





United States Transportation Command

(USTRANSCOM)

Challenges & Opportunities

Improving Operational Effectiveness, Achieving Efficiencies, & Shaping Future Capabilities

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Approved for Public Release
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- USTRANSCOM 101
- Research, Development, Test & Evaluation (RDT&E)
 Program
- RDT&E Process
- RDT&E Focus Areas / Collaboration Opportunities
- Select Current Initiatives



USTRANSCOM Provides Full-Spectrum Global Mobility Solutions & Related Enabling Capabilities for Supported Customers' Requirements in Peace and War

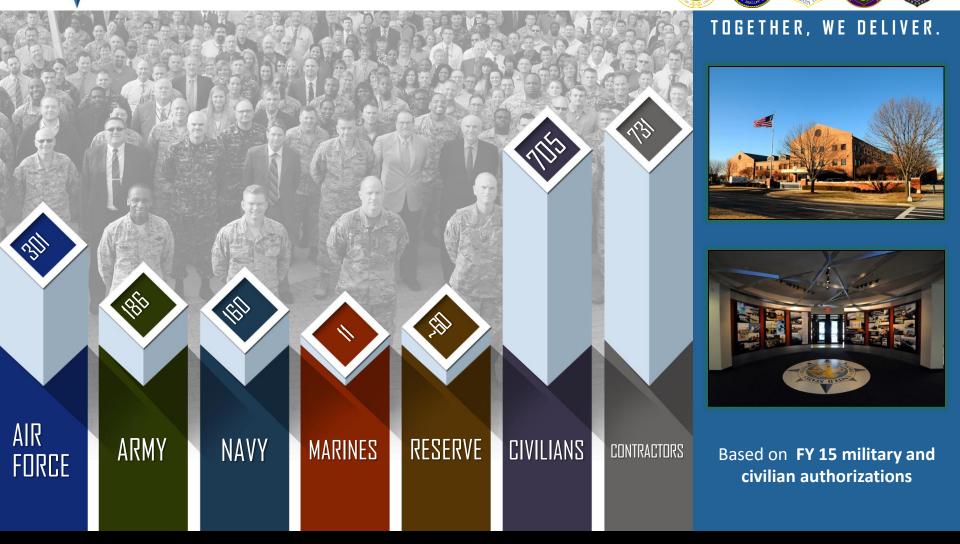


The Global Distribution Network





USTRANSCOM Headquarters



Staff Total: 2162 Military, Civilians & Contractors



USTRANSCOM Team



~140,000 People \$8.5B in Revenue







Total Joint Effort









An Immediate Force Tonight...A Decisive Force When Needed



RDT&E Program Foundation

<u>UCP</u>: "Coordinating and overseeing the DoD distribution...to provide... DoD-wide, end-to-end distribution."

<u>PBD 703</u>: "...a centralized R&D program...to enhance the efficiency and effectiveness of Defense distribution and transportation systems."

<u>DoDI 5158.06</u>: "Enhance the DoD global distribution system by engaging in innovative and transformational distribution-related research"

- As the Distribution Process Owner, USTRANSCOM actively pursues collaborative partnerships to:
 - Rapidly integrate end-to-end deployment and distribution capabilities to improve Joint Deployment & Distribution Enterprise (JDDE) logistics effectiveness & efficiency
 - Provide tangible cost savings to be passed back to the DoD
- Goals:
 - Develop and deploy joint, relevant technologies to improve Warfighter support
 - Improve precision, reliability, visibility and efficiency of the DoD supply chain
 - Assure superior strategic, operational and tactical mobility support

>\$500M Services/Agency/OSD leveraged; >90% Transition Rate (DoD metric is 30%)



RDT&E Process

~\$30M/yr Budget Activity 4 (BA4) funding joint TRL 4 -7 innovation

DEC-JAN	FEB	MAR - AUG	SEP - C	DCT
S&T COI INPUT	ID/Validate Technical Challenges	Proposal Submission & Prioritization	RDT&E Annual Plan Review	RDT&E Annual Plan Approval
 Defense Agencies CCMDs USTRANSCOM/TCC Service Labs Joint Staff DPO Partners CP-GD 9033 Gov't Agencies 	1. MAM/CIO Review 2. TCB Approve 3. Announcement	 Receive Proposals Prioritization Construct Plan 	1. MAM Review 2. CIO Review 3. DPO Governance	TCB Approval

CCMDs	Combatant Commands	MAM	Mission Area Manager
CIO	Chief Information Officer	тсв	TRANSCOM Corporate Board
CP-GD	Campaign Plan-Global Distribution	тсс	Transportation Component Commands
DPO	Distribution Process Owner	TRL	Technology Readiness Level



RDT&E Focus Areas (total 38)

