



Technology Sharing in the New World: The Integration of Army Test and Training Requirements with Civilian Law Enforcement

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Agenda

- Forecasting the Army Future
- Engaging Army Requirements
- Correlating Law Enforcement Needs
- Observations and Obstacles
- The Future
- Summary



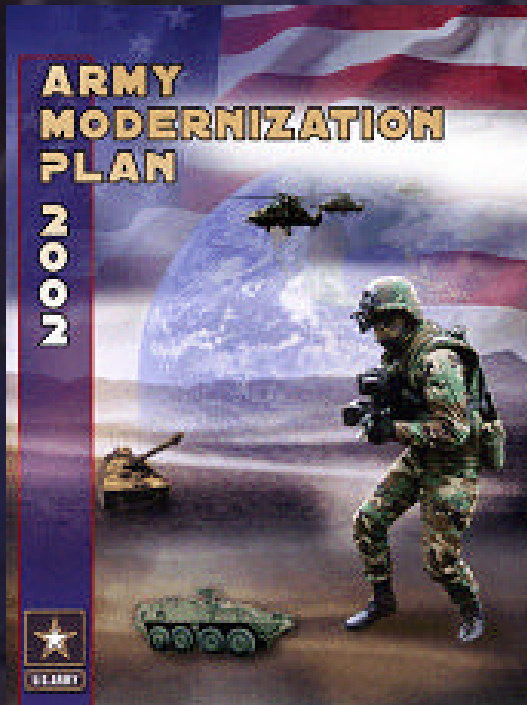


1. Forecasting the Army Future





ATTIC Tracks the Army Future



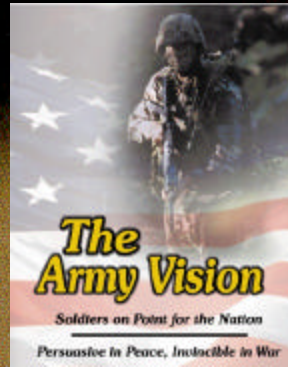
Schedules

Plans

New Technologies

Future Projections

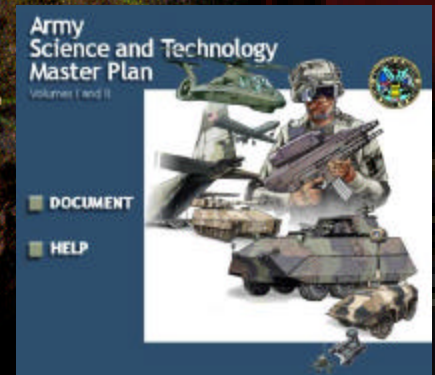




ATTIC Connects Today's Testers and Trainers to the Army of the Future



ENEMY ARMORED UNIT ADVANCING NW 38.5MPH ... GPS
MBT ... 110 APCS IN REAR ... EXPECT
HOURS ... PREPARE FOR VIDEOCONFERENCE
POSITION



