

# *U.S. Army Simulation, Training and Instrumentation Command*

## *Operational Testing and Training Mission Support for the Objective Force*

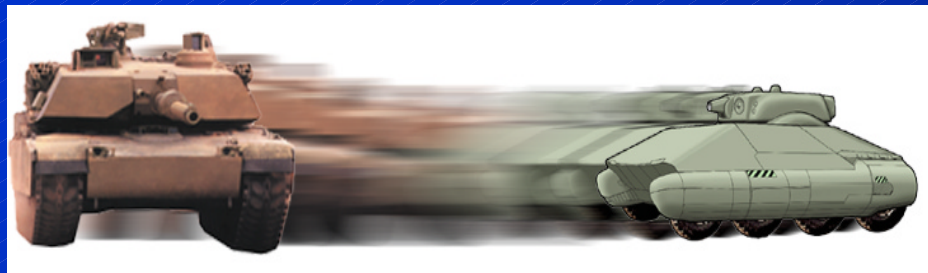


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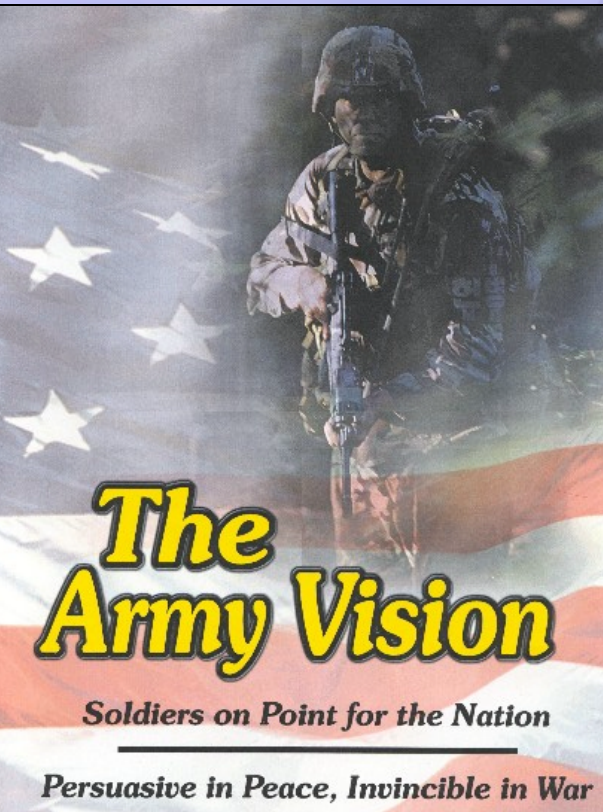
# Overview

- The Transforming Army
- Testing the Objective Force
- Training the Objective Force
- STRICOM unifying test and training investment
- A Possible Future





