Land Future Requirements 2018 Suppliers Conference

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Director, Land Customer Operations

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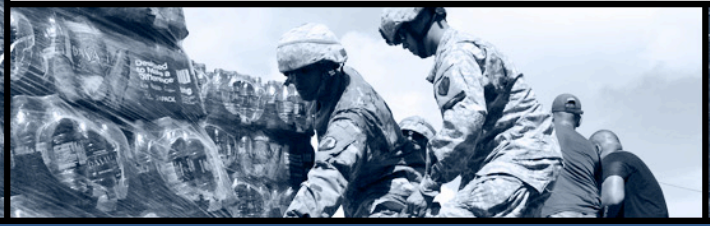


Land Forces Today

Major Deployments

Currently Deployed
2 x ABCTs
3 x IBCTs
4 x MEUs
***40,400 total ground forces**

ARFORGEN → ***Sustainable Readiness***

SRM = *"remaining ready all of the time"* – GEN Robert Abrams
FORSCOM Commanding General

CENTCOM	PACOM	EUCOM	AFRICOM
- Afghanistan: 7,500 - Iraq: 4,657 - Kuwait: 10,800 - SPMAGTF-CENT: 2,300 - 13th MEU: 2,200	- Korea: 4,700 (rotational ABCT) - 31th MEU: 2,200 marines	- Europe: 4,700 (rotational ABCT) - Black Sea Force: 265 marines	- SPMAGTF-Africa: 1,100

Land Forces – Current Trends

Army

- OP Atlantic Resolve / European Activity Set
- Regional Alignment
- Increasing unit deployments with home station equipment
- Diminished unit maintenance & materiel management skills
- 24 annual CTC rotations (BCT)

- *450K to 420K active Soldiers*
- *45 x BCTs to 32 x BCTs*

Takeaway

High OPTEMPO

Increasing deployments with home-station equipment

USMC

- Aging Fleet
- Continued use of Special Purpose Marine Air - Ground TF (SPMAGTF)
  - CENT, AF, South
- Increasing unit deployments with home station equipment

- *202K to 183K active Marines*
- *7 x MEUS*

Level A Systems

Weapon System /FOV	MA	Readiness Status*
M-1 ABRAMS TANK		
M-109 SERIES HOWITZER		
BRADLEY FIGHTING VEHICLE SYSTEMS, (BFVS)		
ARMY MRAP		
TRUCK, VEHICLE SYSTEM, 1 1/4-TON (HMMWV)		
INFANTRY CARRIER (STRYKER FIGHTNING VEHICLE)		
FAMILY OF MEDIUM AND LIGHT TACTICAL VEHICLES (FMTV)		
HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT)		
PATRIOT MISSILE		
MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)		
TOW MISSILE (GROUND - TOW I & II)		
MISSILE, VEHICLE MOUNTED STINGER (AVENGER)		
FIREFINDER RADAR AN/TPQ-36 AND AN/TPQ-37		
AN/TSC-156 (PHOENIX)		

Weapon System/FOV	MA	Readiness Status*
COMBAT, TANK M1A1		
HOWITZER MEDIUM TOWED (M777A2)		
RIFLED TOWED MORTAR (RTM),120 MM		
ASSAULT AMPHIBIOUS VEHICLE, (AAV)		
MORTAR, 81MM, M242		
RECOVERY VEHICLE, (M88A2)		
HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)		
LIGHT ARMORED VEHICLE (LAV)		
M-ATV (MRAP)		
BUFFALO A2 MPCV CAT (MRAP)		
COUGAR (MRAP)		
HUSKY MINE DETECTOR SYSTEM		
MULTI- PURPOSE TRACTOR (TRAM)		
WATER PURIFICATION (TWPS)		
RADAR SET, LIGHTWEIGHT 3D (AN/TPS-59)		

The Fleets That Make This Happen

Army

- **M1 Abrams MBT - 1,700**
- **M2/3 Bradley - 2,512**
- **Stryker - 3,342**
- **M109 Paladin - 465**

