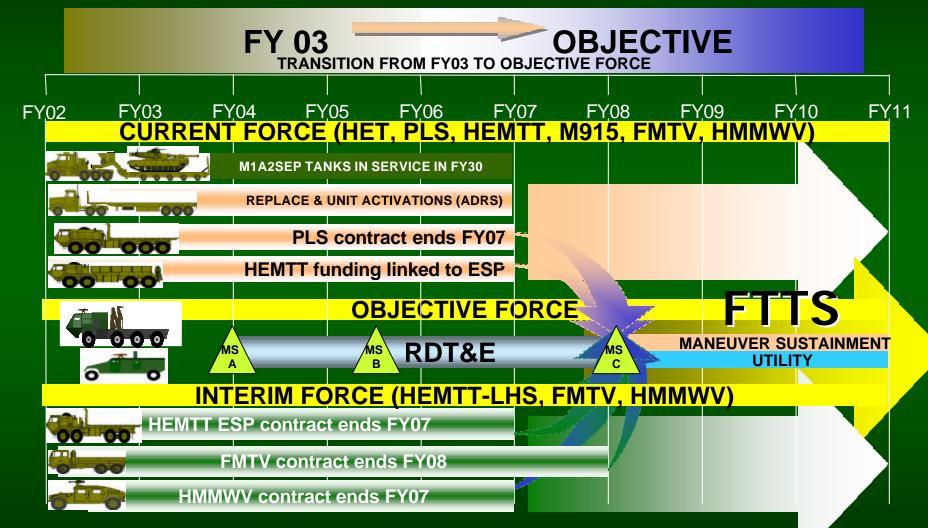
Tactical Truck System (FTTS) FY04 ACTD Candidate







