



NDIA ATE Army Liaison Report

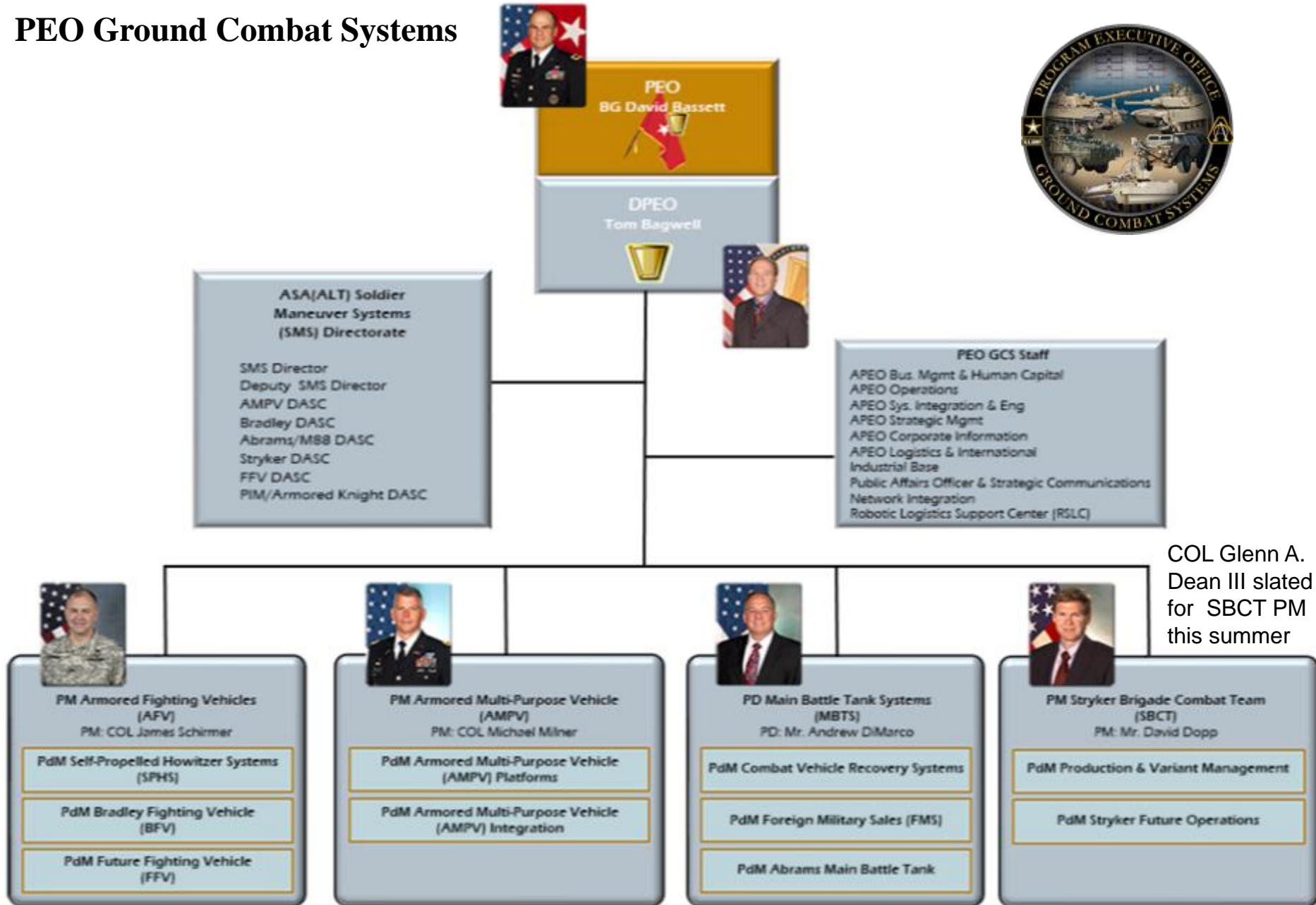
29 April 2015

Scott Brown

Agenda

- US Army TACOM LCMC Program Updates
 - PEO GCS
 - Organizational changes
 - GCS Platform Modernization
 - PEO CS&CSS
 - JLTV
 - TMDE Acquisitions
 - Picatinny ATSD
 - Army Fiscal Update