USMC

- **M1 Abrams MBT - 362**
- **AAV - 1034**
- **LAV - 647**

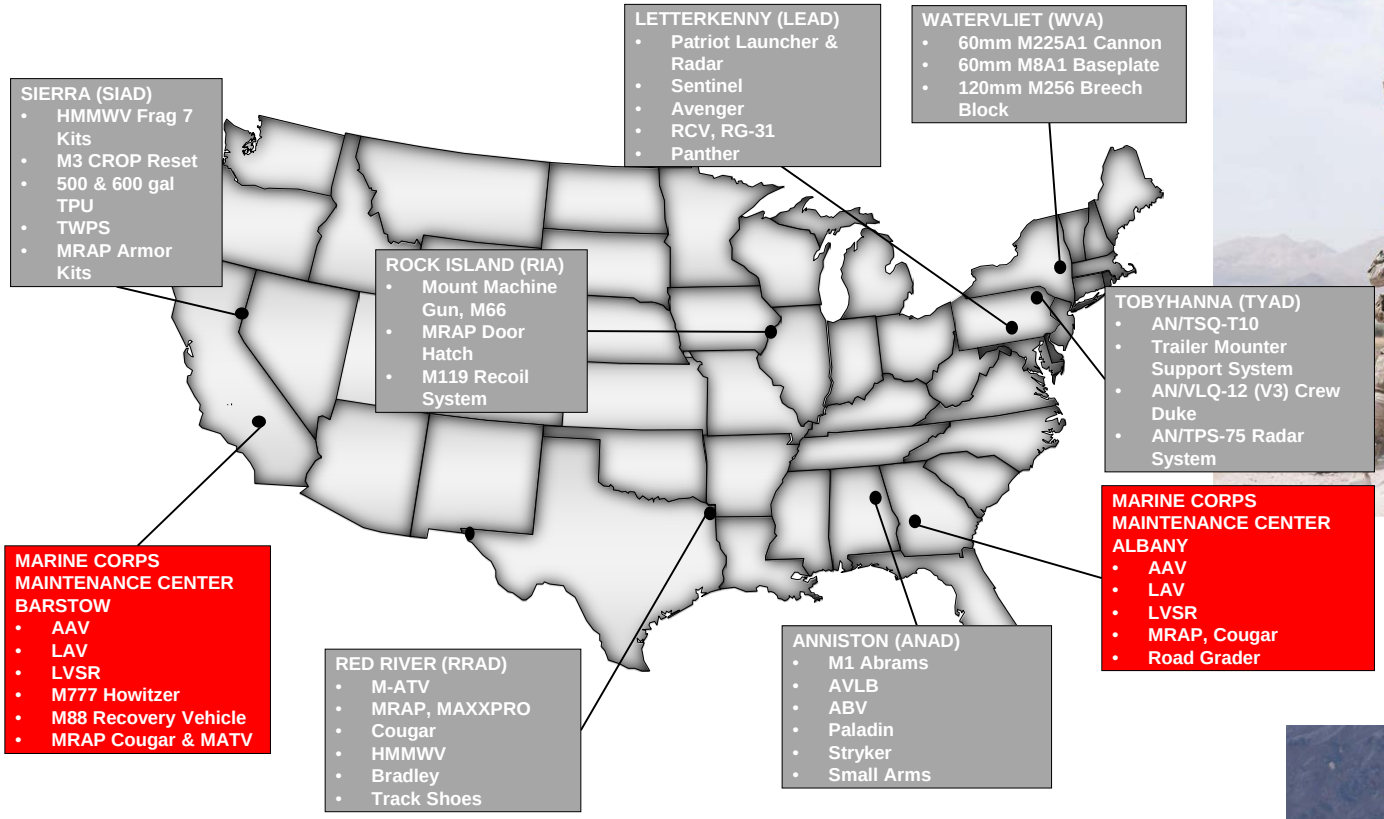
Land Industrial Base

- Army M1A2 Modernization to M1A2 SEP v.3
  - Fielding begins in 2020
- Paladin M1096 upgrade to M109A7
  - FAASV M99A2 upgrade to M992A3
- M2 Bradley ECP1 Kit Installs
  - 2,477 planned through FY 18
- Patriot Launcher/Radar FY16 = 23, FY17 =27
- Panther Conversion FY16 = 0, FY17 = 36
- RG-31 Conversion FY16 = 73, FY17 = 224
- TWPS FY16 = 2, FY17 = 3
- 3K ROWPU FY16 = 1, FY17 = 1
- 500/600 GAL TPU FY16 = 219, FY17 = 25

Land Industrial Base FY16 / 17 workload

- M1 Morocco Program FY16=59, FY17=91
- M1 FOV FY16 = 110, FY17 = 34
- Paladin/FAASV FY16 = 82, FY17 = 36
- Stryker FOV FY16 = 291, FY17 = 125
- Army/USMC M-ATV FY16 = 873, FY17 = 560
- USMC Cougar FY16 = 161, FY17 = 218
- MAXXPRO Dash FY16 = 620, FY17 = 670
- FORSCOM HMMWV Ambulance FY16 = 283, FY17 = 91
- M3A3 Bradley FY16 = 7, FY17 = 5

Army and USMC Industrial Activities



- **~90% of Depots' Parts Needs are:**
  - Lower/Intermittent Demand Items
  - Non-Business Drivers to DLA business model
- **Uncertain/Untimely Funding**
- **Rising backorders/Line-Stoppers**
  - Customer Wait Times Too Long
- **Challenged Forecasting**
  - Accuracy & Buyback, Timeliness, Army Supply Plan

DLA Needs Industry's help to reduce lead times

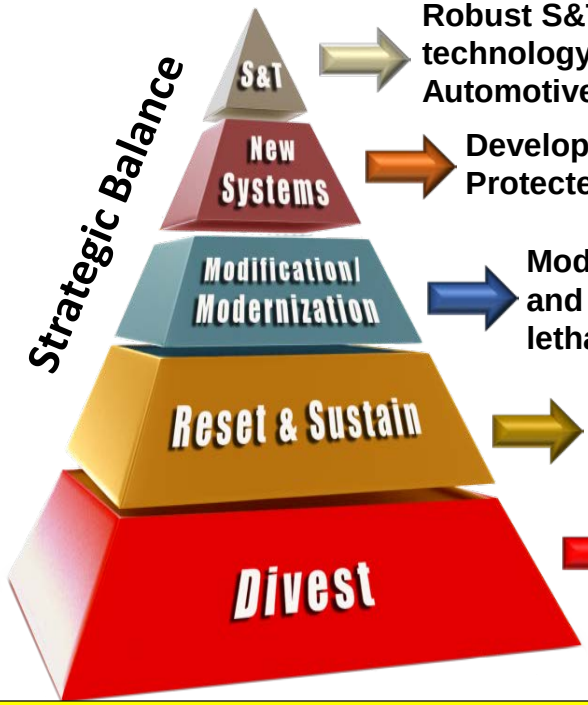
Building Army ABCT Capacity (15th and 16th ABCT)

- ❑ IAW AR 220-1, units that are converting transition to a C-5 readiness status no earlier than 6-months prior to their conversion.
- ❑ Converting units are scheduled for a CTC rotation to achieve C2/C1 readiness status within 18-months (+/- 3-months) of their E-Date.
- ❑ 2/3 ID (15th ABCT) and the 16th ABCT progress from their E-Date (C5/C4) to the completion of their CTC rotation (C2/C1) within 20-months – in line with the historical average of time (24-months) required for BCTs to convert.

2/3 ID (15th ABCT)		*16th ABCT*	
✓ *E-Date: 16 OCT 17*	*(Month 0)*	❑ *E-Date: 16 JUN 19*	*(Month 0)*
❑ *IOC (70% Manned/Equipped): FEB 18*	*(Month 4)*	❑ *IOC (70% Manned/Equipped): OCT 19*	*(Month 4)*
❑ *FM/OPNET: JAN – AUG 18*	*(Month 3)*	❑ *FM/OPNET: OCT – MAR 18*	*(Month 4)*
❑ *Individual Tng: MAR – OCT 18*	*(Month 5)*	❑ *Individual Training: NOV 19 – APR 20*	*(Month 5)*
❑ *Collective Tng: OCT 18 – MAY 19*	*(Month 12)*	❑ *Collective Training: MAY – OCT 20*	*(Month 11)*
➢ *Gunnery*		➢ *Gunnery*	
➢ *Combined Arms LFX*		➢ *Combined Arms LFX*	
➢ *BCT FTX*		➢ *BCT FTX*	
❑ *Scheduled CTC Rotation: MAY 19*	*(Month 19)*	❑ *Templated CTC Rotation: JAN 21*	*(Month 19)*

Army Acquisition Investment Strategy

We will develop combat vehicle systems in concert with evolving Army Operating Concept direction and concepts and modify existing systems to meet near term capability gaps for network, lethality, mobility and survivability while sustaining systems for the current fight and divesting systems to free up sustainment resources.



