



Live Training



Project Manager Training Devices

- ★ Homestation
- ★ MCTC
- ★ Deployed

OBJECTIVE FORCE TRAINING SOLUTIONS



HOMESTATION : MCTC : DEPLOYED

OneTESS - One Tactical Engagement Simulation System

OBJECTIVE FORCE TRAINING SOLUTIONS



PM TRADE

COMMON TRAINING INSTRUMENTATION ARCHITECTURE



HOMESTATION : MCTC : DEPLOYED



Homestation

A OneTESS Solution
for every
Combat System



Homestation
Force-on-Force
and
Gunnery



Homestation
Live Fire

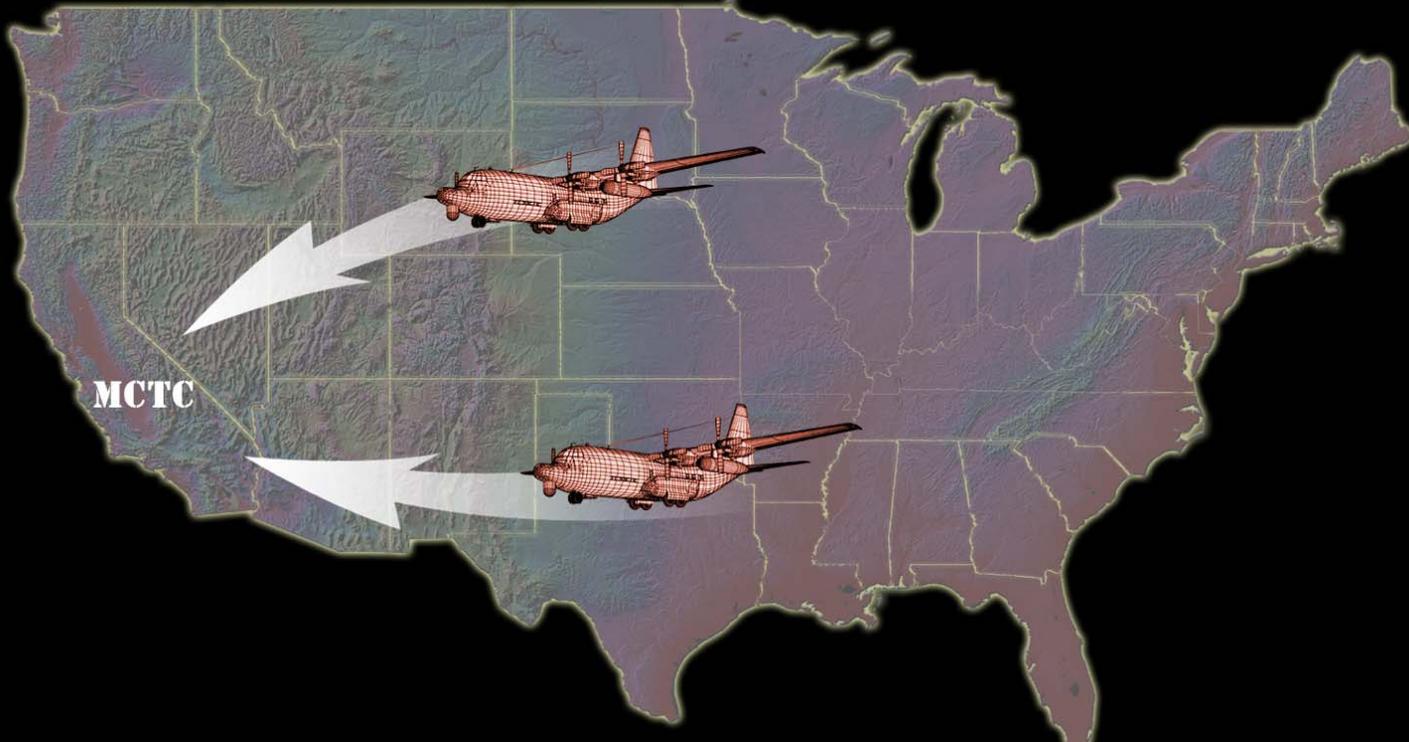


Homestation Training

