#### **Briefing to:** The Modeling and Simulation Community

### **TRANSPORTATION M&S FOR THE DTS PROVIDING END-TO-END FORCE PROJECTION ANALYSIS**

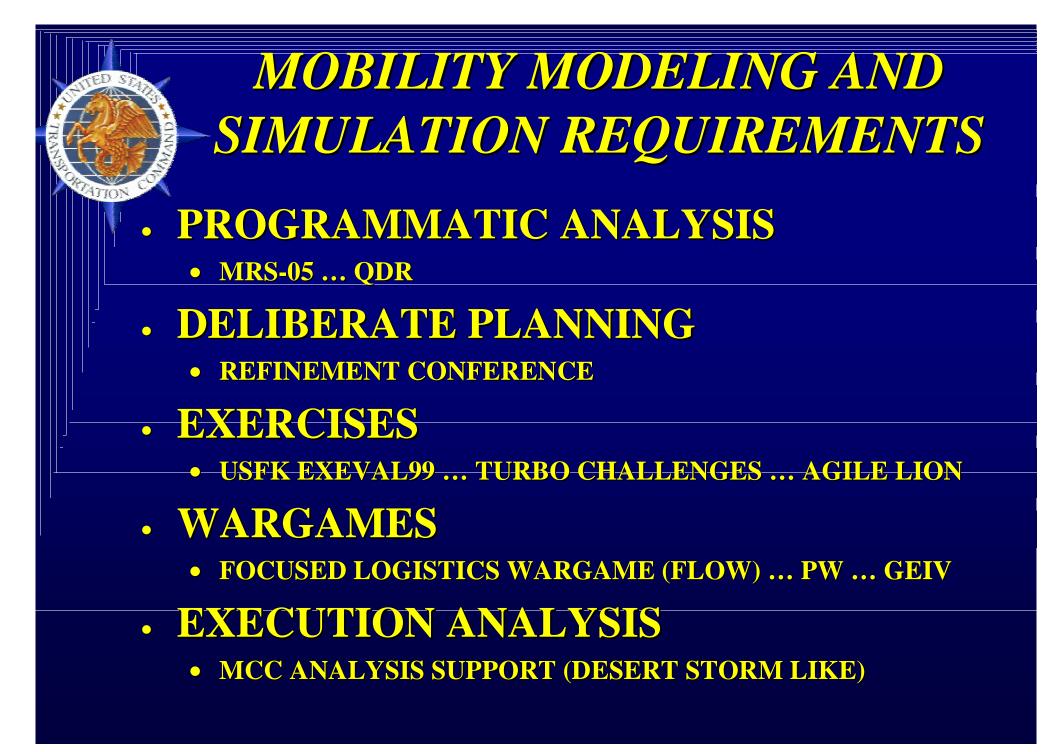
R. KEITH SEAMAN STRANSCOM-TCJ5 3-JUNE 1999

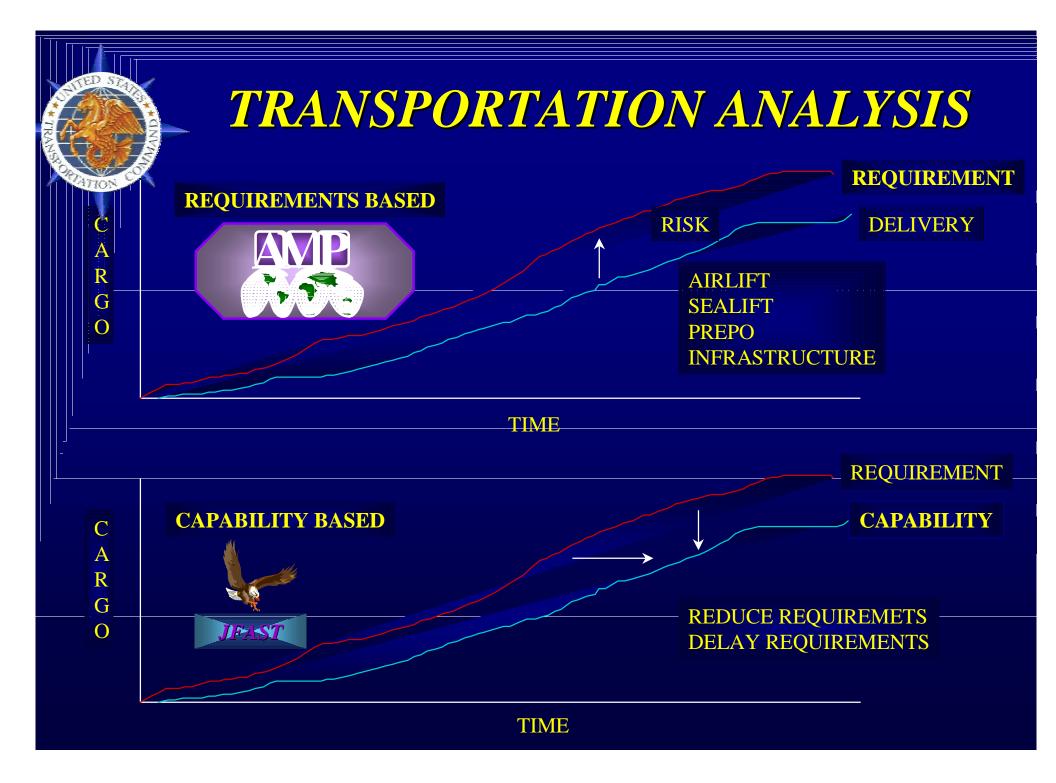
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MOBILITY MODELING AND
<b>SIMULATION OVERVIEW</b>
M&S ANALYSIS
MOBILITY REQUIREMENTS STUDY 2005
M&S DEVELOPMENT
END-TO-END FORCE PROJECTION MODELING
• M&S MANAGEMENT FOR THE DTS
USTRANSCOM M&S MASTER PLAN
M&S FUTURE INITIATIVES
ACTD'S ALP JSIMS JWARS TPFDD-IN-AN-HOUR



