

Relevance



The Requirement to Transform



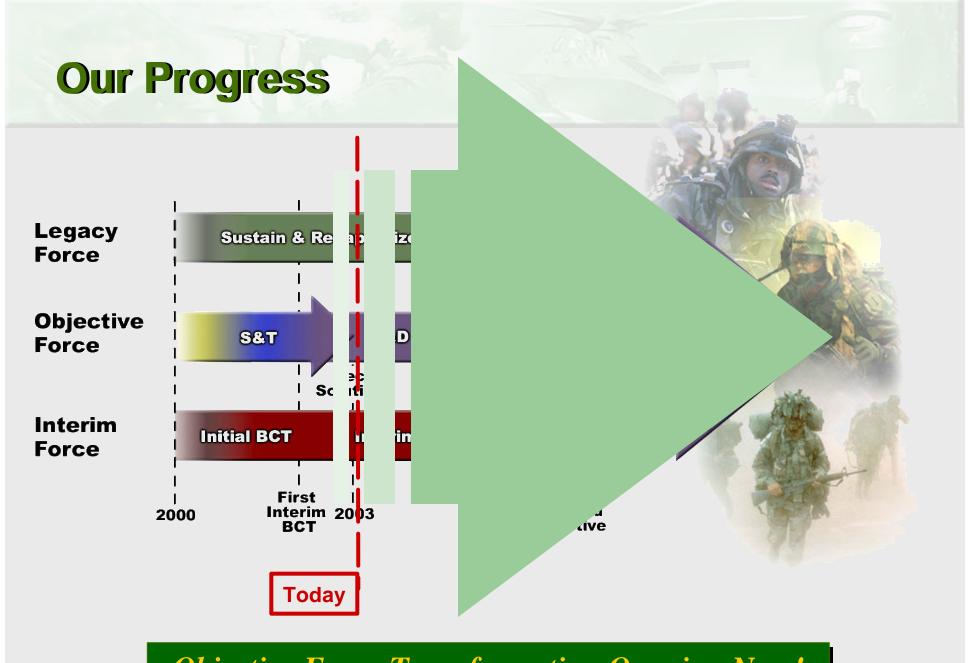
Security Challenges of the 21st Century

Pace and Proliferation of Technology

Compelling Need to Respond More Rapidly & Decisively

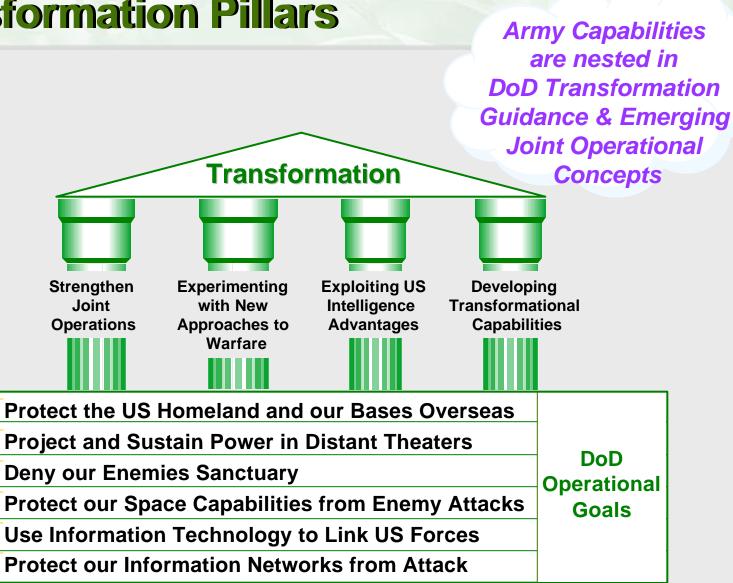
Across the Full Spectrum of Military Operations

The Army Has a Non-negotiable Contract with the American People to Fight & Win our Nation's Wars

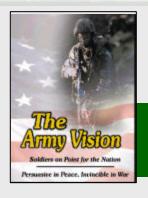


Objective Force Transformation Ongoing Now!