OBJECTIVE FORCE TRAINING SOLUTIONS



PM TRADE



Deployment to MCTC

OBJECTIVE FORCE TRAINING SOLUTIONS



PM TRADE



**MCTC
Live Fire**



**MCTC
Force-on-Force**



Crews deploy
to MCTC
with
OneTESS

MCTC Training

OBJECTIVE FORCE TRAINING SOLUTIONS



PM TRADE



**Performs
Combat
Mission**



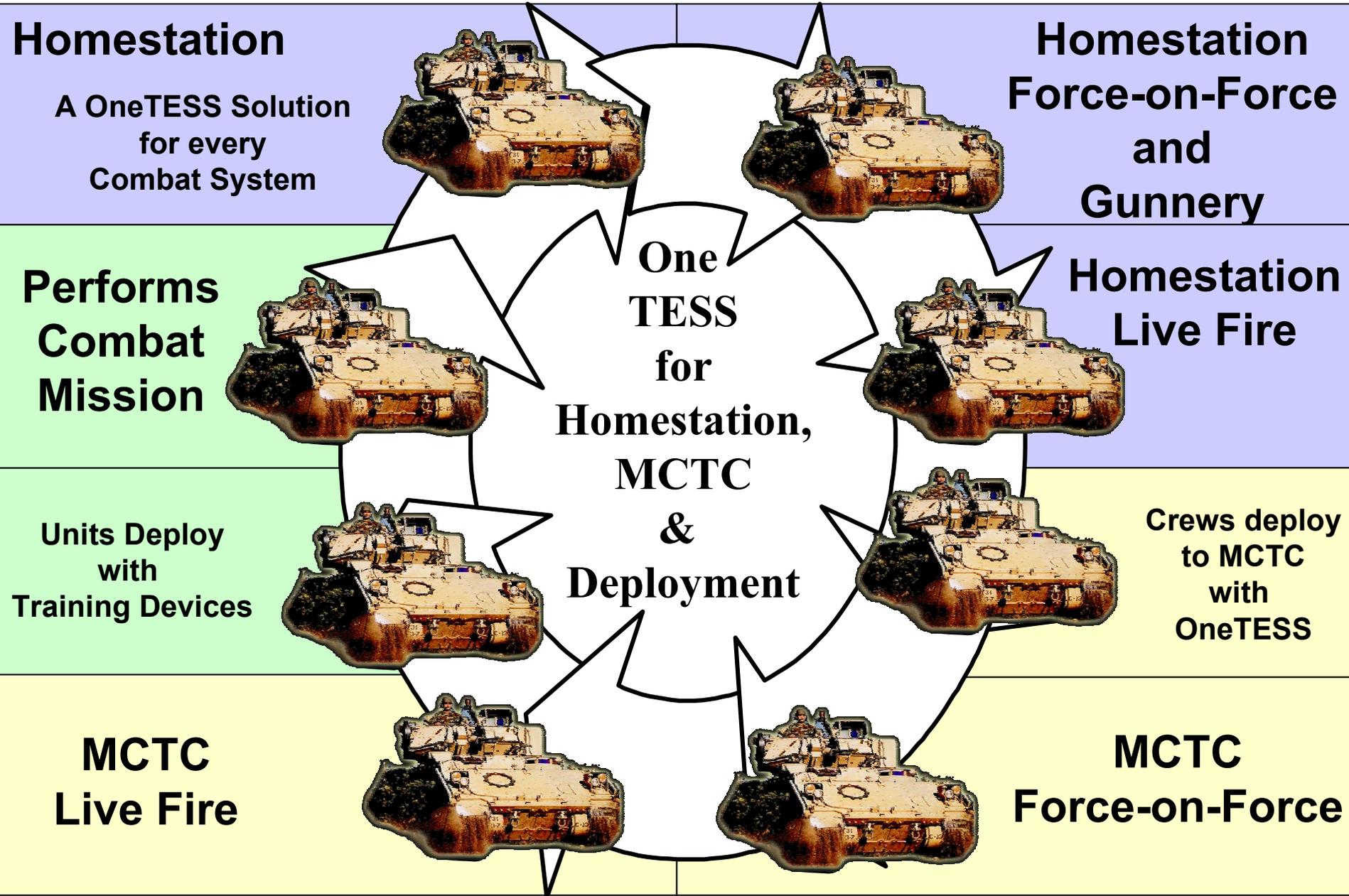
**Units Deploy
with
Training Devices**



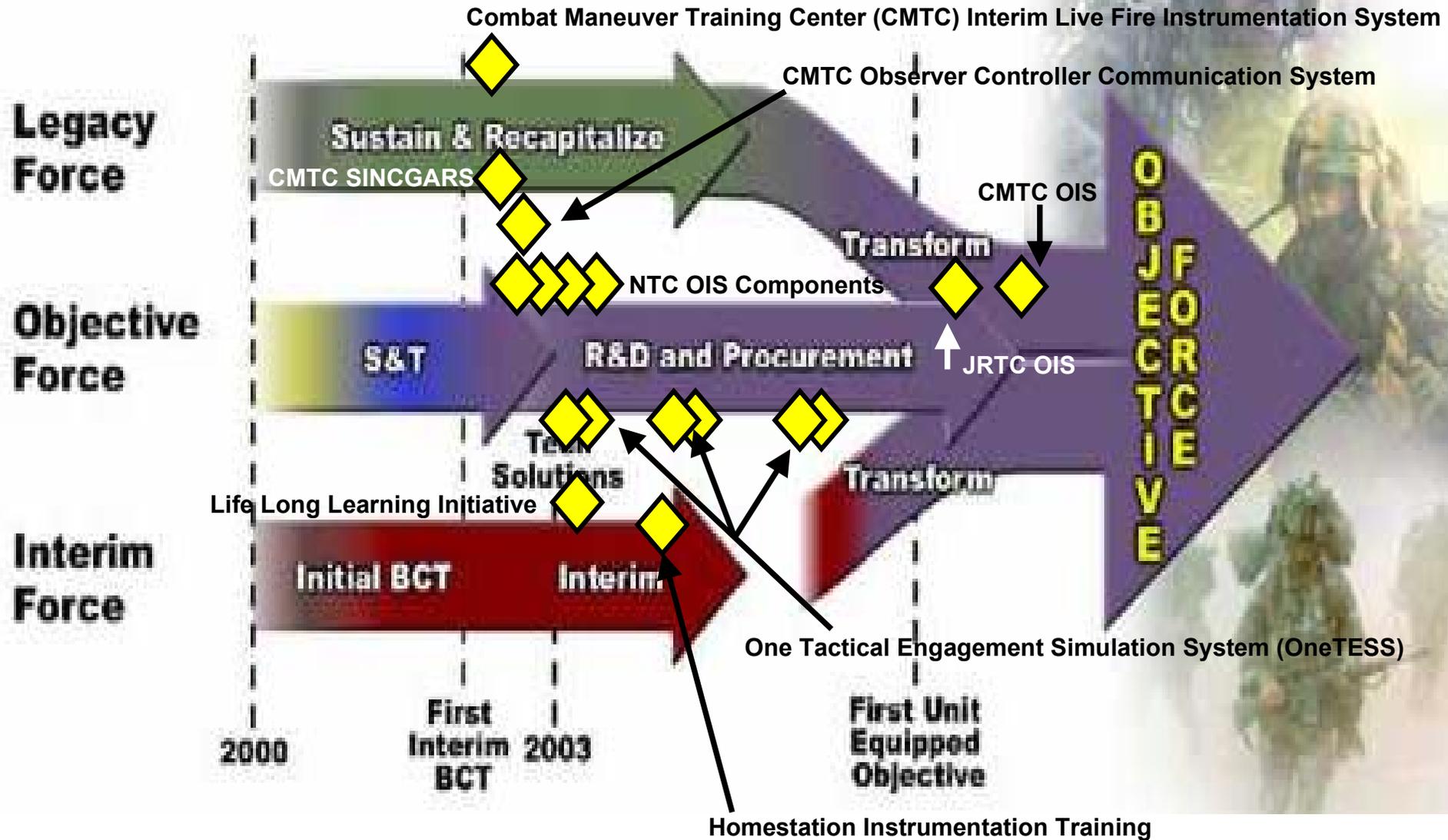
Combat Deployment



Live Training Solution: Homestation - MCTC - Deployment



Live Training Support for Army Transformation





Multi-Day event to provide detailed programmatic and technical information to industry on LTT, CTIA and OneTESS



- **Management Sessions: LSI Business Model.**
 - Overview of LTT Program structure and schedule.
 - Example Component Contracts will be presented.
 - “How to” descriptions for component competitions.
 - Discussions on LTT relationship to overall Army Transformation
 - Overview of process for protection of data and intellectual property rights.
 - Opportunity to ask questions and make suggestions.