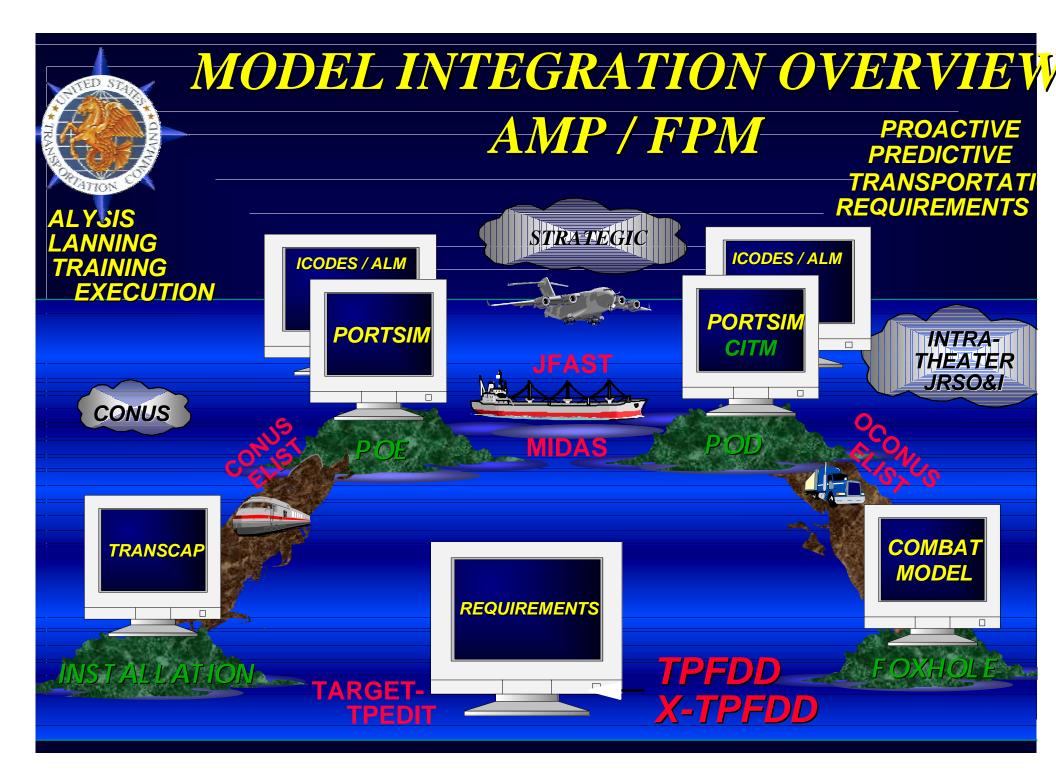


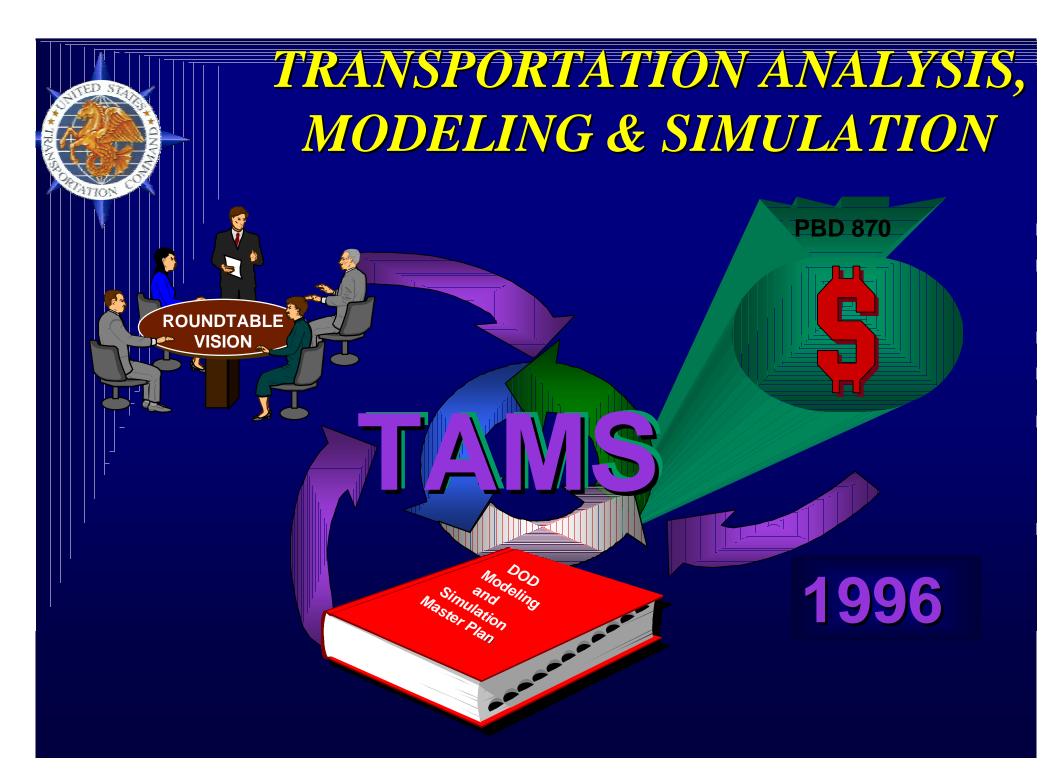


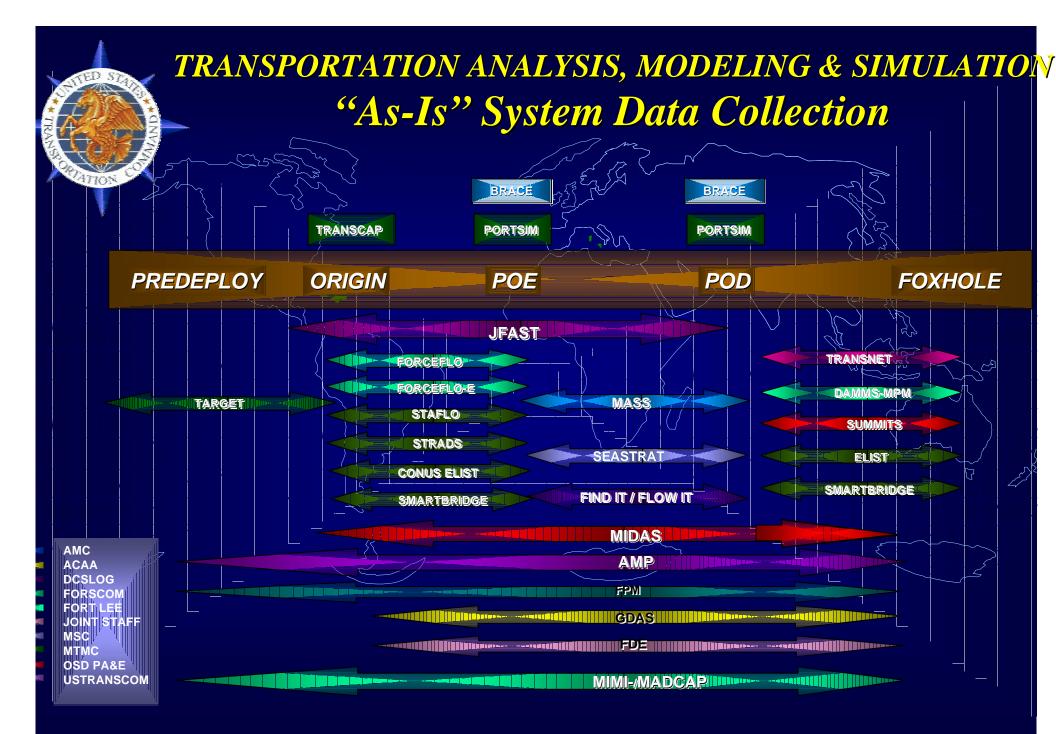


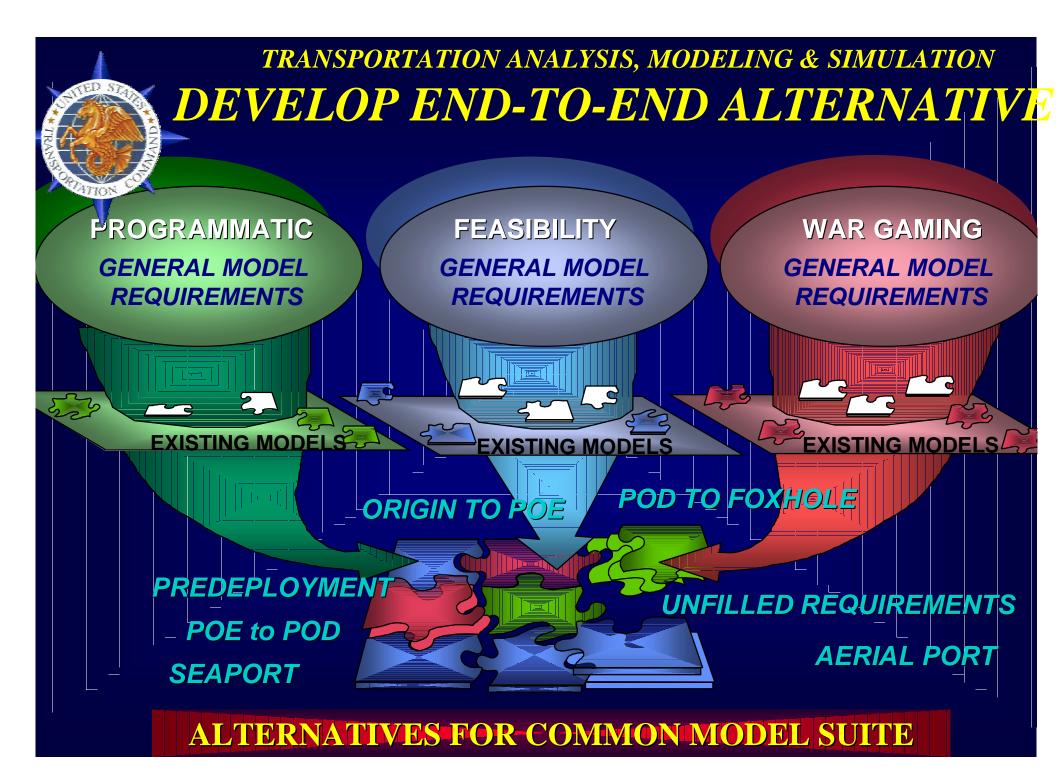