DoD Operational Goals & Transformation Pillars



Conceptual Underpinnings for The Objective Force

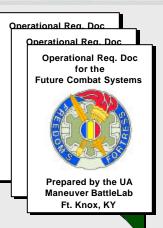




Battle Command (C4ISR) for Army Forces in 2010 and Beyond

TRADOC
Pamphlet 525-x
The United
States Army
Objective Force
Operational and
Organizational
Plan for
Maneuver Unit of
Employment

TRADOC
Pamphlet 525-x
The United
States Army
Objective Force
Operational and
Organizational
Plan for
Maneuver Unit of
Action





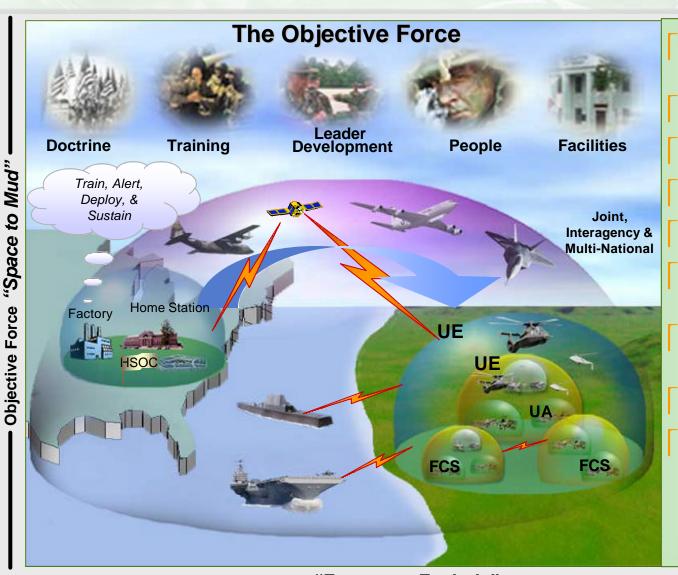






We now have the conceptual foundation for the Objective Force to guide all facets of Army Transformation

Objective Force Concept



Joint, Interagency & Multi-National Capabilities

Campaign Quality Force

Full Spectrum Operations

Network Centric

Enabled by Knowledge

Adaptive Modular Organizations

Family of Systems/System of Systems

3-7 Days Self-Sustainment

Deployability –
1 Brigade sized element in
96 Hours/ 1 Division sized
element in 5 Days/ 5
Divisions sized element in
30 Days

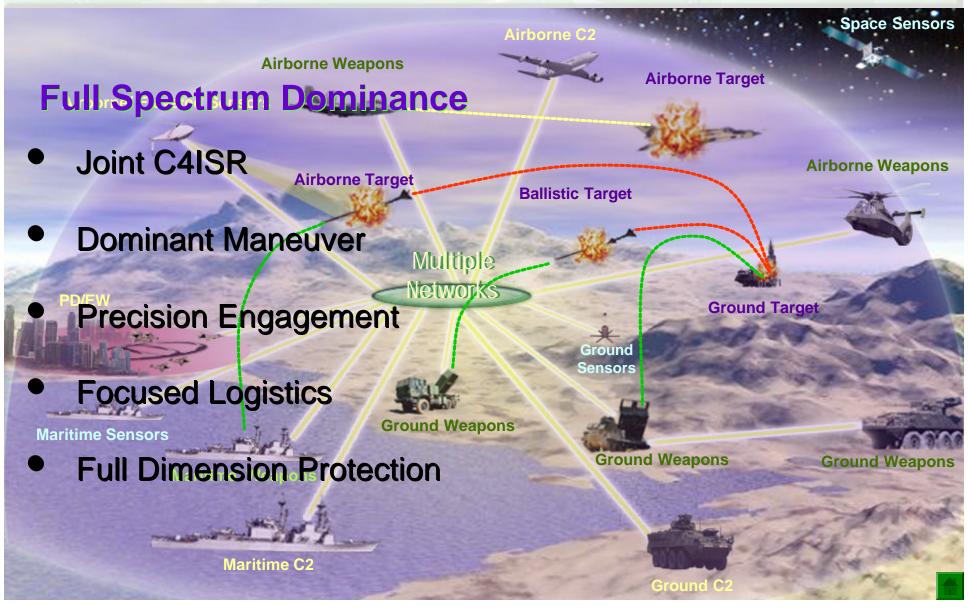
Objective Force "Factory to Foxhole"

How the Objective Force Fights





The Objective Force as Part of the Joint Operational Concept



Objective Force Contributions to Focused Logistics

Continuous uninterrupted provision of combat service support across the full spectrum of military operations

Characterized by...

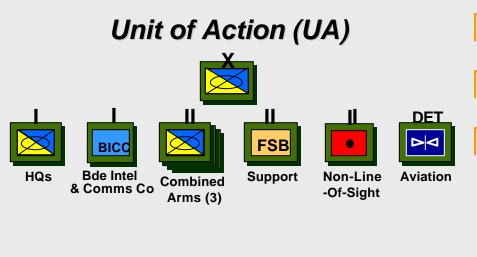
- Network-centric logistics
 - In-transit visibility
 - CROP
- Two level maintenance
- Increased use of robotics
- Reduced demand
- Reduced sustainment footprint
- New ground and aerial concepts for delivery
- Multi-modal, multi-nodal distribution
- Reach operations
- Joint medical treatment and evacuation to standard across echelons

Provides...