Robust S&T Investments targeted at Next Generation Combat Vehicle technology Initiatives: Vehicle Power and Data Architecture, Survivability, Automotive Sub-system Prototype, Lethality/Target Acquisition

Develop and field AMPV, integrate 3rd Gen FLIR, and develop Mobile Protected Firepower

Modernize Abrams, HERCULES, Abrams A1, Bradley, Stryker, and SPHS through Engineering Change Proposals to buy back lethality, mobility, survivability and enable Network Integration

Reset and Sustain Stryker, RECAP Abrams A1, 2nd Gen FLIR for current contingency operations

Divest M113 as AMPV is fielded

AMPV – Armored Multi-Purpose Vehicle
HERCULES – Heavy Equipment Recovery Combat Utility Lift Evacuation System

IBCT (ABN) – Infantry Brigade Combat Team (Airborne)
FLIR – Forward Looking Infrared
SPHS – Self-Propelled Howitzer Systems

- Army Operating Concept drives a reconsideration of priorities within the portfolio
- Industrial base sustainment continues to influence this portfolio
- Lower base funding allows us to sustain ABCTs but does not address the lethality and mobility issues in IBCTs, and lethality issues in SBCTs
- Resource limitations will keep production at MSR, this results in aging platforms and misalignment of capabilities within formations

Army Readiness Support

Operations Support

- ***$$ Investment in M1 Readiness Drivers***
  - *NSNs w/ historic NMCS demands*
- ***Requesting additional investment $$ (M109, Bradley, Stryker)***
- ***Sustainable Readiness Model***
  - *Deploying BCTs w/ organic equipment = predictive surges*
- ***Common ASL Analysis, Monitoring and Inventory Adjustment***
  - *33 x ASLs (A / I / SBCT) completed by MAY 2018*
- ***Weapon System Focused Teams with LCMCs, PEOs, and LOGSA***
  - *Root causes for BO's – tech data, forecasting, execution, etc...*
  - *ALOB (Anticipated Lines of Backorder) – identify potential shortages*
  - *~ 40% of "Long Lead" Parts are Essentiality Coded incorrectly*
  - *84% Competitive – 16% Sole Source*
- ***Moving the "Point of Sale" closer to Army formations***

Industrial Support

- ***Army Supply Plan***
  - *Manual reviews of BoMs / Emphasis on Line Stoppers (CCIRs)*
- ***Industrial Product Support Vendor (LEAD / RRAD /ANAD / TYAD)***
- ***European Reassurance Initiative***
  - *Avengers, M109 / M992, AVLB, ASV, MLRS, HMMWV*
- ***Emphasis on mission accomplishment vs. business development***

Readiness was our priority last year, that's our priority this year and by necessity, that needs to continue to be our priority **- CSA GEN Mark A. Milley**

USMC Modernization Efforts

Air Defense C2: Automated stinger missile launch with electronic warfare capability mounted on a Joint Light Tactical Vehicle (JLTV)

AN/TPS-80 Ground/Air Task Oriented Radar (G/ATOR) (Planned 2018) Set to replace five legacy radar systems: the AN/TPS-59 long-range radar, AN/TPS-63 air defense radar, AN/TPS-73 (air-traffic control), AN/MPQ-62 (short range air defense), AN/TPQ-46 (counter fire target acquisition), and UPS-3 (target tracking).

The G/ATOR baseline system configuration consists of three subsystems:
Communications Equipment Group (CEG). The CEG provides the ability to communicate with and control the radar and is mounted on a High Mobility Multi-purpose Wheeled Vehicle.
Radar Equipment Group (REG). The REG consists of the phased-array radar mounted on an integrated trailer. The trailer is towed by the Medium Tactical Vehicle Replacement (MTVR).
Power Equipment Group (PEG). The PEG includes a 60-kilowatt generator and associated power cables mounted on a pallet. The generator pallet is carried by the MTVR.

Sea Dragon 2025 experimentation effort, with recommendations that include fielding small unmanned aerial systems (UAS), adding advanced training opportunities, restructuring the rifle squad and drawing up new tactics and procedures for a high-end battlefield

Troop Support: USMC Plate Carrier Generation III vest completed evals potential fielding in 2019 and Enhanced Combat Helmet ($51 million contract to Gentex Corp.)

Small Arms
M27 Infantry Automatic Rifle (IAR) to replace the M4, extending range without sacrificing accuracy and lethality.
M38 Squad Designated Marksman Rifle, fielded to meet sharpshooting capabilities
M2A1-upgraded quick-change barrel, more effective flash suppressor (solved the headspace and timing issue)
Glock-19M for Marine Corps' Criminal Investigation Division and HMX-1
M855A1 5.56 adoption from Army
83mm Shoulder Launched Multipurpose Assault Weapon Mod 2 (SMAW Mod 2) could also be adopted by the Army.

USMC Readiness Support

Operations Support

- ***Increased emphasis on WSEC 1,5,6 / IPG 1 and USMC 'Top 25 Cost Drivers'***
  - *60% demand supported - 27% sole source*
  - *37% safety stocked - 73% competitive*
  - *3% direct vendor delivery*
  - *94% coded essential (WSEC 1,5,6)*
- ***Supply Management Unit (SMU) initiatives***
  - *Proofs of principle at I & II MEF*
- ***Routine SPMAGTF / MEU engagement***
- ***Adding "readiness drivers" to Long Term Contracts***

