Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Defense Logistics Agency											Date: February 2015	
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 3: *Advanced Technology Development (ATD)*					R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*							
COST ($ in Millions)	**Prior Years**	**FY 2014**	**FY 2015**	**FY 2016 Base**	**FY 2016 OCO**	**FY 2016 Total**	**FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**Cost To Complete**	**Total Cost**
Total Program Element	86.456	30.009	29.683	29.888	-	29.888	25.652	25.904	28.332	29.404	Continuing	Continuing
1: *Capabilities Based Logistics*	7.342	-	-	-	-	-	-	-	-	-	Continuing	Continuing
2: *Deployment and Distribution Velocity Management*	6.869	-	-	-	-	-	-	-	-	-	Continuing	Continuing
3: *Cross Domain Intuitive Planning*	2.408	-	-	-	-	-	-	-	-	-	Continuing	Continuing
4: *End-to-End Visibility*	4.922	1.051	0.666	0.400	-	0.400	0.500	0.500	0.500	0.500	Continuing	Continuing
5: *Distribution Planning and Forecasting*	8.504	-	-	-	-	-	-	-	-	-	Continuing	Continuing
6: *Joint Transportation Interface*	14.917	-	-	-	-	-	-	-	-	-	Continuing	Continuing
7: *Distribution Protection/Safety/ Security*	15.135	-	-	-	-	-	-	-	-	-	Continuing	Continuing
8: *Command and Control/ Optimization/Modeling and Simulation*	17.294	18.430	18.780	16.492	-	16.492	14.070	14.222	15.696	16.346	Continuing	Continuing
9: *Cyber*	0.481	3.209	2.986	5.436	-	5.436	4.878	4.916	5.283	5.445	Continuing	Continuing
10: *Global Access*	8.584	7.319	7.251	7.560	-	7.560	6.204	6.266	6.853	7.113	Continuing	Continuing

A. Mission Description and Budget Item Justification

USTRANSCOM is tasked to provide globally integrated, agile deployment and distribution solutions and related enabling capabilities to support national security, force readiness and sustainability within an increasingly constrained defense budget. Unpredictable and extended global distribution routes, limited visibility of sustainment requirements, force packaging limitations, lift constraints, anti-access/area denial concerns, complex supply chains, as well as non-networked battlefield command and control, planning, and decision support tools impede timely customer logistical support. To project unimpeded global power and influence, USTRANSCOM must have access to relevant, real-time information and invest in enabling capabilities that contribute to mission success and help ensure the viability of our capabilities and implementation of a relevant transportation strategy. Effective knowledge sharing, decision support and transparency across the joint logistics enterprise, facilitated by secure enterprise-wide visibility into logistical processes and the ability to effectively collaborate/operate in a contested cyberspace, is required to promote effective, efficient and responsive global management of force projection and sustainment resources.

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Defense Logistics Agency					Date: February 2015
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 3: *Advanced Technology Development (ATD)*			R-1 Program Element (Number/Name) PE 0603713S *I Deployment and Distribution Enterprise Technology*		
B. Program Change Summary ($ in Millions)	**FY 2014**	**FY 2015**	**FY 2016 Base**	**FY 2016 OCO**	**FY 2016 Total**
Previous President's Budget	30.256	29.683	29.959	-	29.959
Current President's Budget	30.009	29.683	29.888	-	29.888
Total Adjustments	-0.247	-	-0.071	-	-0.071
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.247	-			
• Economic Assumption	-	-	-0.071	-	-0.071

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 1 / *Capabilities Based Logistics*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
1: *Capabilities Based Logistics*	7.342	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

Projects 1-3, 5-7 repackaged into new Projects 8-10 starting in FY2013 per ASD (R&E) recommendation.

A. Mission Description and Budget Item Justification

The Department requires procedures and technologies which provide enterprise-level capabilities critical to the distribution system to improve performance of the end-to-end DOD supply chain in direct support of the full range of military operations. Ability to rapidly respond to customers' changing demands, with a reliably high level of service. These needs include: capabilities which enhance any supply or transportation mission (aeromedical, air refueling, joint logistics over-the-shore, and seabasing); analysis, tailoring and implementation of selected best enterprise-level practices from industry; and tools/procedures to optimize transportation plus supply (distribution) plans and schedules in support of an entire operation. This project addresses the required mission support to combatant commanders and other customers in the area of capability-based logistics.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Capabilities Based Logistics	-	-	-
FY 2014 Accomplishments: *** PLEASE ENTER TEXT ***			
Accomplishments/Planned Programs Subtotals	-	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Critical enterprise-level distribution system capabilities to improve DOD supply chain performance. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 2 / *Deployment and Distribution Velocity Management*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2: *Deployment and Distribution Velocity Management*	6.869	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

Projects 1-3, 5-7 repackaged into new Projects 8-10 starting in FY2013 per ASD (R&E) recommendation.

