

73rd MORSS CD Cover Page

UNCLASSIFIED DISCLOSURE FORM CD Presentation

712CD

For office use only 41205

Training Capabilities AoA

21-23 June 2005, at US Military Academy, West Point, NY

Name of Principal Author: Fred Hartman, FS

Principal Author's Organization and address:

Office of the Secretary of Defense
Readiness & Training
4000 Defense Pentagon, Rm 1E537
Washington, DC 20301-4000

Phone: 703-693-4381

Fax: 703-575-3710

Email: fred.hartman@osd.mil

Original title on 712 A/B: Training Capabilities Analysis of Alternatives (AoA) Update

Revised title: _____

Presented in (input and Bold one): (**WG 22**, CG____, Special Session ____, Poster, Demo, or Tutorial):

This presentation is:
UNCLASSIFIED AND APPROVED FOR PUBLIC RELEASE

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 21 JUN 2005		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE Training Capabilities Analysis of Alternatives (TC AoA)Update				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Office of the Secretary of Defense Readiness & Training 4000 Defense Pentagon, Rm 1E537 Washington, DC 20301-4000				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES See also ADM201946, Military Operations Research Society Symposium (73rd) Held in West Point, NY on 21-23 June 2005. , The original document contains color images.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	18. NUMBER OF PAGES 18	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

***Training Capabilities Analysis
of Alternatives (TC AoA)
Update***

***MORSS – WG 22
21 June 2005***

**Fred Hartman
Director JAEC, OUSD(P&R)**



Background

- **AoA Findings and Recommendations**
- **Way Ahead**
- **Discussion**

Background

Training Capabilities AoA

- **Program Decision Memorandum 1, 12 Dec 02**
 - **Terminated JSIMS on 30 Sep 03 (Block 1)**
 - **Conduct an Analysis of Alternatives (AoA) beginning in FY03**
 - **Identify cost-effective methods for Joint & Service Training**
- **AoA Guidance signed by USD, Acquisition Technology & Logistics (AT&L) Jul 03.**
 - **Senior Steering Group (SSG) Co-Chaired by USD (P&R) and JFCOM**
 - **SSG included training stakeholders from OSD, Services, Joint Staff, and Intelligence Agencies**
 - **Final Report completed 30 Jul 04**

Joint Simulation System (JSIMS) Impact

Training Capabilities AoA

- **Directed by Program Decision Memorandum 1, 12 Dec 02**
 - **Revise program to complete Block 1 software (Sep 03)**
 - **Establish a software support facility (SSF) managed by JFCOM**
 - **Transfer all program software, licenses, integration hardware and documentation to the JFCOM SSF**
- **Final JSIMS testing conducted March 2004**
 - **JSIMS was not ready to support joint training exercises**
 - **Potential for reuse of concepts, functional federates, and common software components of JSIMS in other federations**
- **SSF has evolved to Joint Development & Integration Facility (JDIF)**
 - **USJFCOM using former JSIMS Integration Lab in Orlando, FL**
 - **Focused on supporting Joint Force Trainer federations**
 - **Continues to harvest JSIMS capabilities to support joint training federations**

Outline

Training Capabilities AoA

- **Background**
- ✓ **AoA Findings and Recommendations**
- **Way Ahead**
- **Discussion**

Findings & Observations

Training Capabilities AoA

- Management & oversight more than technology has caused failure of previous joint training simulation efforts
- Current joint training has been largely based on training exercises supported by simulations
 - Not all training issues are cost effective for large scale simulation applications
 - Alternative training methodologies may provide more cost effective solutions for frequent training of COCOM and JTF staffs
- Intelligence must become part of training audience not just a training aid
- Not all Joint training issues were resolved within time and resources allotted to the AoA Team
 - Detailed programmatic details and implementing actions worked in Fall 04 Program/Budget process

SSG Recommendations

Training Capabilities AoA

- **Management Decisions**
 - **Joint Training Functional Capabilities Board**
 - **Joint Requirements Office (simulations) at JFCOM**
 - **Transition SSG Oversight to T2 Exec Steering Group**
- **Simulation Options**
 - **Constrained enhancements to Base Case for FY 06-11**
- **Re-engineering Training Options**
 - **Re-engineering Study with Prototyping in COCOMs**
- **Acquisition Prototype Options**
 - **Three year prototype led by SOCOM with JFCOM**
- **Include Intelligence as partner in future joint training**
 - **Working constructive simulation federation content Intel Community and JFCOM**

Outline

Training Capabilities AoA

- **Background**
- **AoA Findings and Recommendations**
- ✓ **Way Ahead**
- **Discussion**

