### A. Mission Description and Budget Item Justification

**USTRANSCOM** is tasked to provide globally integrated, agile deployment and distribution solutions as well as related enabling capabilities to support national security, force readiness and sustainability within an increasingly constrained defense budget. Unpredictable/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, invest in enabling capabilities that contribute to mission success, ensure the viability of our capabilities, and implement 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 as well as the ability to effectively collaborate/operate in a contested cyberspace, is required to promote the effective/efficient/responsive global management of force projection and sustainment resources.

### B. Program Change Summary ($ in Millions)

<table>
<thead>
<tr>
<th></th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018 Base</th>
<th>FY 2018 OCO</th>
<th>FY 2018 Total</th>
</tr>
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<tbody>
<tr>
<td>Previous President's Budget</td>
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<td>0.000</td>
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<td>-</td>
<td>0.000</td>
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<tr>
<td>Current President's Budget</td>
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<td>0.000</td>
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<tr>
<td>Total Adjustments</td>
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<td>0.000</td>
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<td>• Congressional Directed Reductions</td>
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<tr>
<td>• Congressional Adds</td>
<td>-</td>
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<tr>
<td>• Congressional Directed Transfers</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>• Reprogrammings</td>
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<td>• SBIR/STTR Transfer</td>
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</tbody>
</table>

### Change Summary Explanation

NOTE: In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE 0604776F) in order to support auditability, increase management efficiency, and reduce administrative actions.
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

<table>
<thead>
<tr>
<th>COST ($ in Millions)</th>
<th>Prior Years</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018 Base</th>
<th>FY 2018 OCO</th>
<th>FY 2018 Total</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
<th>Cost To Complete</th>
<th>Total Cost</th>
</tr>
</thead>
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<tr>
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<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>7.342</td>
</tr>
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</table>

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)

<table>
<thead>
<tr>
<th>Title</th>
<th>FY 2016</th>
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<th>FY 2018</th>
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</thead>
<tbody>
<tr>
<td>Capabilities Based Logistics</td>
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<td>-</td>
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</table>

Accomplishments/Planned Programs Subtotals | 0.000   | -       | -       |

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.
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)

<table>
<thead>
<tr>
<th>Title: Deployment and Distribution Velocity Management</th>
<th>FY 2016 Accomplishments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
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</tr>
</tbody>
</table>

Accomplishments/Planned Programs Subtotals 0.000

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.
### 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)

**Title:** Cross Domain Intuitive Planning  
**FY 2016 Accomplishments:**  
N/A

<table>
<thead>
<tr>
<th>Accomplishments/Planned Programs Subtotals</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>0.000</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### 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.
A. Mission Description and Budget Item Justification
Enhanced end-to-end visibility of all aspects of power projection/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, 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/system architecture which will 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. Additionally 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)

<table>
<thead>
<tr>
<th>Title: End-to-End Visibility</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2016 Accomplishments:</td>
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<td>-</td>
</tr>
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</table>

C. Other Program Funding Summary ($ in Millions)
N/A

D. Acquisition Strategy
N/A

Note: In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE 0604776F) in order to support auditability, increase management efficiency, and reduce administrative actions.
E. Performance Metrics

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

### Accomplishments/Planned Programs ($ in Millions)

<table>
<thead>
<tr>
<th>Title: Distribution Planning and Forecasting</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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</thead>
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<tr>
<td>FY 2016 Accomplishments: N/A</td>
<td>0.000</td>
<td>-</td>
<td>-</td>
</tr>
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</table>

### Other Program Funding Summary ($ in Millions)

N/A

### Remarks

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

### 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.
### UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Defense Logistics Agency

Date: May 2017

<table>
<thead>
<tr>
<th>Appropriation/Budget Activity</th>
<th>R-1 Program Element (Number/Name)</th>
<th>Project (Number/Name)</th>
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<tbody>
<tr>
<td>0400 / 3</td>
<td>PE 0603713S / Deployment and Distribution</td>
<td>6 / Joint Transportation Interface</td>
</tr>
</tbody>
</table>

**Enterprise Technology**

<table>
<thead>
<tr>
<th>COST ($ in Millions)</th>
<th>Prior Years</th>
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<th>FY 2017</th>
<th>FY 2018 Base</th>
<th>FY 2018 OCO</th>
<th>FY 2018 Total</th>
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<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
<th>Cost To Complete</th>
<th>Total Cost</th>
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<tbody>
<tr>
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<td>0.000</td>
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</table>

**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)

<table>
<thead>
<tr>
<th>Title: Joint Transportation Interface</th>
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</thead>
<tbody>
<tr>
<td>FY 2016 Accomplishments:</td>
</tr>
<tr>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.000</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Accomplishments/Planned Programs Subtotals 0.000 - -

C. Other Program Funding Summary ($ in Millions)

N/A

### 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.
### 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)

<table>
<thead>
<tr>
<th>Title: Distribution Protection/Safety/Security</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
</tr>
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<tr>
<td>N/A</td>
<td>0.000</td>
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<td>-</td>
</tr>
</tbody>
</table>

Accomplishments/Planned Programs Subtotals 0.000 - -

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

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/exeuction monitoring, training, automated decision-maker support (e.g., queuing, alerting, courses of action), automated status monitoring with information fusion to include drilldown capability, and resilient C2 infrastructure capabilities. Current planning/forecasting/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)**