A. Mission Description and Budget Item Justification

DOD requires procedures/technologies targeted at optimizing throughput at the nodes and through the conduits of the deployment and distribution supply chains, from origin to point of use and return to include: inventory management enhancers (includes node cargo management/tracking); materiel handling innovations (including methods of reducing handling); improved physical access to nodes (includes aircraft all-weather visual systems); port throughput enhancements (includes in-port time reduction methods); and innovative delivery methods (for example, precision airlift, autonomous re-supply). 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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Deployment and Distribution Velocity Management	-	-	-
FY 2014 Accomplishments: *** PLEASE ENTER TEXT ***			
Accomplishments/Planned Programs Subtotals	-	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Increase force projection and sustainment velocity. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 3 / *Cross Domain Intuitive Planning*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
3: *Cross Domain Intuitive Planning*	2.408	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

Projects 1-3, 5-7 repackaged into new Projects 8-10 starting in FY2013 per ASD (R&E) recommendation.

A. Mission Description and Budget Item Justification

Procedures/technologies which improve decision-making and collaboration within the supply chain, from the planning stage to real-time execution and retrograde operations, without need for highly specialized operators of the tools. Projects in this area address following areas: decision support tools for any echelon of the supply chain or decision-maker, distribution process simulations and models for analysis and training, distribution demand forecasting/execution monitoring tools, on-line training, automated decision-maker support (e.g., queuing, alerting, recommended courses of action), automated status monitoring with information fusion and drilldown capability, and resilient C2 infrastructure capabilities. This project will provide required mission support to combatant commanders and other distribution/transportation customers in the area of collaborative planning/execution/information sharing/decision support tools.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Cross Domain Intuitive Planning	-	-	-
FY 2014 Accomplishments: *** PLEASE ENTER TEXT ***			
Accomplishments/Planned Programs Subtotals	-	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Improve decision-making and collaboration within the supply chain and focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 4 / *End-to-End Visibility*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
4: *End-to-End Visibility*	4.922	1.051	0.666	0.400	-	0.400	0.500	0.500	0.500	0.500	Continuing	Continuing

A. Mission Description and Budget Item Justification

Enhanced end-to-end visibility of all aspects of power projection and sustainment spectrum is required to improve the effectiveness/efficiency of deployment/distribution/ redeployment operations to ensure warfighter support and confidence. This requires investigation into next generation Automated Information Technology (AIT)/Total Asset Visibility (TAV) technologies and/or container security to improve end-to-end distribution visibility and enhance planning/ execution and transform sustainment operations. Includes the ability to determine immediate, reliable, and accurate shipment status through system access or event management. Develop an over-arching process and system architecture which will automate and integrate existing and innovative new programs across the supply chain to provide complete In Transit Visibility (ITV) data, to include visibility of non-DOD cargo during humanitarian/disaster relief operations. The ability of USTRANSCOM to supply transportation support for homeland defense and/or disaster relief depends on effective ways to link with other governmental and civilian agencies. Also need to explore the many barriers across the Joint Deployment and Distribution Enterprise (JDDE), to include non-DOD government entities, coalition partners, non-government organizations, and commercial industry, which can create confusion/conflict or detract from the optimization of the JDDE.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: End-to-End Visibility	1.051	0.666	0.400
FY 2014 Accomplishments: Continue process to determine parts failure/usage patterns and mission type/environment to initiate sustainment support actions. Complete effort to provide capability to read RFID tags from standoff distances thus increasing theater visibility coverage without increasing infrastructure. Complete integration of basic web mapping capabilities with high end analytical mapping services to properly authenticated users.			
FY 2015 Plans: Begin development of an advanced predictive forecasting capability for better visibility and forecasting of Class IX (spare parts) demands, anticipate lift needs, and establish / measure lift priorities in terms of the operational availability implications of those demands on planned military operations. Complete process to determine parts failure/usage patterns and mission type/ environment to initiate sustainment support actions.			
FY 2016 Plans: Complete development of an advanced predictive forecasting capability for better visibility and forecasting of Class IX (spare parts) demands, anticipate lift needs, and establish / measure lift priorities in terms of the operational availability implications of those demands on planned military operations.			
Accomplishments/Planned Programs Subtotals	1.051	0.666	0.400