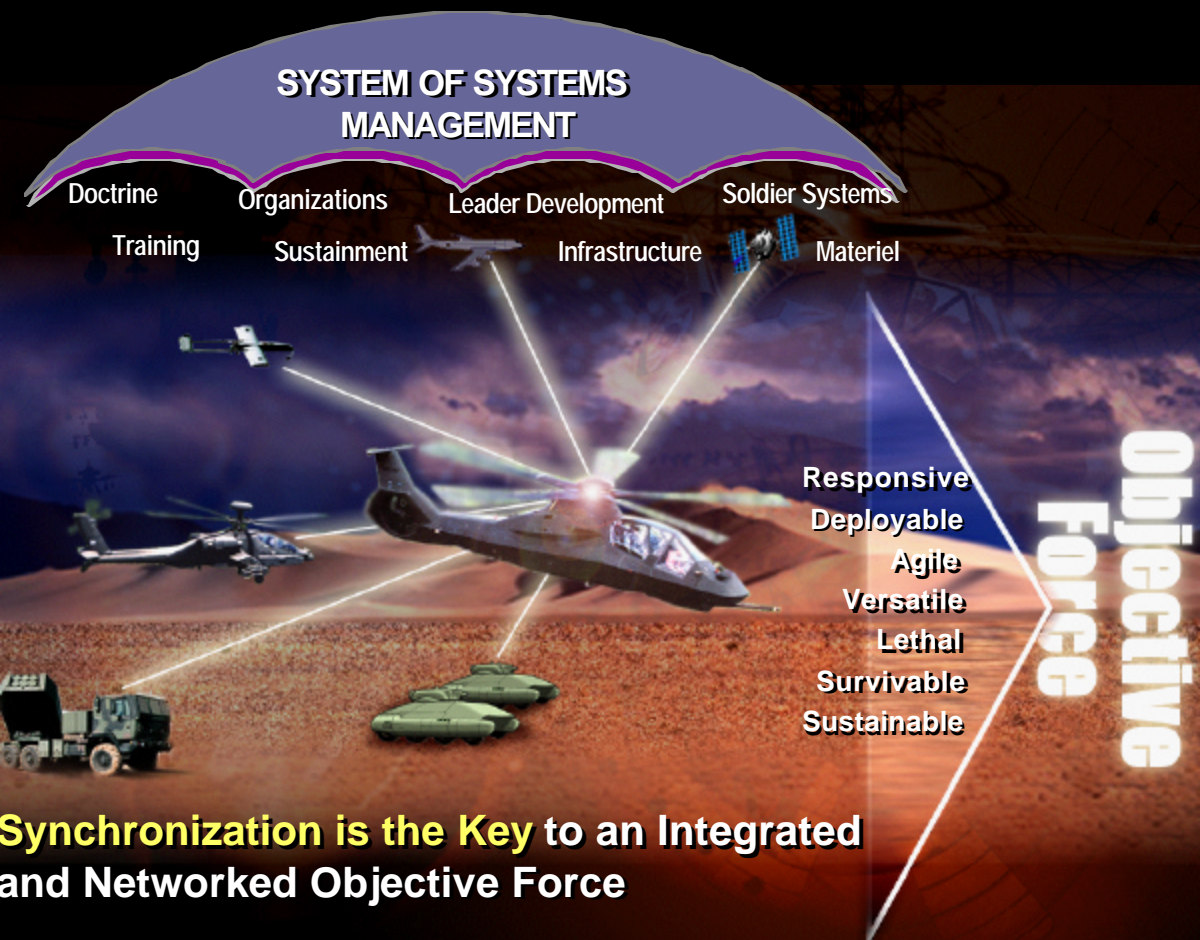
# *The Transforming Army*



- Responsive
- Deployable
  - Agile
  - Versatile
  - Lethal
- Survivable
- Sustainable



# Our Objective Force Army



- Objective Force is Distributed and Network Centric

- Current test and training infrastructure not designed to suit

- Changes occurring throughout the entire Army to adapt to the Objective Force

*Distributed  
Weapons Platforms*



# Testing the Objective Force



- Must immerse weapon system into distributed force
  - **WHICH MAY NOT BE FULLY AVAILABLE!**
- Simulation will take on substantial importance to testing
- Distributed systems require standardized approaches



# *Training the Objective Force*



- **End of Self-Reliance**
  - One system targets
  - One system protects
  - Another system shoots
- **Unit Set Fielding**
  - Each Army element a unique fighting force
- **Training must adapt**
  - EW major threat to crucial C4I Systems
  - Simulation allows reconfigurable training
  - New mission and deployment possibilities



# STRICOM Unifying Test and Training Investment

FIT  
LOGO



Army Test and Training Investment Conference

Connecting  
**ARMY**  
Testing  
& Training  
Communities



- Sharing Existing Assets
  - Targets
  - Threat Simulators
- Bringing Customers Together
  - ATTIC
  - HLA Interfaces
  - Common Data Links
- Proposing New Mutual Technologies



# New Mutual Technologies

## Army Test and Training Investment Conference

Connecting  
**ARMY**  
Testing  
& Training  
Communities



- STRICOM does NOT develop requirements
- But . . . We research our customers' requirements
- And . . . We look to industry and academia for solutions
- And . . . We encourage commonality