Industrial Support

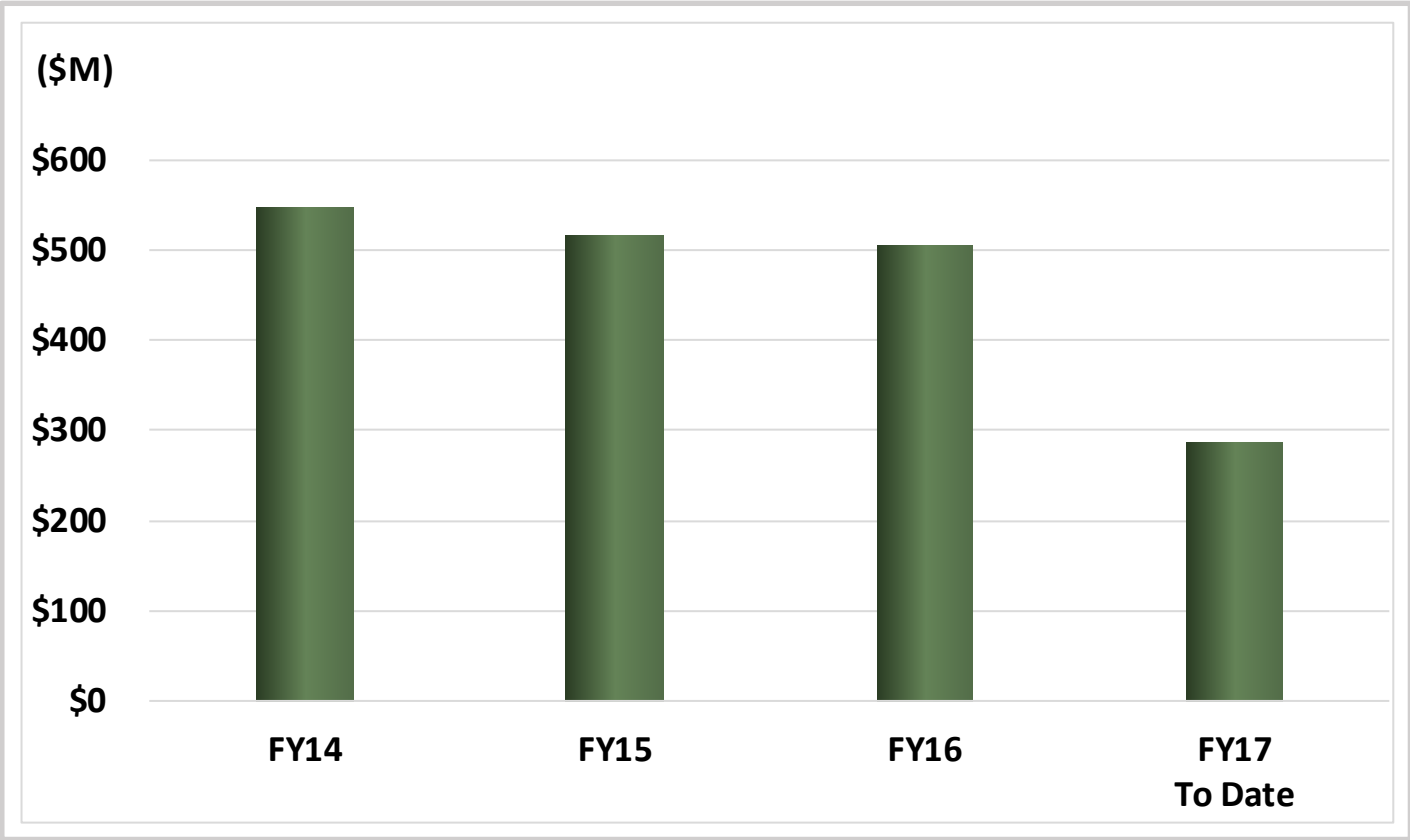
- ***Enhanced Forward Stocking***
  - *Initial year – 86% Usage Rate*
  - *300% increase in parts rcvd from local DD*
  - *Increased forward stocking by 7K items*
  - *Collaborating on DLA run retail operations*
- ***Improved Forecasting***
  - *Added nearly 11,000 items into collaboration*
- ***Support to tornado recovery at MCLB Albany***
  - *Concurrently, investment in resources to improve forecasting accuracy*

Improve readiness because we need more Marines and equipment ready to fight now
- CMC Gen Robert B. Neller

Backup

Combat Vehicles / Engines / Armaments Sustainment Sales

Combat Vehicles, Engines & Armaments



M1A1 / M1A2 Abrams Tank

Weapon System Overview

- Army and Marine Corps Fleets:
  - Army – M1A2 SEPv2 – 1,256; M1A1 – 454; Total 1,710.
  - Approved Acquisition Objective: 1,611 and 791: 2,402.
  - Marine Corps – M1A1 only – 362 vehicles.
- High / Visible OPTEMPO
  - European Activity Set – One ABCT's worth of Equipment; Funding for a second ABCT expected.

On the Horizon

Modernization - M1A2 SEP v3:

- ECP 1a renamed from Network to Power ECP; prototype vehicle builds/testing with OEM GDLS.
- ECP 1b – Lethality ECP – in Requirements Development with preliminary design in 2017.

Future State

- M1A2 Sepv3 Production begins FY17/Q4, with 45 vehicles followed by four increments of 60 through FY22.
- M1A1 SA – focused RECAP slated for FY22.

Top FSCs by Order Volume (Annual)

FSC	Requisitions
6240 (Electrical Lamps)	133,484
5305 (Screws)	45,083
5310 (Nuts & Washers)	44,343
9150 (Oils & Greases)	36,025
5330 (Electrical Light Fixtures)	34,269

M1A2 SEPv2 Upgrades

Lethality & Situational Awareness

Capabilities
- Under armor tank commander firing capability
- Increased situational awareness
- Loaders survivability increased
- IED Electronic Countermeasure

Safety
- Ammo Rack Sets Upgrade
- 4th Gen Loader's Tray
- DVE-A

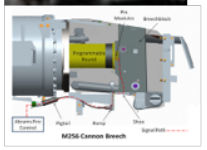


Mission Command Capability
KGV-72 (BFT Encryption)
- MFoCS H/W
- 4.5 Software


Lethality
- CROWS Low Profile

Ammunition Data Link
- -5 IFCEU
- Modified Breechblock
- M829A4





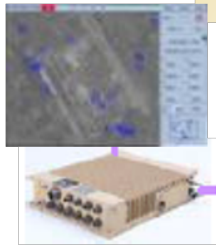
Capabilities
- Improved command and control capabilities
- Reduced CROWS profile, increasing commanders field of view
- Improved stability during firing of the M2
- Improved fire control

Survivability/RAM
- Loaders Armored Gun Shield (LAGS) II

Situational Awareness
- RVSS Appliqué

Survivability
- ARAT Weldments

Mission Command
- MFoCS H/W
- BFT2 Upgrade
- JCR/JBC-P S/W
- 4.6/4.5 Software



Lethality & Protection (Planned FY21+)

Vehicle Engine Exhaust Smoke System

Lethality

AMP Round
- Multi Purpose
- 120 MM
- Ammunition

Capabilities
- Improved Lethality
- Improved system obscurants

ARAT – Abrams Reactive Armor Tile
BFT2 – Blue Force Tracker 2
CREW – Counter Radio Electronic Warfare
CROWS – Common Remotely Operated Weapon Station
DVE - A – Driver's Visual Enhancement – Abrams
IFCEU – Improved Fire Control Electronics Unit
JBC-P – Joint Battle Command – Platform
JCR – Joint Capabilities Requirement
LAGS – Loaders Armored Gun Shield
MFoCS – Mounted Family of Computer Systems
RVSS – Rear View Sensor System

M109A6 / A7 Paladin

Weapon System Overview

- Self-Propelled Howitzer – Provides the primary indirect fire support for full spectrum operations; Army Fleet Density – 465.
  - Current Fleet viable through 2026.
- Modernization program - Upgrade to A7 and A3.
  - Currently in Low-Rate Initial Production (LRIP).
  - Concurrent Upgrade to the M992A2 – Fleet Artillery Ammunition Support Vehicle (FAASV).