<table>
<thead>
<tr>
<th>FY 2016 Accomplishments:</th>
</tr>
</thead>
</table>

**Title: Command and Control/Optimization/Modeling and Simulation**

FY 2016 Accomplishments:

- Began a comprehensive account of strategies, optional implementations & recommendations for enterprise-wide management of metadata. Continued the development of robust modeling solutions in the face of uncertainty, provided the capability to model detailed enhanced business rules without major “surgery” or software development, and provided the ability to utilize sub-network modeling to streamline the modeling and analysis process. Continued effort to provide ability to rapidly develop, assess, adapt, and execute plans in a dynamic environment. Continued partnership with Air Force Institute of Technology to develop Modeling and Simulation Decision Support technologies. Continued partnership with Lincoln Labs for information technology system integration and prototype development. Continued effort to increase shared awareness, operational agility and optimize the use of the active duty 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. Continued the effort to develop the ability to effectively and efficiently schedule missions from all known sources of airlift requirements. Completed effort to plan and executing theater distribution of fuel and water. Completed effort to identify ways, at military installation Entry Control Facilities, to reduce threat vehicle speeds and mitigate or defeat the threat through design changes. Completed effort to plan and executing theater distribution of fuel and water.

FY 2017 Plans:
### B. Accomplishments/Planned Programs ($ in Millions)

<table>
<thead>
<tr>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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</table>

NOTE: In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE 0604776F) in order to support auditability, increase management efficiency, and reduce administrative actions.

Accomplishments/Planned Programs Subtotals 16.492 0.000 -

### 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/success are monitored against schedules and deliverables stated in the statements of work. >80% transition rate of proven technologies to increase force projection and sustainment velocity. Ability to enhance the effectiveness and efficiency of DoD logistics/supply chain operations.
A. Mission Description and Budget Item Justification

USTRANSCOM requires mission assurance 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 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)

<table>
<thead>
<tr>
<th>Title</th>
<th>FY 2016</th>
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<tbody>
<tr>
<td>Cyber</td>
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<td>0.000</td>
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</table>

FY 2016 Accomplishments:
Continued development of a prototype custom attribute solution with extensive documentation for open standards based identity providers. Continued effort to identify and tailor best business practices, process improvement, knowledge management, and technology transition to operationalize cyber security. Continued partnership with Massachusetts Institute of Technology Lincoln Labs in developing cyber secure enclave. Completed 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 as well as choose and implement the response that best balances addressing the cyber threat while minimizing mission impact.

FY 2017 Plans:
NOTE: In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE 0604776F) in order to support auditability, increase management efficiency, and reduce administrative actions.
C. Other Program Funding Summary ($ in Millions)

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/success are monitored against schedules and deliverables stated in the statements of work. >80% transition rate of proven technologies to increase force projection and sustainment velocity. Ability to enhance the effectiveness and efficiency of DoD logistics/supply chain operations.
UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Defense Logistics Agency

Date: May 2017

Appropriation/Budget Activity
0400 / 3

R-1 Program Element (Number/Name)
PE 0603713S / Deployment and Distribution Enterprise Technology

Project (Number/Name)
10 / Global Access

<table>
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<th>COST ($ in Millions)</th>
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<th>FY 2018 Base</th>
<th>FY 2018 OCO</th>
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<th>FY 2022</th>
<th>Cost To Complete</th>
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<tbody>
<tr>
<td>10: Global Access</td>
<td>20.945</td>
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<td>28.505</td>
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**Note**

NOTE: In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE 0604776F) in order to support auditability, increase management efficiency, and reduce administrative actions.

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

DoD requires 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 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)**

**Title:** Global Access

**FY 2016 Accomplishments:**

Began building a prototype modular petroleum pumping system that will provide a development path for Navy/USMC ship-to-shore technology. Began development and integration of Large Aircraft Infrared Countermeasures (LAIRCM) Enhanced Situational Awareness capability. Started development of a capability to rapidly assess degraded/damaged ports in strategic locations. Began effort to develop precision, on-demand air drop resupply of small units in remote/austere locations based on request from unit in need. Commenced effort to provide visual/guidance technologies to use when global positioning systems are not available. Completed development of an operational prototype real-time monitoring and display system of local wave/current/wind conditions. Completed effort to deliver an appliqué system that can be added onto currently fielded Rough Terrain Cargo Handlers. Completed effort to remotely access and retrieve containers and vehicles at sea.

**FY 2017 Plans:**

NOTE: In FY 2017, PE 0603713S (BA3) Deployment and Distribution Enterprise Technology and PE 0603264S (BA3) Agile Transportation for the 21st Century Theater were transferred to a single PE in the Air Force budget (PE 0604776F) in order to support auditability, increase management efficiency, and reduce administrative actions.

Accomplishments/Planned Programs Subtotals 7.560 0.000 -
### Exhibit R-2A, RDT&E Project Justification: FY 2018 Defense Logistics Agency

<table>
<thead>
<tr>
<th>Appropriation/Budget Activity</th>
<th>R-1 Program Element (Number/Name)</th>
<th>Project (Number/Name)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400 / 3</td>
<td>PE 0603713S / Deployment and Distribution</td>
<td>10 / Global Access Enterprise Technology</td>
</tr>
</tbody>
</table>

#### 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/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. Ability to enhance the effectiveness and efficiency of DoD logistics/supply chain operations.