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 3	**R-1 Program Element (Number/Name)** PE 0603713S / *Deployment and Distribution Enterprise Technology*	**Project (Number/Name)** 4 / *End-to-End Visibility*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Project performance metrics are specific to each effort and include measures identified in the metric project plans. Project completions and success are monitored against schedules and deliverables stated in the proposals and statements of work. >80% transition rate of proven technologies to increase force projection and sustainment velocity and enhance effectiveness and efficiency of DOD logistics/supply chain operations.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 5 / *Distribution Planning and Forecasting*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
5: *Distribution Planning and Forecasting*	8.504	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

Projects 1-3, 5-7 repackaged into new Projects 8-10 starting in FY2013 per ASD (R&E) recommendation.

A. Mission Description and Budget Item Justification

There is a lack of collaborative distribution planning, based on an understanding of aggregated customer requirements, for optimizing the end-to-end distribution process. Planning, forecasting and collaboration are insufficiently advanced to fully synchronize people, processes and assets to execute planned operations. Automated tools should be able to dynamically analyze/predict demand and provide input to advanced distribution planning systems. Project investigates the need for flexible end-to-end enhanced modeling and simulation and collaborative decision support tools.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Distribution Planning and Forecasting	-	-	-
FY 2014 Accomplishments: *** PLEASE ENTER TEXT ***			
Accomplishments/Planned Programs Subtotals	-	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Planning based on an understanding of customer requirements for optimizing the distribution process. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 6 / *Joint Transportation Interface*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
6: *Joint Transportation Interface*	14.917	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

Projects 1-3, 5-7 repackaged into new Projects 8-10 starting in FY2013 per ASD (R&E) recommendation.

A. Mission Description and Budget Item Justification

Synchronizing strategic/theater delivery capabilities to meet increasingly dynamic customer needs. Transportation information exchange across the DOD is inhibited by the disparity of systems, differing data standards, and insufficient interfaces. Queries and retrieval of status and shipment information cannot be executed due to lack of connectivity between the various components of the supply chain. The ability to maintain situational awareness of movements at macro/micro (drill down) levels, with associated force and sustainment cargo on board; to track force packages progress, and rapidly determine the impact of any delays or changes to sailing progress and arrival at port of debarkation; and to conduct "what -if" impact assessment of possible changes to delivery asset's course, speed or departure/arrival information as it relates to force or force package delivery/impact of any change on the closure of force packages in theater is required. The ability of USTRANSCOM to supply transportation support for homeland defense and/or disaster relief depends on effective ways to link with other governmental and civilian agencies. Also need to explore the many barriers across the Joint Deployment and Distribution Enterprise (JDDE), to include non-DOD government entities, coalition partners, non-government organizations, and commercial industry, which can create confusion/conflict or detract from the optimization of the JDDE.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Joint Transportation Interface	-	-	-
FY 2014 Accomplishments: *** PLEASE ENTER TEXT ***			
Accomplishments/Planned Programs Subtotals	-	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Synchronizing, through information exchange, strategic/theater delivery capabilities to meet warfighter needs. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 7 / *Distribution Protection/Safety/Security*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
7: *Distribution Protection/Safety/ Security*	15.135	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

Projects 1-3, 5-7 repackaged into new Projects 8-10 starting in FY2013 per ASD (R&E) recommendation.

A. Mission Description and Budget Item Justification

The Theater Commander has not always been able to provide the appropriate security in a timely manner during deployment. In some cases there are insufficient security assets to oversee convoy security in-country; therefore, all movement requirements are competing for the same limited resources. Additionally need to explore new, portable methods of detecting hazardous/asymmetric materials in very small quantities to support safe logistics operations. Also explore technologies to enhance the capability to deliver personnel/materiel to anti-access/austere airfields and seaports.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Distribution Protection/Safety/Security	-	-	-
FY 2014 Accomplishments: *** PLEASE ENTER TEXT ***			
Accomplishments/Planned Programs Subtotals	-	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Providing the appropriate security in a timely manner during deployment and distribution operations. Plus focus on research and development to address warfighting requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 8 / *Command and Control/Optimization/ Modeling and Simulation*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
8: *Command and Control/ Optimization/Modeling and Simulation*	17.294	18.430	18.780	16.492	-	16.492	14.070	14.222	15.696	16.346	Continuing	Continuing

