



# Transforming an Army While at War

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*TRADOC: Victory Starts Here !*

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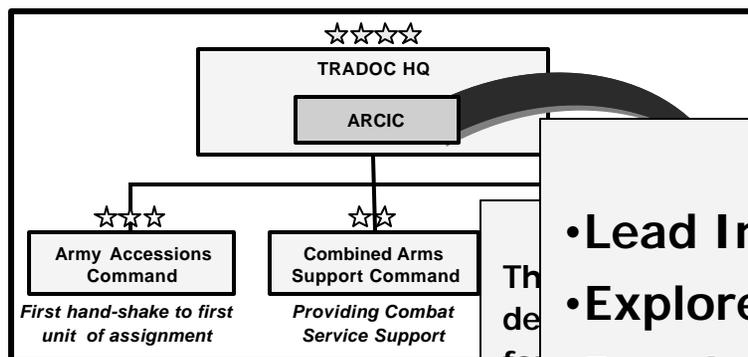


# ***Agenda***

- ✍ ARCIC Overview
- ✍ TRADOC Centers of Excellence (CoEs)
- ✍ Strategy  $\Rightarrow$  Concepts  $\Rightarrow$  Capabilities
- ✍ Concepts Development and Experimentation
- ✍ The Network--LandWarNet
- ✍ Soldier Modernization
- ✍ Comprehensive Force Protection
- ✍ Future Force Integration Directorate and the Evaluation Brigade Combat Team

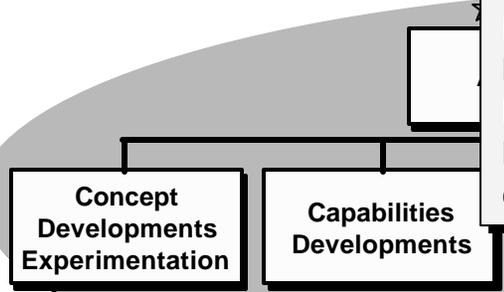


# Army Capabilities Integration Center

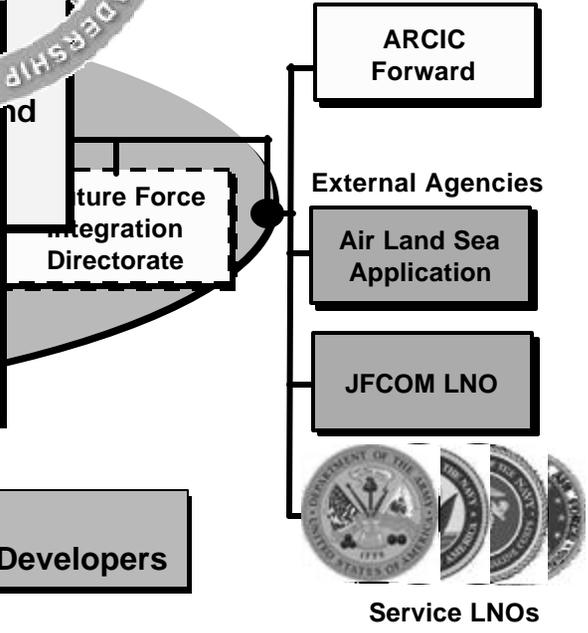


**Goals**

- Lead Innovation
- Explore and Experiment
- Develop the Future Force
- Integrate the Force
- Strengthen Joint, Interagency, and Multinational Capabilities
- Reshape Capabilities Developments