PEO Ground Combat Systems



COL Glenn A. Dean III slated for SBCT PM this summer

PEO GCS Organizational Updates

Four Organizations Defined

- **Project Manager Armored Fighting Vehicles – COL James Schirmer**
 - PdM Self-Propelled Howitzer Systems
 - PdM Bradley Fighting Vehicle
 - PdM Future Fighting Vehicle
- **Project Manager Armored Multi-Purpose Vehicle – COL Michael Milner**
 - PdM Armored Multi-Purpose Vehicle Platforms
 - PdM Armored Multi-Purpose Vehicle Integration
- **Project Director Main Battle Tank Systems – Mr. Andrew DiMarco**
 - PdM Combat Vehicle Recovery Systems
 - PdM Foreign Military Sales
 - PdM Abrams Main Battle Tank
- **Project Manager Stryker Brigade Combat Team – Mr. David Doop**
 - PdM Production & Variant Management
 - PdM Stryker Future Operations
 - COL Glenn A. Dean III slated for SBCT PM this summer
- Ground Combat Vehicle has moved within PdM Future Fighting Vehicle

Armored Multi-Purpose Vehicle (AMPV)

- AMPV Engineering and Manufacturing Development (EMD) contract awarded to BAE Systems Land & Armaments Dec 23 2014
- Provides a replacement for M113 Family of Vehicles
- Initial award 52-month base term ~\$382M
 - Includes 29 vehicles
- Potential \$1.2B EMD and Low Rate initial Production



Ground Combat Vehicle (GCV)

- GCV TD Phase awarded 18 Aug 11 (~\$450M each)
 - BAE Systems Land and Armaments
 - General Dynamics Land Systems
- TD Contracts completed 4 June 2014
- PM GCS organization has been deactivated
- Additional work will continue with BAE and GDLS for Future Fighting Vehicle (FFV)
 - Bridge contracts awarded in 4th QTR FY14
 - New contracts in FY15 are anticipated to mature FFV technologies
- Managed by PdM FFV

Ground Combat Systems Modernization (1 of 2)

- GCS Modernization Strategy - executed through the ECP process
 - Abrams
 - GDLS awarded ECP 1 development contract Sep 2012
 - Fielding scheduled for FY17
 - Bradley
 - ECP 1 production contract awarded to LOC
 - BAE awarded ECP 2 development contract Sep 2012
 - ECP 2 fielding scheduled for FY17

Ground Combat Systems Modernization (2 of 2)

- Stryker BCT
 - Executed through the ECP Process
 - On 14 Mar 2013, the Army Systems Acquisition Requirements Council (ASARC) approved ECP R&D Phase II
 - Phase II award to GDLS Sep 13
 - ECP Production FY18
- Paladin SPHS (PIM Program)
 - BAE Sole Source LRIP contract awarded in FY14
 - FRP FY17
 - Production Quantities: 580 sets



U.S. ARMY

Organization



Program Executive Officer
Mr. Scott Davis



Deputy PEO
COL Brian Cummings



Force Projection

PM: Mr. Bryan McVeigh
DPM: Mr. Steve Roberts



PdM Bridging
LTC Jeff Biggans



PdM Combat Engineer/Material Handling Equipment
LTC Garth Winterle



PdM Petroleum & Water Systems
LTC Shonnail Savens



PdM Sets, Kits, Outfits & Tools
LTC Christopher Ford



PdD Test, Measurement, & Diagnostic Equipment
Mr. George Mitchell



PdM Appliqué & Large Unmanned Ground Systems
LTC Aaron Roberson



PdM Unmanned Ground Vehicles
LTC Larry Dring



Joint Program Office Joint Light Tactical Vehicle

PM: COL John Cavedo
DPM-Ops: Ms. Pam Demeulenaere
DPM-Acq: Mr. Robert Schumitz
DEP-USMC: Mr. Scott Rideout



