



# **NDIA ATC Army Liaison Report**

**26 April 2016**

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**Dennis Hecht**

# Agenda

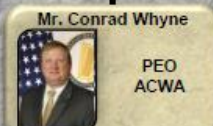
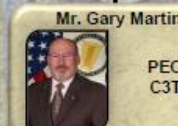
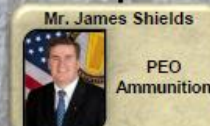
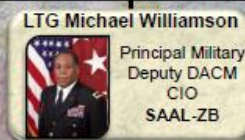
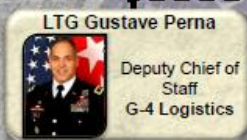
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- Office of Assistant Secretary of the Army
- PEO Ground Combat Systems (GCS)
  - Organization
  - Armored Multi-Purpose Vehicle (AMPV)
  - GCS Platform Modernization
- PEO Combat Support & Combat Service Support (CS&CSS)
  - Organization
  - Portfolio
  - Joint Light Tactical Vehicle (JLTV)
  - Test Measurement & Diagnostic Equipment (TMDE)
    - Portfolio
    - Next Generation Automatic Test System (NGATS)
    - Acquisitions
- Picatinny Automatic Test System Division (ATSD)
  - Acquisitions
  - Activity
- FY2017 Army Budget Overview

# Office of the Assistant Secretary of the Army

As of 02/03/16

Office of the Assistant Secretary  
of the Army  
(Acquisition, Logistics and Technology)



★ Leadership Change

\* Deputy for Medical Systems. Receives acquisition oversight but reports to the Surgeon General

