

US Army ATE

Apache



M1A1
M1A1 AIM



M109A6
Paladin



M992A2
(FAASV)



M2/3A2
M2/3A2 ODS



M2/3A3



BCV ODS
BCV A3



C2V2



M3A2



Kiowa Warrior



M3A3 BFIST



M1068A3



M113A3



DOD ATE Policy

- DoD Acquisition Decision Memorandum for ATE, 30 March 1995
 - IFTE is the Army approved ATE Family
 - No new DSESTS Procurements/Development
- ASALT DoD Policy for ATS, 28 July 2004
 - Services should use approved ATS Families
 - IFTE is the Army approved ATE Family



Mission & Vision

MISSION

Manage the acquisition and fielding of General Purpose, Automatic and Manual Test, Measurement, and Diagnostic Equipment, and Calibration Standards while providing the Army with superior combat systems support materiel to accomplish its maintenance during peace and war.

VISION

Enable systems to be fully capable of trouble shooting themselves utilizing embedded diagnostics; wireless connectivity; and require test equipment only to the extent that on-board diagnostics cannot troubleshoot the system.

Overview

TMDE Modernization Program



Provides Field and Sustainment Level testing of weapon systems operational tolerances.

Maintenance Support Device



Used by all weapon systems maintainers at Field and Sustainment Levels to perform At platform maintenance.

Calibration Sets



Performs Sustainment Level calibration / quality assurance for General Purpose Electronic Test Equipment that supports weapon systems.

Next Generation Automatic Test System

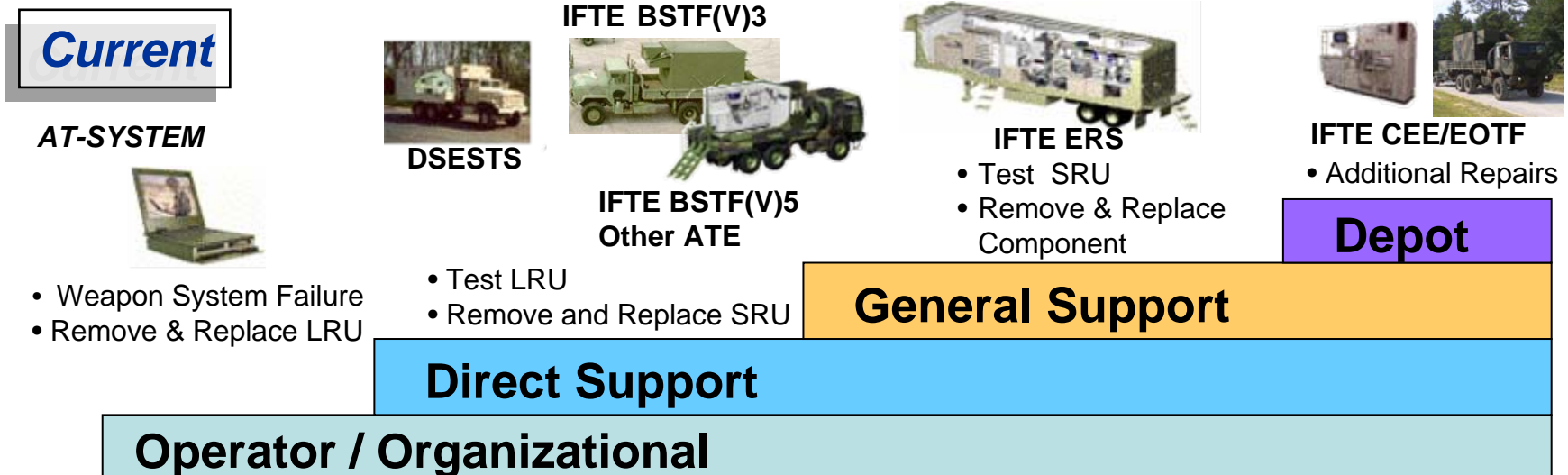


Supports repair of Line Replaceable Modules at Field and Sustainment Levels for multiple weapon systems.

