Allocations and Resources for Transportation, is a new start.
This program, BA 4, PE 0604776F, project 640213, Operationally Transparent Cyber, is a new start.

This program, BA 04 PE 0604776F, project 640211, Hybrid Airship, is a new start.

This program, BA 04 PE 0604776F, project 640212, Modeling & Simulation Innovation, is a new start.

This program, BA 04 PE 0604776F, project 640212, Modeling Dynamics of Modular Causeways to Improve Debarkation Sites, is a new start.
This program, BA 04 PE 0604776F, project 640212, Web Based Seaport Explosive Safety Planning, is a new start.

These projects received approval and were moved to FY17. It was not known at time to update R documents.

This program, BA 04 PE 0604776F, project 640211, Mini Robotic Dredge, is a new start.
This program, BA 04 PE 0604776F, project 640212, Full Spectrum Mission Assurance, 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

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>
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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.

Efforts necessary to evaluate integrated technologies in as realistic an operating environment as possible to assess the performance or cost reduction of advanced technology.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	25.890	26.222	28.563	0.000	28.563
Current President's Budget	25.890	26.222	28.350	0.000	28.350
Total Adjustments	0.000	0.000	-0.213	0.000	-0.213
• 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	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.213	0.000	-0.213

Change Summary Explanation

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.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D				Project (Number/Name) 640211 / GLOBAL ACCESS			
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
640211: GLOBAL ACCESS	-	7.538	7.318	12.184	0.000	12.184	7.493	7.644	7.804	7.945	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
This program, BA 4, PE 0604776F, project 640211, Advanced Planning for Global Response Force Mission, is a new start.												
This program, BA 4, PE 0604776F, project 640211, Autonomous Drone Delivery from Airdrop Systems, is a new start.												
This program, BA 4, PE 0604776F, project 640211, Optimized HALO Delivery using Probablistic Airdrop Planner, 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Preamble Initial Look Leading to Accelerated Results								1.600	0.000	0.000	-	0.000
Description: Develop capability to support a deployed engineering assessment team in the expedient recon and load-capacity determination of offload structures and plan/design required repairs.												
FY 2018 Plans: N/A												
FY 2019 Base Plans: N/A												
Title: Port Improvement via Exigent Repair (PIER) JCTD								2.580	1.653	2.255	-	2.255

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Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D		Project (Number/Name) 640211 / GLOBAL ACCESS		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<p>Description: Develop robust capability to rapidly restore damaged pier to a minimal militarily-capable to support reception, power projection & sustainment operations.</p> <p>FY 2018 Plans: TRL 5-7: AT&L endorsed, Congressionally approved BA3 Joint Capability Technology Demonstration (JCTD) to rapidly restore damaged pier to a minimal militarily-capable to support reception, power projection & sustainment operations.</p> <p>FY 2019 Base Plans: TRL 6-7: Mooring, fendering and fuel discharge: Will address expedient repair to mooring and fender systems with an emphasis on assuring structural integrity</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: Development costs vary from year to year based on schedule</p>						
<p>Title: Autonomous Aerial Insertion and Resupply into Dense Urban Complex Terrain (AAIRDUCT) Joint Capabilities Technology Demonstration (JCTD)</p> <p>Description: Enhance capability of a guided airdrop system to navigate in contested/denied environments where Global Positioning System data is either suspect or unavailable.</p> <p>FY 2018 Plans: TRL 5: U.S. Army (Natick) led effort to prototype technologies to enable accurate delivery of airdropped supplies in a Global positioning System (GPS) denied environment.</p> <p>FY 2019 Base Plans: TRL 5: U.S. Army (Natick) led effort to prototype technologies to enable accurate delivery of airdropped supplies in a Global positioning System (GPS) denied environment.</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: Development costs vary from year to year based on project schedule.</p>		-	1.500	1.950	-	1.950
<p>Title: Enhanced Vision Navigation for Joint Precision Airdrop System (Supports FY17 AAIRDUCT JCTD)</p> <p>Description: Advanced technologies to improve airdrop capabilities to the warfighter.</p> <p>FY 2018 Plans:</p>		1.613	1.145	0.500	-	0.500