ⓘ Combat Developers  
 ☆ Battle Labs/Combat Developers

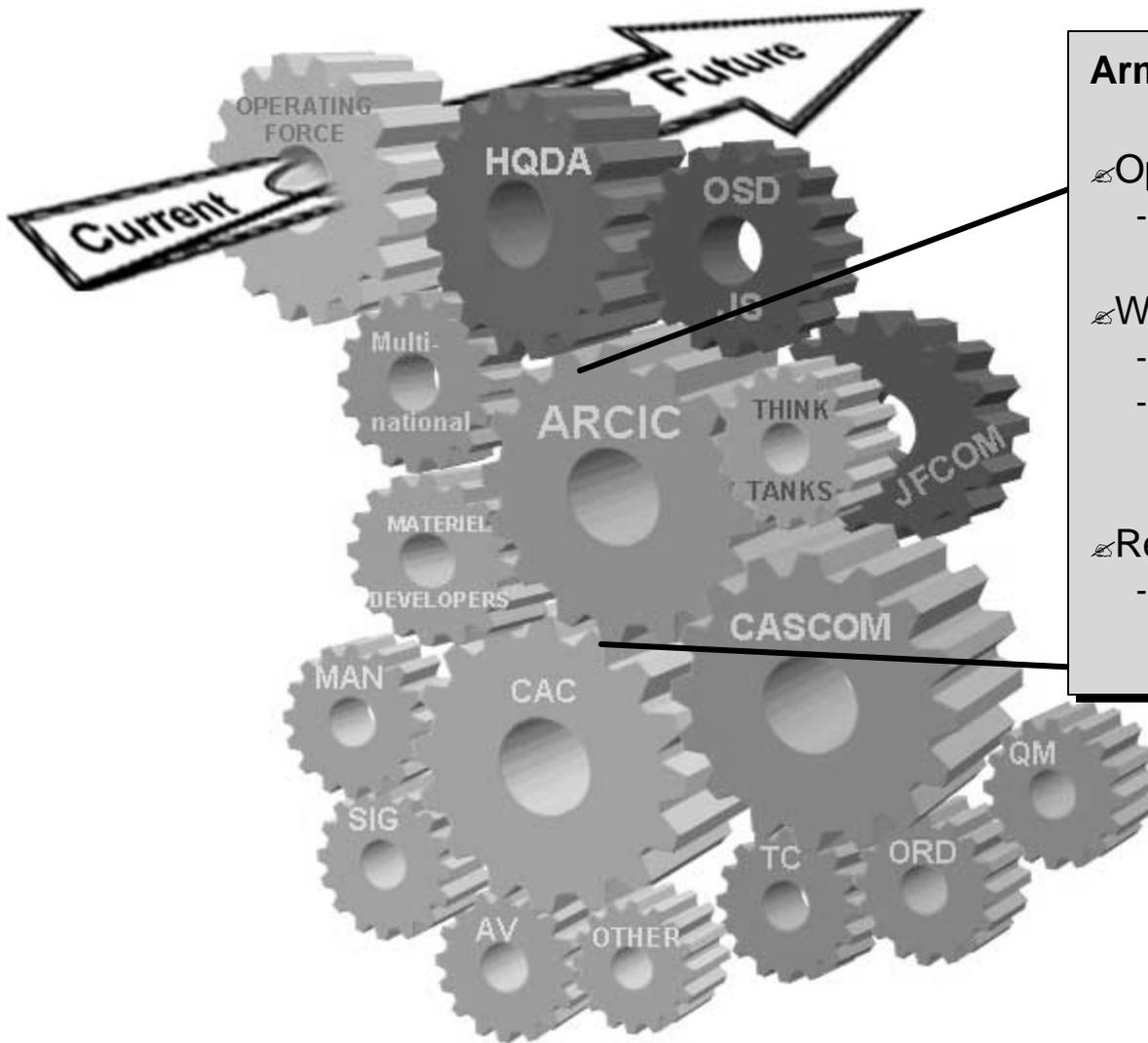


\*\*Initial capability March 07



# ***Driving Change for the Army***

## ***Integrating DOTMLPF for the Operating Force***



### **Army Capabilities Integration Center**

- ✦ Operational Concept Development
  - Illustrate how future forces will operate
- ✦ Wargaming and Experimentation
  - Explore innovative methods
  - Identify and verify solutions for required changes in DOTMLPF
- ✦ Requirements Determination
  - Determine, recommend, and document DOTMLPF changes with supporting analysis

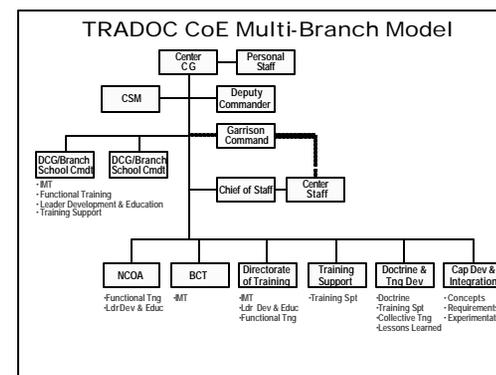


# Transforming to Centers of Excellence

**Center of Excellence Definition:** Designated installation, centered on TRADOC core functions, that improves combined arms solutions for joint operations, fosters DOTMLPF integration, accelerates the development process, and unites all aspects of institutional training to develop Soldiers, leaders, and civilians who embody Army values.