PdM JLTV Test
LTC Misty Martin



PdD JLTV EMD A
Mr. Michael Sprang



PdD JLTV EMD B
LtCol Matt Pfeiffer*



PdD JLTV EMD C
LTC Anthony Gibbs



Mine Resistant Ambush Protected Vehicles

PM: COL Jason Craft
DPM: Mr. Michael Receniello



PdM Joint Logistics
LTC Joel Franklin



PdM MRAP Vehicle Systems
LTC Elliott Caggins



PdM Assured Mobility Systems
Mr. Mark McCoy



Expeditionary Energy & Sustainment Systems

PM: COL Maurice Stewart
DPM: Mr. Paul Richard



PdM Small Power Sources
Vacant



PdM Medium Power Sources
LTC Senodja Sundiata-Walker



PdD Large Power Sources
Mr. Bob Thoens



PdD Battery Power Sources
Mr. Cory Goetz



PdM Force Sustainment Systems
LTC Ross Poppenberger



PdD Contingency Basing Infrastructure
Ms. Kathy Lytle



Transportation Systems

PM: COL William Boruff
DPM: Ms. Pat Plotkowski



PdM Medium Tactical Vehicles
LTC Frank Bridges



PSM Armored Security Vehicles



PdM Heavy Tactical Vehicles
Mr. Wolfgang Patemann



PdM Allied Tactical Vehicles
LTC John Hall



PdD Army Watercraft Systems
Zina Kozak-Zachary



PdD Light Tactical Vehicles
Mr. Steven Rienstra

* USMC



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Force Projection

- Bridging**
- Bridges / Bridge Erection Boat
 - Bridge Transporters
 - M9 Armored Combat Earthmover/Assault Breacher

- Combat Engineer/Material Handling Equipment**
- Container Handling Equipment
 - Loaders
 - Cranes
 - Dozers
 - Excavators

- Petroleum & Water Systems**
- Fueling Systems
 - Water Systems

- Sets, Kits, Outfits & Tools**
- Sets, Kits & Outfits
 - Engineer Combat Support Eq
 - Diving Equipment
 - Shelter Mounted Sets, Kits & Outfits
 - Shop Set Equipment

- Test, Measurement, & Diagnostic Equipment**
- Integrated Family of Test Equipment (IFTE) At Platform Test Systems
 - Common Embedded Diag.
 - Calibration Sets (CALSETS)
 - IFTE Off Platform Automatic Test Systems
 - General Purpose Electronic Test Equipment (GPETE)
 - Maintenance Support Device (MSD-V3)
 - Next Generation Automatic Test Station (NGATS)

- Applique & Large Unmanned Ground Systems**
- Husky Mounted Detection System (HMDS)
 - Route Clearance & Interrogation System (RCIS)
 - M160 Robotic Light Mine Flail

- Unmanned Ground Vehicles**
- Small Unmanned Ground Vehicle (SUGV) 310
 - Route Reconnaissance and Clearance (R2C)
 - Main Transportable Robotic System (MTRS)
 - Common Robotic System-Individual (CRS-I)



Joint Program Office Joint Light Tactical Vehicle

- Joint Light Tactical Vehicles**
- Technology Development phase
 - 3 prototype contracts
 - Engineering & Manufacturing Development (EMD) Phase
 - MS B-2011



Mine Resistant Ambush Protected Vehicles

- Assured Mobility Systems (Army Program)**
- Buffalo (MPCV)
 - JERRV/Cougar
 - Husky (Vehicle Mounted Mine Detector (VMMD))
 - RG31
 - RG-33/Panther (MMPV)

MRAP Vehicle Systems (Joint Program)

- M-ATV
- Navistar MaxxPro
- GDLS RG-31
- BAE-TVS Caiman
- BAE RG-33 SOCOM
- BAE RG-33 SOCOM AUV
- BAE HAGA
- BAE RG-33L
- FPI Cougar (Cat I & II)
- FPI Buffalo

- Joint Logistics & Sustainment (Joint Program)**
- MRAP/M-ATV Logistics



Expeditionary Energy & Sustainment Systems

- Small Power Sources**
- 2kW Military Tactical Generator
 - 3kW Tactical Quiet Generator (TQG)
 - Small Tactical Electrical Power (STEP)
 - 60K BTUH IECU
 - 9K, 18K, 36K IECU
 - 120K IECU