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B. Accomplishments/Planned Programs (\$ in Millions)				FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
TRL 5: U.S. Army (Natick) led effort to prototype technologies to enable accurate delivery of airdropped supplies in a Global positioning System (GPS) denied environment. FY 2019 Base Plans: TRL 6: Support for transition FY 2018 to FY 2019 Increase/Decrease Statement: Project completing development in FY18 and FY19								
Title: Expeditionary End-to-End Fueling Concept Description: 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. FY 2018 Plans: TRL 5/6: Prototyping modular pumping system to enhance over-the-shore and inland petroleum discharge capability. FY 2019 Base Plans: TRL 6: Proof of concept prototype system including a field expedient planning tool and networked control capability. FY 2018 to FY 2019 Increase/Decrease Statement: Development schedule has major development efforts in FY19.				0.400	1.350	2.500	-	2.500
Title: Dropsonde Optimization Description: 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. FY 2018 Plans: TRL 4-7: Provide a single pass solution based on wind/weather impact from information gained at an optimized/ planned drop zone. FY 2019 Base Plans: TRL 4-7: Interface designs and algorithm coding completed FY 2018 to FY 2019 Increase/Decrease Statement:				0.655	0.000	0.469	-	0.469

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Very little increase in FY19.						
Title: Advanced Planning for Global Response Force Mission Description: 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. FY 2019 Base Plans: Development of prototype planning software. FY 2018 to FY 2019 Increase/Decrease Statement: FY19 New Start		-	-	0.700	-	0.700
Title: Autonomous Drone Delivery from Airdrop Systems Description: An air-droppable Unmanned Aircraft System (UAS) to conduct resupply missions in densely populated urban areas. FY 2019 Base Plans: Drone hardware development and integration. FY 2018 to FY 2019 Increase/Decrease Statement: FY19 New start		-	-	0.610	-	0.610
Title: Precision On-Demand Aerial Resupply (Supports FY17 AAIRDUCT JCTD) Description: Develop a precision on-demand Aerial Resupply capability to provide small units in remote/austere locations the ability to request and track aerial resupply missions in real-time. FY 2018 Plans: N/A FY 2019 Base Plans: N/A		0.450	0.000	0.000	-	0.000
Title: Hybrid Airship Description: Study serves as a risk reducing, stepping stone to a class of air vehicles with energy use per ton-mile approximating the efficiency achieved by overland commercial trucking on improved highway systems.		0.000	0.200	0.200	-	0.200

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
FY 2018 Plans: TRL 4: Explore future Airship development and mitigate long-term technical risk for future heavy lift airships.							
FY 2019 Base Plans: TRL 4: Explore future Airship development and mitigate long-term technical risk for future heavy lift airships.							
Title: Mini Robotic Dredge Description: Prototype a tactical dredging capability to deepen an usable port facility			0.240	0.470	1.200	-	1.200
FY 2018 Plans: TRL 5/6: Ability to clear a shipping lane/berthing area to allow for pier side unloading operations.							
FY 2019 Base Plans: TRL 5-6: Evaluate various cutter heads to determine those suitable for the various types of sediments							
FY 2018 to FY 2019 Increase/Decrease Statement: Development costs vary from year to year based on project schedule.							
Title: Optimized HALO Delivery using Probablistic Airdrop Planner Description: 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			-	-	0.700	-	0.700
FY 2019 Base Plans: Develop planner to help optimize airdrop accuarcy							
FY 2018 to FY 2019 Increase/Decrease Statement: FY 19 New start							
Title: Expedient and Expeditionary Airfield Damage Repair Description: Provide a truly expeditionary, indigenous-material based repair capability to support high pace, aircraft sortie generation, recovery and egress			-	0.500	0.600	-	0.600
FY 2018 Plans: Tools to inform runway repair							
FY 2019 Base Plans:							

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B. Accomplishments/Planned Programs (\$ in Millions)					
	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Demonstrate the ability to rapidly assess airfield damage					
FY 2018 to FY 2019 Increase/Decrease Statement: Slight increase as project development increases					
Title: Unmanned Logistics System - Air	-	0.500	0.500	-	0.500
Description: Provides the warfighter with an assured/organic resupply capability to sustain maneuver units					
FY 2018 Plans: Competitive assessment of varying UAS capabilities					
FY 2019 Base Plans: Capabilities to support last tactical mile distribution					
Accomplishments/Planned Programs Subtotals	7.538	7.318	12.184	-	12.184
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 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.					
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.					