Management Way Ahead

Training Capabilities AoA

Management Decisions

- **Joint Training Functional Capabilities Board (FCB)**
 - Tri-Chair by OSD (P&R), Joint Staff J7, and JFCOM
 - Focused on analyzing capabilities of existing and future programs, projects and initiatives, Live-Virtual-Constructive environment
 - Officially chartered in Sep 04 by JROC
- **Joint Requirements Office (simulations) functions at JFCOM**
 - Joint Training Requirements Group met in March 2005 validating and updating TC AoA Final Report training gaps and findings
 - Managing the development and integration of joint models and federations
 - Coordinating the Joint LVC JCD with JNTC JMO and FCB
- **Transition SSG Oversight to T2 Exec Steering Group**
 - Completed with briefing to 1 Oct 04 T2 ESG and regular updates provided T2 JIPT and SAG Meetings

Simulation Way Ahead

Training Capabilities AoA

Simulation Enhancements

- Built a Joint Force Trainer M&S Toolkit that is supporting Joint National Training Capability and Joint Task Force Cdr and staff training, Functional Component Cdr and staff
 - Core of the constructive Toolkit are two federations using existing Joint, Service, and agency M&S applications federated in an HLA environment to meet Joint training needs.
- Supported JNTC Initial Operating Capability (horizontal, vertical and integrated), Mission Rehearsal Exercises for OIF/OEF, and planned support for MRXs and Joint training events on schedule for remainder FY05
 - Supporting:
 - Joint Operational Concepts
 - Major Combat Operations (MCO)
 - Stability Operations
 - Homeland Security (HLS)
 - Strategic Deterrence
- Partnership with U.S. Allies, NATO, PfP, and Government Agencies
- Adhering to DoD standards and architectures for flexible, scalable, efficient and deployable simulation(s), federation(s) or bridged federations to train multiple echelons simultaneously

Re-engineering Training

Training Capabilities AoA

- Exercises supported by large simulations are not appropriate for some types of joint training
- Must include individual as well as collective training in Learning Continuum
- Recommended alternative training methodologies
 - “Lightweight” simulations / federations
 - Off the shelf (GOTS/COTS) products
 - Standard Scenario Generation software and data
 - Massively multi-player gaming applications
 - Best for small audience (<50) distributed seminar games
 - Pre-training for large exercise participants
 - Story driven training
 - Non-combat skill areas such as peacekeeping, crisis action
 - Unique functional federates (specialty models)
 - Instructor support tools
 - Integrate with light federations
 - Embedded training (C4ISR systems)

Other AoA Actions

Training Capabilities AoA

- **Need Intelligence Community as full partner in Joint and Service training**
 - USD(I) leading effort with JFCOM for Joint National Intelligence Training Federation (JNITF)
 - One stop access to Intel for training environments
- **Related issues – highlighted but not solved in AoA**
 - **Multi-Level Security for training systems**
 - Need Intel Community policy and procedures for training and operations
 - **Full Global Information Grid (GIG) Integration to include Training Enterprise Services**
 - Build distributed training enhancements now to be compatible with the GIG
 - Data issues are a large effort

Post - AoA Status / Update

Training Capabilities AoA

- **Completed TC AoA Program / Budget negotiations**
 - PDM II, Dec 04 provided offsets for Alternatives #4 and #5
 - Alt #4, Acquisition Prototype
 - Alt #5, Re-engineering Training
 - Commitment at JROC to begin funding of post-AoA activities for enhanced simulations, other training systems, and an acquisition prototype
 - Issue Paper also identified offsets for Alt #3, Simulations
- **Implementing recommendations in AoA Final Report**
 - Management actions in place
 - Blended Course of Action for future training enhancements for both simulations and other training system enhancements
 - Acquisition prototype scheduled for FY 06-08
 - Conducting studies in FY 05