On the Horizon

Modernization Schedule A7 and A3.

- LRIP - 18 vehicle sets complete Jan 2017.
- LRIP – 30 vehicle sets: starts Feb 2017; complete May 2018.
- Full Rate Production for the M109A7 and First Unit Equipped are anticipated in 2QFY17.

Future State

- Fielding complete in 2027; End-State 568 vehicles
- Purpose of A7 Program: To Mitigate M109 SWAP-C & Keep System Relevant until 2050.

Top FSCs by Order Volume (Annual)

FSC	Requisitions
5310 (Nuts & Washers)	67,373
5305 (Screws)	41,053
5331 (O-Rings)	33,561
9150 (Oils and Greases)	27,280
5340 (Commercial Hardware)	17,952

M109A7 & M992A3 Upgrades

Self-Propelled Howitzer (SPH)

ELECTRICAL SYSTEM
- CMPS Including 600V, 70 kW Integrated Starter/Generator
- 600V–28V Bi-Directional Conversion
- Cable Management System for Power and Reliable High-Data Transmission Capability Between Cab and Chassis

PRIMARY ARMAMENT
- 39 caliber/155 mm
- Travel Lock
- 600V Electric Rammer
- Manual Rammer Backup

GUN DRIVES
- 600V Electric Elevation Drive
- 600V Electric Traverse Drive
- Electric Joysticks
- Manual Gun Drive Backups

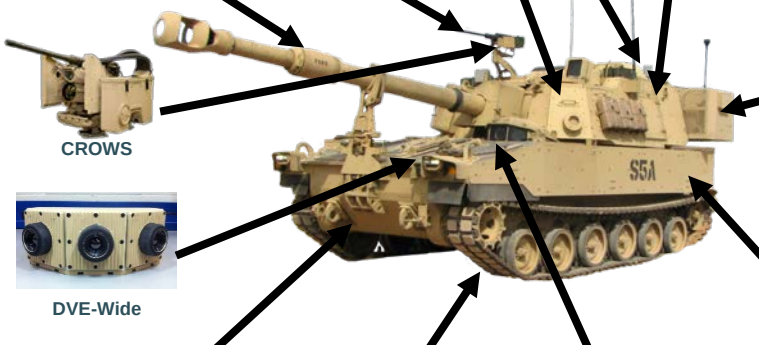
SECONDARY ARMAMENT
M2 0.50 caliber Machine Gun or 40 mm MK19 Grenade Launcher

ELECTRONIC SYSTEMS
- PFCS
- DASH
- PESA
- Digital Backbone
- 10/100 Ethernet Switch
- *SINCGARS → HMS Manpack
- BLUE FORCE TRACKING BFT2

CREW 2

Micro-climatic Cooling System

Improved Force Protection and Survivability
- Two-Tier Threshold
- CROWS at T2



CROWS

DVE-Wide

POWER TRAIN
- Engine 675 HP
- Transmission HMPT 800
- Final Drive
- PTO
- New Cooling System
- AFES Sensors

SUSPENSION AND TRACK
- Six Road Arm Stations
- Torsion Bars
- Four Rotary Dampers
- Track 19.1"

CHASSIS (NEW STRUCTURE)
- Additional Ground Clearance
- Structural Integrity (110k lbs GVW)
- Provisions for Mine Blast Kit and Side Armor

DRIVER'S COMPARTMENT
- Shift Tower
- *Brakes*
- *Steering*
- Driver's Comp designed to meet T2 requirements w/ pop up hatch
- Composite Armor
- Instrument Panel
- Driver's Vision Enhancer

Carrier, Ammunition, Tracked (CAT)

ELECTRICAL SYSTEM
- CMPS Including 600V, 70 kW Integrated Starter/Generator
- 600V–28V Bi-Directional Conversion

ELECTRONIC SYSTEMS
- DASH
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PRIMARY ARMAMENT
M2 0.50 caliber Machine Gun or 40 mm MK19 Grenade Launcher

CREW 2

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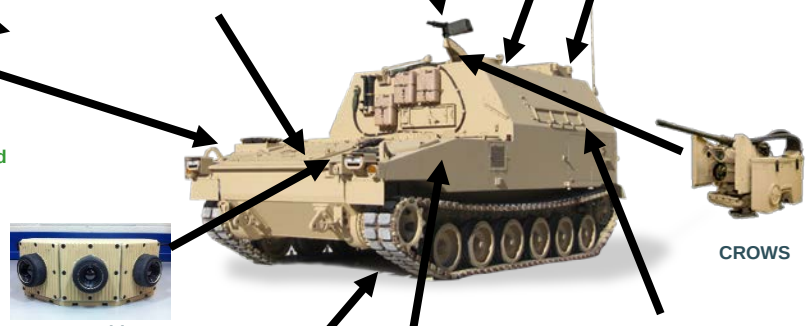

CROWS

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BRADLEY COMMON	NLOS-C DERIVED
BRADLEY SIMILAR	OTHER
PALADIN	M109A7 FOV SPECIFIC

* M109A7 FOV LRIP configuration will include SINCGARS. HMS Manpack will be integrated according to the HMS Manpack fielding schedule.