- **Technical Session: CTIA Version 1.0 and the OIS Prototype.**
 - Architects orientation.
 - “How to” for CTIA component developers.
 - Demonstrations of existing components.
 - Discussion of key technical risks.

PM TRADE Industry Day
August 2002

OBJECTIVE FORCE TRAINING SOLUTIONS





NTC-OIS ACQUISITION CRITERIA

- **Supports IOT&E / IOC Dates**
 - Meets NTC-IS ORD Requirements
- **Provides CTIA Compliance / Conformance**
 - Supports Development of Common Components
 - Supports LTT Goals & Objectives
- **Efficient Execution Methodology**
 - Streamlined Management
 - Streamlined Component Acquisition Process
- **Executable Within Available Funding**
 - Supports Total Ownership Cost Reduction Initiatives
- **Encourages Component Competition**
 - Seeks Innovation
 - Broadens Competition Base



World Class
Training Environment



Future and Legacy
Combat Systems
Training
Compatibility

Live Training Support for Army Transformation

Combat Maneuver Training Center (CMTc) Interim Live Fire Instrumentation System

CMTc Observer Controller Communication System

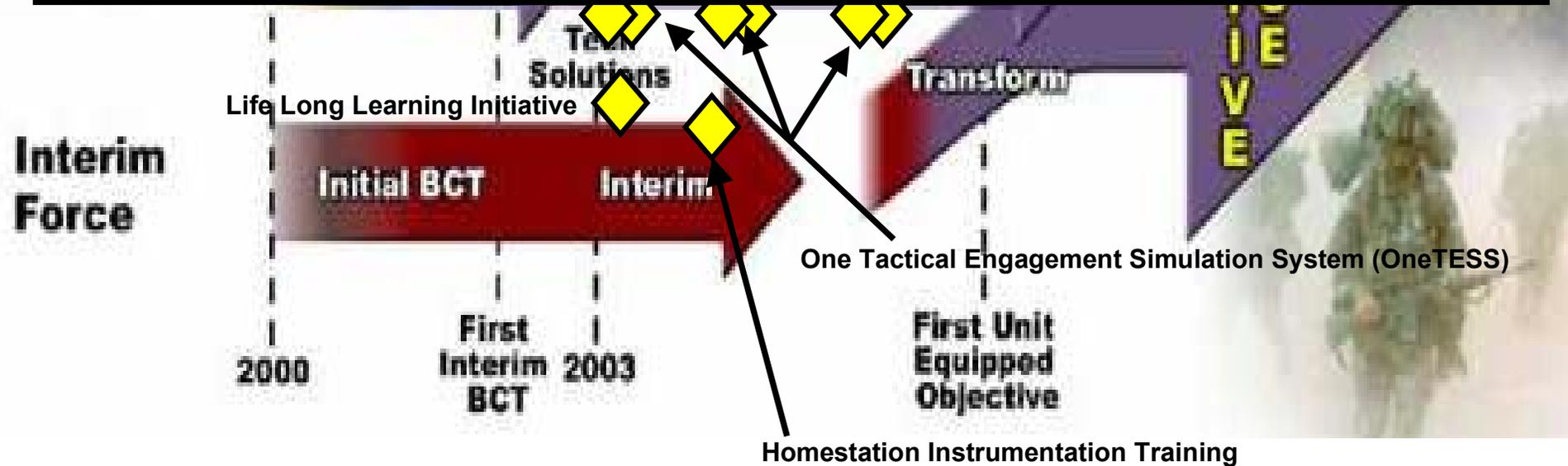
Combat Maneuver Training Center Interim Live Fire Instrumentation System

Competition Type: Full and Open Competition - Competitive Proposal

Period of Performance: Oct 02 - Sep 03

Estimated RFP Release Date: July 02

Estimated Award Date: October 02



Live Training Support for Army Transformation

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Combat Maneuver Training Center (CMTC) Interim Live Fire Instrumentation System

