Agenda

- Small Arms Capabilities Based Assessment
- Soldier lethality
- Small arms capability today
- Small arms capability tomorrow
- Strategic communications
- Small arms division organization
Small Arms CBA
Process and Participation

• Needed to establish the analytical basis for small arms requirements

• ARCIC initiated in FEB 07
  • Study Team included broad base of knowledge and skills, significant Soldier input
  • Identify tasks, establish conditions and standards, and assess current capability against those standards to identify areas of interest
  • Assess a combination of non-materiel and materiel solutions
  • Prioritize non-materiel and materiel solutions

• ARCIC approved MAR 08

Participation in each phase of the Small Arms CBA included

User: (TRADOC Schools and Centers, 197th IN Bde, 82nd ABN, 75th Ranger)
Joint: (JSSAP, USMC, USAF)
Technical: (ARL, AMSAA, ARDEC)
Programmatic: (Sensors & Lasers, Soldier Weapons, Maneuver Ammunition Systems)
Small Arms CBA
What Soldiers Need

• See the enemy
  • Beyond weapon ranges for situational awareness
  • At weapons ranges for engagement
  • All conditions
  • Day or night
  • Bad guys vs. civilians

• Kill the enemy
  • Really about effect (or incapacitation)
  • Impacts of range versus time
  • Noise and light discipline
  • Breaching capability
  • Maintenance and Reliability

Not exactly a revelation
A different approach in small Arms

Soldier + Training + Weapon + Optic + Ammo = Effect
Soldier Lethality

Lethality isn’t just about the weapon.....

- Soldier
- Training
- Weapon
- Optic
- Ammunition

EFFECT
Improving Soldier Lethality

• Lethality is like real-estate……location, location, location

• Solutions to improve lethality
  • 0-50m: Training, Ammo and Techniques
  • 50-500m: Training and Optics/Fire Control

• Factors for hitting downrange targets
  #1 Aim point
  #2 Range Estimation
  #3 Environmental
  #4 Dispersion of weapon

Requires quality hit on the target
Today’s Small Arms Capability

• M4 is effective weapon in combat
• Expanded issue of Rail Adapter System
• Unprecedented capability (optics+)

• Enormous field support for all 3 weapons
• Expanded issue of optics on M249 & M240B
• Improved of night capability
• Effective sustainment of M249

• Currently fielding M110 Semi-Auto capability
• Expanded use of precision engagement assets
• Fielding of Advanced Sniper Accessory Kit
Tomorrow’s Small Arms Capability

- Monitor Air Force handgun effort
- Add sub-compact capability to the force
- Optics on every weapon
- Expand precision engagement capability in squads

- Performance, Safety, Reliability, Weight
  - M240E6 4.5 lb lighter, lighter tripod
  - Heavy Machinegun day optic
  - E50, Fixed Head-space and timing, quick change barrel

- Expand capability of sniper suite, issue
  - Pursue 1500m anti-personnel weapon
Strategic Communications

Small Arms Community

Soldiers

Balance Technical Maturity and Operational Value

Joint Services

Infantry Center

Industry
Enable Soldiers to be effective in their operational environment