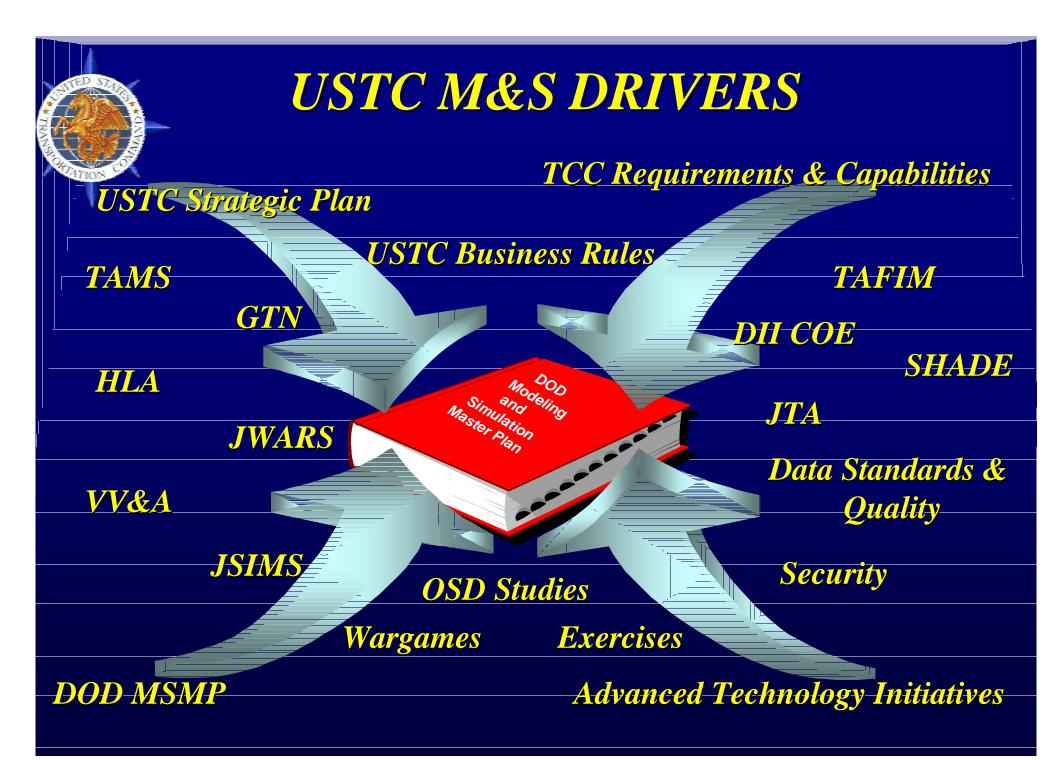
*1991 ... DOD LACKS TOOLS FOR "END-TO-END" MOBILITY MODELING 1994 ...PART OF GTN FUTURE OPERATIONS CAPABILITY* 