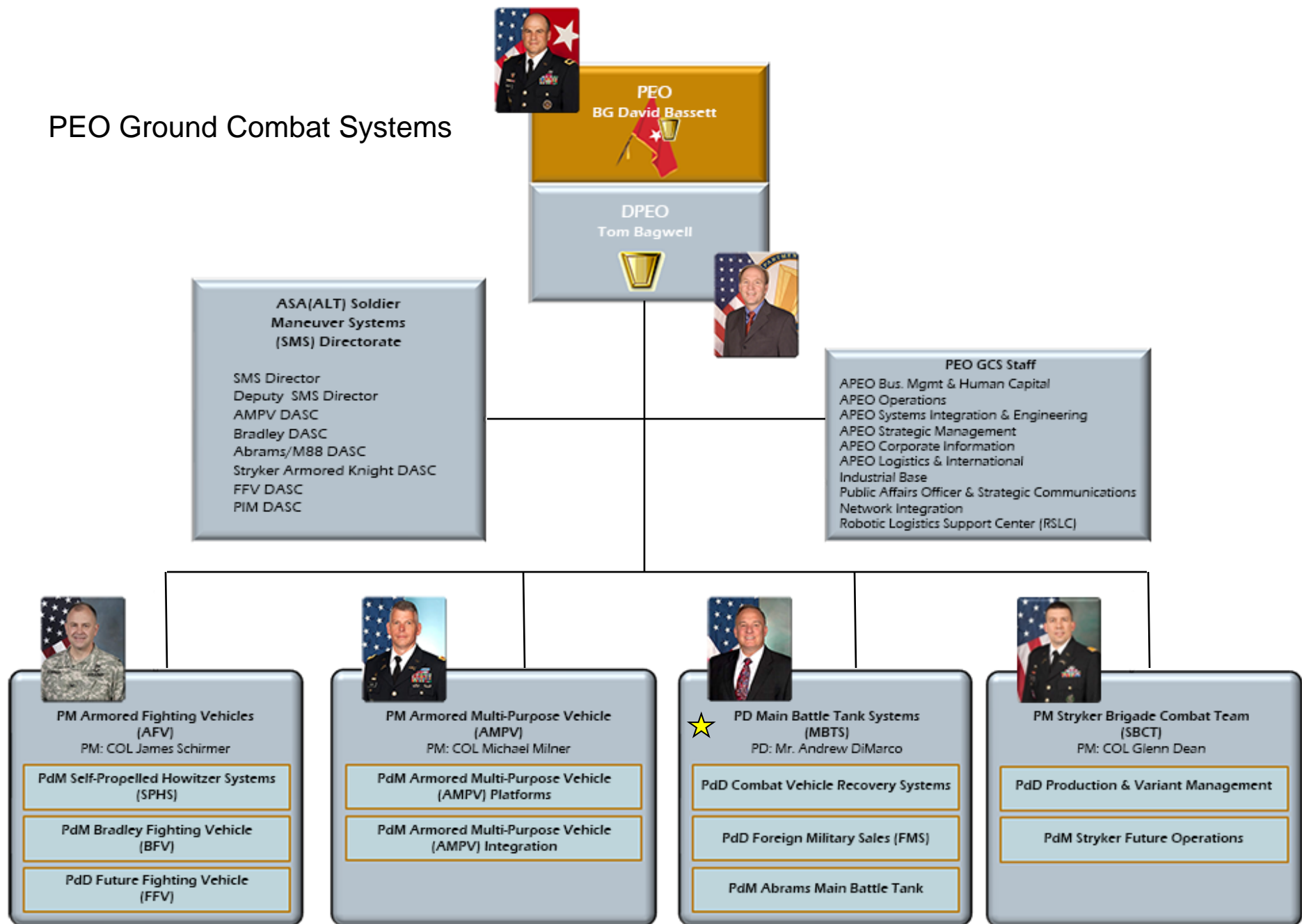
# Leadership Changes

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- Assistant Secretary of the Army
  - Hon. Katrina McFarland (Acting) replaces Hon. Heidi Shyu
- Principal Deputy
  - Mr. Gabriel Camarillo leaving, position vacant
- Deputy Assistant Secretary of the Army for Plans, Programs, and Resources
  - Mr. Tom Mullins leaving, position vacant
- PEO Enterprise Information Systems
  - Ms. Terry Watson (Acting) replaces Mr. Doug Wiltsie
- PEO Missiles & Space
  - Mr. Barry Pike replaces BG Neil Thurgood
- Executive Director Systems of Systems Engineering and Integration
  - Mr. Doug Wiltsie replaces Mr. Kevin Fahey
- Joint Program Executive Office for Chemical and Biological Defense
  - Mr. Doug Bryce replaces Mr. Carmen Spencer



# PEO Ground Combat Systems



# Armored Multi-Purpose Vehicle (AMPV)

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- 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 ~\$388M
  - Includes 29 vehicles for testing
- Planned 3-year LRIP contract in 2020
- Currently anticipate 2,907 vehicles @ \$1.8M ea., built over 13 years



# Ground Combat Systems Modernization

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## GCS Modernization - Primarily Executed through the ECP Process

- Abrams
  - GDLS awarded ECP 1 development contract Sep 2012, Field FY17
  - Projected Production: FY16 – 45, FY 17 - 60
- Bradley
  - BAE awarded ECP 2 development contract Sep 2012, Field FY17
  - Projected Production: FY16 – 240, FY 17 - 337
- Stryker BCT
  - Phase II award to GDLS Sep 2013, Field FY18
  - Production: FY16 – 92, FY 17 - 123
- Paladin (PIM Program)
  - BAE Sole Source LRIP contract awarded in FY14
  - FRP FY17, Production Quantities: 580 sets