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Air Force												Date: February 2018			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>						Project (Number/Name) 640211 / <i>GLOBAL ACCESS</i>			

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	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics Support	Various	Various : Belleville, IL	-	7.538	Nov 2016	7.318	Nov 2017	12.184	Nov 2018	-		12.184		12.184	Continuing	Continuing	-
Subtotal			-	7.538		7.318		12.184		-		12.184		12.184	Continuing	Continuing	N/A

Remarks Funds will be realigned within the PE.																	
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			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			-	7.538	7.318	12.184	-	12.184	Continuing	Continuing	N/A

Remarks											
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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force										Date: February 2018																			
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>										Project (Number/Name) 640211 / <i>GLOBAL ACCESS</i>									

	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
No project title.																												
Integrated Logistics Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force		Date: February 2018
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>	Project (Number/Name) 640211 / <i>GLOBAL ACCESS</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>No project title.</i>				
Integrated Logistics Support	1	2017	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D				Project (Number/Name) 640212 / C2/OPTIMIZATION/MODELING AND SIMULATION			
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
640212: C2/OPTIMIZATION/ MODELING AND SIMULATION	-	14.634	16.945	12.763	0.000	12.763	16.086	16.356	16.695	16.999	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This program, BA 4, PE 0604776F, project 640212, Infrastructure Information Confidence Model, is a new start.

This program, BA 4, PE 0604776F, project 640212, Synchronizing Mobility Allocations and Resources for Transportation, 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 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)

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: TRANSCOM Innovation Unit Experimental	-	6.887	1.342	-	1.342
Description: Rapidly develop and integrate technology solutions for the enterprise					
FY 2018 Plans: TRL 4-7: Identify challenges and garner/develop solutions to address those challenges					
FY 2019 Base Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
TRL 4-7: Identify challenges and garner/develop solutions to address those challenges						
FY 2018 to FY 2019 Increase/Decrease Statement: Slight increase in FY18 due to shifting of projects						
Title: Analytics Driven Command Decision Support Description: 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. FY 2018 Plans: TRL 5-7: Operational prototype of analytic tool & user manual to enable analytics drive command decision support FY 2018 to FY 2019 Increase/Decrease Statement: Project ends		0.550	0.450	-	-	-
Title: Data Lake Description: Develop and demonstrate the capability that allows incongruent data to be brought together to provide automated decision support. FY 2018 Plans: TRL 4-7: Researching application and prototyping this technology as it relates to the Joint Deployment and Distribution enterprise. FY 2019 Base Plans: TRL 5-6: Refined reference architecture for a data lake environment targeting performance, usability and data integration FY 2018 to FY 2019 Increase/Decrease Statement: Development costs vary year to year per project schedule.		0.600	0.700	0.800	-	0.800
Title: End-to-End Deployment and Distribution Modeling Description: Provide an integrated deployment/distribution environment to provide continuous and optimal balancing of total demand verse capacity from planning through mission execution.		3.684	1.963	2.515	-	2.515

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B. Accomplishments/Planned Programs (\$ in Millions)				FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
FY 2018 Plans: TRL 4-6: Assessment of various algorithmic optimization approaches to provide a complete view of the end-to-end mobility system, air refueling (AR) tankers need to be integrated with USTRANSCOM's analytical tool suite for programmatic studies and analysis.								
FY 2019 Base Plans: TRL 5-6: Enable users to fully exploit technologies more rapidly and improve analytics								
FY 2018 to FY 2019 Increase/Decrease Statement: Development costs vary year to year per schedule.								
Title: Global Mission Scheduling Description: Development effort to optimize air movement requirements against resources and movement requirements.				1.940	0.535	-	-	-
FY 2018 Plans: TRL 5-7: Complete engineering prototype								
FY 2018 to FY 2019 Increase/Decrease Statement: Project ends.								
Title: Map Based Planning Services Description: Enable planners, via a collaborative geospatially enabled environment, to conduct deliberate course of action planning to include force flow feasibility concurrent with plan development.				1.500	1.500	-	-	-
FY 2018 Plans: TRL 4-6: Prototype globally accessible enclave and explore how data with a geospatial element can be visualized in a geo-temporal context to enhance Combatant Command planning.								
FY 2018 to FY 2019 Increase/Decrease Statement: Project Ends.								
Title: Massachusetts Institute of Technology Lincoln Labs				2.520	1.444	1.993	-	1.993