- Fewer vehicles and personnel required
- Self-sustainment 3-7 days

Objective Force Organizations Emerging Concepts

Modular Adaptable Organizations



Designed and trained for Joint, interagency and multi-national interoperability

Inherently modular – rapid force tailoring and teaming as required based on mission needs

Organizations designed and equipped to fulfill command and control (C2) functions of Joint, interagency, and multi-national organizations

- **Army Forces Command, Joint Forces** Land Component Command, and Joint Task Force
- **Joint Interagency Coordination Group** (JIACG)

Improved level of competency in leaders and Soldiers which empowers leadership to make decisions at lowest levels

Human resource functions support Joint, interagency and multi-national operations for Soldiers, civilians, families and contractors

- Increased liaison assignments to interagency and multi-national organizations
- **Seamless Army active and reserve** component force structure

Unit of Employment (UE)

Joint Headquarters Capable



Standing Base









Pooled UAs

Aviation Fires

Man

Air & Msle Special Forces

Future Combat Systems (FCS) Family of Systems

Complexity ...

+ 500 discrete requirements

= ~ 300 individual programs

FCS Family of Systems

Essential Tenets of the FTTS Program

Create opportunity for *best of industry* to participate

Leverage government *technology* base to maximum extent

Associate on-going enabling efforts with LSI led activity

Collaborative environment from design through life cycle

As a minimum, *commonality* at subsystem/component level

Design/plan for *technology integration* and insertion

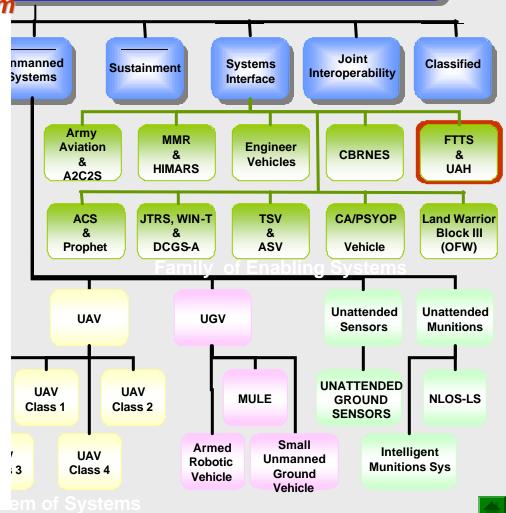
Maintain and shape *industrial base* for the future

Retain *competition* throughout objective force acquisition

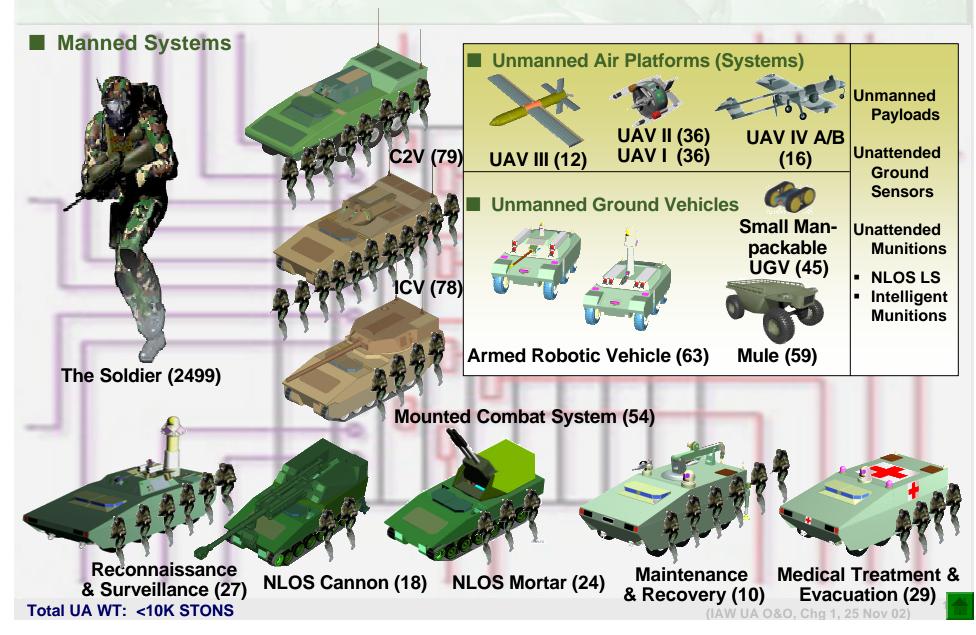
Appropriate *government involvement* in procurement processes