# Force Projection Organization/Leadership Changes



**LTC Garth Winterle**  
(Outgoing)

Summer 2016



**LTC Brian Watson**  
(Incoming)



**LTC Christopher Ford**  
(Outgoing)

Summer 2016

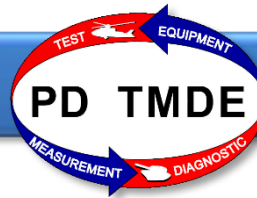


**Mr. Wolfgang Petermann**  
(Incoming)



**Mr. George Mitchell**  
(Outgoing)

3 June 2016



**Mr. Oral Walker**  
(Incoming)





# PEO CS&CSS Portfolio

## Expeditionary Energy & Sustainment Systems (E2S2)

Small Power Sources	Medium Power Sources	Large Power Sources	Battery Power Sources	Force Sustainment Systems
 <ul style="list-style-type: none"> <li>• 2kW Military Tactical Generator</li> <li>• 3kW Tactical Quiet Generator (TQG)</li> <li>• Small Tactical Electrical Power (STEP)</li> <li>• 60K BTUH IECU</li> <li>• 9K, 18K, 36K IECU</li> <li>• 120K IECU</li> </ul>	 <ul style="list-style-type: none"> <li>• 5, 10, 15, 30, 60kW Advanced Medium Mobile Power Sources (AMMPS)</li> <li>• 5-60kW Tactical Quiet Generators (TQG)</li> <li>• Power Units/Power Plants</li> </ul>	 <ul style="list-style-type: none"> <li>• 100/200kW Tactical Quiet Generators (TQG)</li> <li>• 100/200kW Large Advanced Power Sources (LAMPS)</li> <li>• Power Distribution Illumination Electrical (PDISE)</li> <li>• Intelligent Power Management</li> </ul>	 <ul style="list-style-type: none"> <li>• Standardization of Batteries</li> </ul>	 <ul style="list-style-type: none"> <li>• Cargo Airdrop Systems</li> <li>• Combat Feeding Systems</li> <li>• Field Service Systems</li> <li>• Force Provider &amp; Base Camps</li> <li>• Shelter Systems &amp; Heaters</li> <li>• Mortuary Affairs Equipment</li> </ul>

## Force Projection Equipment

Bridging	Combat Engineer/Material	Petroleum & Water Systems	Sets, Kits, Outfits & Tools	Test, Measurement, & Diagnostic Equipment	Applique & Large Unmanned Ground	Unmanned Ground Vehicles
 <ul style="list-style-type: none"> <li>• Bridges / Bridge Erection Boat</li> <li>• Bridge Transporters</li> <li>• M9 Armored Combat Earthmover/Assault Breacher</li> </ul>	 <ul style="list-style-type: none"> <li>• Container Handling Equipment</li> <li>• Loaders</li> <li>• Cranes</li> <li>• Dozers</li> <li>• Excavators</li> </ul>	 <ul style="list-style-type: none"> <li>• Fueling Systems</li> <li>• Water Systems</li> </ul>	 <ul style="list-style-type: none"> <li>• Sets, Kits &amp; Outfits</li> <li>• Engineer Combat Support Eq</li> <li>• Diving Equipment</li> <li>• Shelter Mounted Sets, Kits &amp; Outfits</li> <li>• Shop Set Equipment</li> </ul>	 <ul style="list-style-type: none"> <li>• Integrated Family of Test Equipment (IFTE) At Platform Test Systems</li> <li>• Common Embedded Diag</li> <li>• Calibration Sets (CALSETS)</li> <li>• IFTE Off Platform Automatic Test Systems</li> <li>• General Purpose Electronic Test Equipment (GPETE)</li> <li>• Maintenance Support Device (MSD-V3)</li> <li>• Next Generation Automatic Test Station (NGATS)</li> </ul>	 <ul style="list-style-type: none"> <li>• Husky Mounted Detection System (HMD/S)</li> <li>• Route Clearance &amp; Interrogation System (RCIS)</li> <li>• M160 Robotic Light Mine Field</li> </ul>	 <ul style="list-style-type: none"> <li>• Small Unmanned Ground Vehicle (SUGV) 310</li> <li>• Route Reconnaissance and Clearance (R2C)</li> <li>• Man Transportable Robotic System (MTRS)</li> <li>• Common Robotic System-Individual (CRS-I)</li> </ul>

# PEO CS&CSS Portfolio

## Joint Light Tactical Vehicles

Joint Light Tactical Vehicles



## Mine Resistant Ambush Protected Vehicles

Mine Resistant Ambush Protected Vehicles



- MATV UIC
- MaxPro Dash ISS
- MaxPro LWB Ambulance



- Buffalo
- Mine Clearance Vehicle (MCV)
- Explosive Hazard Pre-detonation
- Husky (Vehicle Mounted Mine Detector (VMMD))
- MMPV Type II (RG31)
- MMPV Type I (Panther)

