



United States Transportation Command

(USTRANSCOM)

Operational/Technical Challenges & Opportunities

Mr. Lou Bernstein

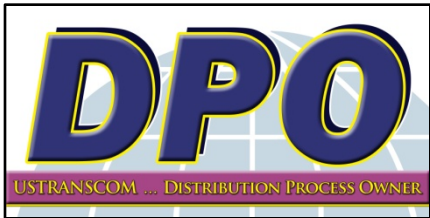
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Things We Do





Mission



“USTRANSCOM provides full-spectrum global mobility solutions and related enabling capabilities for supported customers’ requirements in peace and war.”




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The USTRANSCOM Team

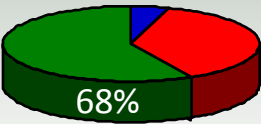


*~ 150,000 People
\$2.6B in Assets
\$12.8B in Revenue*




**Surface Deployment/
Distribution
Command**

Force =
3,500



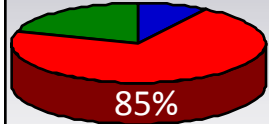
68%

Active Duty
Civilian
Guard/Reserve




**Military Sealift
Command**

Force =
8,200



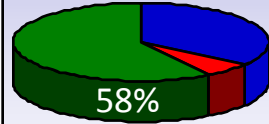
85%

Active Duty
Civilian
Guard/Reserve




**Air Mobility
Command**

Force =
131,000



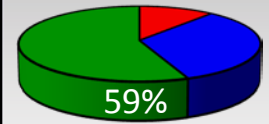
58%

Active Duty
Civilian
Guard/Reserve



**Joint Enabling
Capabilities
Command**

Force =
1,363






59%

Active Duty
Civilian
Guard/Reserve



**Commercial
Industry
Contribution**

~950 Aircraft
~375 Vessels


**Challenge -- Deliver an end-to-end deployment and distribution capability that's
Precise, Reliable & Efficient**



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On Any Given Day.....



- **100 railcars loading/enroute/off-loading**
- **25 ships underway + 9 ships loading or offloading**
- **1,000 truck cargo shipments**
- **1,600 household goods movements**
- **400 airlift sorties**
- **60 operational air refueling sorties**
- **35 patients being air evacuated**
- **25 couriers enroute**
- **Aircraft takeoff or landing every two minutes**





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USTRANSCOM Strategic Focus Areas



Preserve Readiness Capability

- Cross-Domain Information Exchange & Collaboration
- Knowledge Management
- Information Assurance & Survivable Communications



Achieve IT Management Excellence

- Adaptive Planning & Execution
- Distribution Planning & Forecasting
- Information Visualization



Align Resources & Processes for Success



Develop Customer-Focused Professionals



Vision: Deliver critical transportation & enabling capabilities that help make America a global power



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RDT&E Program Foundation/Vision



UCP: “Coordinating and overseeing the DOD distribution system to provide interoperability, synchronization, and alignment of DOD-wide, end-to-end distribution.”

improve JDDE logistics effectiveness & efficiency

- Provide tangible cost savings to be passed back to the DoD

PBD 703: “..need for a centralized R&D program for quick payoff technologies to enhance the efficiency and effectiveness of Defense distribution and transportation systems.”

- Develop and deploy joint, relevant technologies to improve Warfighter

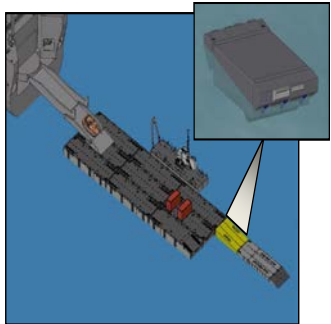
DoDI 5158.06: “Enhance the DOD global distribution system by engaging in innovative and transformational distribution-related research, including force projection, sustainment, and redeployment/retrograde related research, ...”

>\$475M Services/Agency/OSD leveraged;
>90% Transition Rate (DOD metric is 30%);
Return on Investment 7:1



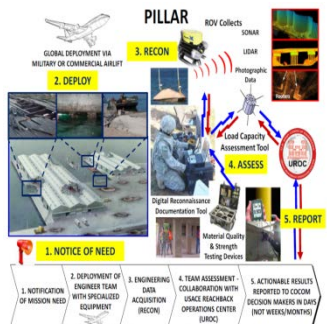
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Research & Development