Innovation for Today and Tomorrow's Expeditionary Forces

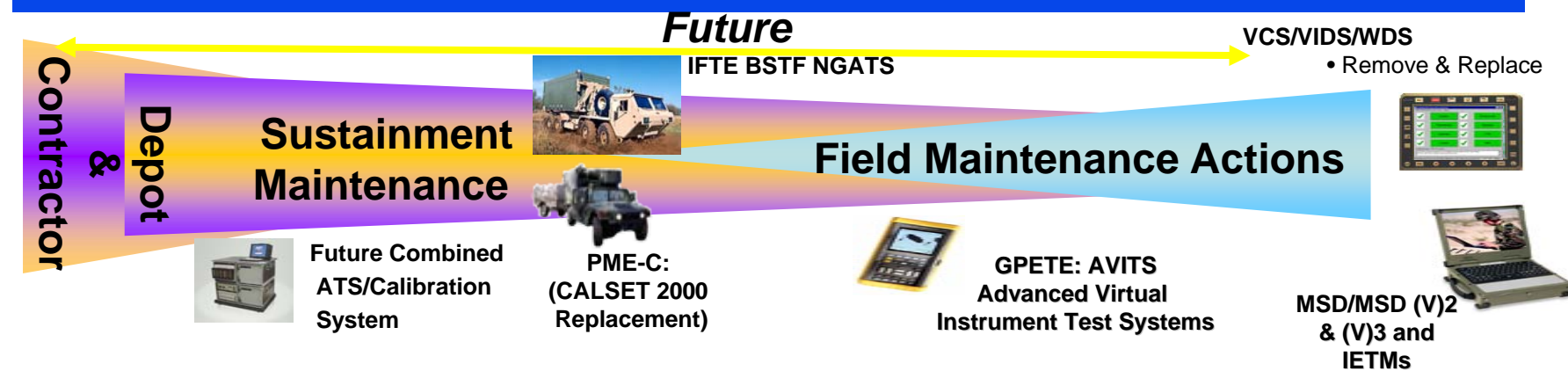
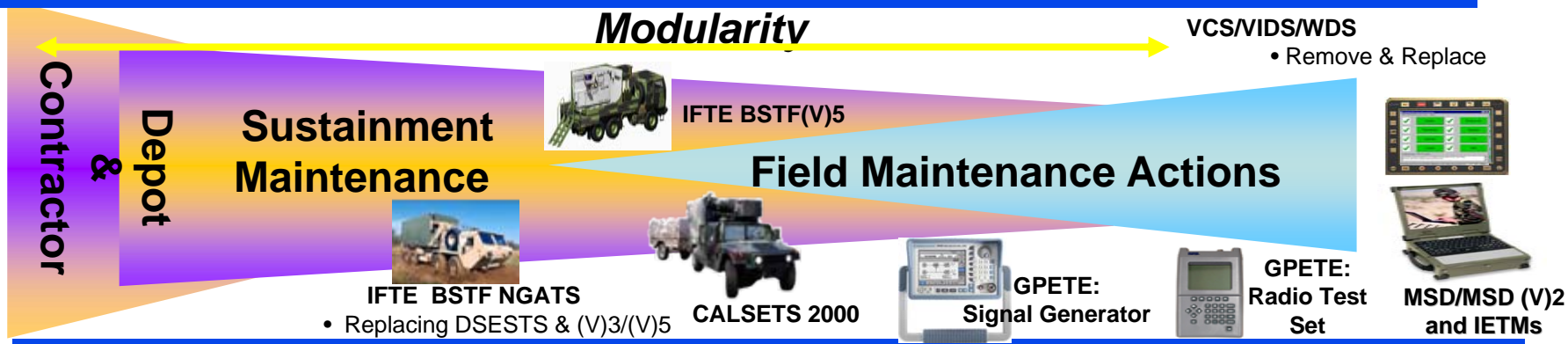
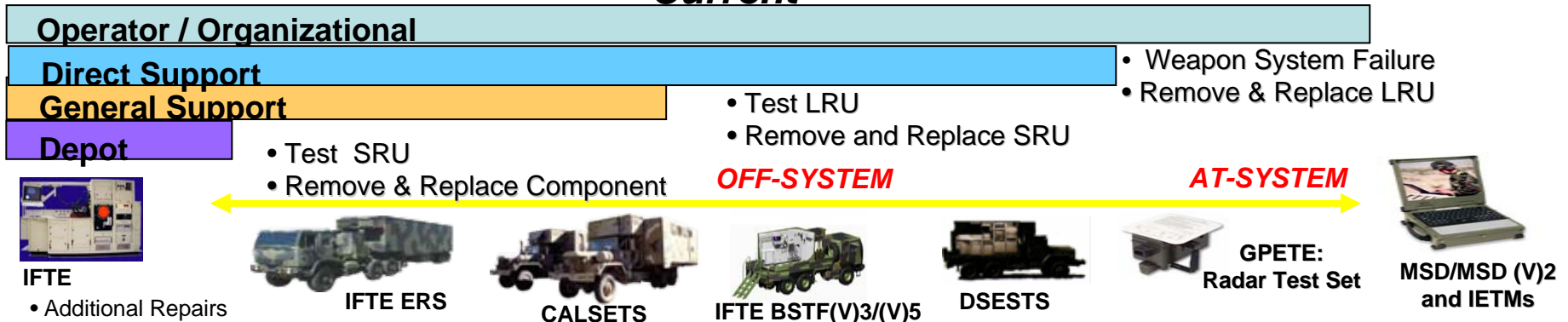
Army ATE In Transition

