

Force Projection Symposium V

*Norfolk Marriott Waterside
Norfolk, VA*

18 May 2004

BG Brian Geehan

**Chief of Transportation
Commandant, U.S. Army Transportation School
Fort Eustis, VA**



Operational Environment

From this...

- Linear lines of operations
- Uncertainty overcome by mass/reserve
- Concentrated combat power
- Large, supply-based logistics system
- Inventory-based information systems
- Centrally controlled transportation
- Sequential operations/logistics



To this...

- Extended multiple battlespaces
- Dispersed combat power – simultaneous employment
- Reduced stocks and footprint
- Transportation and information integrated into process and systems
- Leverage delivery systems at operational and tactical level



Simultaneously integrating deployment, employment, and sustainment in distributed operations

Deployment Operations... Then and Now

Gulf War

★ Delivered Equipment

- 20 CONUS Seaports Used
- 6 Months to Move 33M Sq Ft Cargo
- 53 Break-bulk Vessels
- Limited Visibility—40% Containers arriving theater had to be opened

Delivery Methods

- WWII-era deployment infrastructure at Army installations
- Rail capacity at installations limited (loading ramps, staging)
- Sealift capacity limited (FSS, RoRo)
- Airlift aging & strained (C5s/ C141s)

Paradigm Shift

Global War on Terrorism (GWOT)

★ Delivered Capability

- 9 CONUS Seaports Used
- 2 Months to Move 15M Sq Ft Cargo
- Zero Break-bulk Vessels
- 100% Visibility (ITV) for Containers prior to Lift

Delivery Capability

- \$800M Strategic Mobility Program dollars spent on deployment infrastructure improvements
- Rail capacity tripled at FT Hood, quadrupled at Campbell & others
- 19 Large Medium-Speed RoRos built
- C17 Acquisition

Shipped over 380,000 Tons in 1/3rd less time than Gulf War

National Deployment Assets

Sealift

	<u>Gulf War</u>	<u>GWOT</u>
Surge LMSRs	0	11
APS LMSR	0	8
Fast Sealift Ships	8	8
Ready Reserve Force (RO/RO)	32	32
TSV	0	2



Airlift

	<u>Gulf War</u>	<u>GWOT</u>
C17	0	113
C141	241	160
C5	126	126
C130	514	514



1992 – Present
\$44B
 (More \$'s in AP3)

Army Prepositioned Stocks

Gulf War

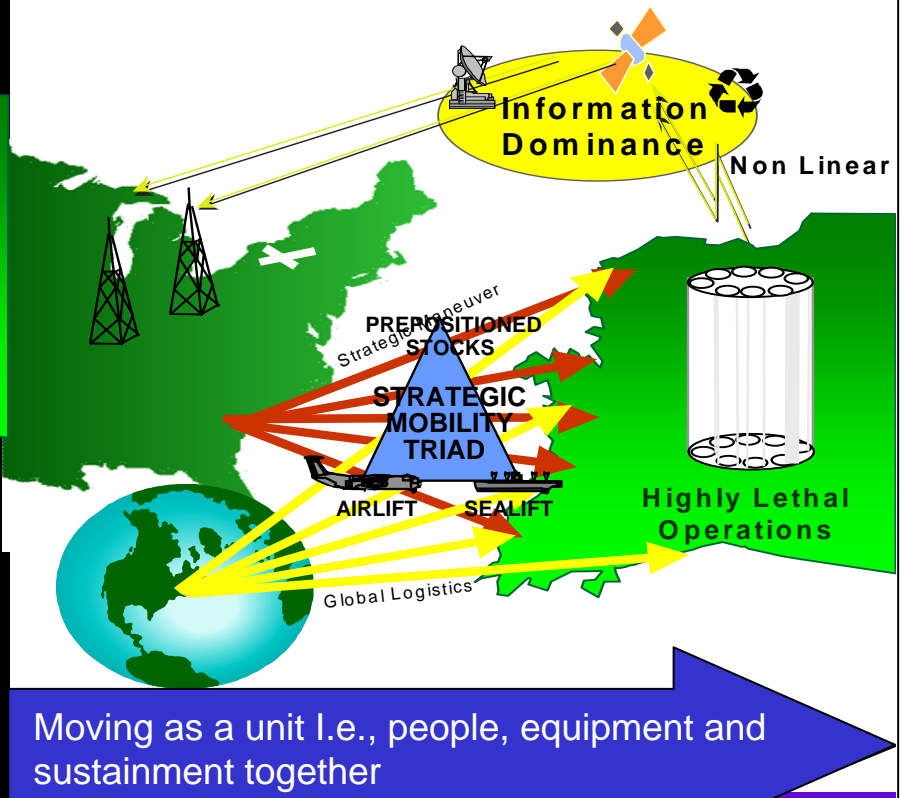
APS Afloat (no combat forces)
 APS Korea
 APS Europe