Maintain and shape government acquisition community

Program *affordability--balance* performance and sustainment



Future Combat Systems (FCS)



FTTS 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

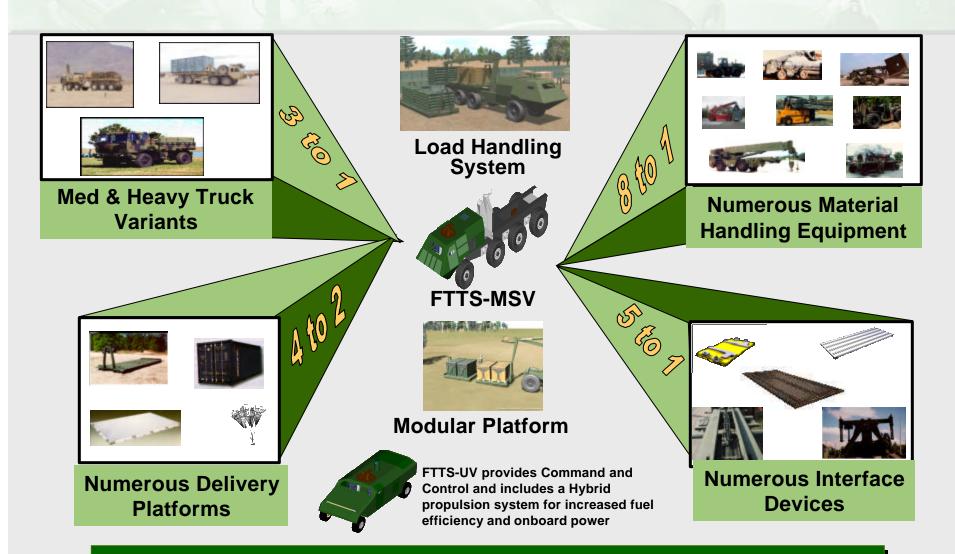
- Designed upfront to provide time definite and assured delivery
- Reduced Emissions and Signature

Responsiveness

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

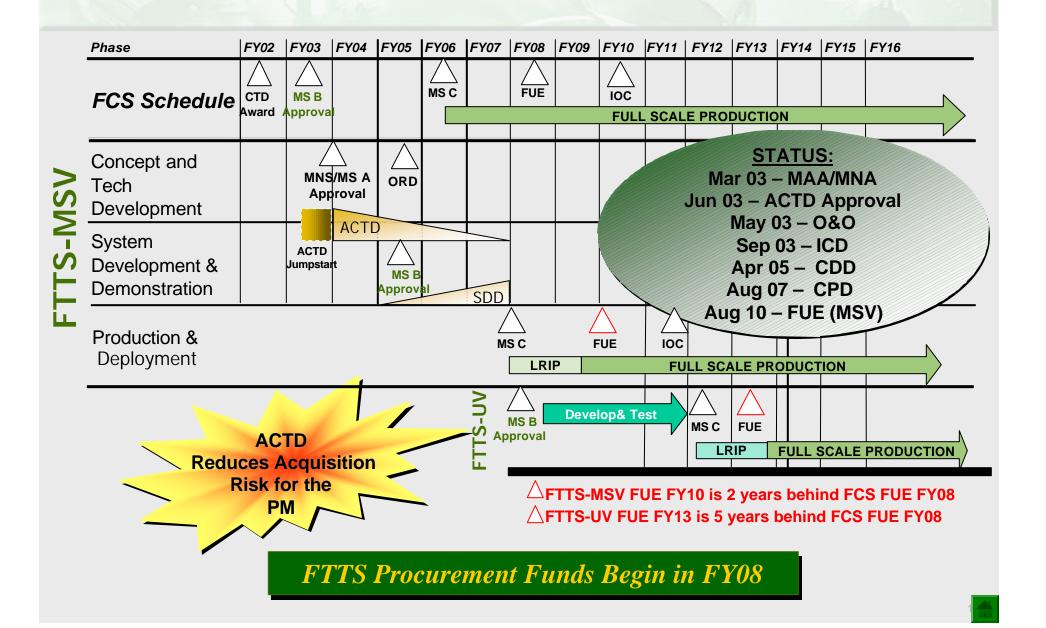
ORD Starting Point

FTTS ACTD Objective



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

FTTS Transition Schedule



What We Need From "FTTS"

Systems designed for tough requirements.