- Medium Power Sources**
- 5, 10, 15, 30, 60kW Advanced Medium Mobile Power Sources (AMMPS)
 - 5-60kW Tactical Quiet Generators (TQG)
 - Power Units/Power Plants

- Large Power Sources**
- 100/200kW Tactical Quiet Generators (TQG)
 - 100/200kW Large Advanced Power Sources (LAMPS)
 - Power Distribution Illumination Electrical (PDISE)
 - Intelligent Power Management

- Battery Power Sources**
- Standardization of Batteries

- Force Sustainment Systems**
- Cargo Airdrop Systems
 - Combat Feeding Systems
 - Field Service Systems
 - Force Provider & Base Camps
 - Shelter Systems & Heaters
 - Mortuary Affairs Equipment



Transportation Systems

- Medium Tactical Vehicles**
- Family of Medium Tactical Vehicles (FMTV)
 - Tractor Trailer

- PSM ASV**
- Armored Security Vehicles

- Heavy Tactical Vehicles**
- Heavy Expanded Mobility Tactical Truck (HEMTT)
 - M915 Family of Vehicles & Trailers
 - Heavy Equipment Transport (HETS)
 - Container Handling Unit (CHU)
 - Palletized Load System (PLS)

- Allied Tactical Vehicles**
- Mobile Strike Force Vehicle (MSFV)
 - Light Tactical Vehicles (LTV)
 - Medium Tactical Vehicles (MTV)
 - Sport-Utility Vehicles (SUV)
 - Buses
 - Trailers

- Army Watercraft Systems**
- 115 Ton Barge Derrick (BD)
 - Landing Craft Mechanized (LCM 8) Mod II
 - Landing Craft Utility (LCU) 2000
 - Tugs (Large (LT) & Small (ST))
 - Logistics Support Vessel (LSV)
 - Roll-on/Roll-off Discharge Facility (RRDF)
 - Floating Causeway (FC)
 - Modular Warming Tug (MWT)
 - Causeway Ferry (CF)
 - Barge Fueller (BG)

- Light Tactical Vehicles**
- HMMWV Family of Vehicles
 - UAH Safety Enhancements
 - HEAT Trainer

Joint Light Tactical Vehicle

- EMD 27-month Firm-Fixed Price Contracts awarded on 22 Aug 2012 to:
 - AM General: \$64.5M
 - LM: \$66.5M
 - Oshkosh: \$56.4M
- EMD Prototype Vehicles (22 per contract) delivered for Performance and RAM testing August 2013
- JLTV LRIP and FRP Market Survey released 25 Mar 2013 (for viable non-EMD vendors able to compete)
- Schedule
 - June 2014 Draft LRIP RFP
 - December 12 Final LRIP RFP Released
 - Project 4Q15 LRIP Award



TMDE Overview



At-Platform Test Equipment:
(Maintenance Support Device (MSD), Internal Combustion Engine Kit (ICE, SWICE))



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

Off-Platform Test Equipment:
(BSTF, Next Generation Automatic Test System)



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

General Purpose Electronic Test Equipment Modernization (TEMOD)



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

Calibration Instruments & Standards



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

Innovation for Today and Tomorrow's Expeditionary Forces

TMDE Acquisitions – Next Generation Automatic Test System (NGATS)

- NGATS Console/System Integration Full Rate competition
 - Final RFP released 13 Mar 2014
 - Awarded on 24 Sep 2014 to Boeing



TMDE Acquisitions – NGATS Shelters

- NGATS Shelter competition (ATE, TPS Shelters)
 - RFI (Sources Sought) Released 18 Mar 2011
 - RFI (Sources Sought) Released 30 Nov 2011
 - Pre-Solicitation meeting held 10 Oct 2012
 - Two acquisitions identified (ATE, Shelters)
 - Pre-Solicitation notice 2 Apr 2015
 - RFP anticipated 3QFY15



Next Generation Automatic Test Station



Automatic Test Station



TPS Storage



Description:

