



Public Release Certified
USTRANSCOM



***USTRANSCOM Research, Development, Test
& Evaluation (RDT&E)***

Joint Deployment and Distribution Enterprise

15 April 2010

Mr. Lou Bernstein



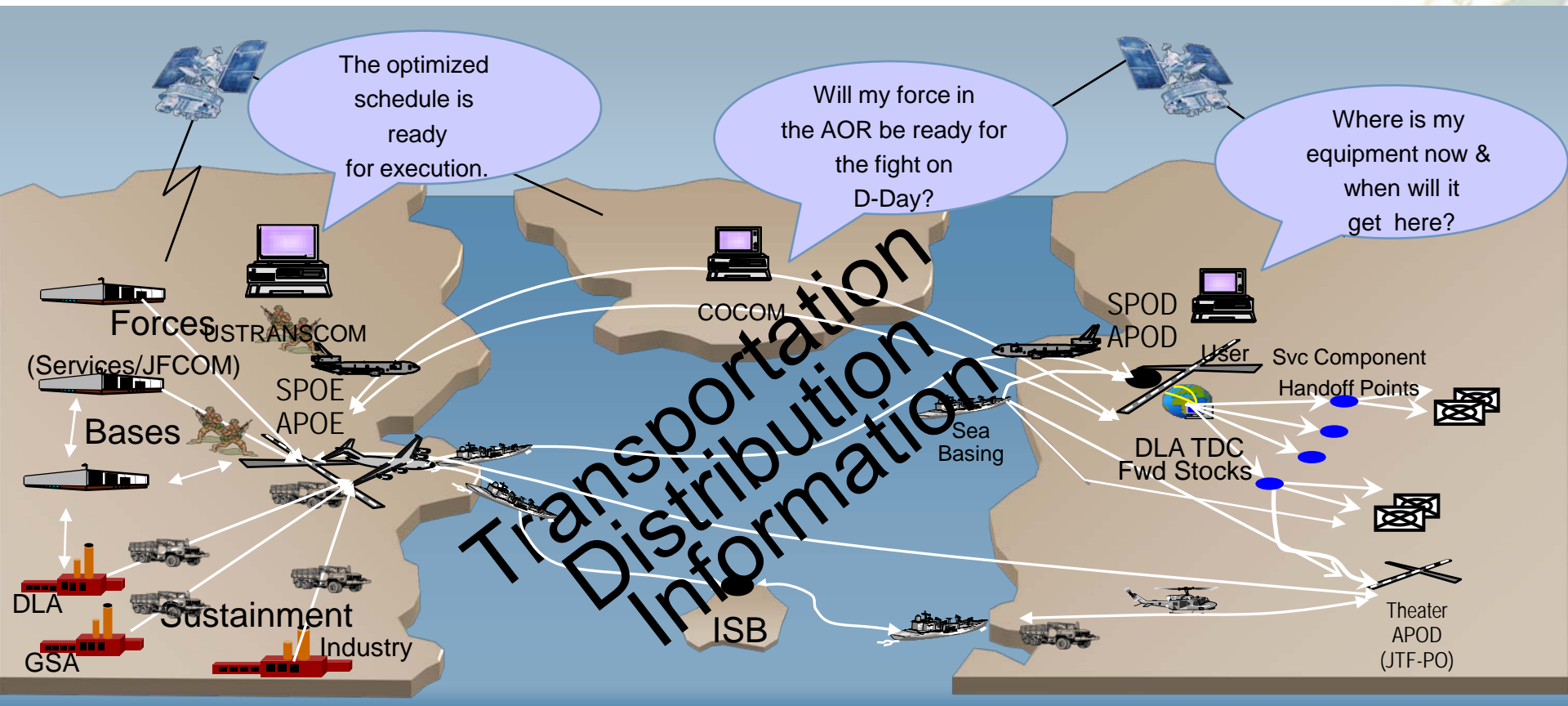
Content Summary

- **Mission Overview**
- **Top Operational/Technology Challenges**
- **RDT&E Program/FY12 Call for Proposals**
- **Project Summaries**
- **Questions/Contact Info**





USTRANSCOM's End-to-End Mission



Leveraging S&T Community to Transform DoD Logistics Support to the Warfighter



Operating in a Global Environment...