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<p>Description: 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>FY 2018 Plans: TRL 4-6: Multi-faceted effort prototyping, via Lincoln Secure Enclave Lab, numerous technologies to enhance operational analytics; data integration, mining, & forensic analytics, etc.</p> <p>FY 2019 Base Plans: TRL 6: Improved basis for network optimization and network design.</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: Development costs vary based on project schedule.</p>						
<p>Title: Modeling & Simulation Innovation</p> <p>Description: 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).</p> <p>FY 2018 Plans: TRL 4-6: Collaborative partnership with Air Force Institute of Technology for graduate research addressing Joint Deployment and Distribution challenges.</p> <p>FY 2019 Base Plans: TRL 4-6: Collaborative partnership with Air Force Institute of Technology for graduate research addressing Joint Deployment and Distribution challenges.</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: Shift of funding between FY's due to project schedule changes</p>		0.080	0.045	0.125	-	0.125
<p>Title: Support Planning for Air Refueling Tasking and Allocation</p> <p>Description: Provide collaborative decision aid to enable planners to the optimize use of the worldwide Active Duty, Air National Guard and Air Force Reserve Air Refueling fleets while maintaining or increasing operational effectiveness, agility and capacity.</p> <p>FY 2018 Plans:</p>		1.288	0.162	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force				Date: February 2018				
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D		Project (Number/Name) 640212 / C2/OPTIMIZATION/MODELING AND SIMULATION				
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
TRL 4-7: Prototype the capability for air refueling planners an integrated human-in-the-loop and machine based cooperative system to optimizing global air refueling operations.								
FY 2018 to FY 2019 Increase/Decrease Statement: Project Ends.								
Title: Strategies for Enterprise Metadata Management				1.125	0.375	-	-	-
Description: Comprehensive account of strategies, optional implementations and recommendations for enterprise-wide management of metadata.								
FY 2018 Plans: TRL 4-7: Collect, populate and prototype metadata tools and applications.								
FY 2018 to FY 2019 Increase/Decrease Statement: Project Ends.								
Title: Technology Transfer				0.293	0.130	0.290	-	0.290
Description: U. S. Transportation Command uses Technology Transfer mechanisms of the Federal Laboratories to facilitate voluntary collaboration by experts from government, industry, and academia, revealing the costs and benefits of innovations, to understand the feasibility of future capabilities.								
FY 2018 Plans: TRL 4 - 6: Continue to actively promote and broker Cooperative Research and Development Agreements (CRADAs) between DOD labs and industry for development of technology with both commercial and military applications. This activity will particularly focus on non-traditional defense contractors and is intended to help lower the expense of new defense-related technology development through cost-sharing with industry and to help DOD benefit from private-sector technology investments and innovations. Continue to actively market DOD-developed technologies to U.S. companies and establish Patent License Agreements to commercialize these technologies for both civilian and military.								
FY 2019 Base Plans: TRL 4 - 6: Continue to actively promote and broker Cooperative Research and Development Agreements (CRADAs) between DOD labs and industry for development of technology with both commercial and military applications. This activity will particularly focus on non-traditional defense contractors and is intended to help lower the expense of new defense-related technology development through cost-sharing with industry and to								