A. Mission Description and Budget Item Justification

Capabilities which improve deployment, distribution and supply chain decision-making/collaboration (planning stage to real-time execution and 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, training, automated decision-maker support (e.g., queuing, alerting, courses of action), automated status monitoring with information fusion and drilldown capability, and resilient 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. Transportation information exchange across the DOD is inhibited by disparate systems, multiple data standards and insufficient interfaces. The ability to maintain situational awareness of movements at macro/micro (drill down) levels, with associated force and sustainment cargo on board; to track force packages progress, and rapidly determine the impact of any delays or changes to sailing progress and arrival at port of debarkation; and to conduct "what -if" impact assessment of possible changes to delivery asset's course, speed or departure/arrival information as it relates to force or force package delivery/ impact of any change on the closure of force packages in theater 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 2014	FY 2015	FY 2016
Title: Command and Control/Optimization/Modeling and Simulation	18.430	18.780	16.492
FY 2014 Accomplishments: Begin to create robust modeling solutions in the face of uncertainty, provide the capability to model detailed enhanced business rules without major "surgery" or software development, and provide the ability to utilize sub-network modeling to streamline the modeling and analysis process. Continue effort to provide a browser-based tool to capture user feedback/expertise/learning preferences and domain knowledge over time. Continue effort to increase shared awareness, operational agility and optimize the use of the active duty air refueling (AR) fleet, during the short notice planning process, from a worldwide/fleet-wide perspective, as well as providing the ability to plan, if desired, using allied/coalition/international AR aircraft to refuel DoD aircraft. Continue the effort to develop the ability to effectively and efficiently schedule missions from all known sources of airlift requirements. Continue development and spiral transition of collaboration & situational awareness technologies to provide dynamic planning and course of action development/execution capabilities. Continue partnership with Air Force Institute of Technology to develop Modeling and Simulation Decision Support technologies. Continue partnership with Lincoln Labs for information technology system integration and prototype development. Continue application of semantic technologies within the JDDE for data validation			

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 3	**R-1 Program Element (Number/Name)** PE 0603713S / *Deployment and Distribution Enterprise Technology*	**Project (Number/Name)** 8 / *Command and Control/Optimization/ Modeling and Simulation*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
and correction. Complete effort to optimized surface transportation solutions satisfying customer requirements in a “capabilities-based" application environment. ***FY 2015 Plans:*** Start effort to provide ability to rapidly develop, assess, adapt, and execute plans in a dynamic environment. Commence and complete effort to improve data quality and accessibility, information security improves accessibility, reliability, availability, integrity aspects of information assurance. Start, at military installation Entry Control Facilities, to identify ways to reduce threat vehicle speeds and mitigate or defeat the threat through design changes. Start effort to plan and executing theater distribution of fuel and water. Continue the effort to develop the ability to effectively and efficiently schedule missions from all known sources of airlift requirements. Continue partnership with Air Force Institute of Technology to develop Modeling and Simulation Decision Support technologies. Continue partnership with Lincoln Labs for information technology system integration and prototype development. Continue effort to increase shared awareness, operational agility and optimize the use of the active duty air refueling (AR) fleet, during the short notice planning process, from a worldwide/fleet-wide perspective, as well as providing the ability to plan, if desired, using allied/coalition/international AR aircraft to refuel DoD aircraft. Complete development of robust modeling solutions in the face of uncertainty, provide the capability to model detailed enhanced business rules without major “surgery” or software development, and provide the ability to utilize sub-network modeling to streamline the modeling and analysis process. Complete development and spiral transition of collaboration & situational awareness technologies to provide dynamic planning and course of action development/execution capabilities. Complete effort to provide a browser-based tool to capture user feedback/expertise/ learning preferences and domain knowledge over time. Complete application of semantic technologies within the JDDE for data validation and correction. ***FY 2016 Plans:*** Commence development of information technology and data efforts that support roadmap strategy. Begin comprehensive account of strategies, optional implementations & recommendations for enterprise-wide management of metadata. Continue effort to provide ability to rapidly develop, assess, adapt, and execute plans in a dynamic environment. Continue partnership with Air Force Institute of Technology to develop Modeling and Simulation Decision Support technologies. Continue partnership with Lincoln Labs for information technology system integration and prototype development. Continue effort to increase shared awareness, operational agility and optimize the use of the active duty air refueling (AR) fleet, during the short notice planning process, from a worldwide/fleet-wide perspective, as well as providing the ability to plan, if desired, using allied/coalition/ international AR aircraft to refuel DoD aircraft. Continue the effort to develop the ability to effectively and efficiently schedule missions from all known sources of airlift requirements. Complete effort to plan and executing theater distribution of fuel and water. Complete effort to identify ways, at military installation Entry Control Facilities, to reduce threat vehicle speeds and mitigate or defeat the threat through design changes.			
Accomplishments/Planned Programs Subtotals	18.430	18.780	16.492