A highly mobile, rapidly deployable, general-purpose, reconfigurable automatic test system which directly supports testing and screening of Army weapon systems to maintain their readiness to shoot, move, and communicate. **Designated to replace Direct Support Electronic Systems Test Set (DSESTS), Base Shop Test Facilities (BSTF), versions 3 and 5, and other legacy ATE.**

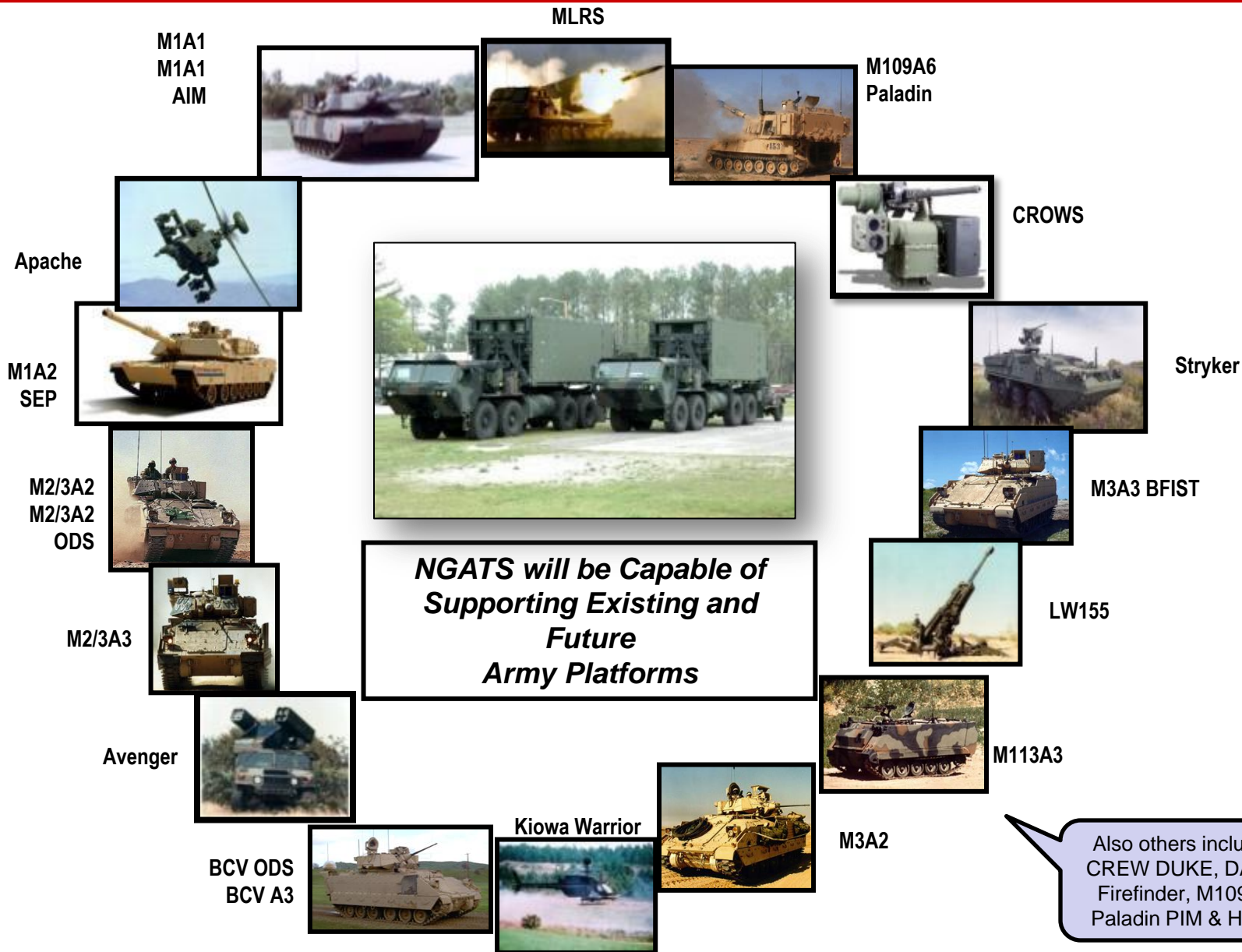
NGATS Fielding:

- NGATS will replace legacy ATE
- Projected AAO is 193 systems

NGATS Status:

- Console contract awarded September 2014
- First article to be delivered September 2015
- NGATS Shelter RFP to be released 3QFY15

Current and Future Major Weapon Systems Supported by an Off Platform Test System



TMDE Acquisitions – Misc.

