

# PM Crew Served Weapons LTC Paul E. Alessio



2 June 2015

#### Product Manager Crew Served Weapons



#### **Near Term**



Compact Semi-Automatic Sniper System (CSASS)



M3 Carl Gustaf (MAAWS)



Non-Standard Weapons



XM1116 12 Gauge Extended Range NL Cartridge









Common Caliber Crew Served Weapon



Lightweight Machine Gun – Medium



**Externally Powered Weapon** 



**Precision Sniper Rifle** 

**Fire Control** 



Crew Prec Weapons Wea

Weapons

"Provide premier Soldier weapons systems enabling battlefield dominance"

As of: 14 May 15





- •Near Term:
  - Continue to increase capability by introducing product improvements including advanced enablers (i.e., optics), lightweight materials, and ammunition improvements to legacy weapons
  - Continue efforts to inform new requirements
  - Support configuration study to establish better requirements reducing user error budget (Fire Control, Optics, Stabilized Mounts etc)
  - Field commercially available Fire Control Technologies
- Mid Term:
  - Integrate technology advances from S&T programs into current and next generation small arms systems
  - Track and leverage S&T projects for solutions that meet Volume Effects gaps
  - Fire Control Program of Record

#### • Far Term:

 Apply emerging ("revolutionary") technologies to the design /development of totally new types of weapons including command/self guided systems and directed energy solutions if soldier portable



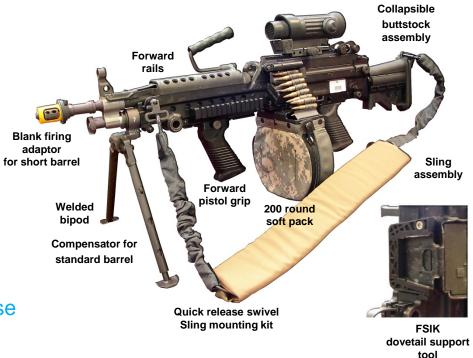
### M249 Then and Now



Then (1984) Extractor improved Gas system redesign Hydraulic Buffer Improved trigger guard Improved Barrel heat shield 100 and 200 round soft packs Feed tray cover rail Improved bipod **Forward Rails** adaptor Short Barrel and BFA **Collapsible Buttstock** Lightweight charging handle Lightweight feed tray 3.25" shorter Improved capability with no weight increase

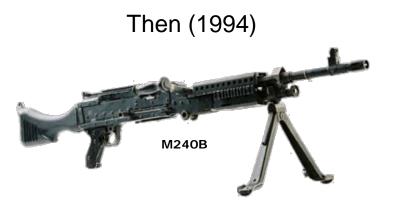
25 Major Performance-related Engineering Changes Since 1984

#### Now



### M240 Then and Now





Hydraulic Buffer Front Accessory Rails Combat Ammo Pack Improved sling Improved barrel bag Collapsible Buttstock Short Barrel Titanium Receiver (5.8 lbs lighter and 4" shorter) 16 Major Performance-related Engineering Changes Since 1998

Now





## M2 Then and Now



Then (1933)



*Quick Change Barrel Upgrade 1<sup>st</sup> Major Significant Engineering Change Since 1933* 

Now

- Quick Change Barrel with integral handle
- Fixed Headspace and Timing
- Flash Hider





### **MK19 Then and Now**





Mod Kit is the first significant upgrade since 1968 and has been fielded Army wide

Completed fielding in FY08

- TWO-PIECE COCKING LEVER
- FIRING PIN SEAR AND FIRING PIN
- ADJUSTABLE SECONDARY DRIVE LEVER
- DOVETAIL FOR MOUNTING ADJUSTABLE SIGHT BRACKET

Now



FUTURE: MK19 GMG, Mod 5

- NEW MK19 BARREL
- NEW VERTICAL CAM
- NEW ROUND POSITIONING BLOCK
- NEW COCKING CAM AND LEVER
- NEW MECHANICAL SIGHT



## **Tripods Then and Now**

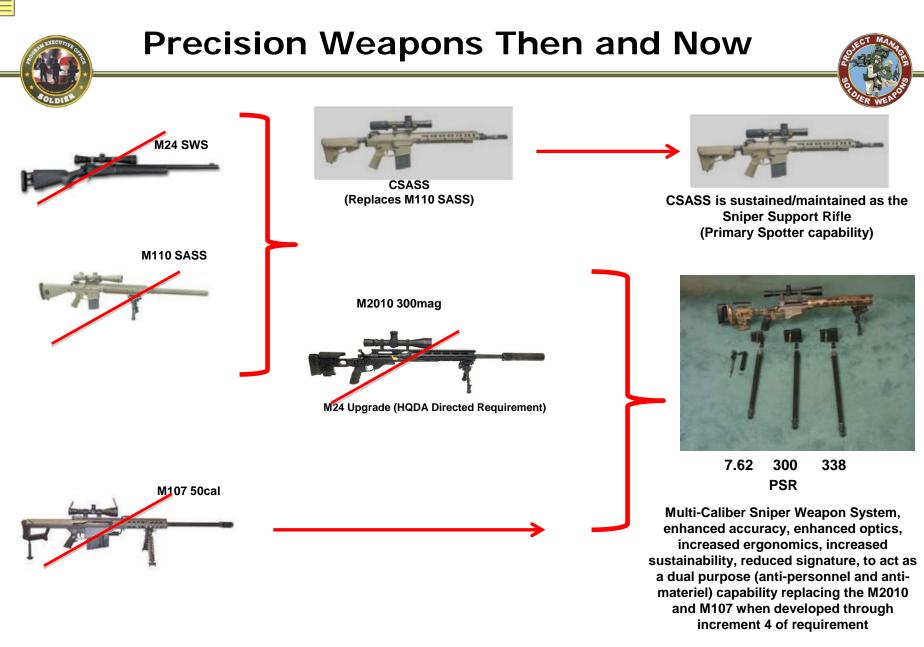




- Integral T&E mechanism allows for onehanded operation
- No Adaptors required

Strength, Stability, and Reduced Weight

16 lbs lighter









Handheld Control Grip



# Fire Control, Crew Served & Precision



- Description:
  - Integrated fire control optic consisting of direct view optic, ballistic module, atmospheric sensors, range finder, and in-scope display overlay

Requirement:

- Draft Capability Development Document (CDD) in process
  - Squad, Precision, and Crew Served as one CDD with separate Engineering and Manufacturing Development efforts
  - Squad, Precision, and Crew Served as three separate Capability Production Documents CPDs with Production and Deployment efforts
- Acquisition approach:
  - Full and Open Competition to award contract for a development effort





Precision: PSR and CSASS Crew Served: M2 and MK19, M240 Industry Day #1, Aug 2015 Requirement approval, 4QFY16