TACTICAL WHEELED VEHICLE VISION FY04 ACTD Candidate



GOAL: REDUCE LIGHT, MEDIUM & HEAVY FLEET TO TWO





ACTD Objective









Load Handling System



Numerous Material Handling Equipment



Numerous Delivery Platforms

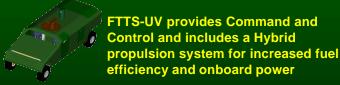


FTTS-MSV

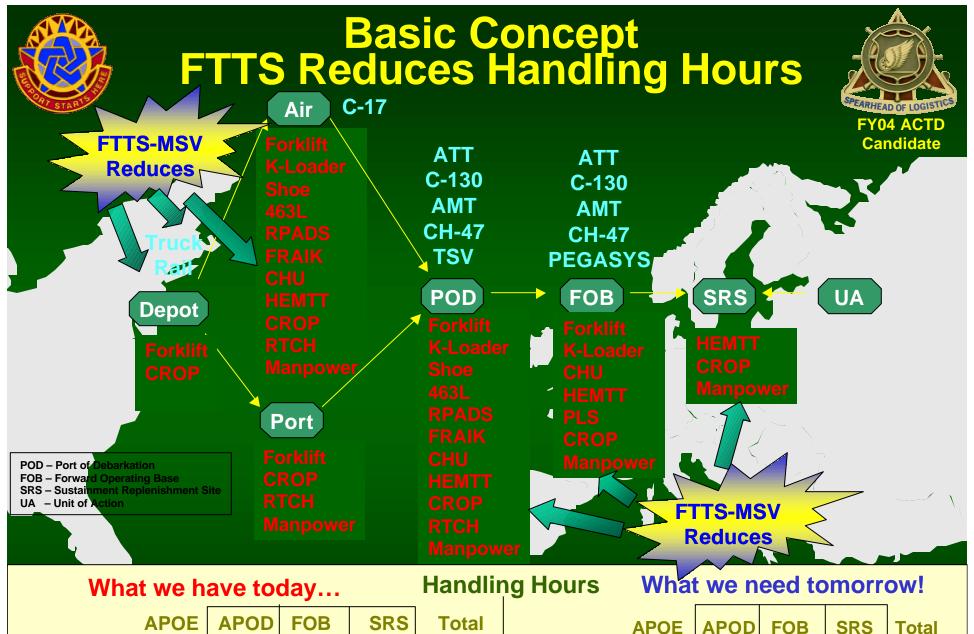
Modular Platform



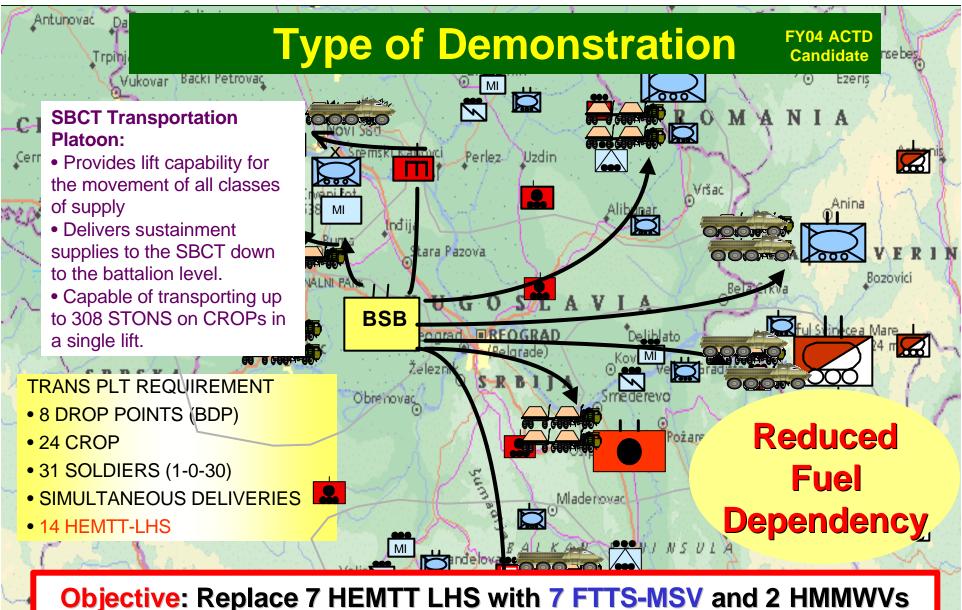
Numerous Interface Devices



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



Time 20.2 7.7 38.5 3.9 6.7 **Time** 8.1 6.3 1.1 2.4 17.9 **Equipment** 48.2 22.7 40.1 200.0 311.0 **Equipment** 22.7 11.0 15.2 48.0 96.8 Personnel 90.5 51.3 333.0 40.1 515.3 53.0 35.0 15.2 Personnel 48.0 151.2₁



Objective: Replace 7 HEMTT LHS with 7 FTTS-MSV and 2 HMMWVs with 2 FTTS-UV in a surrogate SBCT Trans Squad to prove a seamless distribution system that has a reduced logistics footprint and reduced fuel dependency that will support the Objective Force

FCS Technology Base Programs Leveraged for FTTS



TACOM-ARDEC



Vehicle Alignment System
Intermodal Flatrack
Intelligent Load Handling System
Smart Tie Down
Pre-Configured Packaging
Robotic Traile
(NLGC) 2000-04-Autonomous Follower ATD)

60% Reduction in Resupply Time



100% in Situational Awareness

TACOM-TARDEC



25% or greater Mobility



18% more survivable



(IV.GC.2000.02 Ballistic Protection for FCS/ IV.gc.2001.01 Signature Mgt for FCS/ III.GC.1999.01 Full Spectrum Active Protection)

Advanced Crew Station
Integrated C4ISR
Enhanced Situational Awareness
(III.GC.1999.02 Crew integration and Automation Test Bed)

Embedded Diagnostics/Prognostics Embedded Training and Simulation Automated Maintenance

Active Suspension

Advanced Propulsion
(IV.GC.1999.01 Combat Hybrid Power Systems/ III.GC.1996.01 Ground Propulsion and Mobility)

