



PEO GCS Portfolio Overview

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Heavy Brigade Combat Team

- 2,338 Abrams Tanks
- 4,559 Bradley Fighting Vehicles
- 465 Armored Knights
- 969 Paladin/PIM/FAASV
- 3,901 M113 Family of Vehicles
- 1,056 M88 Recovery Vehicles
- Armored Multi-Purpose Vehicle (AMPV)



Robotic Systems

- XM1216 Small Unmanned Ground Vehicle Family
- M160
- MARCbot
- Packbot Family
- TALON Family
- Mini EOD
- 4,026 Joint (Army and Marine Corps) platforms
- 14+ Joint Robotics Repair Detachments around the world

PEO GCS PORTFOLIO
~ 17,500 Combat Vehicles
~ 4,000 Robotic Systems



Ground Combat Vehicle

The Ground Combat Vehicle is a critical element of the Army's combat vehicle modernization effort and represents the first vehicle designed to operate in the Improvised Explosive Device (IED) environment and provide protected mobility critical to Soldiers' success.



Stryker Brigade Combat Team

- 4,074 Flat Bottom Strykers
- 547 Double V-Hull Strykers
- 10 Variants:
 - Commander's Vehicle
 - Medical Evacuation
 - Infantry Carrier
 - Engineer Squad
 - Mobile Gun System
 - NBC Reconnaissance
 - Mortar Carrier
 - Anti-Tank Guided Missile
 - Reconnaissance Fire Support



* Does not include systems in long-term storage

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Portfolio Assessment Over Time

<u>Current Vehicle</u>	<u>Key Issues</u>	<u>Decision Point</u>	<u>Short Term (2015)</u> Negligible Portfolio Improvement (CPAT)	<u>Mid Term (2025)</u> 17% Portfolio Improvement (CPAT)	<u>Long Term (2035)</u> 27% - 40% Portfolio Improvement (CPAT)
 M2A3 IFV	- Force Protection - Capacity - SWaP-C	Milestone B, 4QFY13 – design decision	 M2A3 IFV	 GCV – IFV	 GCV – IFV
 M113 FOV	- Force Protection - Mobility - SWaP-C - Fleet mix	AoA DAB IPR, 4thQTR FY12: Milestone entry point decision	 M113 FOV	 AMPV FoV	 AMPV FoV
 M1A2 SEPv2	SWaP-C	ECP Production Decision: FY16	 M1A2 SEPv2	 ECP1	
 Bradley A3 Non-IFV: -M3A3 Cav Fighting Veh -M7A3 BFIST Bradley A2 Non-IFV: -M2A2 ODS-E	SWaP-C	ECP Production Decision: FY13	 ECP1	 ECP1 + ECP2	
 Stryker FOV	- SWaP-C - DVH - FBH	ECP ASARC, 2QTR FY13 – ECP scope determined	 FBH DVH	 ECP Scope to be determined	 Future DVH Stryker?
 M109A6	Underbelly Protection	Milestone C, Jun 2013 – underbelly protection level determined	 M109A6	 Paladin PIM (T2)	 Future Howitzer?



Portfolio S&T Priorities

- Force Protection
 - Lightweight Armor
 - IED Protection
 - Blast Mitigation
 - Hit Avoidance
 - Transparent Armor
- Robotics
 - Autonomous Controls
- Enhanced Mobility
 - Lightweight Track
 - Next Generation Combat Engine
- Operational Energy
 - Fuel Efficiency
- Increased Electrical Power
- Enabling Network



Commonality

- **Status:**

- VICTORY 1.3 Released, Feb 2012
- PEO GCS Common Vehicle Architecture Description (CVAD) 1.0 released 3rd Qtr FY12
 - System and Hardware focused
 - Incorporates VICTORY 1.1
 - Includes Systems Views and Stdv-1 for GCS fleet
- Ongoing collaboration with PEOs, COE, NIE, and Industry

- **Challenges:**

- Aggressive schedules of COE, NIE, Weapon Systems, and other acquisition partners
- Barriers to commonality continue to exist (Knowledge sharing, communication, requirements)

- **Way Ahead:**

- Continued coordination and analysis for commonality opportunities
- Establishing VICTORY and CVAD as the primary PEO GCS weapon system integration approach across the portfolio (e.g. new start, ECPs, current), as well as materiel solution providers, NIE, COE, and Industry



Challenges & Opportunities

- Challenges:
 - Industrial Base: Critical task is to identify and retain essential manufacturing and intellectual skills vs. keeping Plants/Depots open
 - Transition of the Army's first digitized combat systems/platforms (Abrams, Bradley, and Stryker) from production to sustainment
 - Systems Integration: Today's vehicle systems integration must go beyond NIE appliqué solutions to systems integrated by design (e.g. Joint Ground Vehicle Center of Excellence, Future Vetronics, and VICTORY Systems Integration Labs)
 - Unmanned Ground Systems: Prepare for the future given renewed emphasis from DoD strategic guidance, lessons learned from recent conflict, emerging requirements and reduced funding
- Opportunities:
 - Implement Better Buying Power (BBP) to control costs while maintaining best value for the Warfighter and taxpayer
 - Streamline the acquisition process to enable materiel developers to put critical capabilities quickly into the hands of Warfighters
 - Right size the Defense Industrial bases to meet the Army's needs of 2020 and beyond

PEO GCS portfolio remains critical to support the Army's ability to execute the emerging DOD strategy

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Accomplishments during a Decade at War

- Survivability upgrades to Combat Vehicles
 - Stryker Double V Hull
 - M1200 Armored Knight
 - Bradley A3 acceleration
 - Tank and Bradley Urban Survivability Kits
 - Stryker SLAT armor
 - Abrams/Bradley Reactive Armor Tiles
 - CREW integration
- Stryker Family of Vehicle 27 million combat miles at 96% Operational Readiness rate
- 6000+ Robots fielded and sustained in theater thru Joint Robotics Repair Facilities