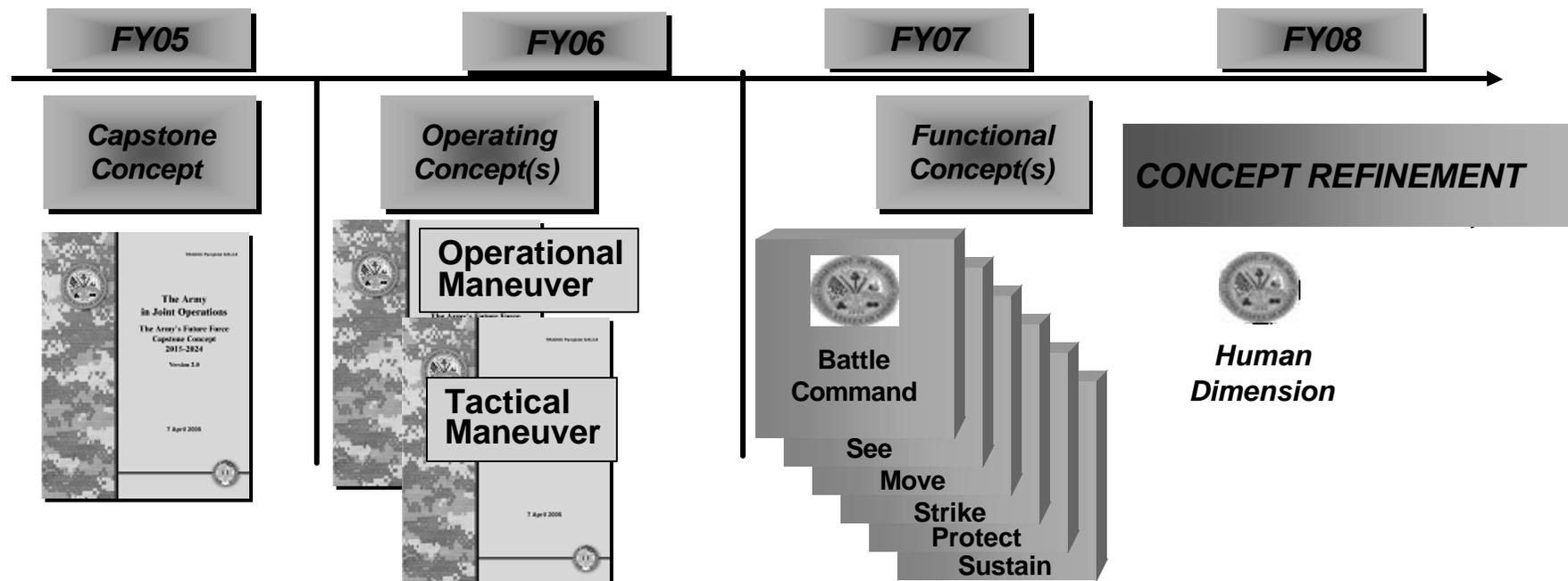
## Objectives

- ✍ Fuse TRADOC functions and capabilities
- ✍ Develop synergy of intellectual capacity
  - Accelerate / promulgate innovation
  - Promote broader leader mindset
  - Stimulate cross-branch exchange
- ✍ Facilitate capability development across DOTMLPF
  - Consolidate to maximum extent possible; leverage “commonness”
  - Facilitate integration of operational lessons learned
  - Facilitate collaboration and interaction within TRADOC and with the rest of the Army and other agencies
  - Facilitate outreach to the rest of the Army





# Army Concept Strategy



- ✗ Capstone Concept intended for experimentation and subordinate concept development
- ✗ Operating and Functional Concepts are further elaboration of Capstone Concept key ideas
- ✗ Concept Capability Plans (CCPs) enable capability development as envisioned in operational concepts
- ✗ Army concepts – nested and support the family of Capstone Concept for Joint Operations (CCJO)