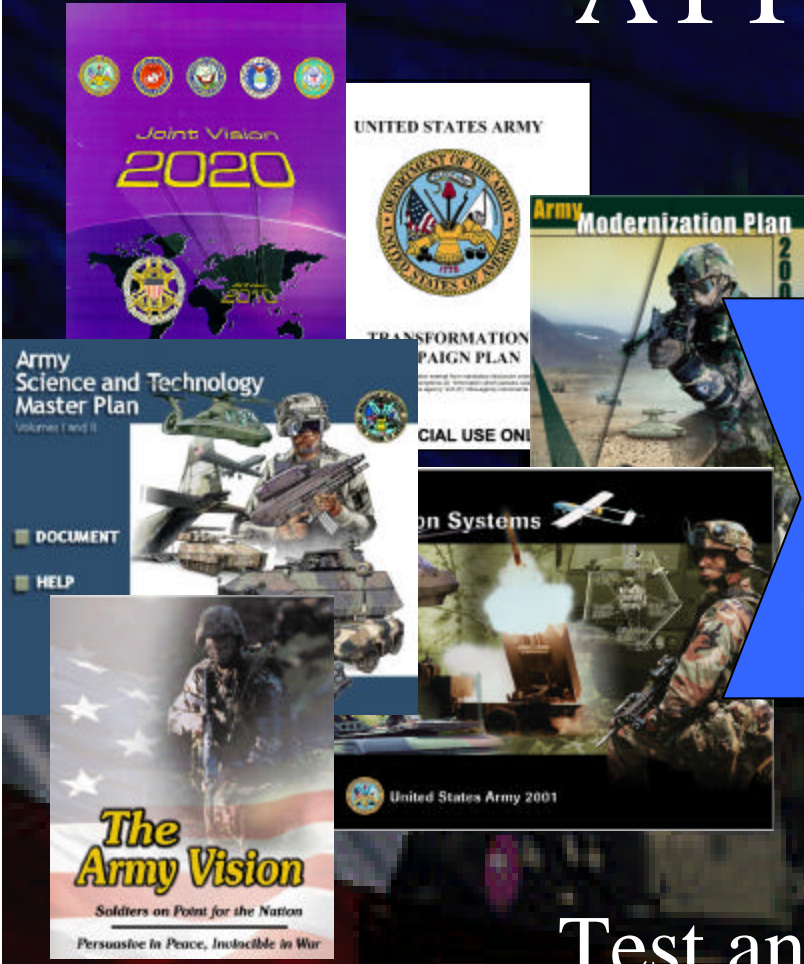
ATTIC Connects

Transforming
Transformation:
From Volumes
To Mouse-Clicks

Weapon System Name	Reference
Abrams	182
Advanced Aviation Forward Area Refueling System	MPDC
Advanced Field Artillery Tactical Data System (AFATDS)	8
Air/Missile Defense Planning and Control System	12
Airborne Reconnaissance Low	216
Aircrew Integrated Systems	MPA33
All Source Analysis System	14
Apache Longbow	184
Armored Security Vehicle	218
Army Key Management System	24

All Legacy Systems: 83 [Print List](#)

Test and Training Needs
With
Future Requirements Insights





2. Engaging Army Requirements



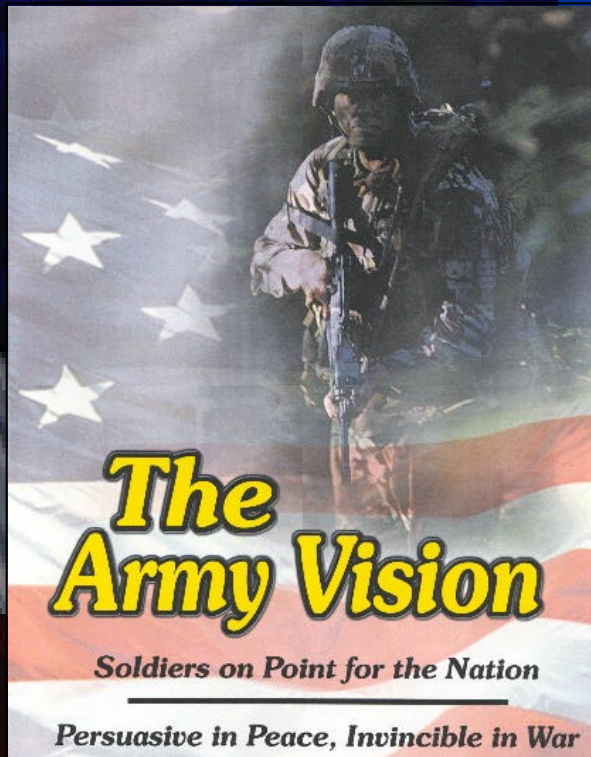
ATTIC Findings



- ATTIC finds mutual Army test and training requirements
- In open forum with Industry, Academia, other Government, and other DoD
- And makes programmatic recommendations to the Army Leadership and the Army POM

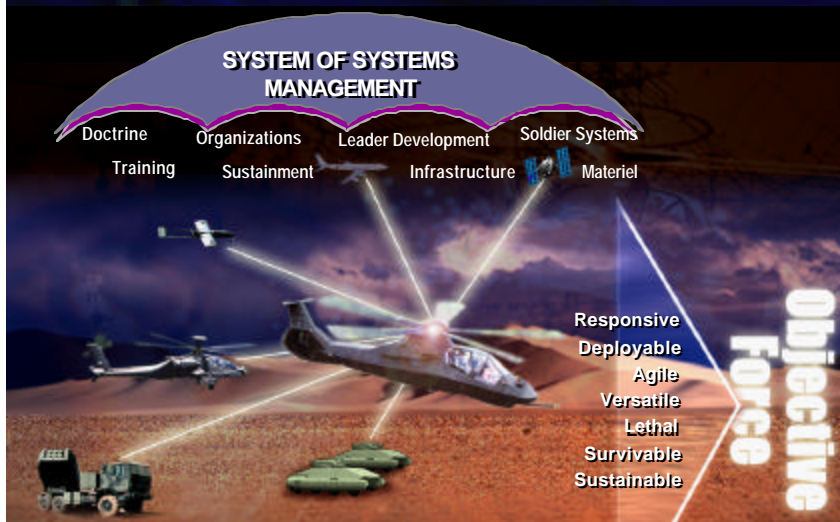


Four Sample Findings



- **Common Vehicle Interface**
- **Embedded Testing and Training**
- **Standard Army Time, Space, and Position Information (TSPI)**
- **Standard Army Dismounted Troop Instrumentation**