CMTC Observer Controller Communication System

CMTC Observer Controller Communication System

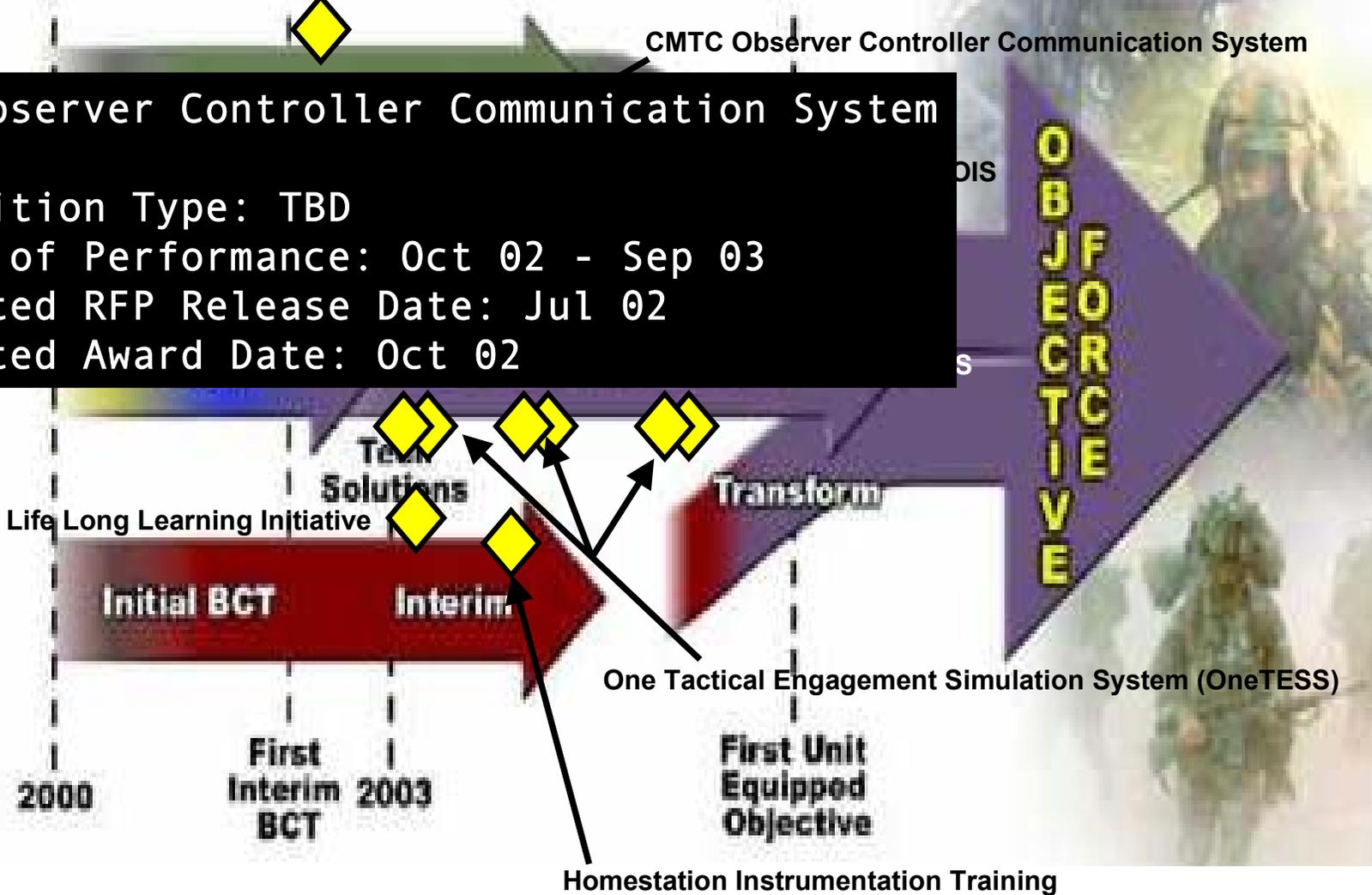
Competition Type: TBD

Period of Performance: Oct 02 - Sep 03

Estimated RFP Release Date: Jul 02

Estimated Award Date: Oct 02

OBJECTIVE



Life Long Learning Initiative

Team Solutions

Transform

Initial BCT

Interim

One Tactical Engagement Simulation System (OneTESS)