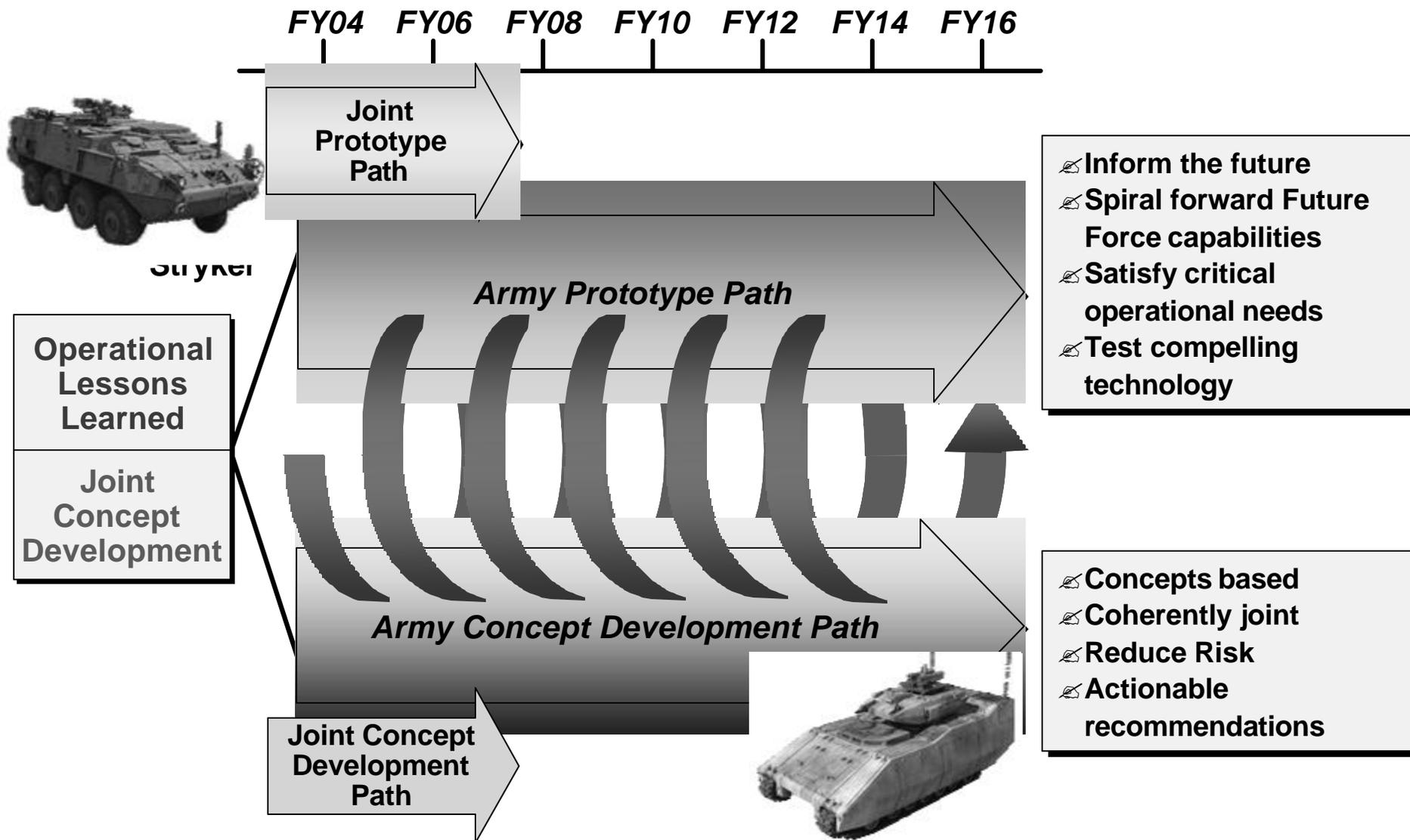
Wargaming and Experimentation

Concept-Capabilities Gap Analysis

**A Comprehensive Set of Operational Concepts  
Covers All Warfighting Functions and Missions.**

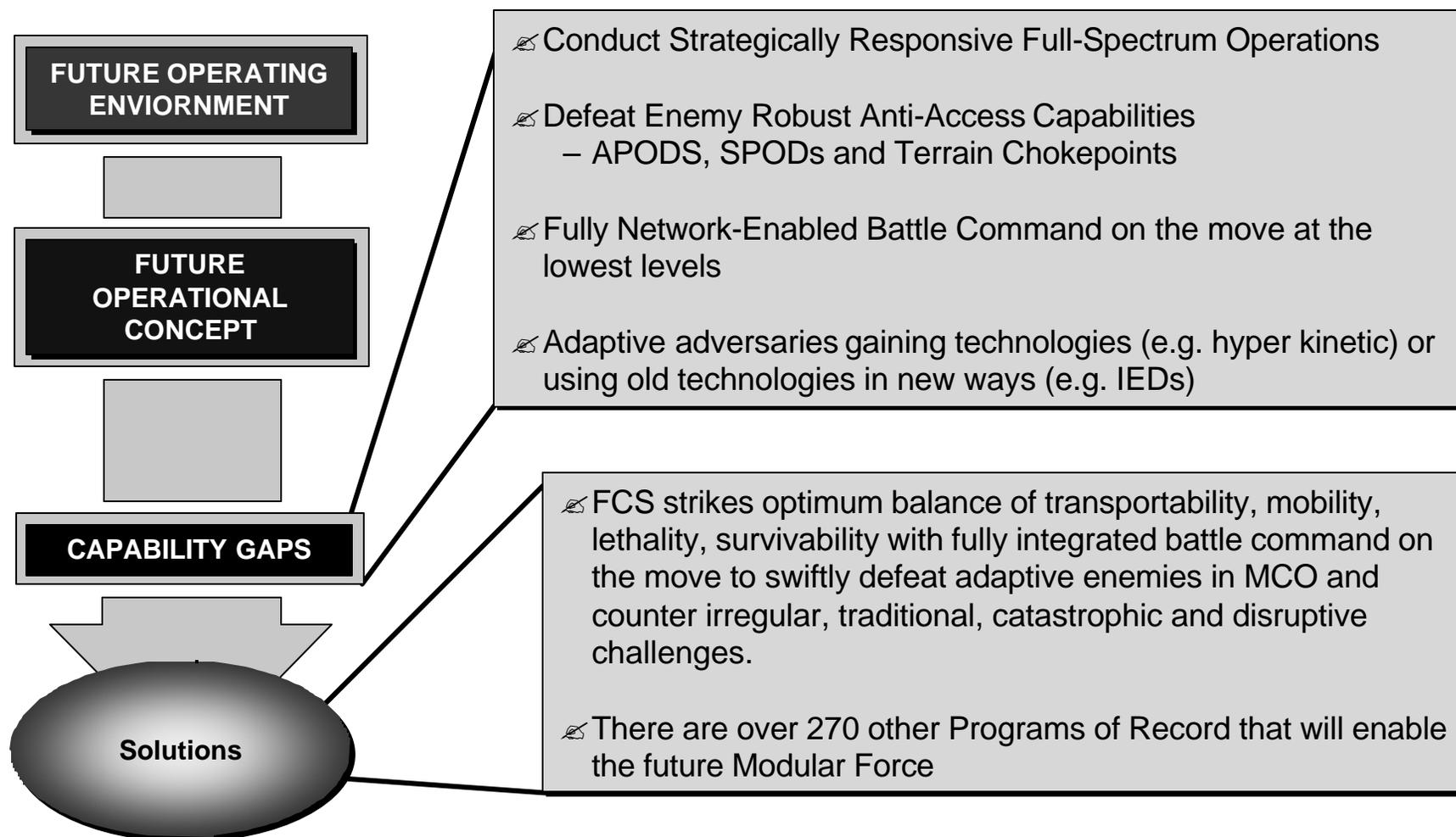


# Concept Development and Experimentation





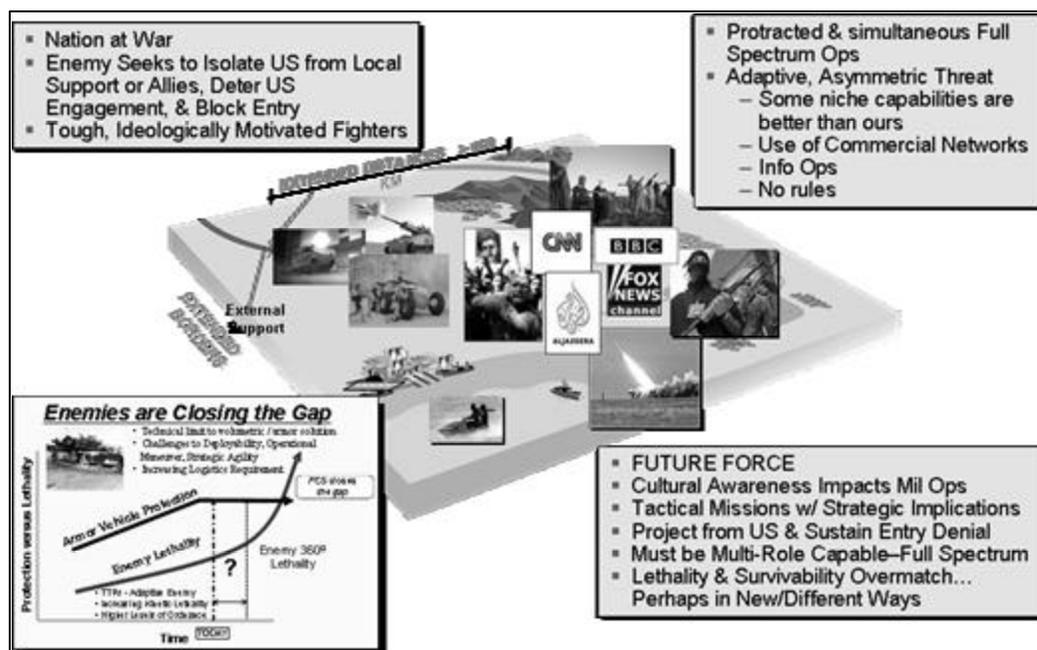
# Operational Imperative





# Why the Joint Force Needs FCS?

- ✎ Joint Operating Environment will continue to evolve: tomorrow's threat is more demanding than today's
- ✎ Must operate across full spectrum (disaster relief to major combat)
- ✎ Provides Joint Force Commanders optimum balance of transportability, mobility, lethality, survivability with fully integrated battle command on the move
- ✎ Hyperkinetic technology advancements will severely challenge passive armor solutions
- ✎ Our wargaming and experimentation, along with real-world experience, demonstrates the potential of network-enabled solutions to address both our current and future capability gaps