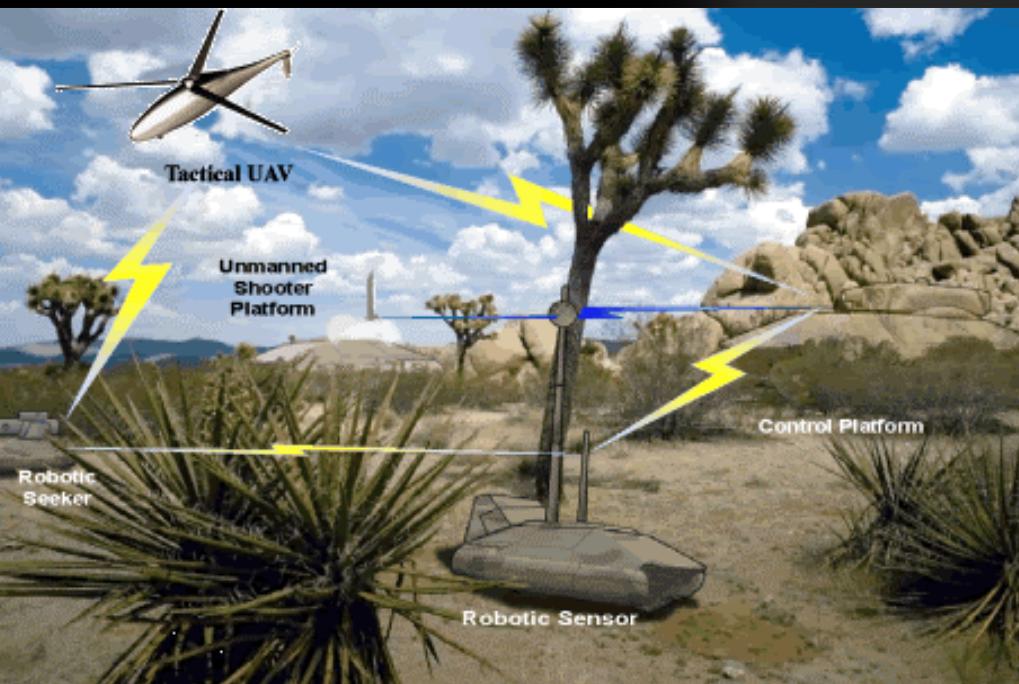
## Florida Simulation Center







# Standard Army TSPI



*Standard*

*Army*

*TSPI*

- Uniform data stream
- Plug-and-play compatibility
- Commonality to operations, testing and training



# *Standard Army Vehicle Interface*



- **Common Vehicle Interface:**
  - Systems currently require multiple interfaces for testing and training (MAIS, MILES, TWGSS, PGSS, etc.)
  - Standardized interface across the fleet enables plug and play testing, training, and diagnostics

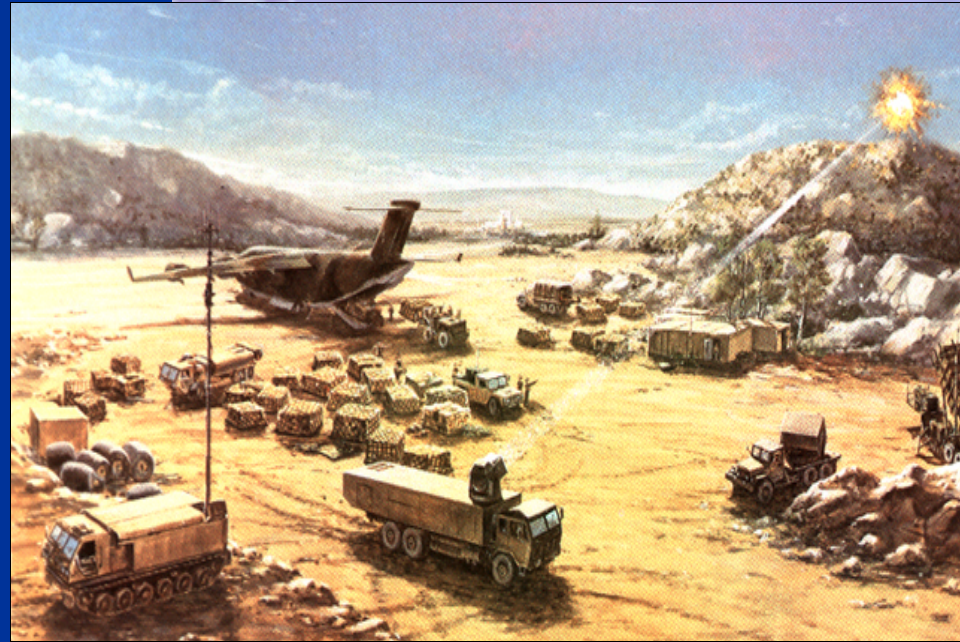




# *Embedded Testing and Training*

## Embedded Testing and Training:

- Permits deployed forces to maintain readiness
  - Immediate ability to train
  - Immediate access to vehicle diagnostics
- Builds on Common Vehicle Interface protocols