Combatant Commander Plans...

- Rely on Austere Infrastructure
- Demand Rapid Force Projection
- Require Early Diplomatic Coordination
- Incorporate Civil-Military Support
- Pose Force Protection Threat

Challenges

No Fuel

Runways

Diplomatic
Clearances

No MHE/CHE

Limited
Nav aids

Poor
Construction

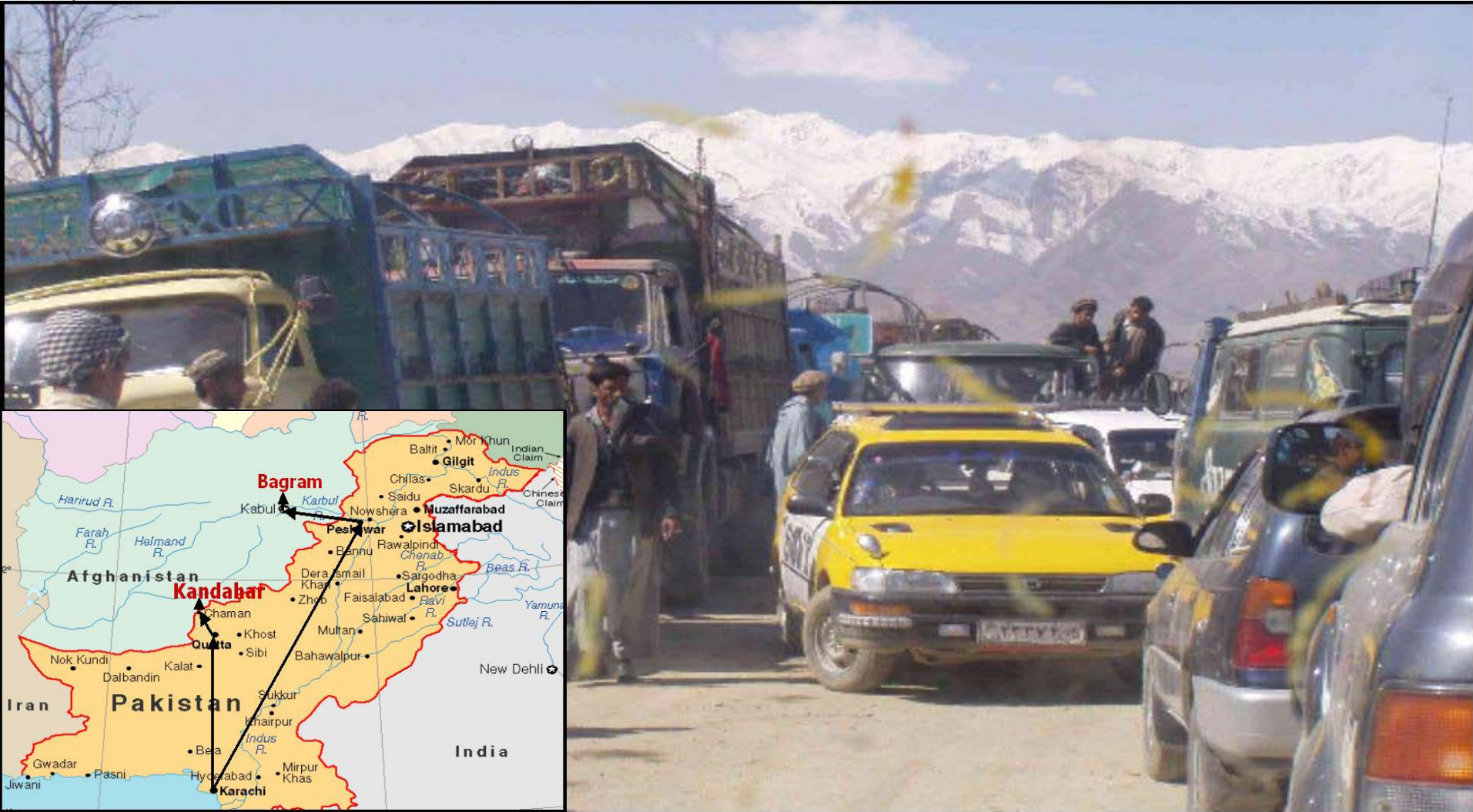
Access!!