Assured Mobility Systems



## Transportation Systems

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)

Medium Tactical Vehicles



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

Light Tactical Vehicles



- HMMWV Family of Vehicles
- UAH Safety Enhancements
- HEAT Trailer

Allied Tactical Vehicles



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

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 Warping Tug (MWT)
- Causeway Ferry (CF)
- Barge Fueller (BF)

# Joint Light Tactical Vehicle

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- 27-month FFP EMD Contracts, 22 Aug 2012
  - AM General: \$64.5M
  - LM: \$66.5M
  - Oshkosh: \$56.4M
- EMD Prototypes (22 ea.) delivered Aug 2013 for testing
- Oshkosh awarded Production Contract on 25 Aug 2015
  - \$6.7B (17,000 vehicles)
  - Procurement thru ~2040, ~55,000 Total vehicles (~\$30B)
- GAO denies LM protest in December 2015
- Army's first order March 2016 – 657 systems





# 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 (NGATS)



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 Sets (CALSETS):**  
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*



# Next Generation Automatic Test System



*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:

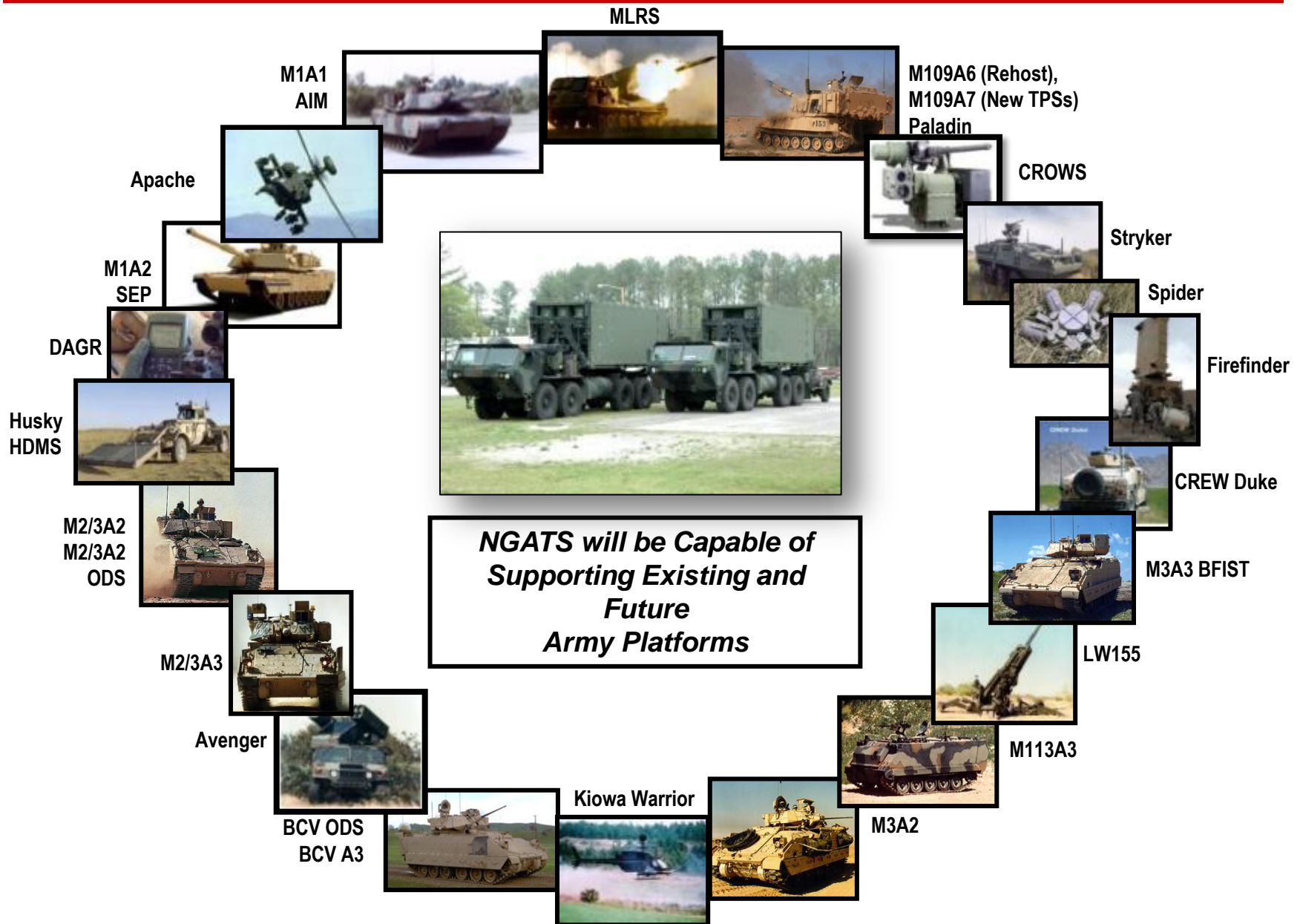
- NGATS will replace legacy ATE
- Projected AAO is 186 systems