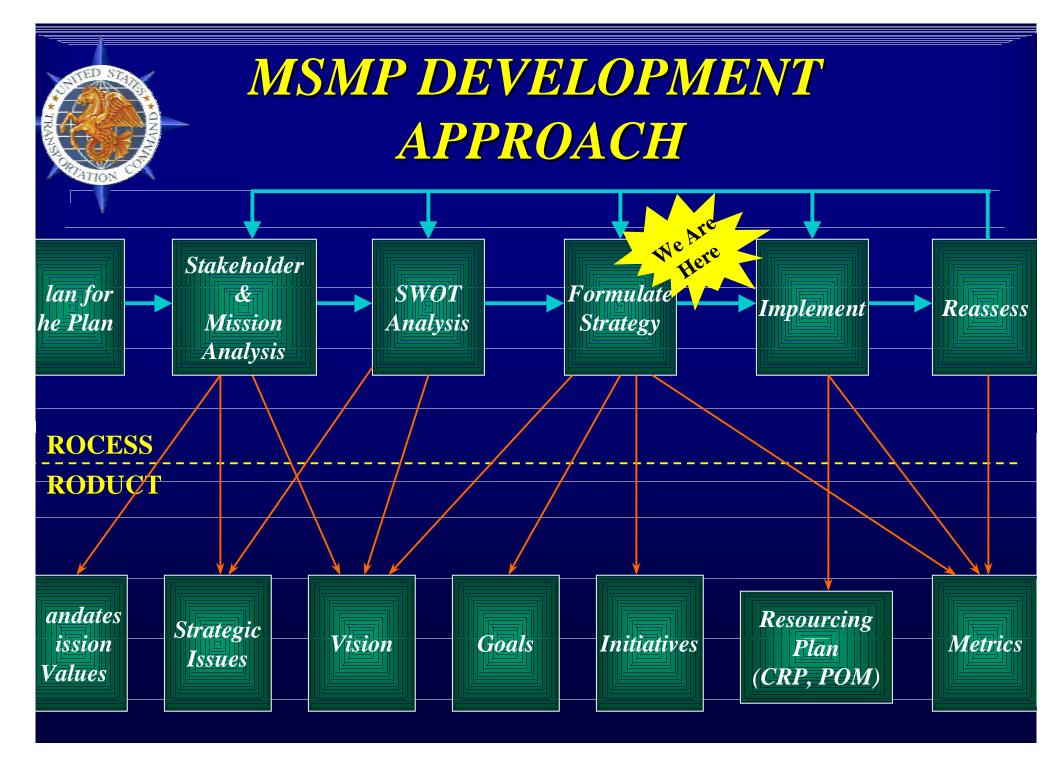


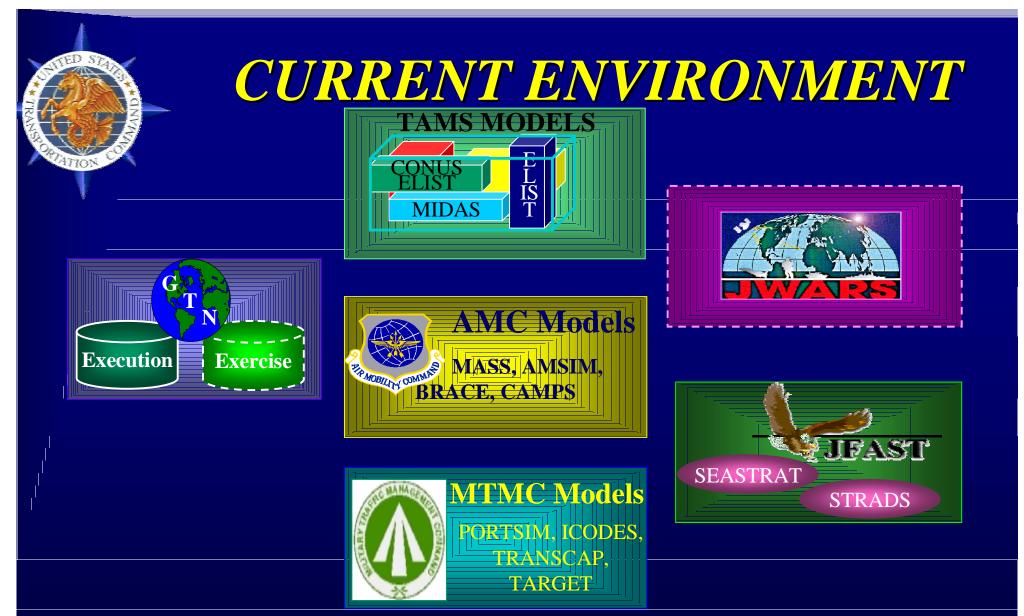




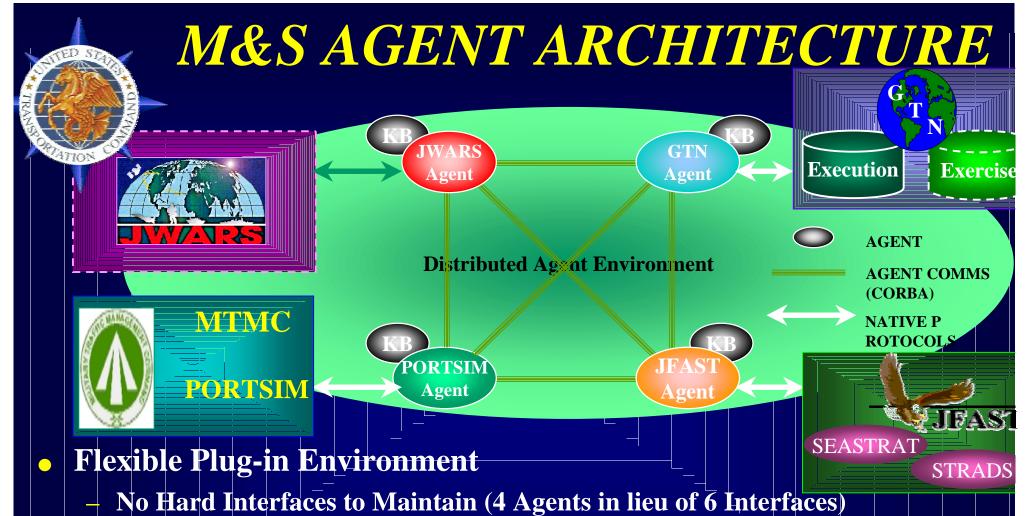






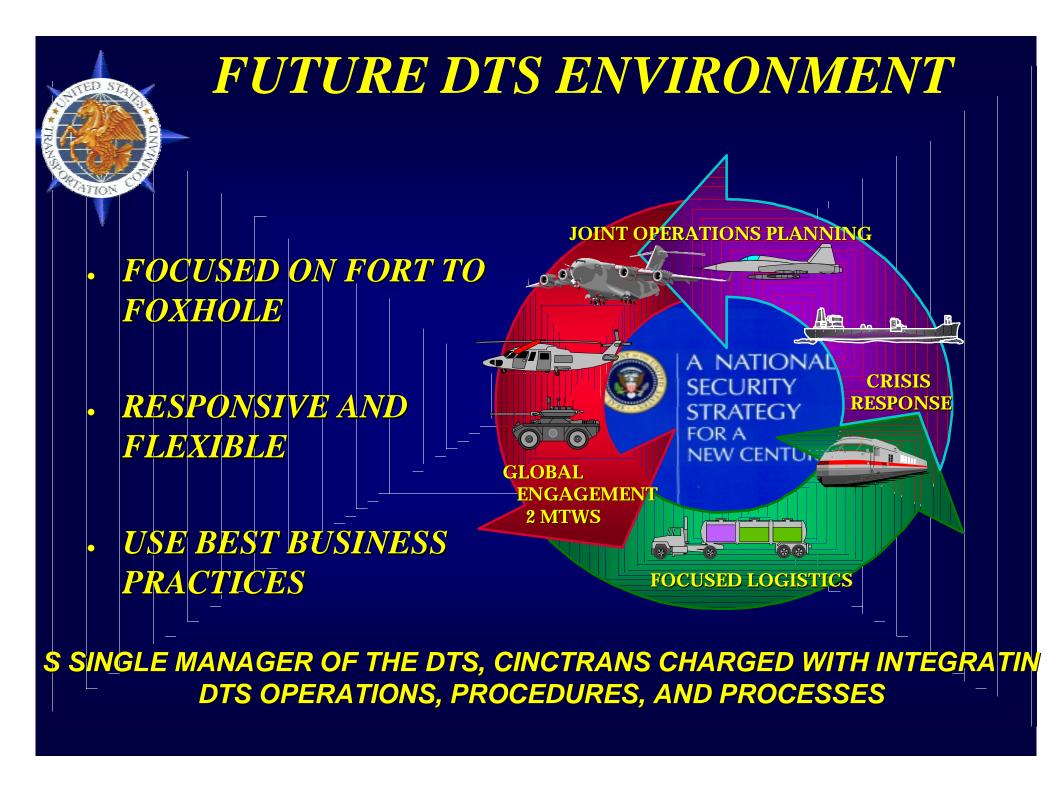


Single, Focused M&S Vision for the DTS: single M&S environment of interoperable, collaborative models and execution systems capable of providing accurate and consistent answers at the required breadth and depth of the DTS domain."