High Threat

...that places a premium on Collaboration



Supply Chain Challenges



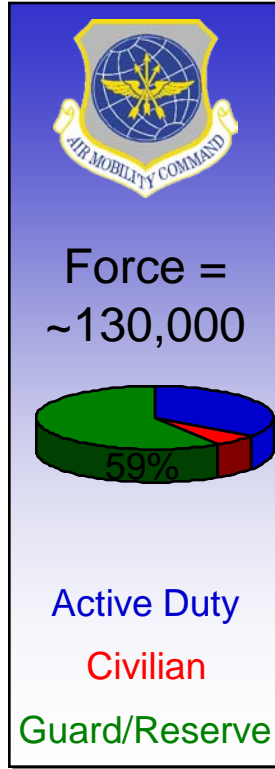
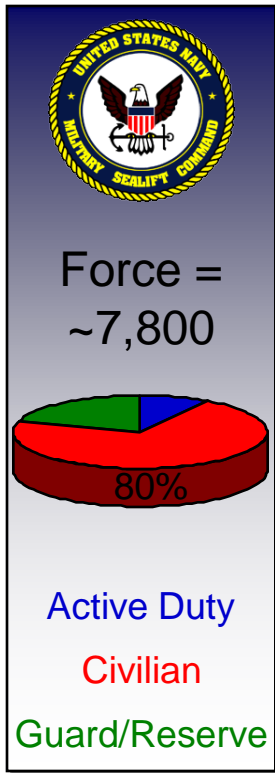
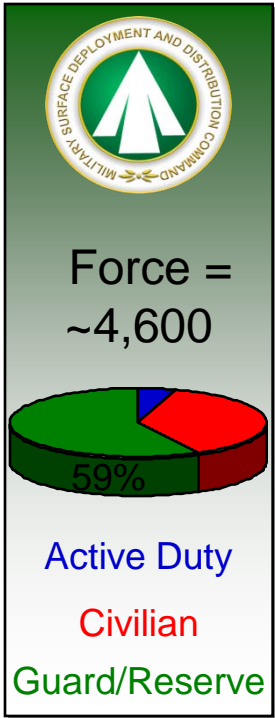
"Everything in war is simple, but the simplest thing is difficult."

Carl von Clausewitz



The USTRANSCOM Team

Single Manager for Common-User Transportation



Total Force:
~145,000

Commercial Industry Contribution

CRAF:
1,146 Aircraft
34 Carriers

VISA:
312 Vessels
48 Companies



“Provide air, land, and sea transportation for the DOD, in both time of peace and time of war.”



Operations Enduring Freedom and Iraqi Freedom as of 1 Feb 10



**>4.6M CONUS
Truck Shipments**

**> 11.8M tons
dry cargo (air & sea)
> 6.4M Pax
> 6.5B gallons of fuel
(air & sea)**



>134K Airlift Missions



**>223K Railcar
Shipments**



**>69,905 Patients Moved
From AOR**



921 Ship Loads



Top Operational/Technical Challenges

- **Improve Point of Need Delivery**
- **Ability to Sustain from the Joint Seabase**
- **Command & Control(C2)/Decision Support**
- **Operate in Any Environment**