Bradley Fighting Vehicle System

System Overview

Platform Density: ~2,512

- Army maintains M2 and M3 Variants
- Planned Programs Next 5 Years:
  - *ECP1 Kit Installs (FY-15-20 (2,477 Planned))*
  - *A3 Overhauls & Secondary Programs*
- High / Visible OPTEMPO
  - CONUS: NTC rotations, home station training, gunneries
  - EUCOM AOR: Increased Combined exercises, European Activity Set – one to two sets of rotational equipment

On the Horizon

- Engineering Change Proposals (ECP 1-3) upgrades being imple
- Heavy maintenance being conducted at National Guard Sites
- Active Army OR above goal at 92%

Future State

Shift towards mission-tailored, regionally-aligned forces
- Major training events - NTC Decisive Action Exercises - four to ten per year beginning in FY15.
-BCT Reorg from HBCTs to ABCTs (118 to 151)

Top FSCs by Order Volume (Annual)

FSC	Requisitions
5310 (Nuts & Washers)	74,827
5331 (O-rings)	49,314
6210 (Electrical Fixtures)	45,159
5305 (Screws)	41,193
5330 (Packing & Gaskets)	36,199

Bradley Family of Vehicles – Product Support Concept

ECP 1 (Suspension and Track)

- Extended Life Track
- Heavy Weight Torsion Bars
- Dampers and Road Arms

ECP 2 (Network)

Power Train

- 675 HP Power Pack Upgrade*
- 800 HP Transmission Efficiencies*
- Cooling System Modification
- Upgraded Final Drives*

Enabled Capabilities

- Counter RCIED (Remote Control Improvised Explosive Device) Electronic Warfare (CREW) v3

Electrical System (28 Vdc)

- Electrical Power Upgrade (from 400 amps to 990 amps)
- High Speed Slip Ring Upgrade
- 1 G Ethernet Switch
- Vehicle Health Management System (VHMS), Phase I
- Battery Monitoring*
- Begins VICTORY architecture compliance
- Electrical Cooling

Accelerated Technologies

- Automatic Fire Extinguishing System (AFES) Optimization – ***Phase One***
- Driver's DVE Wide Field of View (FOV)

Situational Awareness / Mission Command

- Improved FBCB2 Integration
  - KGV-72 (Programmable Encryption Device)
  - Blue Force Tracker (BFT) 2
  - Mounted Family of Computing Systems (MFoCS)
  - Joint Battle Command - Platform (JBC-P)
- Common Intelligent Display
- Mid-Tier Networking Vehicular Radio (MNVR)
- Handheld Manpack Small Form Fit (HMS)
- Nett Warrior
- New Central Processor Unit

ECP 2b (Lethality)

Commander's Independent Viewer (CIV)

- 3GEN FLIR*
- Laser Range Finder*
- Cross-Platform Pointing Laser & Receiver (CPPLR)*
- Color Camera*

Improved Bradley Acquisition System (IBAS)

- 3GEN FLIR*
- Laser Range Finder*
- Cross-Platform Pointing Laser & Receiver (CPPLR)*
- Color Camera*

Enabling Enhancements

- VICTORY architecture/COE compliance*
- Embedded Training

Commanders Independent Weapon System

* Common with other platforms

^ Live Training Engagement Composition (LTEC) is projected to replace proprietary MILES software

Intent: Address space, weight, power, cooling and computing limitations to enable Army inbound technologies.

Stryker Family of Vehicles

Overview

- Army Stryker Family of Vehicles
  - Over 15 variants
  - Primary support via Army PBL contract with GDLS
  - DLA supports common consumables
- Fielded in the 2000s
- Expected to remain in fleet until 2030s

Projected Efforts

- MGS Reset & Retrofit
- 30mm gun lethality upgrade
- Continued look at lethality, mobility, & protection across the platform
- Expect demand for new requirements

Future State

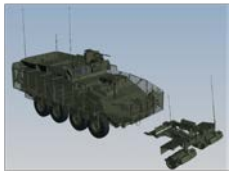
- PBL supported for the near future
- FOV to Sustainment FY 25

Top Readiness Drivers By FSC

FSC	NIINs/Requisitions
5305 (Screws)	13/89
2540 (Vehicle Furniture & Accessories)	3/50
1420 (Guided Missile Components)	1/20
5330 (Packing & Gaskets)	3/16
5340 (Hardware)	5/12

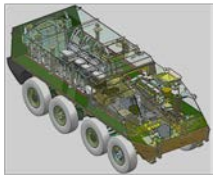
Stryker Hull and RWS Upgrades

Stryker Hull Variants:



Flat Bottom Hull w/Kits
FUE 2003

- 49,500 lbs Combat Weight
- 3.5 Suspension
- 350 HP Powertrain
- 570 Amp alternator



Double V Hull
FUE 2014

- 55,000 lb Capable Chassis
- 5.5 Suspension
- 350 HP Powertrain
- 570 Amp Alternator
- Double V Hull
- Higher Rated Tires
- Increased Axle Spacing
- Larger Fuel Tank
- Integrated Driver Protection
- Integrated Mine Blast Survivability

DVH A1
Planned FUE 2020

- 65,000 lbs Capable Chassis
- 6.0 Suspension
- 450 HP Powertrain
- 910 Amp Alternator
- In Vehicle Network (IVN)
- Double V Hull
- Higher Rated Tires
- Increased Axle Spacing
- Larger Fuel Tank
- Integrated Driver Protection
- Integrated Mine Blast Survivability

No Integrated Underbelly Protection → **Regains ORD Performance Levels**

M151 Remote Weapon System (RWS):

- TIM 1500 (BAE) MicroIR day/night sensor
- Components approaching obsolescence and sustainment cost is increasing
- RWS only mounted on Stryker Platform

CROWS-J 2CR ONS (M153 CROWS II):

- TIM 1500 (BAE) MicroIR day/night sensor
- Greater flexibility to employ current assigned weapons; adds Javelin under armor
- Provides commonality across Army platforms
- No smoke grenade launcher

CROWS-J ECP 2a (M153A4):

- Enhanced DRI with improved LR TIM (3500m)
- Improved high resolution display / digital backbone
- Returns smoke grenade launcher to system
- Addresses obsolescence impacting in FY20

Assault Amphibious Vehicle

System Overview

- **Platform Density:**
  - Command Variant (X2M): 59
  - Personnel Variant (X3M): 716
  - Logistics Variant (X4M): 42
- AAV Life Cycle Extended to 2035
- DMSMS material challenges with aged fleet

On the Horizon

- Maintenance Center Albany: 42 AAVs (All Variants)
- Maintenance Center Barstow: 48 AAVs (Personnel Only)
- Both depots will operate IROAN and transition to Return to Condition Code "A" Program (RCCA) – FY

Future State

- USMC Pursuing FMS cases with Foreign Vendors
- To be Replaced by Assault Combat Vehicle (ACV)
  - BAE & SAIC Building 16 LRIPs ACV Variants (ACV 1.1)

Top FSCs by Order Volume (Annual)

FSC	Requisitions
5310 (Nuts and Washers)	76,166
5331 (O-Rings)	49,308
5305 (Screws)	41,283
4730 (Fittings and Specialties)	21,885
5340 (Hardware,	19,490