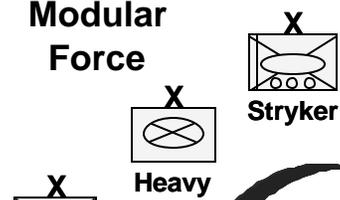




# How FCS Enables Warfighting Capability

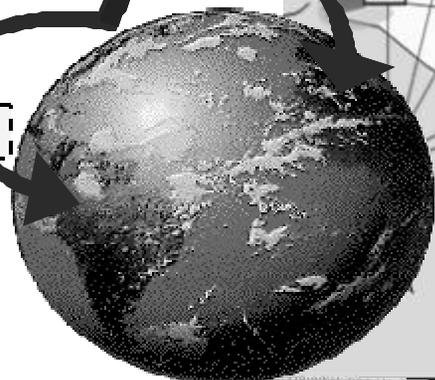
## Strategically

Future Modular Force

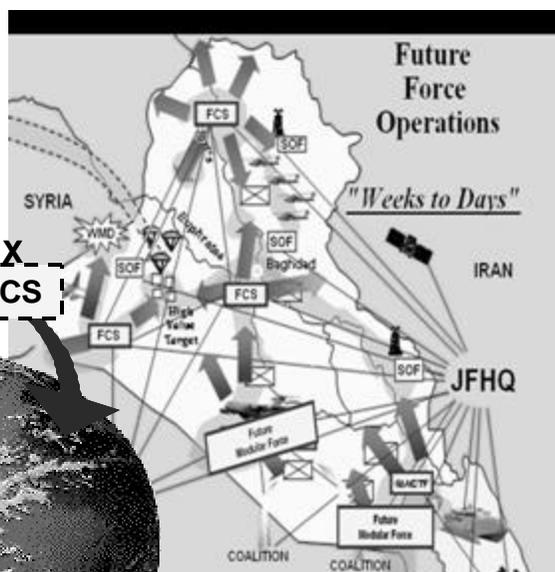


Infantry

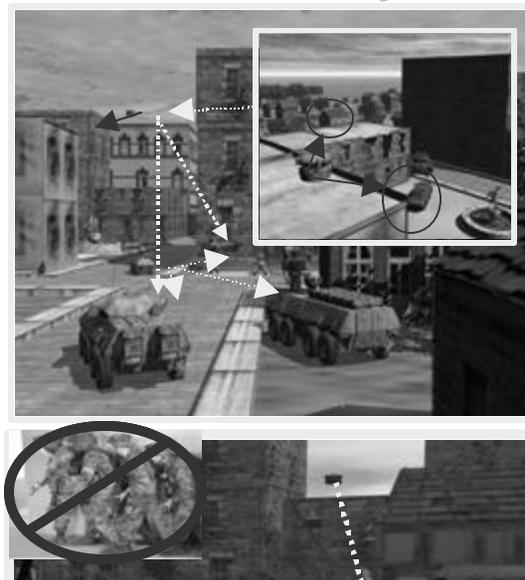
FCS



## Operationally



## Tactically



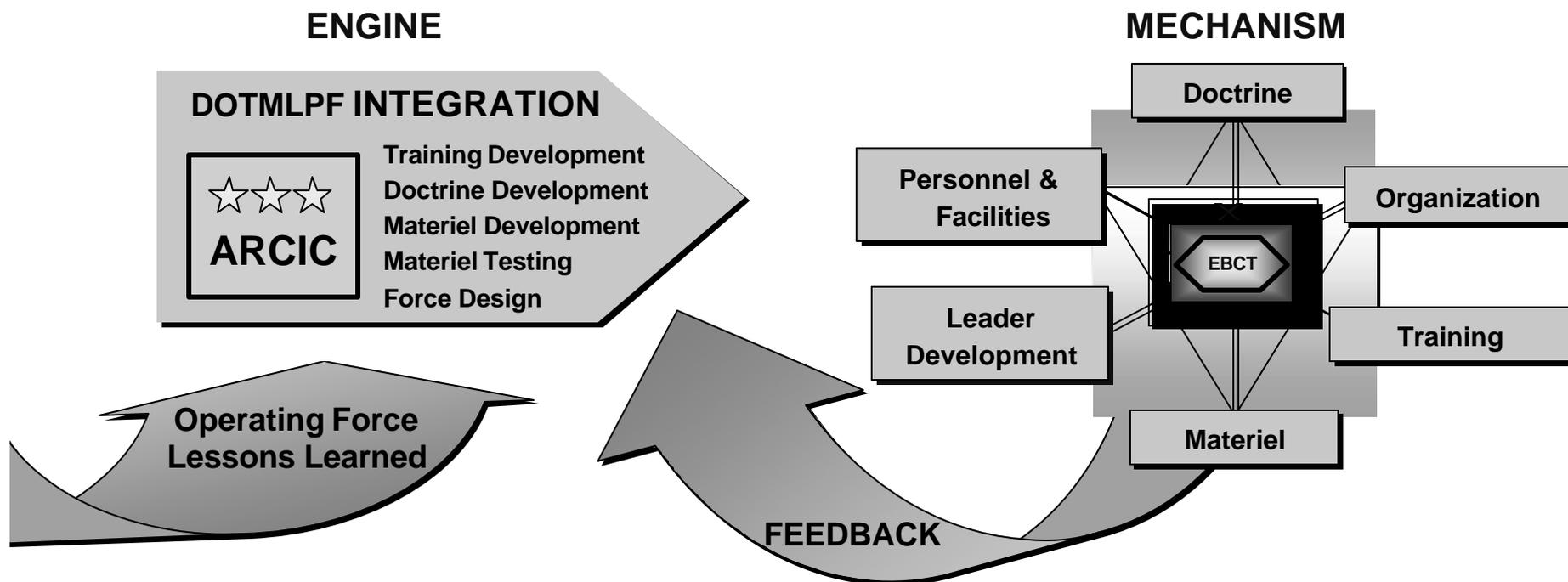
***Close with and destroy enemy forces to seize terrain and dominate the battlefield***