See USTCH60-2
for complete list
of challenges



RDT&E Overview

Current



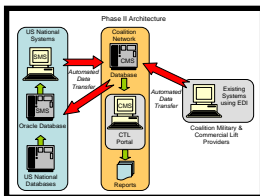
Precision Airdrop



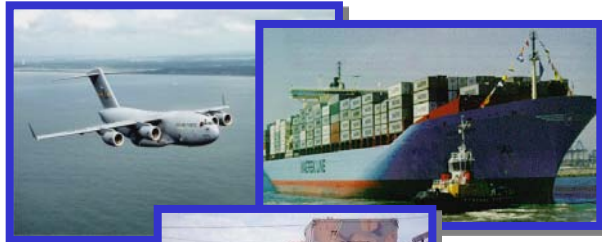
Joint Modular Intermodal Distribution System



En-route Patient Care Module



Coalition Mobility System



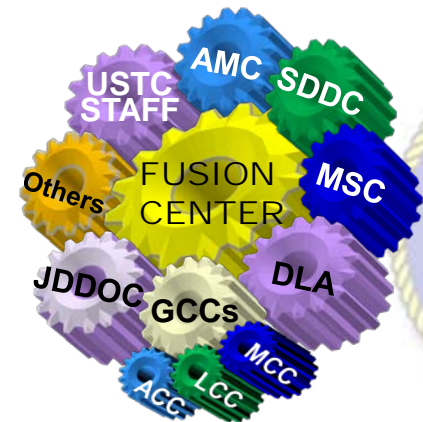
Joint Deployment and Distribution Enterprise(JDDE)



Future



Point of Need Delivery



Agile Transportation for the 21st Century



Seabase Enablers



RDT&E Program

- Dedicated to improving logistical/supply chain performance (within DLA budget)

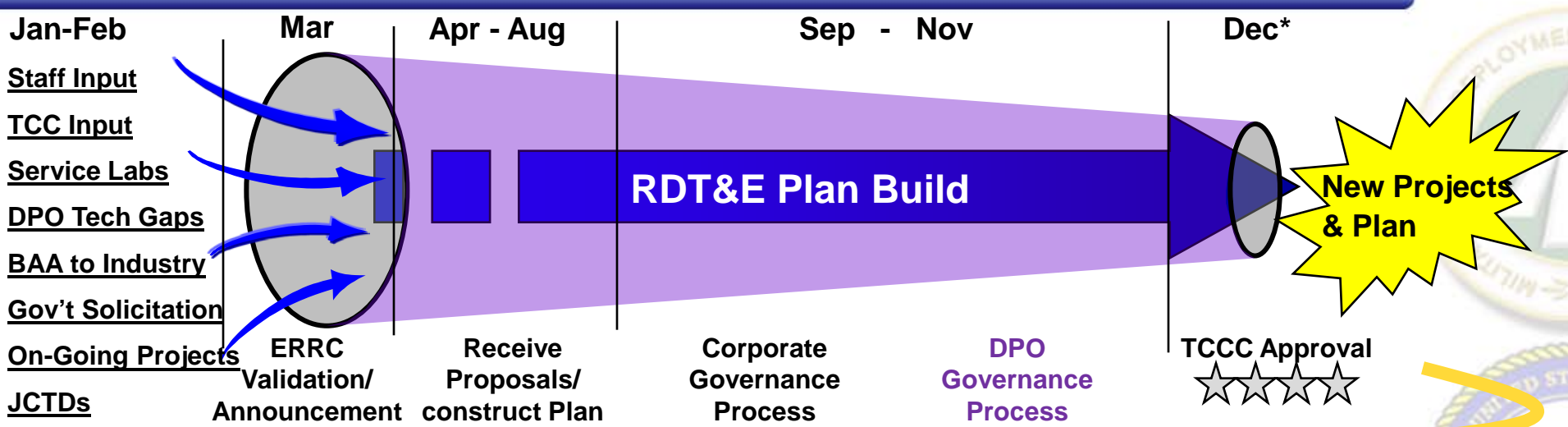
PE 0603713S	FY10	FY11	FY12	FY13	FY14	FY15
DOD/PB	\$29.3M	\$29.1M	\$29.0M	\$28.9M	\$29.4M	\$30.0M
PE 0603264S	FY10	FY11	FY12	FY13	FY14	FY15
DOD/PB	-	\$0.75M	\$1M	\$1M	\$1M	\$1M