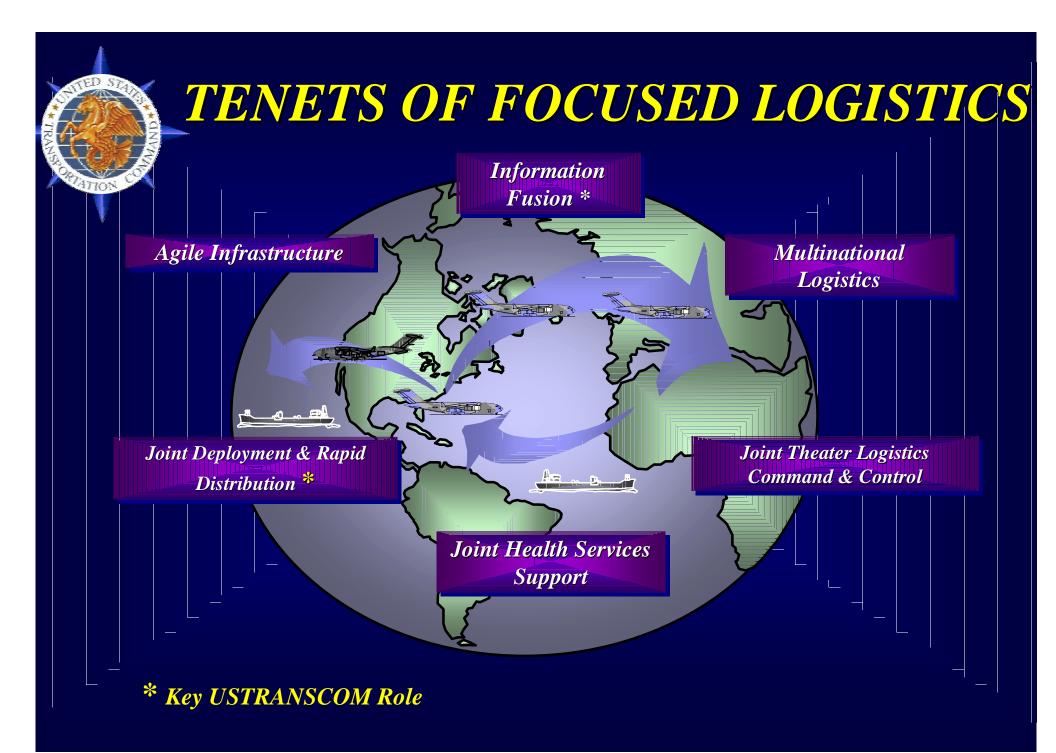


- Knowledge Base (KB) provides Rules to Translate b/w Global Agent Model and Domain Models
- Agent Behaviors
  - Intelligent Data Retrieval, Mediation, Aggregation
  - Remote Invocation of Models (Setup, Run, Return Results)





### **JOINT VISION 2010 Dominant Maneuver** Massed nformation Superiority **Precision Engagement** Technological Innovations **Coalition Partners** Joint Forces **Focused Logistics Full-Dimensional Protection** Effects Advanced Logistics Project > Push the limits of technology Cause a fundamental change in the way we do business