Light Armored Vehicle Family

Overview

- Marine Corps Light Armored Vehicle
  - Seven variants
  - Low Density – AAO is 808 vehicles
  - Aged vehicle, fielded in the 1980s
  - Recon mission role with amphibious capability
  - Expected to remain in the fleet until 2035

Projected Efforts

- Modernization of Anti-Tank Variant
- Obsolescence Program focus: power train, engine, turret slip ring, drivers instrumentation panel, & steering

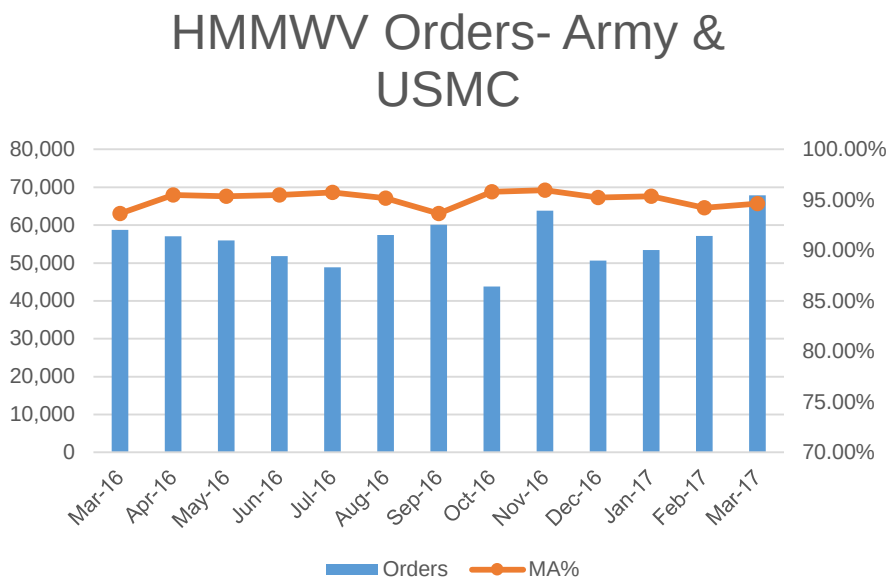
Future State

- Sustain the fleet until 2035
- Maintain Fleet Readiness through the Life Cycle

Top Readiness Drivers by FSC

FSC	NIINs/Requisitions
2520 (Vehicle Power Trans Components)	3/41
2540 (Vehicle Furniture & Accessories)	3/23
6150 (Misc Elect Power & Distribution Equip)	4/22
3040 (Misc Power Trans Equipment)	3/21
9340 (Glass Fabricated Materials)	1/19

Light Tactical Vehicles



Intel Received

- Systems include HMMWV
- HMMWV Ambulance program at Rock Island to build 600+ trucks
- EXORD to divest more than 8000 Legacy HMMWVs (966, M998, M1037,M1038, M1025, M1026 and M1114)
- FMS Sales anticipated to increase

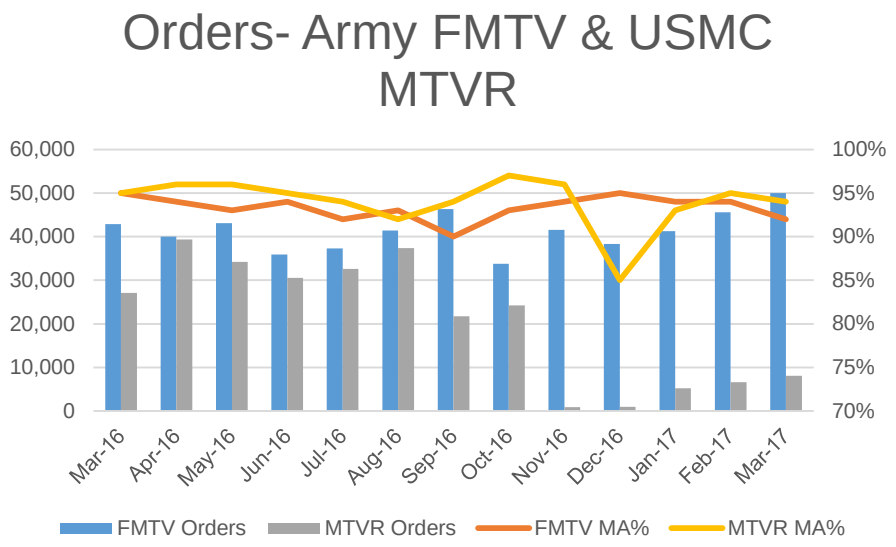
Proposed Action Plan

- Continue to work with Army regarding readiness as drivers are identified for LTV fleet
- Continue to work with RRAD and TACOM regarding ongoing reset efforts

Objectives

- Support readiness
- To reduce / eliminate any excess stock buys
- Support rebuild
- Minimize backorders

Medium Tactical Vehicles



Intel Received

- Previous FY reset totals 556 with an additional 687 FY 17 systems
- Systems include FMTV's and MTVR

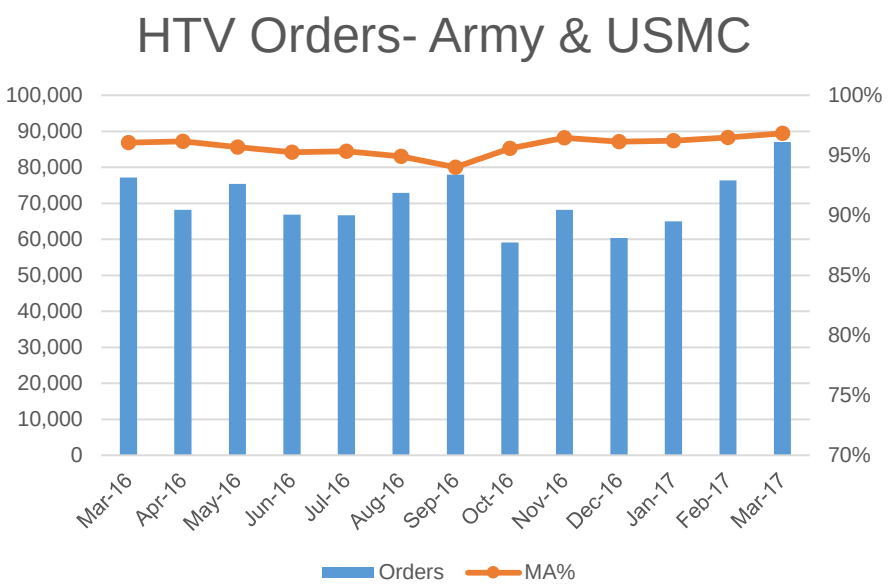
Proposed Action Plan

- Continue to work with Army and USMC regarding readiness as drivers are identified for MTV fleet
- Continue to work with TACOM, MARCORSYSCOM and RRAD regarding ongoing reset efforts