### Seven Key Ideas

- ✂ Shaping and Entry Operations
- ✂ Operational Maneuver from Strategic Distances
- ✂ Intratheater Operational Maneuver
- ✂ Decisive Maneuver
- ✂ Concurrent and Subsequent Stability Operations
- ✂ Distributed Support and Sustainment
- ✂ Network-Enabled Command



# Future Combat Systems Integration Mechanism



## Future Force Integration Directorate (FFID): Generating Force Throttle

- ✍ Develop training/leader development products, train and certify Evaluatin Brigade Combat Team (EBCT)
- ✍ Synchronize and coordinate plan for development-related activities (Exercises, Experiments, Test & Evaluation events)
- ✍ Develop Doctrine and Organization products, applying Lessons Learned
- ✍ Update and synchronize systems development documents
- ✍ Serves as the principal interface between Generating Force and EBCT chain of command
- ✍ Exercises Tactical Control (TACON) over the EBCT

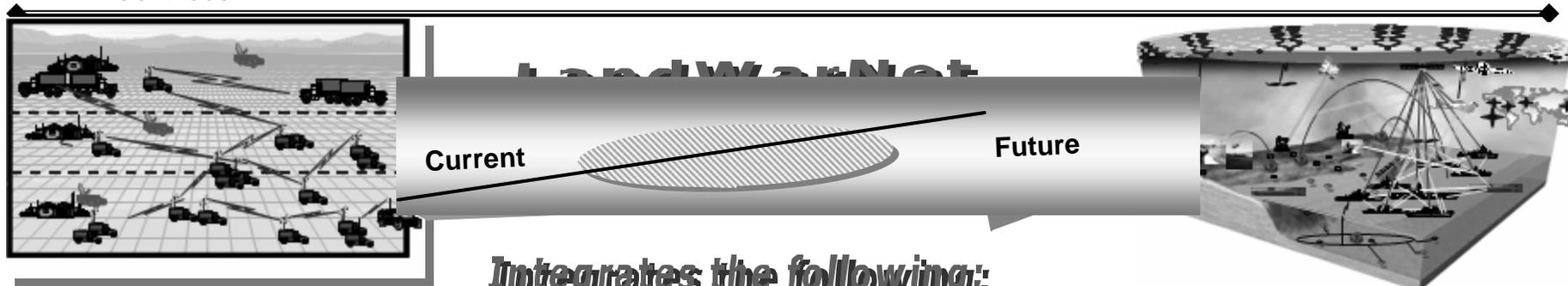


# Defining LandWarNet

- LandWarNet is the Army's contribution to the GIG
- Consists of all globally interconnected Army information capabilities, including:
  - Associated processes
  - Personnel for collecting, processing, storing, disseminating, and managing information
- Supports warfighters, policy makers, and support personnel
- Includes:
  - All Army communications & computing systems
  - Applications
  - Services



*LandWarNet is the means by which the Land Component conducts information-enabled, joint warfighting and supporting operations.*



## Integrates the following:

- |  |  |
|--|--|
| ✗ Static Command Posts (CP) .....            | → Comms On-The-Move, Leader-Centric      |
| ✗ Limited Connectivity & Collaboration ..... | → Global Connectivity, Collaboration     |
| ✗ Tethered to fixed CP .....                 | → Assured Mobile Comms Anytime, Anywhere |
| ✗ Collocated Stovepipe .....                 | → One Joint Common Picture               |
| ✗ Army-Centric .....                         | → Joint at the Core                      |