First Unit Equipped Objective

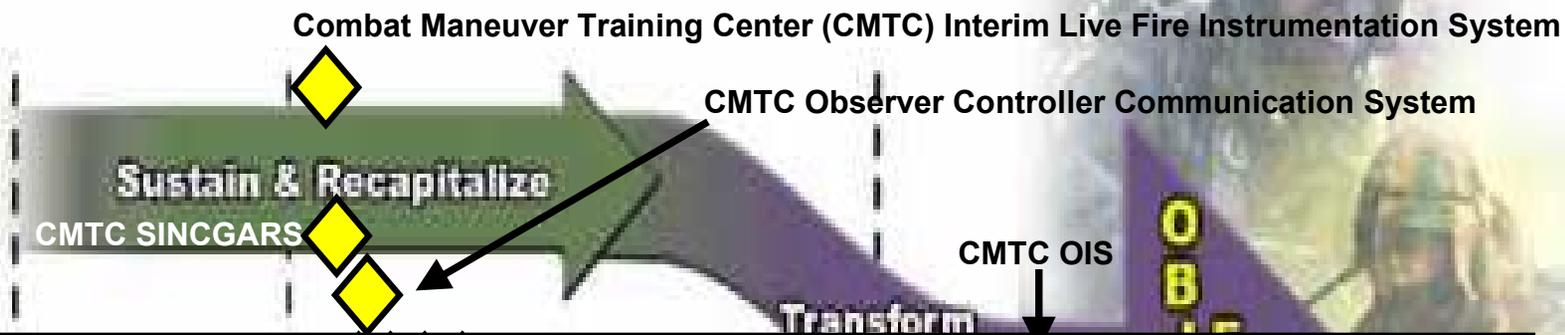
Homestation Instrumentation Training

2000

First Interim BCT
2003

Live Training Support for Army Transformation

Legacy Force



Objective Force

Life Long Learning Initiative

Competition Type: Full and Open Comp - Competitive Proposal

Period of Performance: Initial Effort - Sep 02 - Jun 03

Estimated RFP Release Date: Initial Effort - Jul 02

Estimated Award Date: Initial Effort - Sep 02

Interim Force

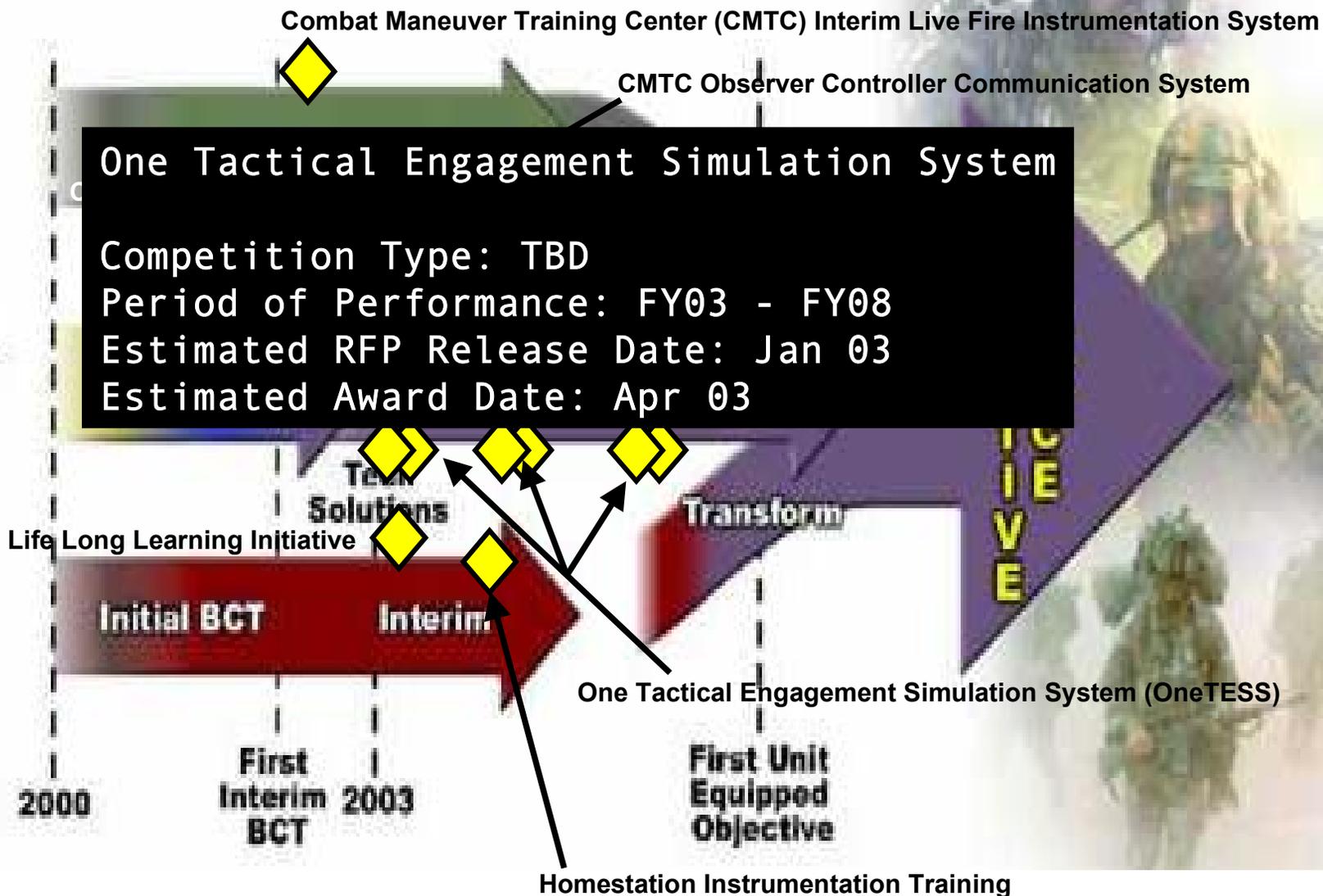


Live Training Support for Army Transformation

Legacy Force

Objective Force

Interim Force



Live Training Support for Army Transformation

Legacy
Force

Combat Maneuver Training Center (CMTC) Interim Live Fire Instrumentation System

Sustain & Recapitalize

CMTC Observer Controller Communication System

CMTC Single Channel Ground to Air Radio System (SINGARS)

Obj
Force

Competition Type: Full and Open Comp - Competitive Proposal

Period of Performance: Oct 03 - Sep 05

Estimated RFP Release Date: Jul 03

Estimated Award Date: Oct 03

Interim
Force

Life Long Learning Initiative

Solutions

Initial BCT

Interim

Transform

LIVE

One Tactical Engagement Simulation System (OneTESS)

2000

First
Interim
BCT
2003

First Unit
Equipped
Objective

Homestation Instrumentation Training

- **NTC-OIS LSI Role**
 - 15-25% of RDT&E
 - System Integrator to include: System Specifications and Design Documents (derived from Product Line documents), Life Cycle considerations, Interface Control Descriptions, Information System Security Planning, Test Planning, Component Validation to Performance Spec, Transition Support, Training, etc
- **Potential NTC-OIS/CTIA Hardware and Software Components**
 - 75-85% of total RDT&E
 - Most if not all of OPA

Anticipate at least 5 competitive contracts for large components, possibly...

- Tactical Engagement Simulation Systems (TESS) or “Player Unit” devices.
- Communications System
- Targets
- AAR system
- Computational Systems (computers in the Operations Center)

As many as 10 medium-sized contracts, possibly...

- Scenario Preparation Tools
- System Monitoring Capabilities
- Database
- Video Capture and Edit Tools

10 to 15 relatively smaller contracts, possibly...

- Spectrum analysis and studies
- Terrain database integration
- Logistics Planning and Products
- Environmental Impact Studies



Life Long Learning Initiative

Customer funded by Fort Gordon, GA to develop a variety of training support capabilities. Initial capability will provide training ability for soldiers to set up the TOC server, troubleshoot the Local network and verify configuration in a virtual environment.