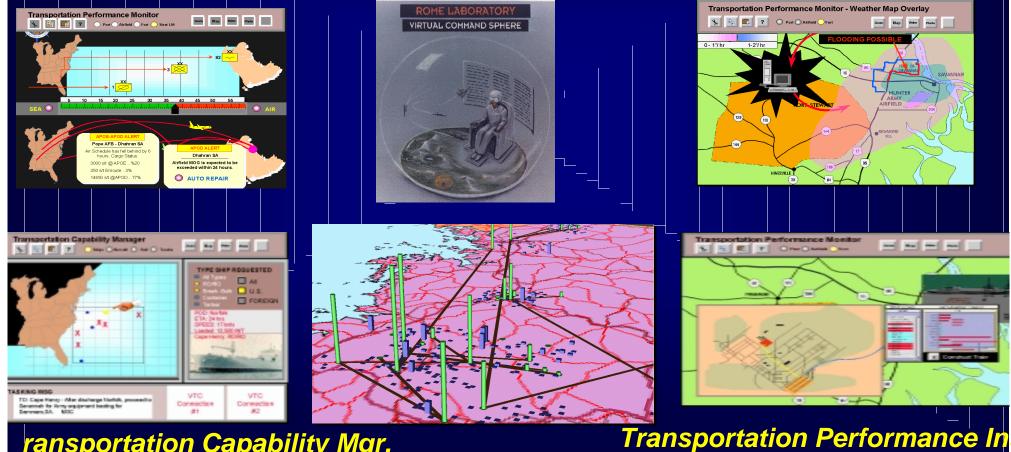


### **AT2000 VISION:** TRANSPORTATION COP (TCOP)

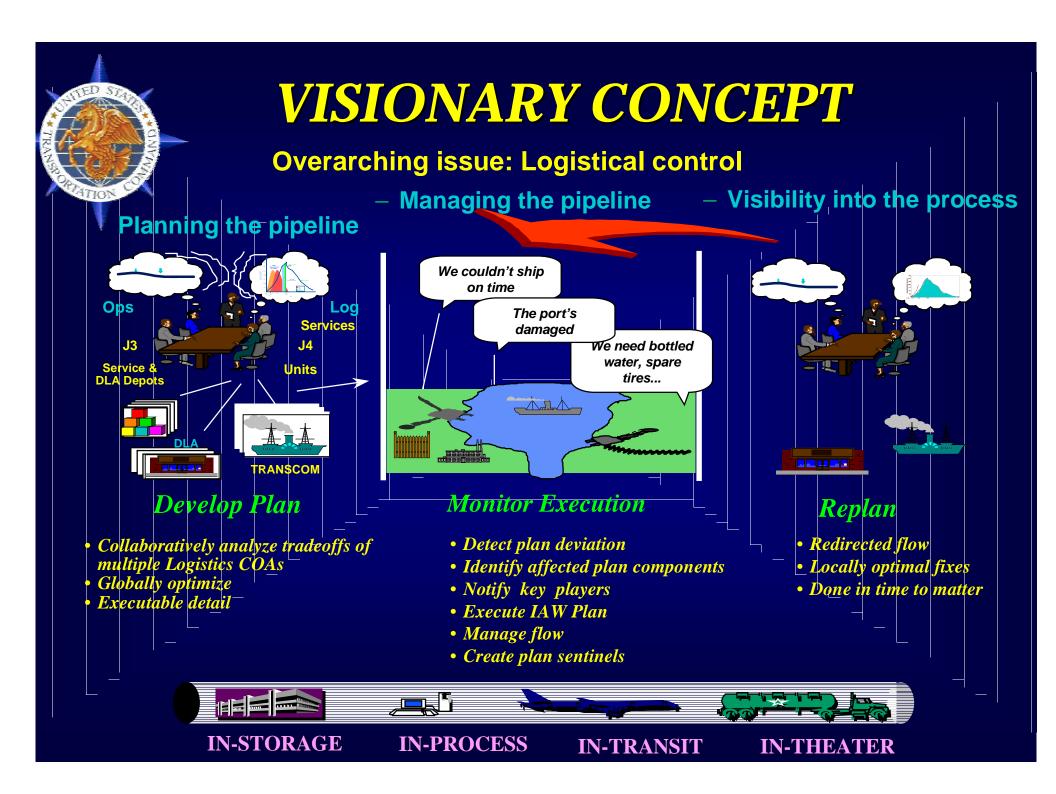
#### eployment Performance Monitor

TION

#### Weather Overlay at Installation



ransportation Capability Mgr.



### Joint Logistics Advanced Concept Technology Demonstration (JL-ACTD)



TIM

- Develop Joint Logistics Decision Support Tools
  - +Common User Query
  - -Access to all Data Sources
  - -Transparent Applications and Services

GCSS

Data

Commercial Data Sources GTN, JTAV.

JPAV, ...

- -Any User/Any Box
- Implement a Flexible Experimental Environment for Assessing Technology Impact on Logistics Operational Capability