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 3	**R-1 Program Element (Number/Name)** PE 0603713S / *Deployment and Distribution Enterprise Technology*	**Project (Number/Name)** 8 / *Command and Control/Optimization/ Modeling and Simulation*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• PE 0603264S: *Agile Transportation for the 21st Century (AT21)*	0.400	-	-	-	-	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Project performance metrics are specific to each effort and include measures identified in the metric project plans. Project completions and success are monitored against schedules and deliverables stated in the proposals and statements of work. >80% transition rate of proven technologies to increase force projection and sustainment velocity and enhance effectiveness and efficiency of DOD logistics/supply chain operations.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 9 / *Cyber*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
9: *Cyber*	0.481	3.209	2.986	5.436	-	5.436	4.878	4.916	5.283	5.445	Continuing	Continuing

A. Mission Description and Budget Item Justification

USTRANSCOM requires mission assurance in a persuasive/dynamic cyber environment. Projects in this area address the following: procedures/technologies which improve cyber surveillance and control of networks across multiple domains; ability to continue critical network operations in contested unclassified and classified network environments; ability to differentiate between valid and unauthorized users; determine and quantify the trustworthiness of hardware/software systems; rapidly analyze & correlate data regarding malicious activities; select/evoke real-time defense actuators; automated reasoning capabilities that address data quality issues that are currently manual, difficult, and time consuming to resolve; and ability to rapidly return to a known/safe operating state.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Cyber	3.209	2.986	5.436
FY 2014 Accomplishments: Continue to develop and deliver a set of services that will enable USTRANSCOM to recognize disruptive events or potential disruptive events, understand their impact, determine a response, and choose and implement the response that best balances addressing the cyber threat while minimizing mission impact. Continue partnership with Massachusetts Institute of Technology Lincoln Labs in developing cyper secure enclave.			
FY 2015 Plans: Begin effort to identify and tailor best business practices, process improvement, knowledge management, and technology transition to operationalize cyber security. Continue to develop and deliver a set of services that will enable USTRANSCOM to recognize disruptive events or potential disruptive events, understand their impact, determine a response, and choose and implement the response that best balances addressing the cyber threat while minimizing mission impact. Continue partnership with Massachusetts Institute of Technology Lincoln Labs in developing cyper secure enclave.			
FY 2016 Plans: Start development of cyber efforts that support roadmap strategy. Commence development of a prototype custom attribute solution with extensive documentation for open standards based identity providers. Continue effort to identify and tailor best business practices, process improvement, knowledge management, and technology transition to operationalize cyber security. Continue partnership with Massachusetts Institute of Technology Lincoln Labs in developing cyper secure enclave. Complete development and delivery of a set of services that will enable USTRANSCOM to recognize disruptive events or potential disruptive events, understand their impact, determine a response, and choose and implement the response that best balances addressing the cyber threat while minimizing mission impact.			
Accomplishments/Planned Programs Subtotals	3.209	2.986	5.436

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 3	**R-1 Program Element (Number/Name)** PE 0603713S / *Deployment and Distribution Enterprise Technology*	**Project (Number/Name)** 9 / *Cyber*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Project performance metrics are specific to each effort and include measures identified in the metric project plans. Project completions and success are monitored against schedules and deliverables stated in the proposals and statements of work. >80% transition rate of proven technologies to increase force projection and sustainment velocity and enhance effectiveness and efficiency of DOD logistics/supply chain operations.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603713S / *Deployment and Distribution Enterprise Technology*	Project (Number/Name) 10 / *Global Access*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
10: *Global Access*	8.584	7.319	7.251	7.560	-	7.560	6.204	6.266	6.853	7.113	Continuing	Continuing