Joint Universal Causeway Interface Module

Universal interface for disparate service connectors/causeways



Preamble Initial Look Leading to Accelerated Results

Provide an autonomous pier damage assessment capability



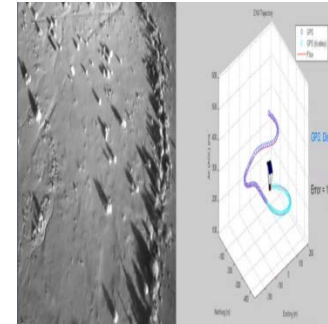
Port Improvement via Exigent Repair

Robust capability to rapidly repair degraded seaport



Precision On Demand Aerial Resupply

Provide isolated units ability to request, track & recover aerial resupply



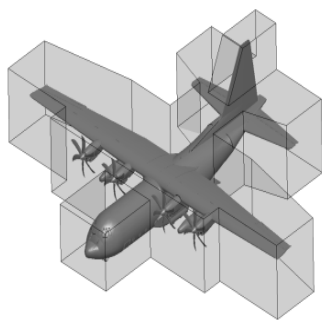
Enhanced Vision Navigation for JPADS

Enable airdrop operations in areas of reduced or denied GPS



Humanitarian Operations in Populated Environments

Direct delivery of relief supplies to populated areas in hours vice days



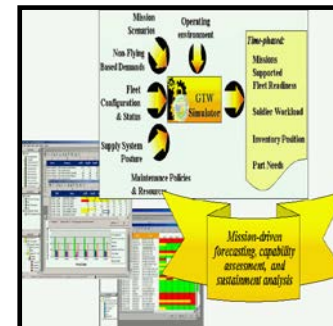
Joint Biological Agent Decontamination System

Decontaminate an encapsulated aircraft using heat & humidity



Global Mission Scheduling

Fine-tune pairing of air movement requirements and resources



Class IX Demand Forecasting

Exposing demand pattern dynamics/variability to be dealt with proactively



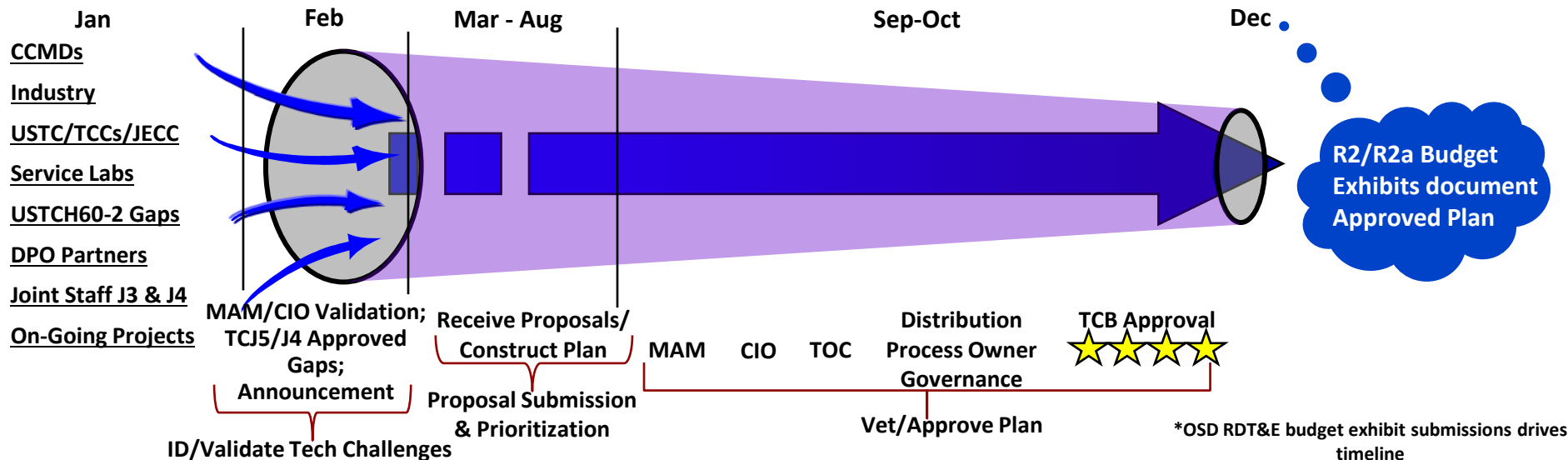
Geo-spatial Information Management

Integrate web mapping capabilities with high end analytical mapping services



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RDT&E Process



- Approx \$30M/yr budget; typically \$4M-\$8M available for new initiatives each year (6-8 projects)
- Over 60 industrial, 50 government and 10 academic partners have received USTRANSCOM RDT&E funds
- Only submissions from government organizations are considered
- Industry may partner with government sponsor, but acquisition rules must be followed
- Annual solicitation announcement (E-mail, web page, DTIC) for Phase I White Papers is 1 March



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RDT&E Info (<http://www.transcom.mil/rdte/>)



The screenshot shows the RDT&E website homepage. At the top left is the USTRANSCOM logo. The main header features the text "RDT&E Research Development Test & Evaluation" and navigation links: "Home | Privacy | FAQ | Our History | Contact Us". A search bar with a "Go" button is on the right. The central heading is "Transforming Defense Distribution". Below this, there are five circular icons with corresponding text: "Ongoing Projects", "References", "Transitioned/Completed Projects/Capabilities", "FY16 Project Solicitation (government only)", "Related Links", and "Program Training". A central paragraph reads: "The USTRANSCOM Research Development Test & Evaluation program explores innovative joint technologies that address Distribution Process Owner (DPO) and Defense Transportation System (DTS) capability gaps." At the bottom, there are five small images: a parachute, a control room, a tunnel, a truck, and two people working on a screen. A "RDTE Background" button is located below the images.

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