- Work Trade-Offs, Users Derive Requirements

FY 96 - 97 Logistics Anchor Desk (LAD) Phase Phase II

**DISN Backbone** 

Joint Decision Support Tools AF, Army, Navy, DLA, Marines, TRANSCOM.

CINCs

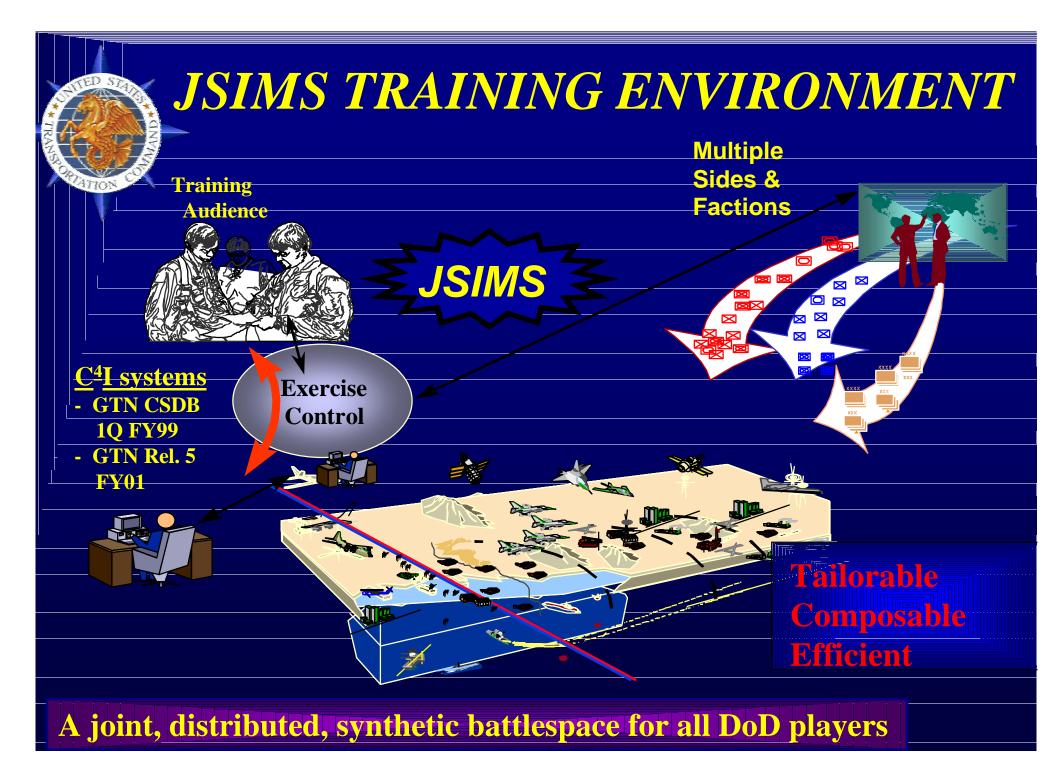
Visualization, Query, Execution Monitor, Plan.

Users

(ATM SIPRnet and NIPRnet)

FY 00 - 02 Real-Time Focused Logistics Phase III







## **TPFDD IN AN HOUR**

### AN ENABLER FOR A



 More Responsive Joint
Deployment Process



- TREND ANALYSIS...PREDICTIVE ANALYSIS...TPFDD HR
- VISIBILITY OF ASSETS AND REQUIREMENTS
- COLLABORATIVE PLAN & EXECUTE
- INFLUENCE DECISIONS & REDUCE UNCERTAINTY



# DTS 2010 . . . on the way