### NGATS Status:

- Console contract awarded September 2014
- First Article Test completed September 2015
- NGATS Shelter contract awarded February 26, 2016

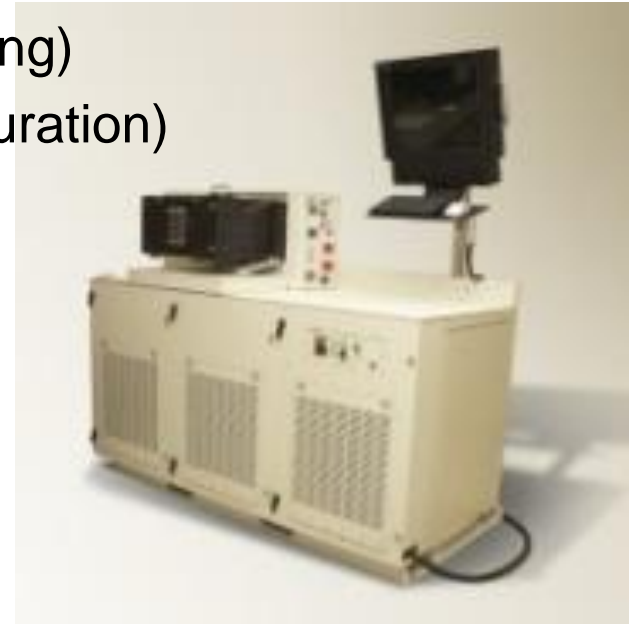


# Current and Future Major Weapon Systems Supported by an Off Platform Test System



# TMDE Programs – Next Generation Automatic Test System (NGATS)

- Console/System Integration Full Rate Competition
  - Awarded Sept 2014 to Boeing
- First Article Test Complete Sept 2015
- Army Reliability Test Event
  - Anticipate September 2016 (Free Standing)
  - Anticipate January 2017 (Shelter Configuration)



# TMDE Acquisitions – NGATS Shelters

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- NGATS Shelter Competition (ATE, TPS Shelters)
  - Contract awarded February 2016 to AAR Manufacturing Inc.
  - Currently Producing 1 Set of Shelters (ATS, TPS)
  - Anticipated Shelter ATP October 2016



# TMDE Acquisitions – Misc.

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- Various General Purpose Electronic Test Equipment Modernization projects (TEMOD) – anticipated FY16 Contract Awards
  - ME-572()/U Ammeter (2QFY16)
  - OS-305/U Oscilloscope (2QFY16)
  - OS-307/U Oscilloscope (2QFY16)
  - TS-4548/P RF Power Meter (2QFY16)
  - TS-4544/U Telecommunications Test Set (3QFY16)
- Multiple Calibration instruments & standards acquisitions
- Maintenance Support Device & SWICE Production
  - MSD-V4 (Rugged) RFP anticipated release 2QFY16
  - MSD-V4 (Light) RFP anticipated release 4QFY16
  - SWICE production ongoing