- Various General Purpose Electronic Test Equipment Modernization projects (TEMOD) – FY16 Contract Awards
 - ME-572()/U Ammeter (FY15)
 - OS-305/U Oscilloscope
 - OS-307/U Oscilloscope
 - TS-4548/P RF Power Meter
 - TS-4549/T Radio Test Set
- Multiple Calibration instruments & standards acquisitions
- Maintenance Support Device & SWICE Production
 - MSD-V4 (Rugged) RFP to be released 4QFY15
 - MSD-V4 (Light) RFP to be released 1QFY16
 - SWICE production ongoing

Picatinny ATSD Acquisitions – ATE Engineering Services IDIQ

- ATE Engineering Services IDIQ – Contracts & RF Task Order 001
 - Draft RFP released 28 Aug 2012
 - RF Spec revision complete
 - Final RFP released 06 Dec 2013
 - Proposal deadline 18 Feb 2014
 - Contract vehicles and Task Order 001 awarded Sept 23 2014
- ATE Engineering Services IDIQ – ATE/TPS Support & Maint. Task
 - Release Apr 3 2015
 - Response due Apr 17 2015

Picatinny ATSD Activity

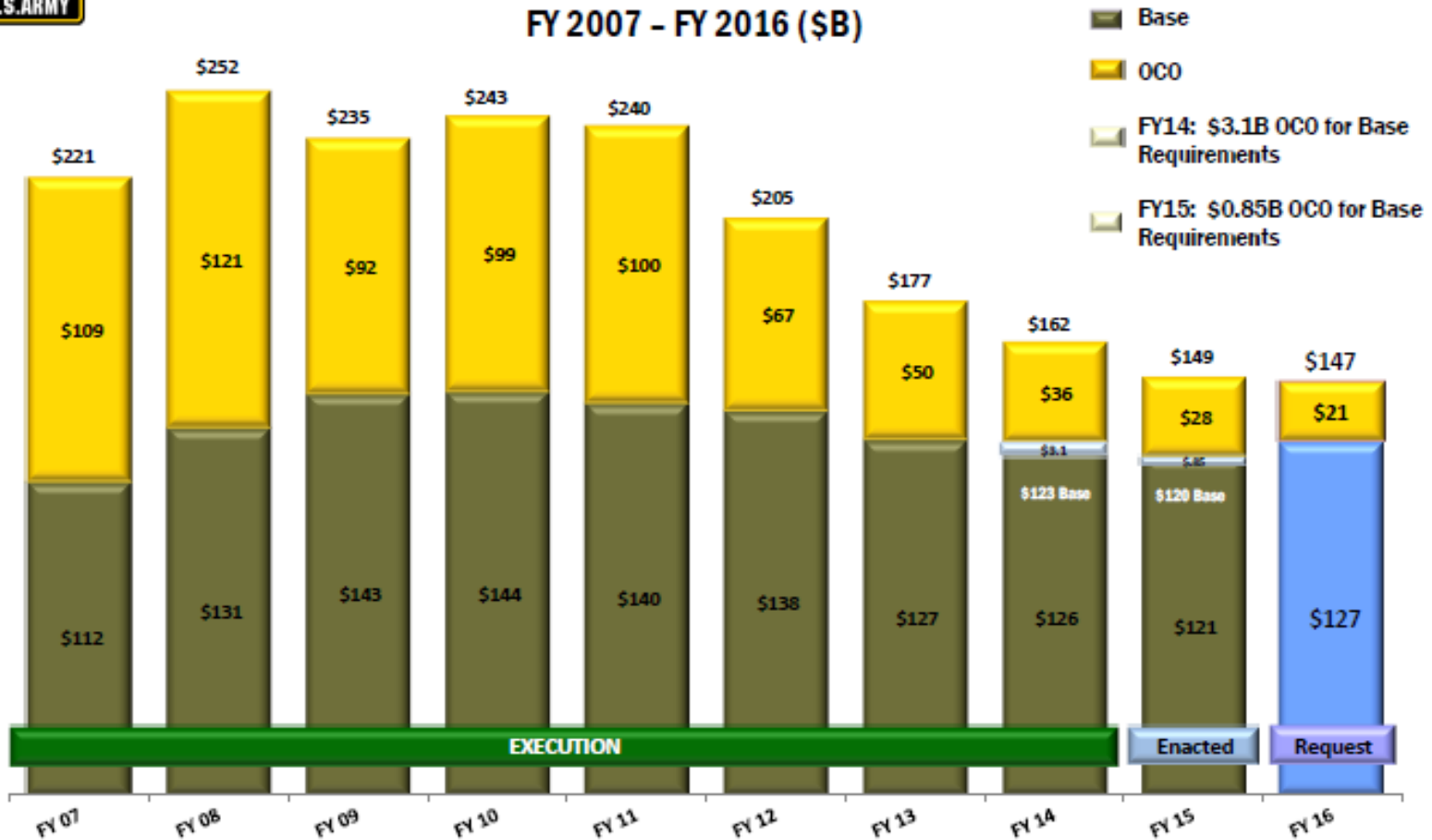
- Current NGATS TPS rehost/development activity
 - Abrams/Bradley (all variants)
 - STRYKER (all variants)
 - STRYKER MGS
 - CREW DUKE/THOR
 - FireFinder
 - Paladin PIM
 - CROWS
 - M777
 - All three TPS Centers beginning to rehost TPSs to NGATS
- Other
 - CBA for ATS complete and validated by DASA-CE
 - West Point TPS study complete, being updated
 - Army Field level maintenance study in-process