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force				Date: February 2018		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D		Project (Number/Name) 640212 / C2/OPTIMIZATION/MODELING AND SIMULATION		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
help DOD benefit from private-sector technology investments and innovations. Continue to actively market DOD-developed technologies to U.S. companies and establish Patent License Agreements to commercialize these technologies for both civilian and military. FY 2018 to FY 2019 Increase/Decrease Statement: Increased labor costs.						
Title: Infrastructure Information Confidence Model Description: Inform decision makers of the quality of primary and alternate data sources they are using to make decisions FY 2019 Base Plans: Information collaboration process that analyzes and provides a confidence assessment of structured and unstructured data FY 2018 to FY 2019 Increase/Decrease Statement: FY19 New Start		-	-	0.900	-	0.900
Title: Program Execution Description: Provide technical assistance and program management support to the USTRANSCOM RDT&E Program. FY 2018 Plans: 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. FY 2019 Base Plans: 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. FY 2018 to FY 2019 Increase/Decrease Statement:		0.904	1.164	1.452	-	1.452

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force			Date: February 2018			
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D	Project (Number/Name) 640212 / C2/OPTIMIZATION/MODELING AND SIMULATION				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Labor support. changes.						
Title: Synchronizing Mobility Allocations and Resources for Transportation Description: Develop prototype software for advanced squadron scheduling, collaboration, and predictive modeling. FY 2019 Base Plans: Design of the squadron scheduler and visualizations. FY 2018 to FY 2019 Increase/Decrease Statement: FY19 New Start		-	-	1.537	-	1.537
Title: Full Spectrum Mission Assurance Description: All-threats/hazards, collaborative transportation risk management activity to identify unacceptable physical/cyber risks FY 2018 Plans: TRL 5-7: An operational picture environment fed by standardized, reusable, and shareable data layers of actionable info. FY 2019 Base Plans: TRL 5-7: An operational picture environment fed by standardized, reusable, and shareable data layers of actionable info. FY 2018 to FY 2019 Increase/Decrease Statement: Development costs increase.		0.150	0.810	0.979	-	0.979
Title: Modeling Dynamics of Modular Causeways to Improve Debarkation Sites Description: High-fidelity model to provide planners with precise knowledge of Modular Causeway behavior. FY 2018 Plans: TRL 4-7: Developing the ability to simulate causeway operations in order to enhance joint logistics over-the-shore. FY 2019 Base Plans:		-	0.300	0.350	-	0.350

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force			Date: February 2018		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>	Project (Number/Name) 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>			
B. Accomplishments/Planned Programs (\$ in Millions)					
	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
TRL 4-7: Design mockups, Design testing, population of database, demonstration and training					
FY 2018 to FY 2019 Increase/Decrease Statement: Development costs increase.					
Title: Web Based Seaport Explosive Safety Planning	-	0.480	0.480	-	0.480
Description: Provide seaport planners capability to manage net explosive weight/hazard munitions					
FY 2018 Plans: TRL 4-6: Reduce planner port layout from 80 to 5 hours					
FY 2019 Base Plans: TRL 4-6: Reduce planner port layout from 80 to 5 hours					
Accomplishments/Planned Programs Subtotals	14.634	16.945	12.763	-	12.763
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.					
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.					

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Air Force													Date: February 2018		
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>				Project (Number/Name) 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>					

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
Integrated Logistics Support	Various	Various : Belleville, IL	-	13.964	Nov 2016	16.088	Nov 2017	12.763	Nov 2018	-		12.763	Continuing	Continuing	-
Subtotal			-	13.964		16.088		12.763		-		12.763	Continuing	Continuing	N/A

Remarks
Funds will be realigned within PE.

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
Contractor Support PMO	Various	Various : Belleville, IL	-	0.670	Apr 2016	0.857	Apr 2017	-		-		-	Continuing	Continuing	-
Subtotal			-	0.670		0.857		-		-		-	Continuing	Continuing	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			-	14.634		16.945		12.763		-		12.763	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force										Date: February 2018																			
Appropriation/Budget Activity 3600 / 4										R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D										Project (Number/Name) 640212 / C2/OPTIMIZATION/MODELING AND SIMULATION									