- USTRANSCOM leverages technology to gain efficiencies and reduce the costs
 - Develop joint technologies to improve warfighter support
 - Improve precision/reliability/visibility/efficiency of the DOD supply chain
 - Assure superior strategic/operational/tactical mobility support for the warfighter

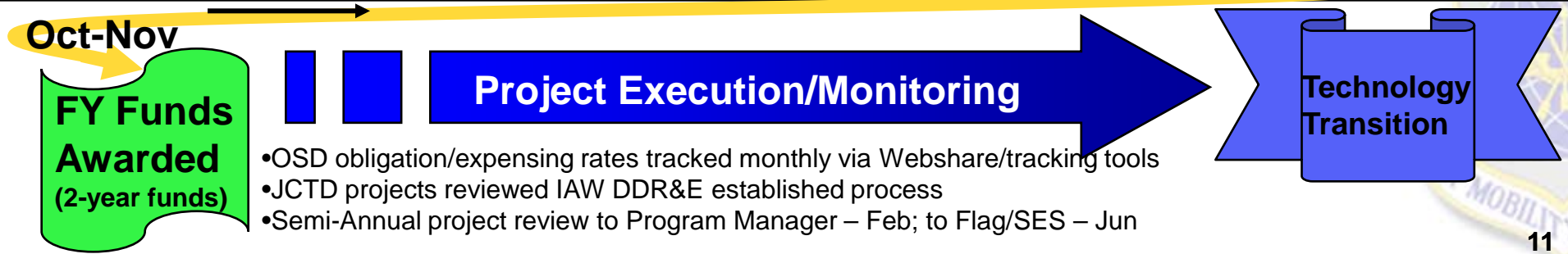
Identified by OSD(AT&L) as “model program” and #1 in DoD for transitioning new capabilities to the warfighter