GWOT

APS Afloat (2x2 Brigade)
 APS Korea (2x2 Brigade)
 APS Kuwait (2x2 Brigade)
 APS Qatar (2x2 Brigade)

Force Projection Today

Force Projection 2020



Deployment – Employment – Sustainment (DES)

- Incremental build of combat power
- Fixed POD dependent; risky
- Efficiency focused
- Operational maneuver from strategic distance
- Multiple entry points
- Effectiveness focused

Future Lift

Must possess these vital qualities:

- Bypass predictable choke points
- Deliver intact combat power
- Support uninterrupted deployment momentum to multiple entry points
- Provide for assured access, and decrease dwell time

Theater Support Vessel



Shallow Draft High Speed Ship



Heavy Lift VTOL



Super Short TOL



Seabasing



Ultra-Large Airship



Joint Operational Pay-offs

- More rapid introduction of forces
Increased capability to achieve assured access
- Immediate employment of deployed forces
- More rapid seizure of the initiative with preclusive effects
- Significantly higher versatility and adaptability
- More rapid transition to decisive operations
- More rapid achievement of conflict termination

Future Force Reception: *Theater Opening*

**We need
the capability
to....**

ATTRIBUTES

- Facilitate immediate operational employment
- Sustain Expeditionary force Flow
- Respond on short notice, integrates and executes critical sustainment tasks immediately
- NOT an Ad Hoc organization BUT trained to the task
- Modular Capacity to expand to meet theater growth

**Deployment
Employment
Sustainment**

**AC
Structure**

TASKS

- Provide operational sustainment C2 with strategic reach-back capability and complete network visibility through a standing, modular theater opening organization that is capable of serving as a joint headquarters
- Enable joint reception, staging, onward movement (RSO) operations including life support, force protection, and port operations
- Execute theater-level distribution-based sustainment operations

Theater Lift

POM 05-09
\$806M

5 TSVs



Theater Support Vessel

- Rapidly self-deploy to the JOA (soldiers, equipment, and sustainment together)
- Increase access
- Conduct rapid shore to shore intra-theater sea lift of combat ready unit sets to support operational maneuver
- Gain access through multiple points of entry through small, minor or degraded ports
- Conduct enroute mission planning and rehearsal
- Conduct follow-on sustainment and/or repositioning of units in forward areas