- Army is in the midst of:
 - Transition to Modular Brigades
 - Transition to 2 Level Maintenance
 - PM Heavy Brigade emphasis on Embedded Diagnostics for legacy and future systems
 - FCS vision still evolving
 - Apache support in limbo EETF vs. EOTF
 - Dynamic Budget Shifts effect Maintenance Landscape



Vision Strategy

Current



CALSETS



Measuring RX Workstation (Communications)



IFF Calibrator S parameter



Chemical Det/Mon Calibrator

Calibration Equipment Modernization 141 Sets at 55 world-wide locations supporting 568K items. 52 ARNG Sets supporting 267K items.

Photonic Calibrators



Pneumatic Pressure Calibrators



Calibration Sets

AN/GSM-421



AN/GSM-705



CALSET 2000
Deployable Split Base Capability

AN/GSM-286



AN/GSM-287



Reference
Laboratories



Army Primary
Laboratory



APATS

- Maintenance Support Device (MSD)

- Army standard third/fourth generation at-platform tester
- Provides hardware for IETM test and diagnostic applications, including interface to BIT/BITE, logistics interfaces, and data/software upload/download... at Platform
- In production: 13,000+ delivered to date
- MSD supports weapon systems such as:



ABRAMS	FIREFINDER	HYEX	M917
APACHE	FMTV	JAVELIN	PALADIN
ASV	FOX	JTAGS	PATRIOT
AEC	HAB	JTUAV	PLS/HEMTT/HET
AVENGER	HERCULES	KIOWA	RTS-M
BRADLEY	HIMARS	MLRS	SBCT
CHINOOK	HMMWV	M915	TUAV
DUECE	HUNTER	M916	



OPATS

NOW



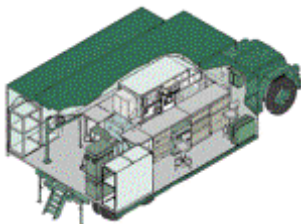
EETF



IFTE V3



IFTE V5



DSESTS

NGATS

- Standardizes Army ATE into common solution
- Replaces EETF, IFTE V3 & V5, DSESTS & other
- Reduces log footprint
- Increases mobility, deployability, C-130 transportable
- Facilitates MOS consolidation
- Screens for NEOF
- Increases weapon system availability
- Assures compliance with Joint NxTest architecture
- Use of Synthetic instruments
- Preserve legacy TPS's
- NetCentric ready



IFTE NGATS Status

- First Delivery late Dec '06
- System Installed in Shelter
- ARGCS Technology Demonstrated Q3 '07
 - CTI, Test Instruments and Power Supply
 - Common IFTE/ARGCS Instrument S/W
 - NetCentric Ready and Demo at JUMA
 - Paladin, M1 & BFV
- US Army MSD Computer Based
- Initial TPS Rehost Validation (M1) early Mid 2008



- | | |
|--|------------------|
| • Proof of Principal Completed Dec 04 | ✓ |
| • System Development with ARGCS Insertion Oct 05 | ✓ |
| • Pre-Production Delivery (Picatinny) Dec 06 | ✓ |
| • HBCT Delivery Two Systems Sept 07 | ✓ |
| • NGATS DT | Complete Sept 7 |
| • NGATS OT | Complete Nov '08 |

IFTE NGATS Fielding ARGCS Technologies



Summary

- The Army is moving forward on
 - Reducing ATS complexity
 - Log footprint
 - Support equipment cost
- Army commitment to change from four levels of maintenance to two levels
- Other Related Army ATS Activities
 - EETF vs. IFTE V5 for Apache
 - HBCT Condition Based Reliability Analysis (Cobra) Project