	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
No project title.																												
Integrated Logistics Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force		Date: February 2018
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>	Project (Number/Name) 640212 / <i>C2/OPTIMIZATION/MODELING AND SIMULATION</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>No project title.</i>				
Integrated Logistics Support	1	2017	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D				Project (Number/Name) 640213 / CYBER			
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
640213: CYBER	-	3.718	1.959	3.403	0.000	3.403	5.358	5.439	5.552	5.653	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
This program, BA 4, PE 0604776F, project 640213, Operationally Transparent Cyber, 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 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Cyber Mission Assurance Capability								0.150	0.000	0.000	0.000	0.000
Description: Interface with existing sensor data to provide input for analyses of mission impact, mission performance, and mission effectiveness so appropriate alerts and courses of action can be developed, disseminated, and coordinated.												
FY 2018 Plans: Project cancelled												
FY 2019 Base Plans: N/A												
FY 2019 OCO Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force				Date: February 2018		
Appropriation/Budget Activity 3600 / 4		R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D		Project (Number/Name) 640213 / CYBER		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
N/A						
Title: Identity and Access Management Description: Need secure means to credential user access to proper applications & data via single sign approach. FY 2018 Plans: TRL 4-7: Researching to deliver to the enterprise a set of prototype custom attribute solutions. FY 2019 Base Plans: N/A FY 2019 OCO Plans: N/A FY 2018 to FY 2019 Increase/Decrease Statement: Project ends.		0.300	0.200	0.000	0.000	0.000
Title: Operationalizing Cyber Security Description: Provide USTRANSCOM Joint Cyber Center (JCC) organizational effectiveness tools to enhance cyber-security operations, plans & processes. FY 2018 Plans: TRL 4-7: Prototype an advanced cyber-security Command and Control model as well as extend research on non-intrusive data gathering to enhance Joint Cyber Center operations. FY 2019 Base Plans: N/A FY 2019 OCO Plans: N/A FY 2018 to FY 2019 Increase/Decrease Statement: Project ends.		1.319	0.638	0.000	0.000	0.000
Title: Lincoln Labs		1.949	1.121	2.092	0.000	2.092

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force			Date: February 2018		
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D	Project (Number/Name) 640213 / CYBER			
B. Accomplishments/Planned Programs (\$ in Millions)					
	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<p>Description: 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>FY 2018 Plans: TRL 4-6: Multi-faceted prototyping numerous technologies to enhance cyber.</p> <p>FY 2019 Base Plans: TRL 4-6: Multi-faceted prototyping numerous technologies to enhance cyber.</p> <p>FY 2019 OCO Plans: N/A</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: Changes in development costs based on project schedule.</p>					
<p>Title: Operationally Transparent Cyber</p> <p>Description: Rapidly identify, track, and eliminate malicious actor behavior and defend against Advanced Persistent Threats in near real-time</p> <p>FY 2018 Plans: N/A</p> <p>FY 2019 Base Plans: Increase activity detection rate</p> <p>FY 2019 OCO Plans: N/A</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: FY19 New Start</p>					
Accomplishments/Planned Programs Subtotals					
	0.000	0.000	1.311	0.000	1.311
	3.718	1.959	3.403	0.000	3.403
C. Other Program Funding Summary (\$ in Millions)					
N/A					

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force		Date: February 2018
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>	Project (Number/Name) 640213 / <i>CYBER</i>
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/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.		
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Air Force												Date: February 2018			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>						Project (Number/Name) 640213 / <i>CYBER</i>			

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	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics Support	Various	Various : Belleville, IL	-	3.718	Nov 2016	1.959	Nov 2017	3.403	Nov 2018	-		3.403		3.403	Continuing	Continuing	-
Subtotal			-	3.718		1.959		3.403		-		3.403		3.403	Continuing	Continuing	N/A

Remarks Funds will be realigned within the PE.																
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			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			-	3.718	1.959	3.403	-	3.403	Continuing	Continuing	N/A

Remarks											
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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force			Date: February 2018		
Appropriation/Budget Activity 3600 / 4			R-1 Program Element (Number/Name) PE 0604776F / Deployment & Distribution Enterprise R&D		
			Project (Number/Name) 640213 / CYBER		

	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
No project title.																												
Integrated Logistics Support																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force		Date: February 2018
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604776F / <i>Deployment & Distribution Enterprise R&D</i>	Project (Number/Name) 640213 / <i>CYBER</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>No project title.</i>				
Integrated Logistics Support	1	2017	4	2021