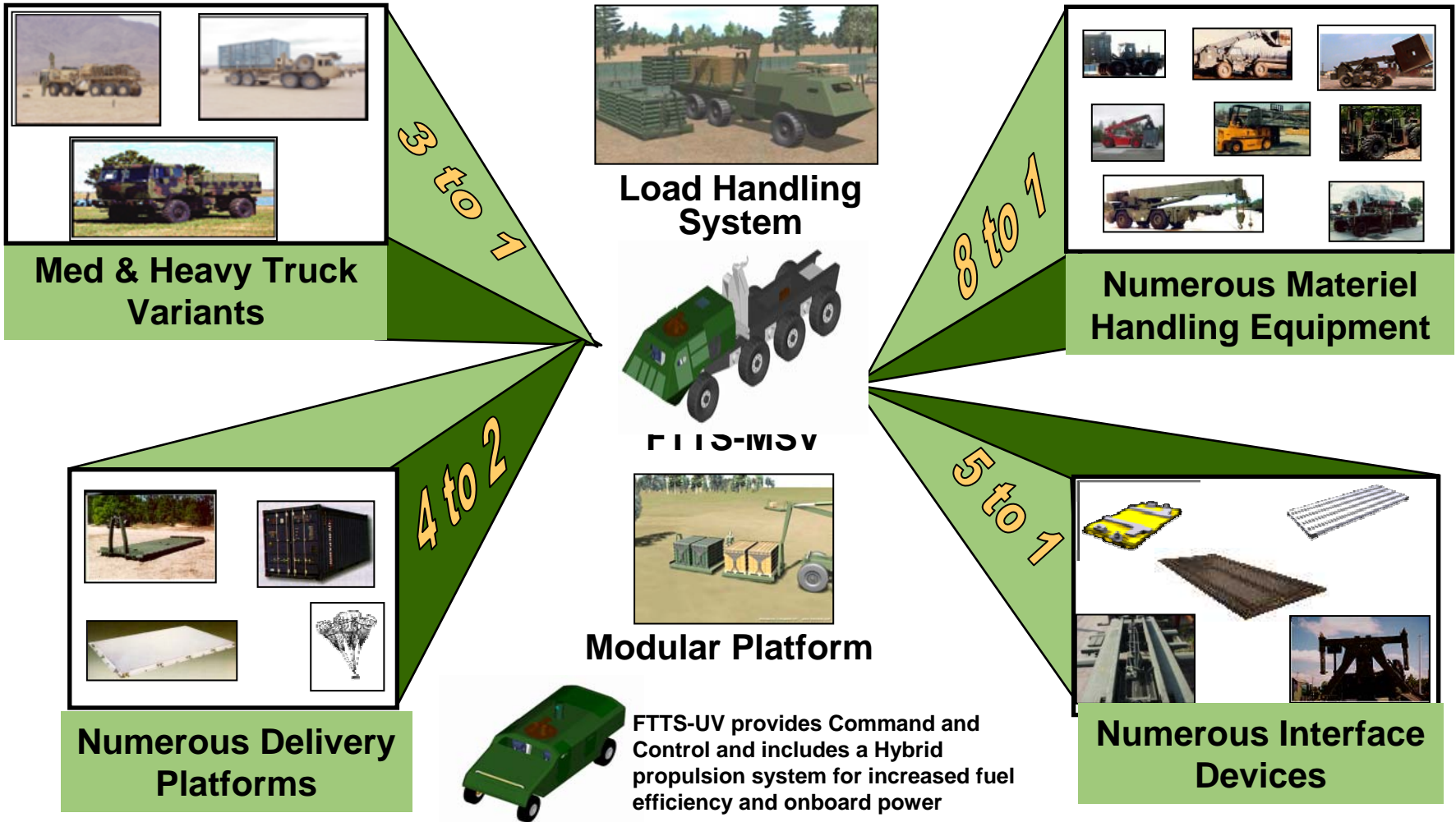
• **Objective: 12 TSVs BY 2012**

• **1st TSV FY07-08 (RDT&E) Vessel (TBD)**

- Length Overall: 397 ft, beam (PANAMAX Capable)
- Cargo Capacity: Up to 1050 STs & 25,000 SqFt
- Pax Capacity: 354 (2 SBCT Rifle Companies)
- Draft: 15 – 18 ft.
- Loaded Speed: 36 knots / Light ship Speed: 40+ knots (Max)
- Intra-theater Range: 2,500 nautical miles (loaded/un-refueled)
- Self-Deployment: 4700+ NM (un-refueled)

TSV is the only Army unique intra-theater lift platform that *meets* Army Transformation Vision Goals

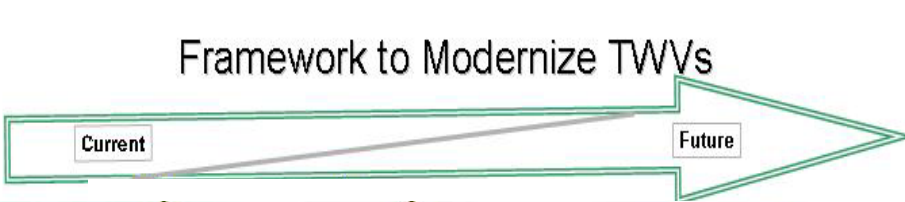
FTTS ACTD Objective



**A SEAMLESS Distribution SYSTEM built for the Future Force
(Applied to the SBCT to evolve the TTPs, CONOPS, and doctrine)**

Future Tactical Truck System (FTTS)