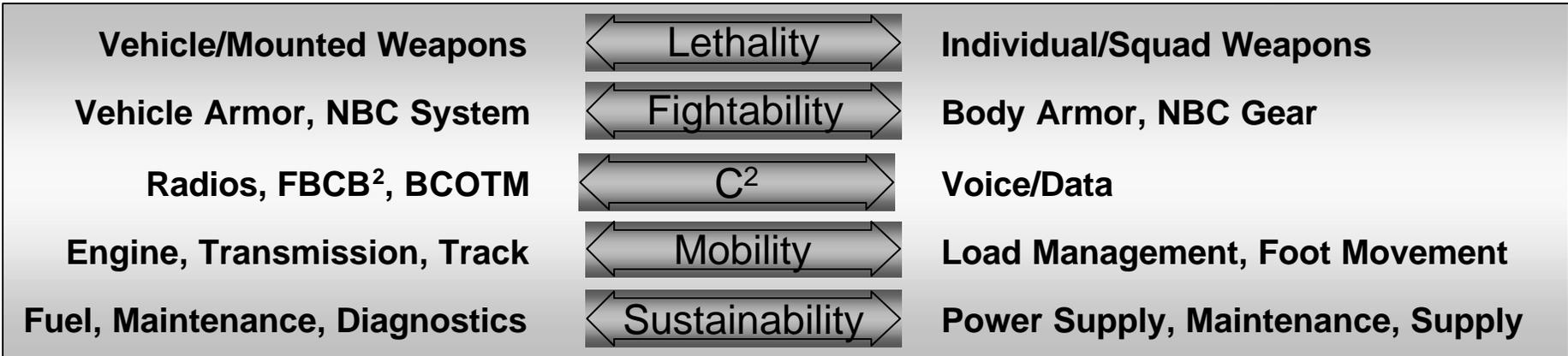
# Soldier Modernization Focus of Developing Systems

## Vehicle as a System



**Approach  
Requirements  
as a Platform**

## Soldier as a System



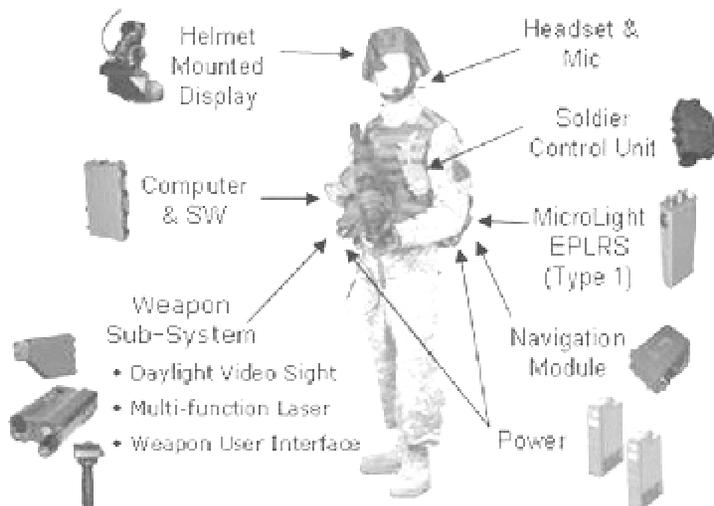
**Integrated Modular System NOT Modular Integrated System**



# Land Warrior and Ground Soldier System

- **Integrated, Modular, Scalable System**
- **Capability Tailored to Duty Position**
- **Voice/Digital Communications to current and future platforms**
- **Connects Soldiers And Leaders to Tactical Internet**

## Squad Leader and Team Leader



## Commander's Digital Assistant

- **Not Currently Integrated With Land Warrior**
- **CO CDR Level Only (Carried by RTO in Assault Ruck)**
- **Provides Over The Horizon Communications**



## Vehicle Integration Kit provides:

- **Gateway to Tactical Internet**
- **Land Warrior II Network Hub**
- **Soldier Battery Charger**
- **Combat Net Radio System - Voice/Data**
- **Video Display Terminal**

*Combat Platform  
Considerations*



# Comprehensive Force Protection Initiative (CFPI)

- CG TRADOC directed effort initiated 17 Nov 2005

✍️ ARCIC lead with Materiel Developer, Test, and Acquisition Communities

✍️ Objectives:

- identify OIF/OEF force protection gaps
- identify on-going efforts
- develop recommendations for additional, immediate actions
- develop an interim requirements strategy to enhance force protection



Enhanced Soldier  
Survivability And  
Mobility



Enhanced Vehicle Lethality And Survivability

**Enhanced Force Protection in the Current and Future Modular Force**



## ***Summary: What We're Doing for the Army***

- ✍ Supporting Soldiers Today and Preparing for the Future
  - ✍ Integrating the Force
  - ✍ Implementing the Army Modular Force
  - ✍ Powering Joint Interdependencies
- ✍ Leading Joint Wargaming, Experimentation and Concept Development

***Developing a Campaign Quality Army with  
Joint and Expeditionary Capabilities***