Need for the Systems

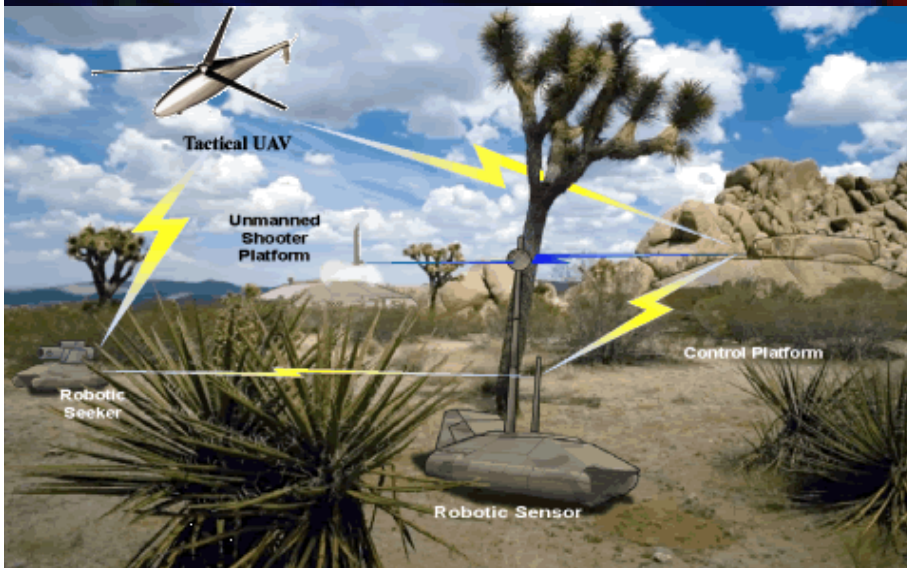


*FCS is a
Distributed
Weapons Platform*

Synchronization i
and Networked O

- Must revise our test, training, and combat systems to accommodate
- Integration of these instrumentation standards should speed testing, training, and fielding of the FCS
- Four initiatives - one goal: Mission Success in FCS Fielding!

Need for the TSPI System



Common Army TSPI:

- **Currently 18 TSPI systems in use/development across Army testing and training**
- **Distributed weapons platform requires awareness of TSPI for multiple system elements**