Questions & Discussion

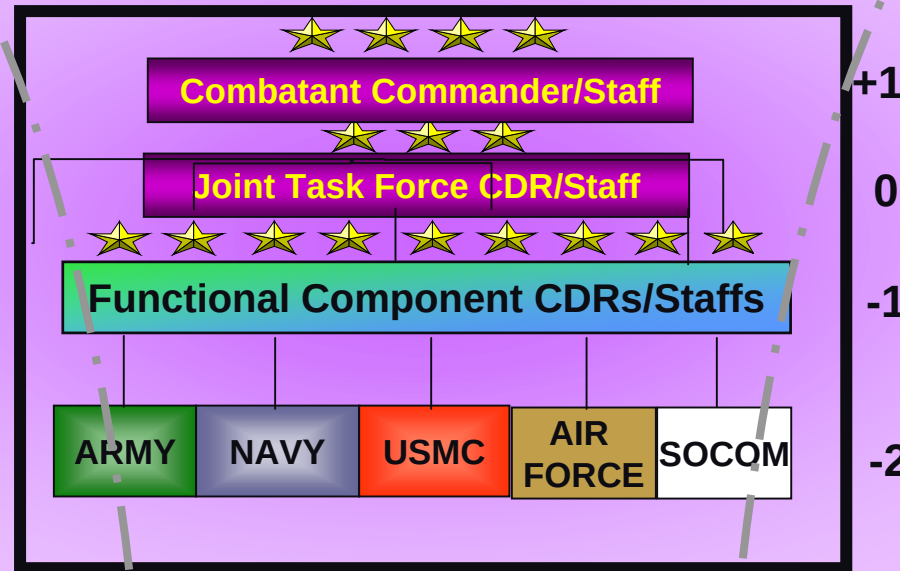
Bounded Scope

Training Capabilities AoA

Strategic

Operational

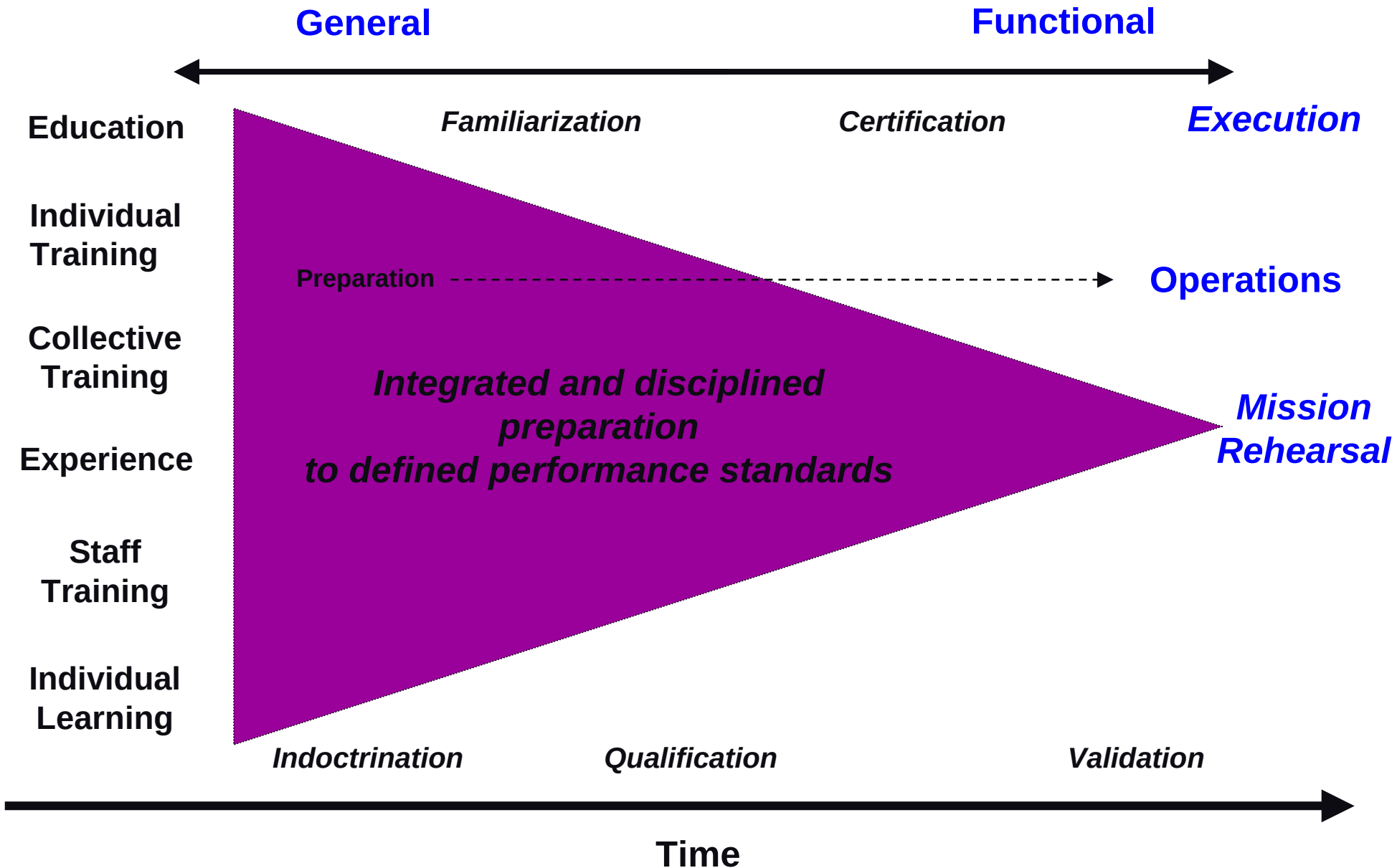
Tactical



INTEGRATION OF
JOINT & COMBINED
EFFECTS / SYSTEMS
TO LOWEST LEVEL

Joint Training Continuum

Training Capabilities AoA



L-V-C Architecture

Training Capabilities AoA