# **Picatinny ATSD Acquisitions – ATE Engineering Services IDIQ**

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- ATE Engineering Services IDIQ – Large Business IDIQ
  - Continuing to release tasks
- ATE Engineering Services IDIQ – Small Business IDIQ
  - Continuing to release tasks
  - Approaching current ceiling
  - Anticipate new contract RFP early CY 16



# Picatinny ATSD Activity

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- Current NGATS TPS rehost/development activity
  - Abrams/Bradley (all variants)
  - STRYKER (all variants)
  - STRYKER MGS
  - CREW DUKE/THOR
  - FireFinder
  - Paladin PIM
  - CROWS
  - M777
  - Husky
  - Spider
- Other
  - Army Field level maintenance study in-process



# Army FY 2017 Budget Overview



**February 2016**

**MG Thomas A. Horlander**

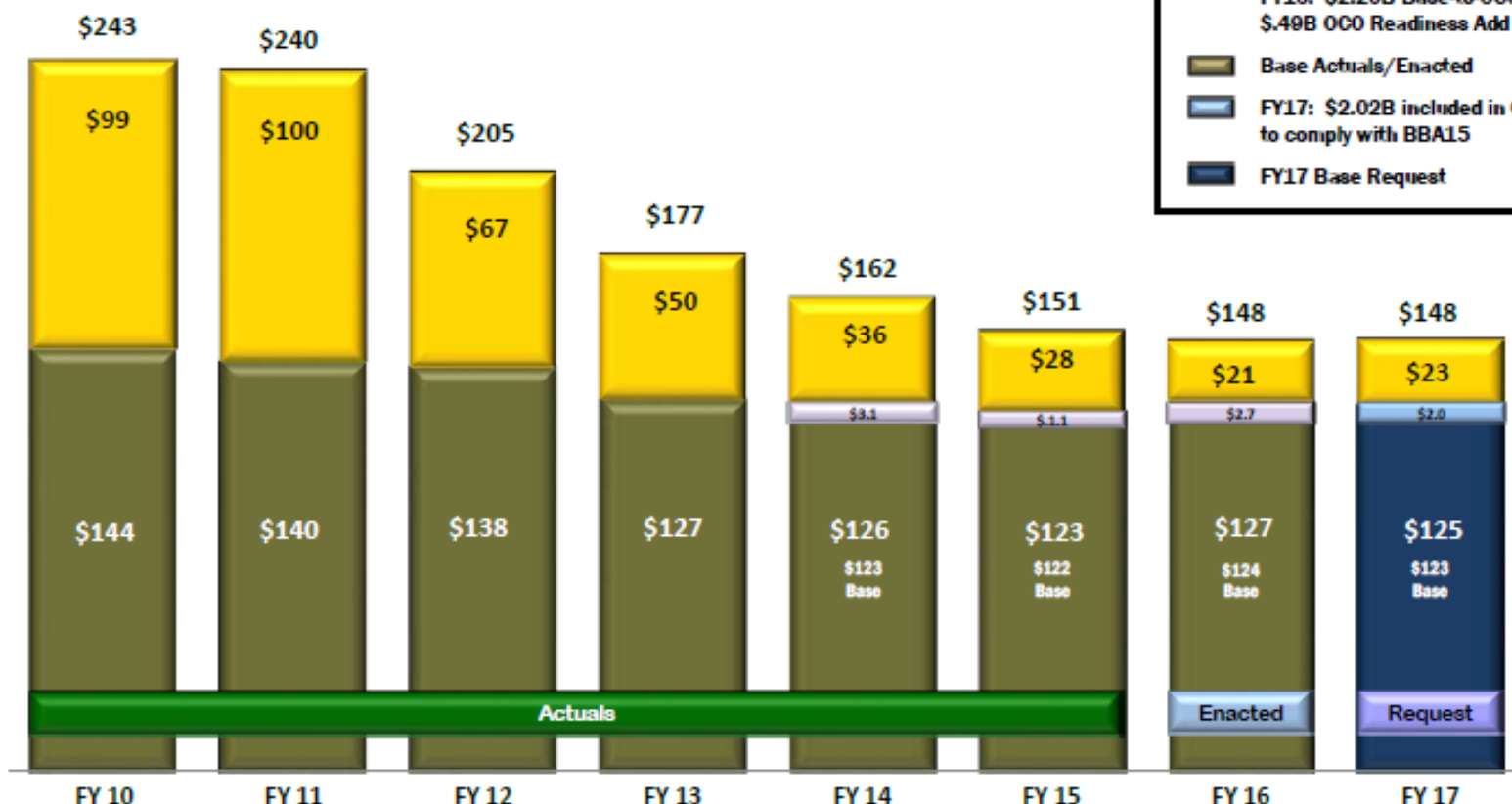
Director, Army Budget



# Budget Trends

FY 2010 - FY 2017 (\$B)

- Overseas Contingency Funding (OCO)
- FY14: \$3.10B Base-to-OCO Transfer
- FY15: \$0.85B Base-to-OCO Transfer; \$0.27B OCO Readiness Add
- FY16: \$2.20B Base-to-OCO Transfer; \$0.49B OCO Readiness Add
- Base Actuals/Enacted
- FY17: \$2.02B included in OCO request to comply with BBA15
- FY17 Base Request



Numbers may not add due to rounding

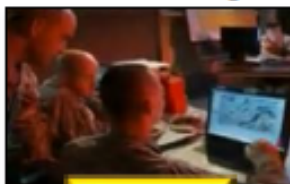
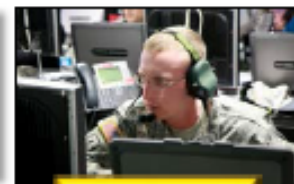
**Global instability in the face of continued fiscal pressures requires leveraging OCO flexibility to meet requirements**

Source: DoD Comptroller Information System

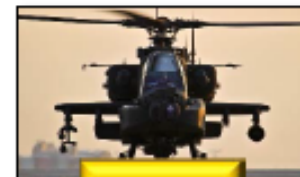


**U.S. ARMY**

# Top Procurement Quantities

**JLTV****Abrams****Paladin****Stryker****Bradley****Counterfire Radar****WIN-T****DCGS-A****HMS Radios****IAMD BCS**

Program (\$200M+)	Quantities	