# ***Standard Army Dismounted Troop Instrumentation***

## ***Dismounted Troop Instrum:***

- **Ties troop data standards to vehicle data standards for testing and training purposes**
- **Combines Land Warrior, Air Warrior, Test, and Training investment in Dismounted Troop instrumentation**  
(One vest, one laser, one fuel source, one antenna, etc.)
- **Army buys more for less**





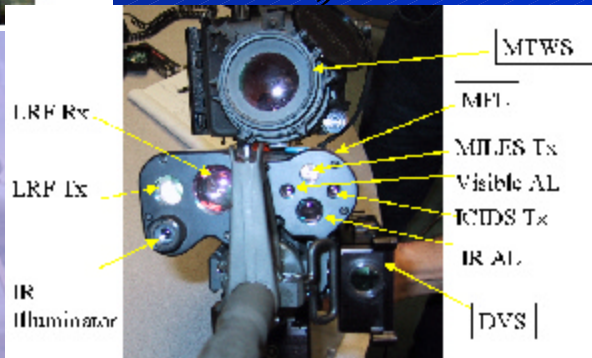
# Multi-Function Laser System (MFLS)

## Common Laser for Simulated Area Weapons Effects (SAWE)



**Combines MAIS, MILES, and Land Warrior test and training laser systems**

**MAIS, MILES, and Land Warrior Share:**

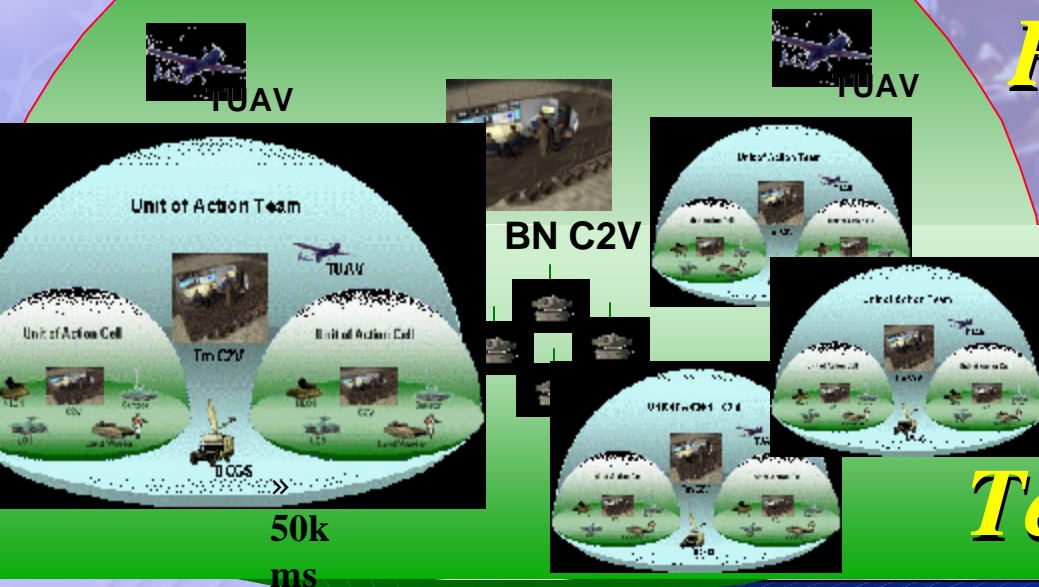


- One laser
- One power supply
- One fuel
- One antenna



# Networking the Future

## Unit of Action Battalion

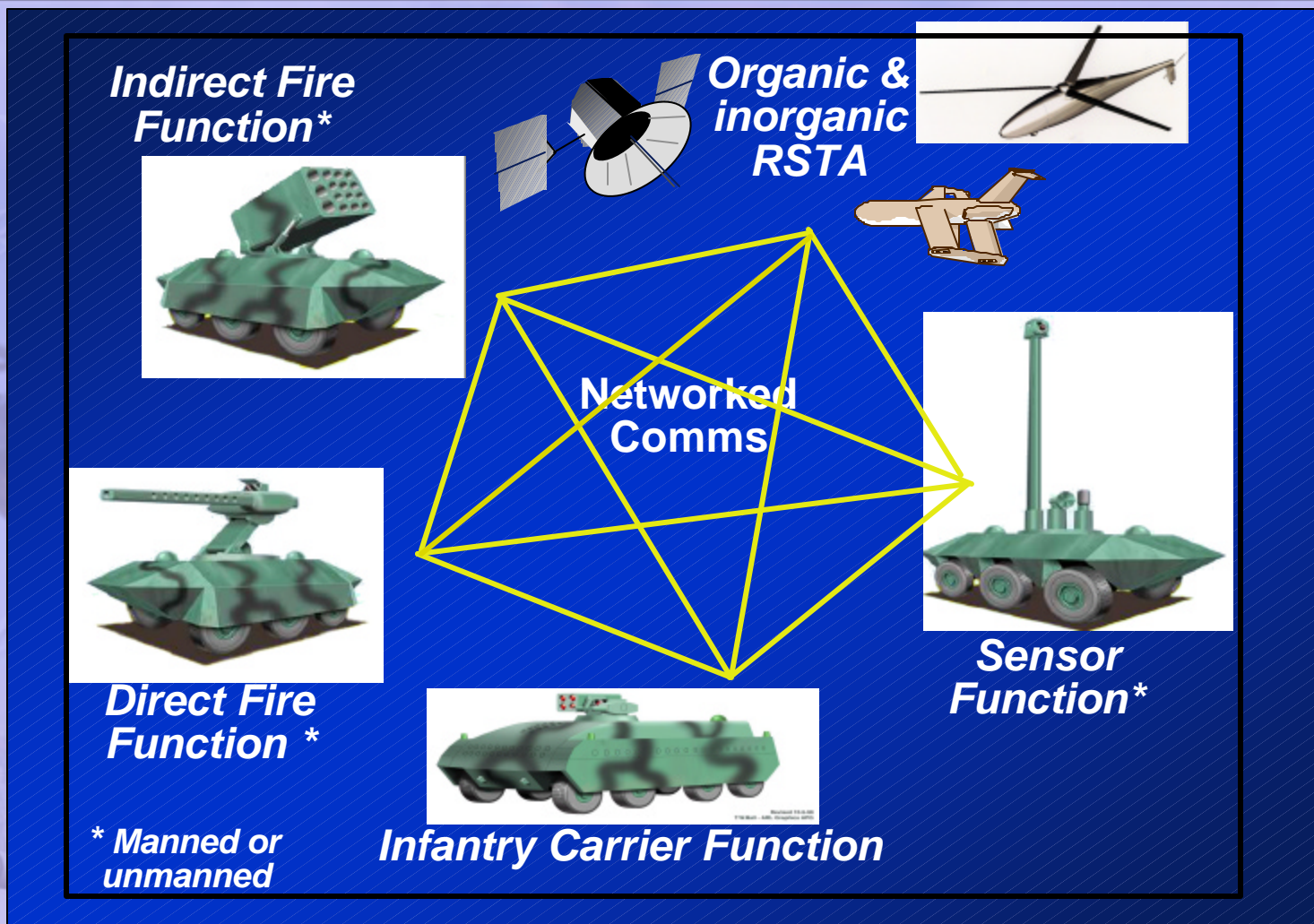


## *Pursuing Common Networking Standards for Testing and Training*

- **STRICOM Integrating Testing and Training Systems to High Level Architecture (HLA)**
  - **Testing: FI2010, VISION, OASIS**
  - **Training: CTIA, CTC-OIS, ONETESS, ONESAF**