Need for the Common 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**



Need for Embedded Testing and Training

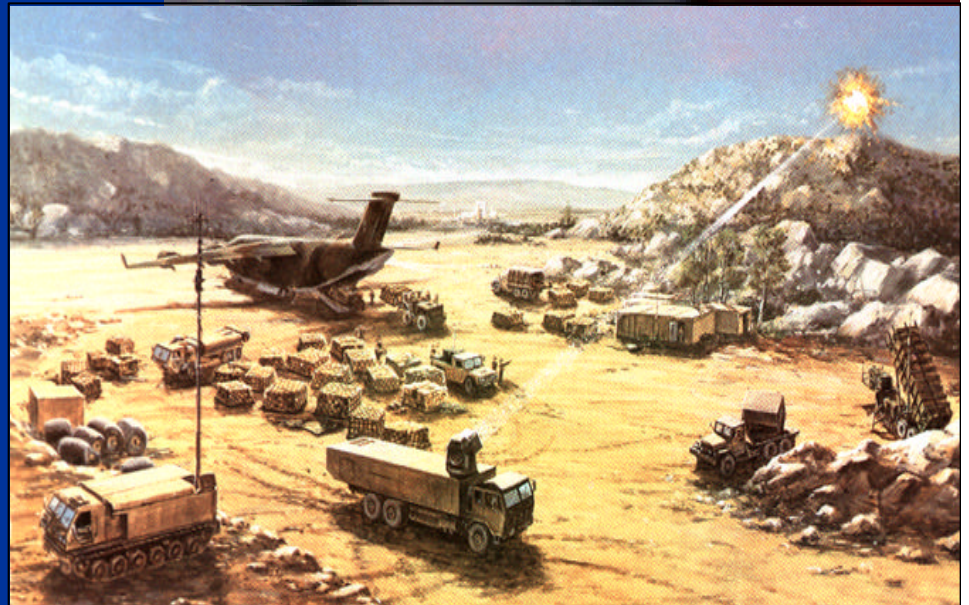
- **Embedded Testing and Training:**

- **Permits deployed forces to maintain readiness**

- **Immediate ability to train**

- **Immediate access to vehicle diagnostics**

- **Builds on Common Vehicle Interface protocols**



Need for 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**



3. Correlating Law Enforcement Needs



ATTIC Connects



Army and Law Enforcement
Technologies

ATTIC Law Enforcement Methodology

- Progressive Expansions
- Initial Contact
- Signed letter of intent from Civilian Law Enforcement (CLE) Agency
- Weekly News Updates to Law Enforcement
- Notification of Conferences and Events
- Providing Resources to Identify and Unify CLE Requirements among CLE community
- Tie to Army Requirements Systems



ATTIC Providing

- Access to Web Utilities **FREE OF CHARGE** to Law Enforcement to share technologies
 - Web Site
 - Listserv
 - Requirements Collection/Sharing Tool Underway





4. Observations and Obstacles



The background of the slide features a photograph of three soldiers in military uniforms and helmets. They are positioned in front of a large American flag, which is draped across the scene. The lighting is somewhat dim, giving the image a serious and somber tone. The soldiers are looking towards the camera, and their faces are partially obscured by shadows and the texture of their gear.

Operational Theory

Army: “Win the Nation’s wars”

Law Enforcement: “Enforce the Nation’s
Laws”

CONSTRAINTS ARE VERY DIFFERENT!

The background of the slide is a photograph of three soldiers in full combat gear, including helmets and tactical vests, standing in front of a large American flag. The flag's stars and stripes are visible, with the blue field on the left and the red and white stripes on the right. The soldiers are looking towards the camera, and the overall lighting is somewhat dim, giving the image a serious and somber tone.

Training Theory

- Army: “Train as you fight”
- Law Enforcement: “You won’t die today”

Kill/Fight Methodologies Critical to Training

Structural



- Army:
 - National/International Organization
 - One Command Structure
 - Large Budget
 - Coordinated Mission and Directives
- Law Enforcement:
 - THOUSANDS of Disparate Organizations
 - VERY Limited Budgets
 - Uncoordinated, Regional Missions and Directives

The background of the slide is a close-up, slightly blurred image of the American flag, showing the stars and stripes in shades of blue, red, and white. The flag is draped and appears to be in motion.

Perceptions

- Army:
 - Law Enforcement aware of military technologies and approaches: FALSE!
 - Law Enforcement ready to integrate military technologies: LIMITED/FALSE!
 - Law Enforcement can afford to operate and maintain military technologies: LIMITED!
 - Law Enforcement can accept military technologies: LIMITED!
 - Army has better systems than law enforcement for use (pride of achievement): LIMITED/FALSE!

Perceptions

- Law Enforcement:
 - Awareness of Army systems generally focuses on Weapon Systems and Vehicles
 - Requirements unclear . . . CLE leverages off one another in mutual aid structure (Not having does not equate to needing)
 - Concept of R&D generally alien to CLE
 - NO CENTRALIZED ORGANIZATION TO CONGEAL REQUIREMENTS NOR INFORMATION

Real Life Examples





5. The Future



The background of the slide features a faded American flag on the left side and a group of people, possibly a community or a group of students, on the right side. The text is overlaid on this background.

Future Directions

Must collect and accept requirements from all communities **WITHOUT JUDGMENT**

Must gain understandings and common language to work together

Must accept that one technology may have multiple and very distinctive uses



Future Directions

UNDERSTANDING IS THE KEY

Unexpected Common Technologies:

- High bandwidth radio based internet
- C4I Systems
- Non Lethal Weapon System Training
- NLOS Training?
- Shared Training Requirements

The background of the slide is a photograph of an American flag, with the stars and stripes clearly visible. In the foreground, there are several soldiers in military uniforms and helmets, some looking towards the camera and others looking away. The overall tone is serious and patriotic.

UNDERSTANDING

Who is the true leader in:

- Crowd Control?
- MOUT Operations?
- Less than lethal engagements?
- Providing humanitarian relief?

**TRUTH: BOTH COMMUNITIES CAN LEARN
FROM EACH OTHER!!!**



6. Summary



Summary

- Military Technologies can benefit law enforcement
- Naivety is our enemy in working these processes
- Understanding is essential to working together
- Our missions are more different than most realize
- Our technologies are more similar than most realize
- Neither side is dominant, better, nor more capable than the other – all approaches must come from respect and equitability perspectives
- The benefits to the Military, Civilian Law Enforcement, and the Taxpayer are substantial



7. Contact Information





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