	FY16	FY17
AH-64E Apache Remanufacture	64	48*
UH-60M Black Hawk	107	36
Joint Light Tactical Vehicle	686	1,828
CH-47F Chinook	39	22
M1 Abrams Tank (MOD) ECP 1A	45	60
Paladin Integrated Management	30	36
Stryker Upgrade	92	123
PAC-3 Missile Segment Enhancement	112	85
Counterfire Radar	13	23
WIN-T Increment 2	Multiple Config. Items	
Bradley Program (MOD) ECP 1& 2	240	337
DCGS-A Increment 1	2,087	2,018
Handheld Manpack Small Form Fit Radios	-	5,656
Family of Medium Tactical Vehicles	166	567
IAMD Battle Command System	-	44

**Apache****Black Hawk****Chinook****PAC-3 MSE**

\*An additional 4 AH-64E Block IIIA aircraft requested in OCO funding as Combat Loss Replacements



# CONCLUSION

- ❖ **The Army's number one priority is readiness.**
- ❖ **Current funding levels constrain the Army's ability to achieve the desired balance between near term readiness for the current environment, and long term modernization required for future security challenges.**
- ❖ **We cannot equip and sustain the entire force with today's most modern equipment and we risk going to war with insufficient readiness.**
- ❖ **Near Term. Builds operational readiness for potential major combat operations while also ensuring deploying units are ready for ongoing contingency operations.**
- ❖ **Long Term. Suppressed defense budgets do not reflect the current global security environment and the velocity of change that requires the Army to be ready now and tomorrow for unforeseen threats to US national security requiring the military instrument of power.**
- ❖ **Sequestration returns in FY18, jeopardizing the Army's ability to support the National Military Strategy**

**Support of the President's Budget moderates the risks of current threats to US National Security**