Objectives

- Support readiness
- To reduce / eliminate any excess stock buys
- Support rebuild
- Minimize backorders

Heavy Tactical Vehicles



Intel Received

- Previous FY reset totals 223 with and additional 49 FY 17 systems
- Systems include Tanker, LET, Wrecker, LHS and Cargo
- Oshkosh to rebuild 454 battlefield trucks. DLA researching excess parts availability to support program

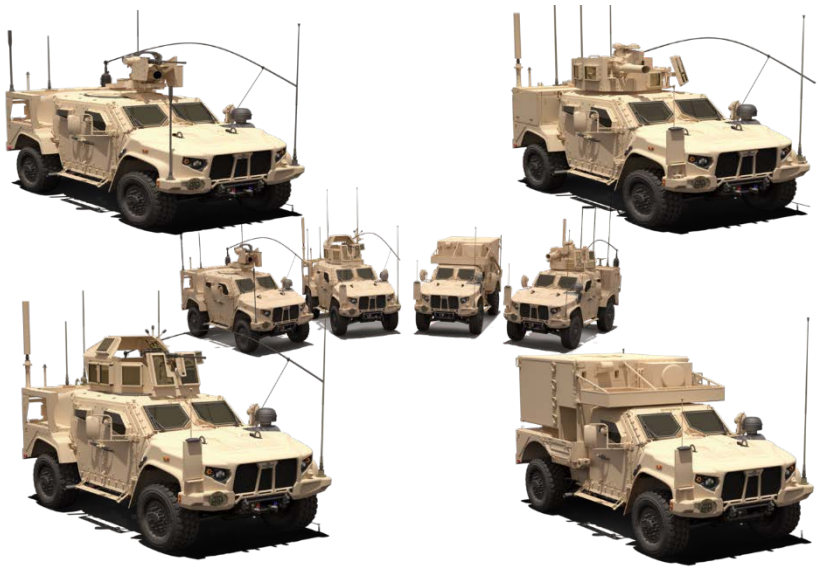
Proposed Action Plan

- Continue to work with Army regarding readiness as drivers are identified for HTV fleet
- Continue to work with RRAD and TACOM regarding ongoing reset efforts
- Army – 223 vehicles in OPEN reset status

Objectives

- Support readiness
- To reduce / eliminate any excess stock buys
- Support rebuild
- Minimize backorders

JLTV Program Overview



Intel Received

- EST 54,999 Vehicles
  - 4 different Variants
- LRIP continues
- FRP decision First Quarter 2019
- IOC Decision First quarter 2020

Proposed Action Plan

- Continue to work with Army and USMC to support Organic support decision
- Army Purchased the TDP
- Support opportunities - PBL, LTC's and manual awards
- Provisioning effort ongoing - working with Oshkosh and PM Office

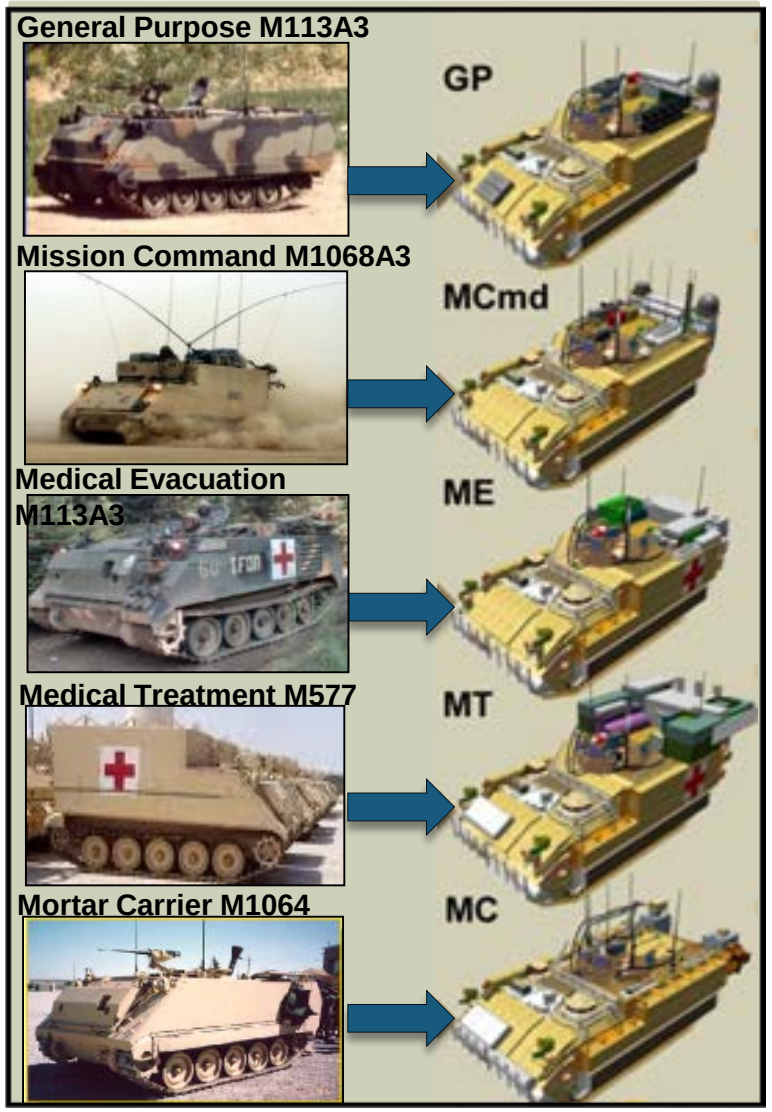
Objectives

- Support fielding and readiness
- To reduce / eliminate any excess stock buys
- Support Organically

AMPV Program Overview

- Provides a materiel solution to replace ABCT M113 FoVs only
- Solution for EAB M113s will be a future decision with potentially different requirements
- Entered at MS B 22 Dec 14 due to mature technology
- Full and Open Competition with single award for EMD with options for LRIP
- Reuse of Bradley and M113 components supports affordability but limits flexibility for redesign without schedule and cost impact
- Vehicle / Integration program – not a mission equipment package development program. Leverage existing M113 MEP where possible.
- Army Acquisition Objective = Army Procurement Objective is 2,897

Program Based on Bradley for Affordability

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