RDT&E Process



*OSD RDT&E budget exhibit submissions drives timeline

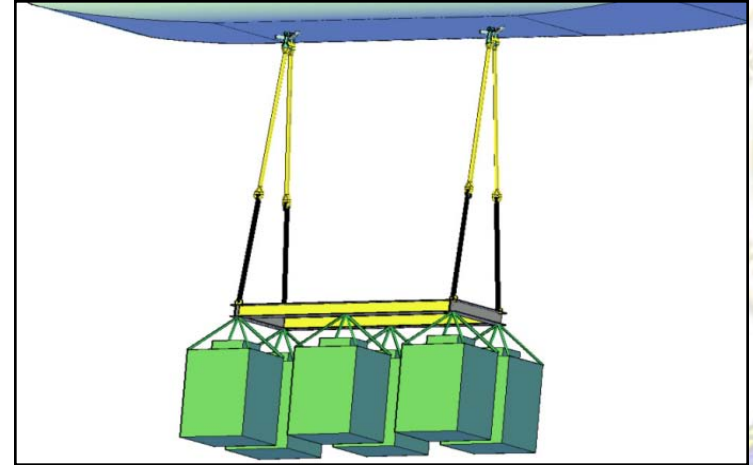




Point of Need



Unmanned Air Vehicles



Air Drop



Improved Precision Airdrop



Hybrid Lift

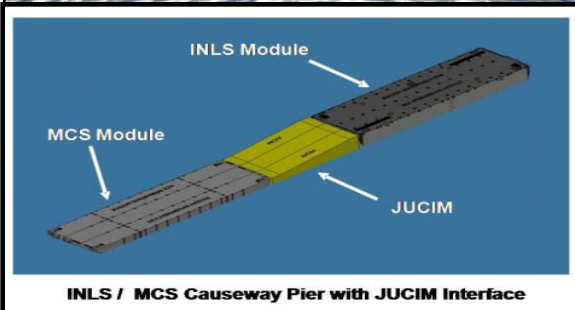
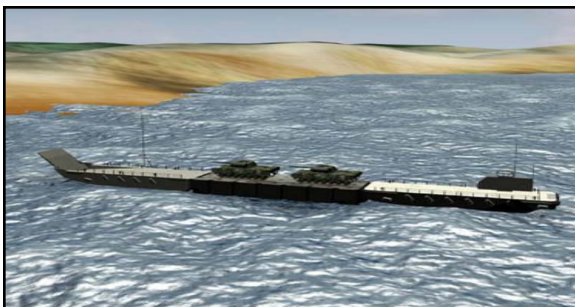