Zero unscheduled

100 % increase in

Modular Armor
Objective Crew Served Weapon
Transparent Armor
NBC Overpressure
Mine Blast protection

On-board Power Generation
On-board Water Generation





Threshold Capabilities



Sustainability

- Reliability MTBF > duration of Pulsed Operations
- Maintainability Self-reporting, no special tools, No TMDE, and No Spares

Agility

- · Higher Mobility Rated Speed: 50% increase
- Must be able to go where

FCS goes and bypass built up Areas to deliver support

Lethality

Versatility

- Advanced Load Handling
- Interchangeable/Intermodal Operation
- On Board Power & water Generation
- Deliver integrated, common, formed Packaging

Deployability

- C130 Roll on/Roll off w/load
- Ready to support off the ramp
 Without vehicle preparation or
 Transportability waivers

Survivability

- Designed upfront to provide time definite and assured delivery
- Reduced Emissions and Signature

Responsiveness

- Greater Fuel Efficiency 100 200%
- Dynamic Movement Tracking and Re-routing
- Greater Range 600 900 miles
- Integrated C4ISR

ORD Starting Point



Transition Schedule





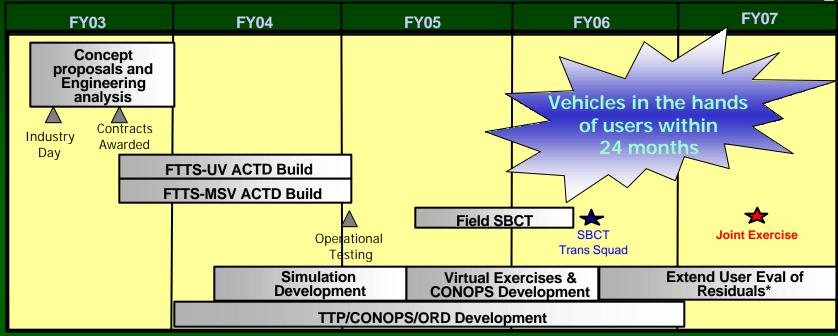
FTTS Procurement Funds Begin in FY08





Schedule





MSV (7 Vehicles)

Residuals

UV (2+ Vehicles)

- INTEGRATE TECHNOLOGIES
 - ACTIVE/REACTIVE SUSPENSION
 - ALL WHEEL STEER
 - HYBRID (ON-BOARD POWER)
 - POWER/ENERGY MANAGEMENT & DISTRIBUTION
 - ADVANCED LOAD HANDLING
 - EMBEDDED DIAGNOSTICS
 - C4ISR
 - ARMOR (7.62 & MINE PROTECTION)

- INTEGRATE TECHNOLOGIES
 - ACTIVE / REACTIVE SUSPENSION
 - ALL WHEEL STEER
 - POWER/ENERGY MANAGEMENT & DISTRIBUTION
 - HYBRID (ON-BOARD POWER)
 - EMBEDDED DIAGNOSTICS
 - C4ISR
 - ARMOR (7.62 & MINE PROTECTION)





Proposed Future Tactical Truck System (FTTS) ACTD Players FY04 ACTD









USAF

FTTS-MSV FTTS-UV



COCOM Sponsor (PACOM)

ARMY USMC

Lead Service



Integrator

Deputy Operations

Manager





LOGISTICS &D ACTIVITY





TACOM - TARDEC
TACOM - ARDEC
Technical Managers





Warfighter Payoffs



- Reduced logistics footprint
- Reduced dependency on fuel
- Provide a "near term" operational solution.
- Examine FTTS technology in context of the emerging operational Concept.
 - Bring a new dimension of multi-mission utility to Army TWV.
 - Provide Operational Reach, Tactical Flexibility, and Sustainment.
 - Examine FTTS role in supporting Deployment, Employment,
 Sustainment and Redeployment of Combat unit sets.
- "Stepping stone" to advanced structure and Hybrid technologies integrated with advanced communications technology.