Competition Type: Full and Open Comp - Competitive Proposal
Period of Performance: Initial Effort - Sep 02 - Jun 03
Estimated RFP Release Date: Initial Effort - Jul 02
Estimated Award Date: Initial Effort - Sep 02

PM Digitized Training

POC Info

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CMTC LF OIS

The CMTC-LF OIS will be a fixed-site, automated data collection and analysis system that will control the exercise and provide "OBJECTIVE" training performance feedback to support the Train-Assess-Train model. It will provide Live Fire connectivity to the Instrumentation System, lower CLS costs, and provide support for the digitized forces.

Competition Type: TBD

Period of Performance: TBD

Estimated RFP Release Date: July 06

Estimated Award Date: March 07

PM Digitized Training

POC Info

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NTC-0IS



The NTC-0IS will be a fixed-site, automated data collection and analysis system that will control the exercise and provide "Objective" training performance feedback to support the Train-Assess-Train Model.

Competition Type: CTIA Follow On
Period of Performance: FY03 - FY07
Estimated RFP Release Date: NA
Estimated Award Date: Feb 03

PM Combat Training Instrumentation Systems

POC Info

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CMTC OCCS



Develop and field a CMTC OCCS for the Hohenfels Training Area (HTA) at CMTC. OCCS is a communications system that operates on non-tactical frequencies to support all Observer Controller and other exercise controller requirements for the HTA. The CMTC Range Data Management Subsystem infrastructure will serve as the foundation of OCCS.

Competition Type: TBD

Period of Performance: Oct 02 - Sep 03

Estimated RFP Release Date: Jul 02

Estimated Award Date: Oct 02

PM Combat Training Instrumentation Systems

POC Info

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One TESS



OneTESS is a family of compatible live environment engagement capabilities that replicate weapon effects of combat systems in the conduct of collective training.

Competition Type: TBD

Period of Performance: FY03 - FY08

Estimated RFP Release Date: Jan 03

Estimated Award Date: Apr 03

PM Live Training Systems

POC Info

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CMTC SINGARS



Resolves SINGARS infrastructure problems for the CMTC Instrumentation System (CMTC-IS) at Hohenfels, GE. Correctly integrates the Range Monitoring and Control Subsystem into the CMTC-IS communications structure by eliminating these problems.

1. Power amps degrade functionality of the SINGARS radios (e.g. Only can key 15 of 96 radios at one time)
2. Inadequate antenna configuration.
3. Co-site problems (install 8 miles of fiber optic cable).
4. Transmit & receive antennas too close and of improper design.
5. Intermodulation problems.
6. Not compatible with NATO radios.

Competition Type: Full and Open Comp - Competitive Proposal

Period of Performance: Oct 03 - Sep 05

Estimated RFP Release Date: Jul 03

Estimated Award Date: Oct 03

PM Combat Training Instrumentation Systems

POC Info

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CMTC ILF IS

Develop and field a CMTC ILF-IS for 7th Army Training Command at Grafenwoehr, GE. ILF-IS is needed because the full-up CMTC LF-IS will be delayed until FY 09 to coincide with CMTC Objective Instrumentation System (OIS) fielding via the Live Training transformation project.

Competition Type: Full and Open Competition - Competitive Proposal

Period of Performance: Oct 02 - Sep 03

Estimated RFP Release Date: July 02

Estimated Award Date: October 02

PM Combat Training Instrumentation Systems

POC Info

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Live Training Transformation



The LTT Program will:

- Develop the Common Training Instrumentation Architecture (CTIA) and CTIA-compliant reusable components to implement Objective Instrumentation Systems (OISs) for the MCTCs, homestations, MOUT, and DMPCs.
- Provide system-wide architecture and standards for OneTESS

Competition Type: Full and Open Comp - Competitive Proposal

Period of Performance: TBD

Estimated RFP Release Date: Feb 03

Estimated Award Date: June 03

PM Digitized Training

POC Info

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Advanced Hornet Training System

The AHTS is a program, on behalf of the Project Manager, Mines, Countermines and Demolitions (PM MCD), to develop, integrate and field training devices and training support to the U.S. Army Engineer School, selected homestations and the three Maneuver Combat Training Centers.

Competition Type: Full and Open Comp - Competitive Proposal
Period of Performance: 36 Months
Estimated RFP Release Date: Jan 03
Estimated Award Date: Jun 03

PM Combat Training Instrumentation Systems

POC Info

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