A. Mission Description and Budget Item Justification

DOD requires procedures/technologies targeted at optimizing throughput at the nodes and through the conduits of the deployment and distribution supply chains, from origin to point of use and return to include: inventory/cargo management; materiel handling innovations; improved physical node access (includes aircraft all-weather visual systems); port throughput enhancements; 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 2014	FY 2015	FY 2016
Title: Global Access	7.319	7.251	7.560

FY 2014 Accomplishments:

Commence and complete effort to provide autonomous (manned, unmanned) vehicle/convoy operations. Commence and complete effort to study the viability of a motion compensation platform for loading/off-loading commercial container ships at sea. Collaborate with Natick Soldiers Center to provide a 500-2,000 pound High Altitude Low Opening (HALO) Container Delivery System (CDS) as well as a series of technologies that improve the accuracy of precision airdrop, and which can be adapted as appropriate to any of the various systems that DoD agencies are using. Continue effort to remotely access and retrieve containers and vehicles at sea. Complete effort for a system that decontaminates large frame aircraft. Complete development of manned and unmanned technologies that deliver cargo/logistics/sustainment to the point of need (Autonomous Technologies for Unmanned Air Systems (ATUAS)) JCTD. Complete effort to investigate effects of chemical agents on aircraft materials and structures. Complete developing capability to safely air drop supplies directly on populated areas. Complete ship-to-shore causeways linkage system to support deployment/sustainment of the warfighter in austere locations and joint logistics over the shore. Complete effort that enables lower communication cost (via Wideband Global SATCOM) and flexible en route SATCOM options when Fixed Installed Satellite Antenna (FISA) is unavailable.

FY 2015 Plans:

Development and integration of Large Aircraft Infrared Countermeasures (LAIRCM) Enhanced Situational Awareness (LESA) capability with LAIRCM and the Dynamic Retasking Capabilitity display, and demonstrate the capability. Begin effort to deliver an appliqué system that can be added onto currently fielded Rough Terrain Cargo Handlers to allow a single operator to perform the standard container movement operations quicker, safer, and without need of a safety spotter. Develop and deliver an operational prototype real-time monitoring and display system of local wave/current/wind conditions. Continue effort to provide a 500-2,000 pound High Altitude Low Opening (HALO) Container Delivery System (CDS) as well as a series of technologies that improve the accuracy of precision airdrop, and which can be adapted as appropriate to any of the various systems that DoD agencies are

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Logistics Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 3	**R-1 Program Element (Number/Name)** PE 0603713S / *Deployment and Distribution Enterprise Technology*	**Project (Number/Name)** 10 / *Global Access*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
using. Access airship/hybrid airship viability through studies and limited technical or operational demonstrations. Complete effort to remotely access and retrieve containers and vehicles at sea. ***FY 2016 Plans:*** Start development of a robust capability to rapidly repair degraded ports in strategic locations results in the capability to present adversaries with a more complex targeting problem while ensuring agile strategic logistics, namely the ability to discharge strategic sealift vessels. Begin effort to develop precision, on-demand air drop resupply of small units in remote/austere locations based on request from unit in need. Commence effort to provide visual/guidance technologies to use when global positioning systems are not available. Continue effort to provide a 500-2,000 pound High Altitude Low Opening (HALO) Container Delivery System (CDS) as well as work on a series of technologies that improve the accuracy of precision airdrop, and which can be adapted as appropriate to any of the various systems that DoD agencies are using. Access airship/hybrid airship viability through studies and limited technical or operational demonstrations. Complete development of an operational prototype real-time monitoring and display system of local wave/current/wind conditions. Complete development and integration of Large Aircraft Infrared Countermeasures (LAIRCM) Enhanced Situational Awareness (LESA) capability with LAIRCM and the Dynamic Retasking Capability display, and demonstrate the capability. Complete effort to deliver an appliqué system that can be added onto currently fielded Rough Terrain Cargo Handlers to allow a single operator to perform the standard container movement operations quicker, safer, and without need of a safety spotter.			
Accomplishments/Planned Programs Subtotals	7.319	7.251	7.560

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Project performance metrics are specific to each effort and include measures identified in the metric project plans. Project completions and success are monitored against schedules and deliverables stated in the proposals and statements of work. >80% transition rate of proven technologies to increase force projection and sustainment velocity and enhance effectiveness and efficiency of DOD logistics/supply chain operations.