GLOBAL ACCESS

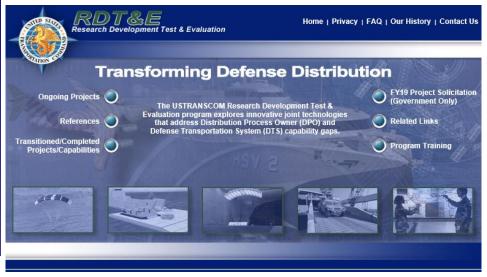
- Rapid Distribution & Delivery Technologies
- Force Protection (cargo/lift assets/personnel)
- Sea Basing/Logistics-Over-The-Shore (LOTS)
- Rapid Construction for Ports (Air/Sea) Debarkation
- Precision Airdrop/Aerial Delivery
- Opportune Landing Site Identification
- Autonomous Aircraft Approach & Landing

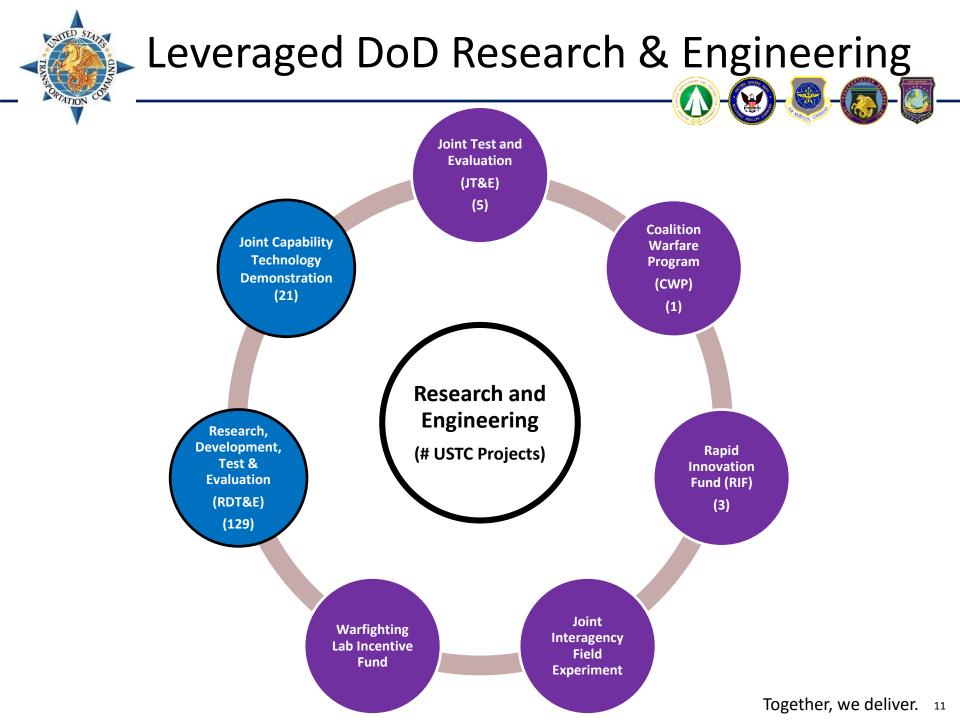
C2/OPTIMIZATION/MODELING & SIMULATION

- Deployment/Distribution Planning & Execution
- Distributed Global Mobility Command & Control
- Survivable Communications
- Human System Interface
- Information Visualization
- Modeling
- Knowledge Management
- Information Science and Technology
- Manipulation of Large Data Sets

- Cyber Security
- Information Assurance
- Identity Access & Management
- Secure Collaboration with Commercial Partners
- Multi-modal Patient Movement
- Risk Assessment
- End-to-End Visibility

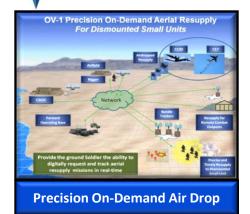
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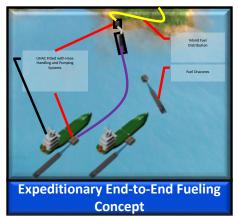




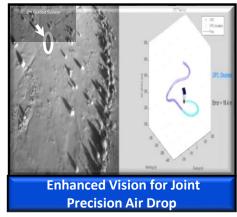
Select Current Initiatives



Provide the Nett Warrior equipped Army Small Unit the ability to call and/or direct resupply



Prototype modular pumping system to address over-the-shore & inland distribution needs while informing future Service fuel system Programs of Record



Precision guidance/delivery of airdrop bundles in Global Positioning System (GPS) denied environments



Rapid repair capability to fix a damaged pier





Pursue single pass airdrop capability to enhance delivery aircraft/crew safety



Mini-Robotic Dredge

Expeditionary dredging capability to support improved access to the shore



Select Current Initiatives Cont...



Global Mission Scheduling

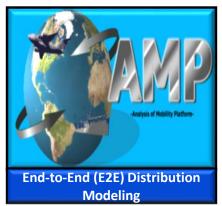
Pairing air movement requirements and resources



Collaborative geospatially enabled capability for Combatant Command planners to rapidly develop multiple COAs and conduct deliberate planning



Optimize air refueling, planning and scheduling



Enhance E2E modeling and sensitivity analysis to optimize force projection, distribution and redeployment capabilities



Theater-wide bulk fluid rapid planning capability supporting conveyance (ground/air) and non-conveyance (pipeline/hoseline) delivery



Enhance organizational decision making by providing a holistic methodology



RDT&E Info (http://www.transcom.mil/cmd/associated/rdte/)



Questions

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