FY16 Army's Budget Request



Budget Trends

FY 2007 - FY 2016 (\$B)



Source: DoD Comptroller Information System

Given realities of constrained budgets, the Army must adapt, innovate, and make difficult decisions impacting the Total Force

Army's Top 12 in FY 2016 Budget Request

Top 12 Critical items within the \$127B FY 2016 Budget Request

1. Nett Warrior System – Android Based Communication
2. Field Family of Networked Tactical Radios
3. Warfighter Information Network – Tactical System
4. Joint Battle Command – Platform
5. Distributed Common Ground System
6. Joint Light Tactical Vehicle (JTLV)
7. Maneuver Support Vessel – Light (MSV-L)
8. AH-64 Apache – Convert D Model to E Model
9. Armored Multi-Purpose Vehicle (AMPV)
10. Patriot Missile
11. Paladin Integrated Management (PIM)
12. UH-60 Black Hawk



The M109 PIM program is one of the Army's top 12 critical programs in the Fiscal Year 2016 budget.

FY16 Army's Budget Request



CONCLUSION

The Army has three major challenges due to the budget uncertainty

- 1. The “velocity of instability” has substantially increased since the FY16 spending cap was set almost four years ago; the cap simply has not kept pace with the geopolitical reality unfolding around the world.**
- 2. Near Term. The FY16 President's Budget partially mitigates the risks inherent with funding reductions under Sequestration levels.**
 - Begins to restore the balance between end strength, readiness, and modernization**
 - Provides resources to start rebuilding readiness that has deteriorated over the past several years-readiness that is imperative to maintain strategic and operational flexibility**
 - Focuses modernization efforts on the Soldier and Mission Command elements and begins to restore funding in modernization that remains near historic lows**
- 3. Long Term. Sequestration in FY16-FY23 dramatically suppresses defense spending without acknowledging the world in which we live.**
 - The Army has no major new modernization programs until the next decade.**
 - Continued sequestration will reduce the force to 420K AC/315K ARNG/185K USAR, jeopardizing the Army's ability to execute even one prolonged multiphase contingency operation.**

Support of the President's Budget Moderates the Risks to Today's Threats to National Security