Robust Support from Joint Seabase



Skin to Skin Mooring



Surface Connectors



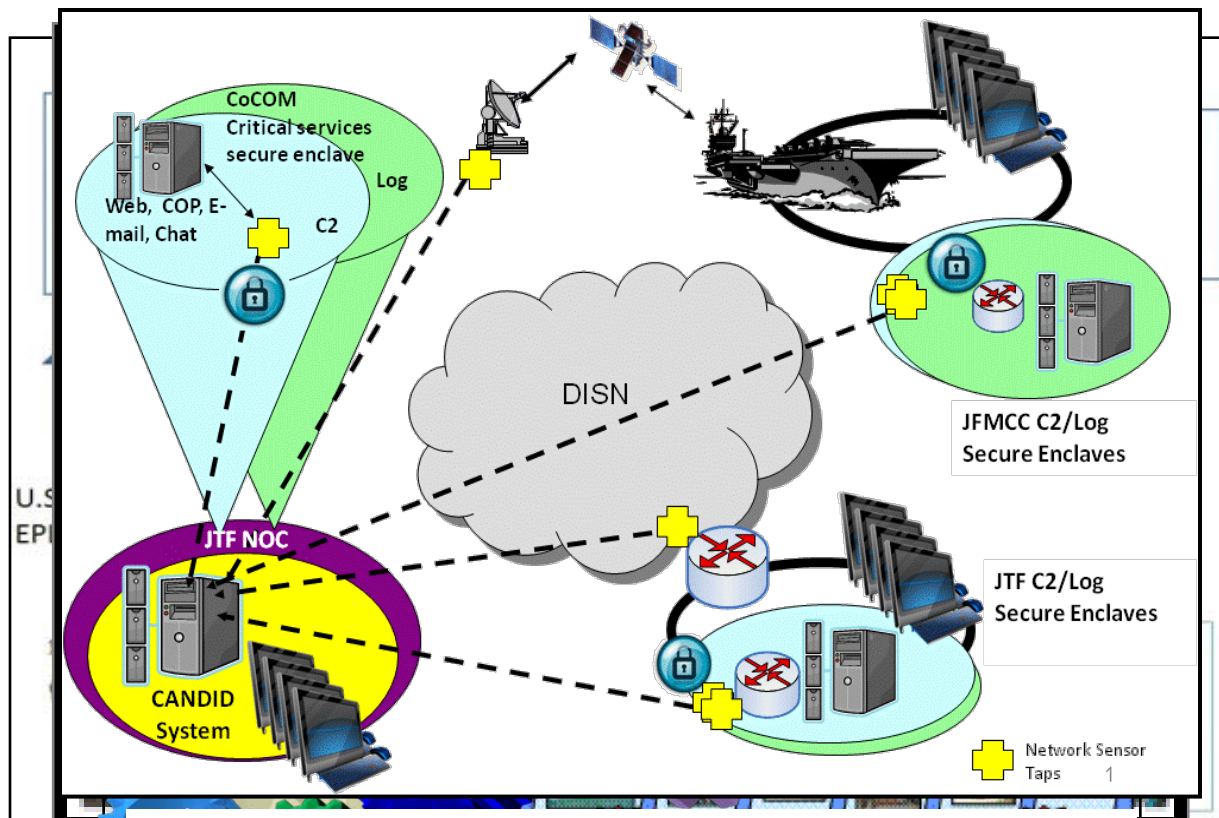
Container Movement



Air Connectors



C2/Decision Support



Cyber Security

Load Planning

Decision Making Tools

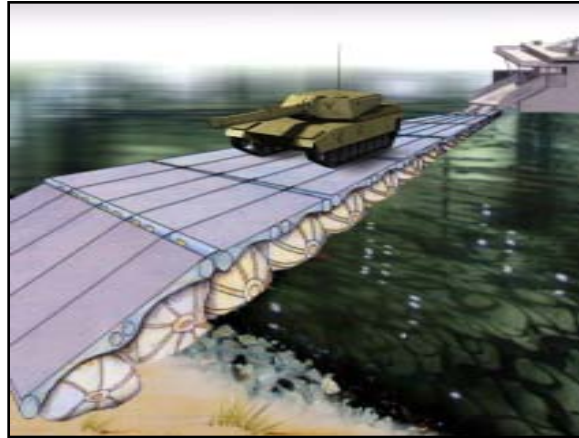




Global Reach



**Defensive Systems for
Mobility Lift Assets**



**Over-the-Shore
Connectors**



WMD Protection



**Austere/Unimproved
Access**



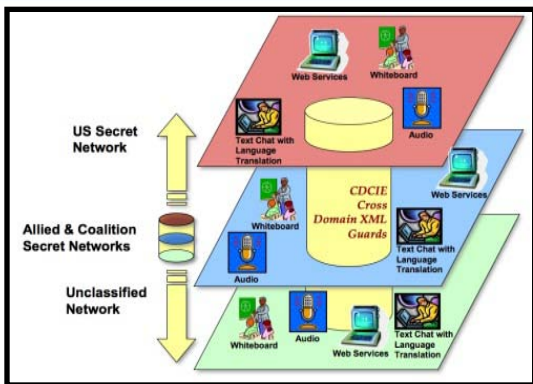
**Reduce Fossil Fuel
Dependency**



All Weather Capability



Enhanced Logistical Support



Cross Domain Collaborative Info Exchange



Next Generation Autonomic Logistics



Joint Modular Intermodal Container



Shipboard Selective Access and Retrieval System



En Route Patient Care Module



Joint Recovery and Distribution System



USTRANSCOM RDT&E Portal: www.ustranscom.mil

The screenshot shows the USTRANSCOM RDT&E Portal homepage. At the top left is the USTRANSCOM logo. To its right is the text 'RDT&E Research Development Test & Evaluation'. Further right are navigation links: 'Home | Privacy | FAQ | Our History | Contact Us'. Below the navigation is a search bar with a 'Go' button. The main heading is 'Transforming Defense Distribution'. Below this heading are five circular icons with corresponding text: 'Ongoing Projects', 'References', 'Transitioned/Completed Projects/Capabilities', 'FY12 Project Solicitation (government only)', 'Related Links', and 'Program Training'. In the center, a paragraph describes the program's focus on innovative joint technologies for DPO and DTS capability gaps. At the bottom, there are five small images: a parachute, a model of a ship, a tunnel, a truck on a ship's deck, and two people looking at a map.

RDT&E
Research Development Test & Evaluation

Home | Privacy | FAQ | Our History | Contact Us

Search

Transforming Defense Distribution

- Ongoing Projects
- References
- Transitioned/Completed Projects/Capabilities
- FY12 Project Solicitation (government only)
- Related Links
- Program Training

The USTRANSCOM Research Development Test & Evaluation program explores innovative joint technologies that address Distribution Process Owner (DPO) and Defense Transportation System (DTS) capability gaps.



Bottom Line - Support the Warfighter!



*Get the Shooter
To the Fight*



*Sustain the Warfighter During
the Fight*



*Support Rapid Force Maneuver and
Patient Movement*



*Bring the Warfighter
Home*