- Self reporting
- No vehicles that get less than 30 mpg
- Limited repairables
- Limited spares
- No Systems w/o embedded diagnostics/prognostics

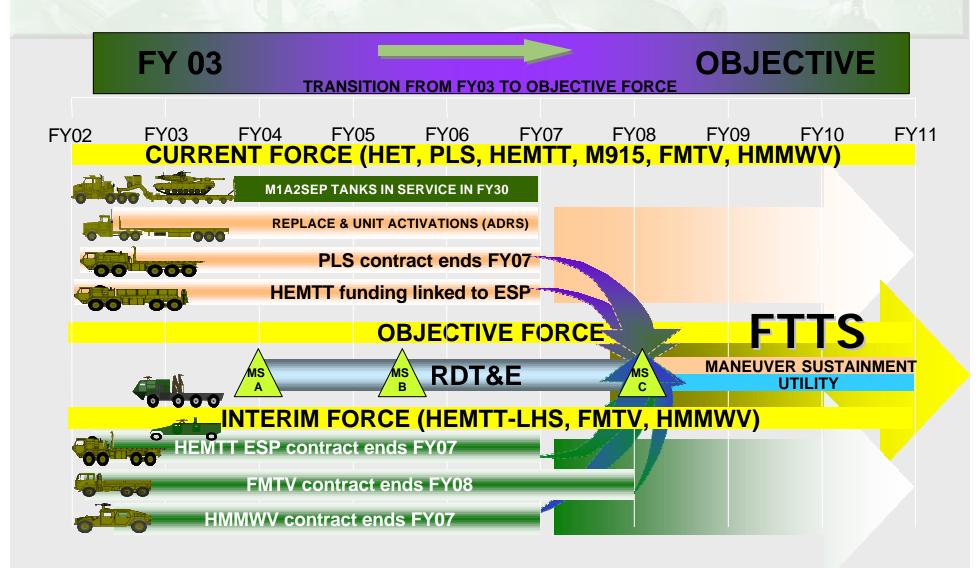
Future systems must be built with ultra reliable components that require minimal preventive maintenance, and when maintenance is required repairs and services are easily and quickly performed.

- No special tools
- No external TMDE
- Mean Time Between Failure (MTBF) > Duration of pulsed operations

We may have to pay up front for such "Ultra-reliable" systems, but our future warfighting concepts depend on them. If systems don't perform as advertised, there should be penalties.

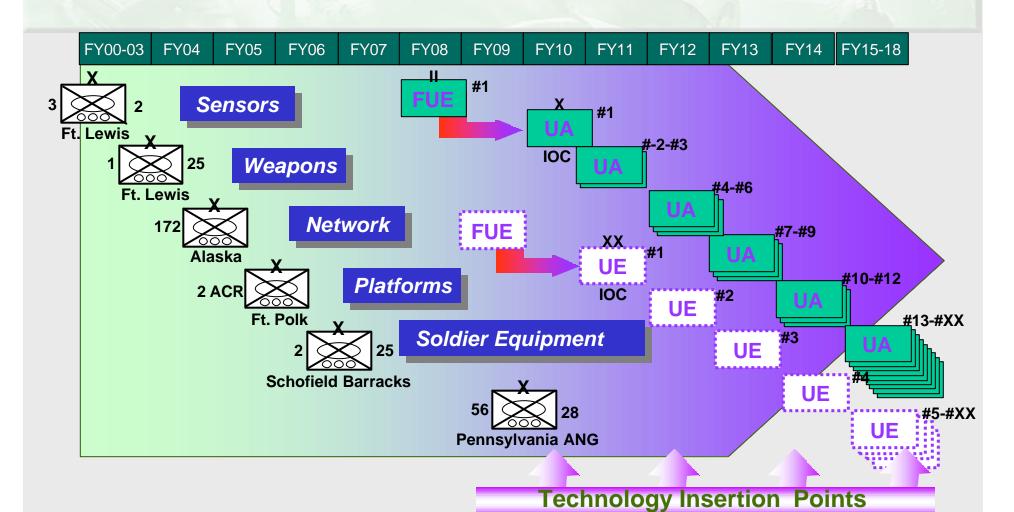
"Significant reduction in the logistics footprint and costs will occur when reliability, maintainability, and fuel efficiency are effectively balanced with Cost, Schedule and Performance"

Tactical Wheeled Vehicle Vision



FTTS ... Critical Enabler of the Objective Force

Fielding an Army – Over Time



Balancing the Right Mix of Current and Stryker Forces with Fielding the Objective Force