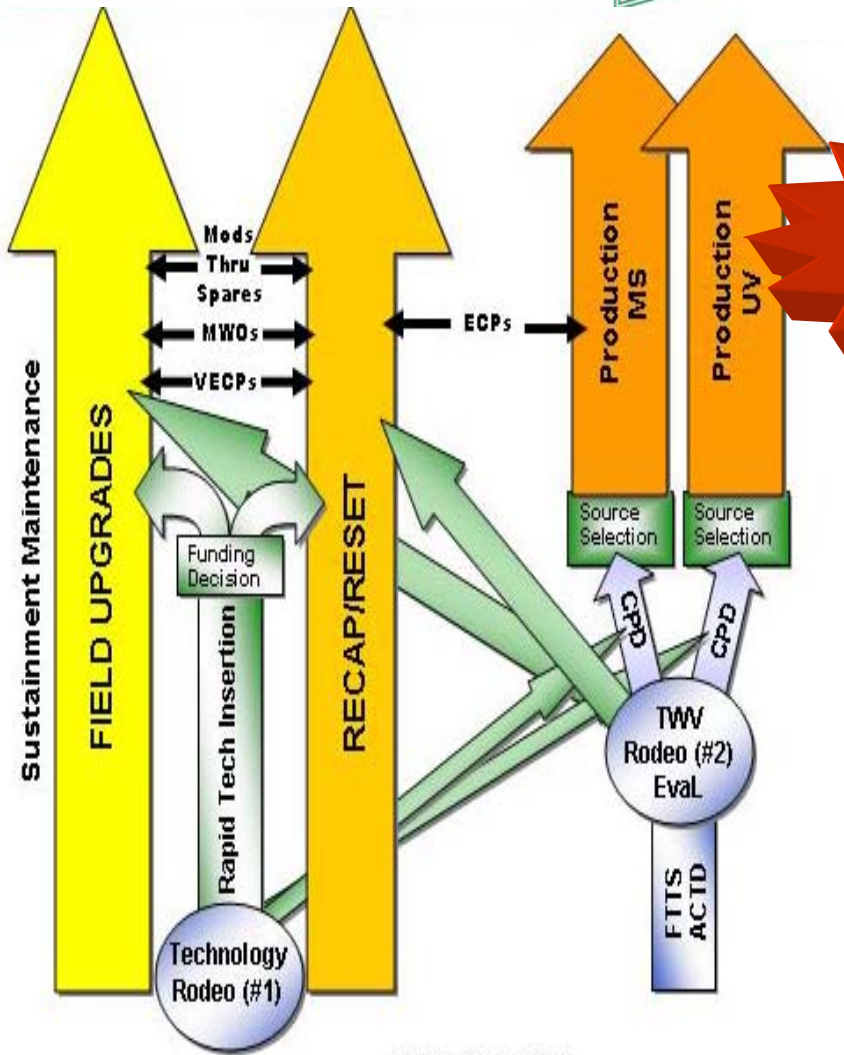
Framework to Modernize TWVs



Goals:
 Increase
 Agility,
 Survivability,
 Responsiveness,
 Versatility,
 Sustainability,
 Deployability



**\$49.9M
 ACTD
 Approved**



- Embedded C4ISR
- Reduced fuel consumption (HE)
- Ultra reliability – 2 level maintenance
- C-130 deployable w/partial load
- Intermodal flatrack – configured packaging
- Increased crew protection

- 2 Maneuver Sustainment Vehicles (MSV)
- 2 Utility Vehicles (UV)
- ACTD FY04 – FY07
- Technical Manager – National Automotive Center (NAC)
- COCOM Sponsor - PACOM

Movement Tracking System (MTS)

Map Engine:

- Full color maps (NIMA and CADRG)
- Active map layers
- Supports computer generated vehicle icons with time/date

Two-way messaging:

- Multi-Satellite Capable
- Supports automated polling
- 400 days unlimited usage
- Built-in, Selectable Level of Encryption

POM
\$141M



- **Objective Quantity = 37,718**
- **Funded Quantity = 13,965**
- **Costs – Corps/\$5M; Div/\$5M**
- **Integrated into wide spectrum of CSS platforms**

TC-AIMS II

Transportation Coordinator - Automated Information for Movements System II



**The single
Joint deployment information
system supporting all
Service, unit, and installation
deployment requirements**

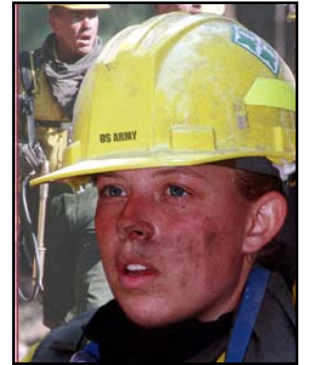
- Block I Fielding underway
- TC-AIMS II redeploys forces
- 25th ID took TC-AIMS II to Afghanistan
- Block II Web Enabled - Transition Aug-Sep 04
- Block III Theater Requirements - Development to begin this month, with 2005 fielding
- Block IV Maritime Prepo Force and Theater Operations - fielding for 2007
- Block V Installation Transportation - fielding for 2008



**POM
\$400M**



VALUES...



EXCELLENCE...

THE ONE ENDURING CONSTANT...

TC PEOPLE



SPIRIT...

WARRIOR ETHOS...

THE HALLMARK OF OUR CORPS AND TOUCHSTONE FOR OUR FUTURE



QUESTIONS?