# A Possible Future

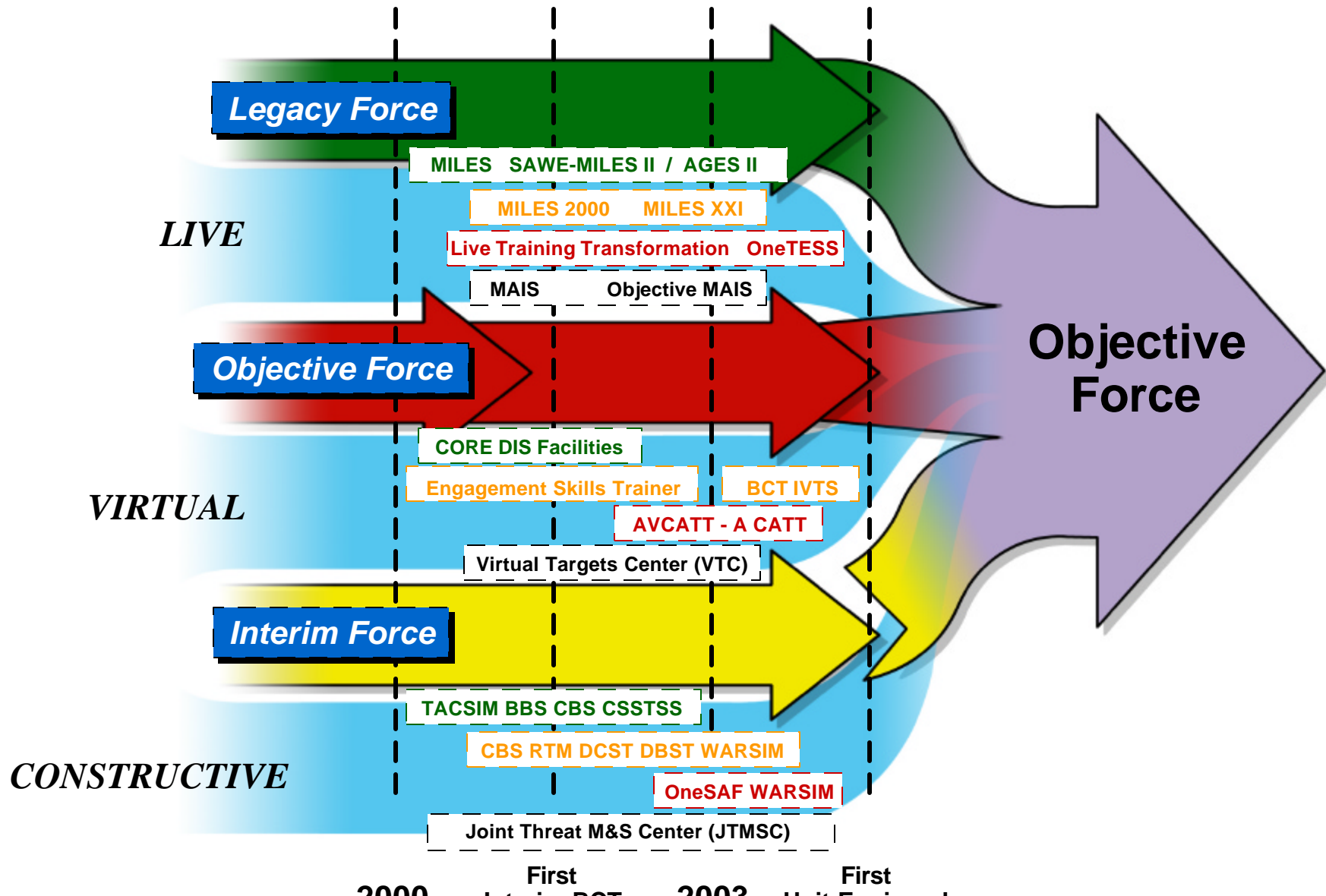


**Uniform Instrumentation which enables Shared Operational Testing and Training Operations**

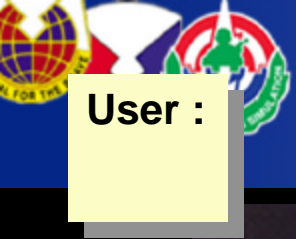


# STRICOMs Role in Army Transformation

## Development of a Simulation Environment for Full Spectrum Operations



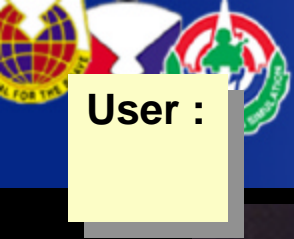




User :

# ***U.S. Army STRICOM***

***On Point for the Army in  
Interoperable Training, Testing,  
Instrumentation, and Simulation  
Solutions for the Army's  
Transformation  
to the Objective Force!***



User :

# ***U.S. Army STRICOM***

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Instrumentation Command***

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