Munitions Executive Summit
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PM Panel Discussion

Presented by:
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Program Executive Office Ammunition Organization

**Project Manager**
**Combat Ammunition Systems**
- Indirect Fire Munitions and Mortar Weapon Systems
  - Excalibur
  - Guided Precision Munitions & Mortar Systems

**Project Manager**
**Close Combat Systems**
- Networked Munitions, Force Application Systems, Explosive Hazard, and Countermine
  - Counter Explosive Hazard
  - Area Denial
  - Combat Systems
  - Support Munitions

**Project Director**
**Joint Services**
- SMCA Integration
- Demilitarization
- Ammunition Industrial Base
- Ammunition Logistics R&D
- Technology and Prototyping

**O/EDCA**
**Executive Director**
Conventional Ammunition
- SMCA Assessment

**Chief of Staff**
- Systems Acquisition
- Business Management
- Human Resources
- International
- CIO
- S&T

**Project Manager**
**Towed Artillery Systems**
Support Fires for Maneuver forces
- M777A2 Lightweight 155mm Howitzer
- M119A3 105mm Howitzer Digitization
- Target Acquisition

**Project Manager**
**Maneuver Ammunition Systems**
- Networked Munitions, Force Application Systems, Explosive Hazard, and Countermine
- Counter Explosive Hazard
- Area Denial
- Combat Systems
- Support Munitions

**Project Director**
**Joint Products**
- Air Force and Navy Bombs
- Navy Deck Gun Ammo
- Energetics
- CAD PAD

**O/EDCA**
**Executive Director**
Conventional Ammunition
- SMCA Assessment

Develop, equip, and sustain lethal armament and protective systems enabling joint warfighter dominance

Single Manager for Conventional Ammunition
Conventional Ammunition Modernization Strategy

- The Soldier and the Squad are the centerpiece of the Army Equipment Modernization Strategy.
- Lethality is the main effort that guides development of key capabilities, and ensures operational overmatch in all operating environments.
- Ammunition is a key enabler that empowers and enables Soldiers and squads to maintain overmatch against any adversary in terms of lethality dominance in an ever-evolving threat environment.

LETHALITY
The ability to kill or cause physical destruction (TRADOC Pam 525-3-1)

The Army will develop Leap-Ahead, Highly Lethal Ammunition for Soldiers & Future Combat Weapon Systems, and Modify existing Ammunition Systems to Meet Near Term Capability Gaps for Lethality, Precision and Overmatch. We will Reset and Sustain for the Current Fight and Divest Systems to Free up Critical Sustainment Resources. Continue to preserve the War Reserve and Ammunition Production Base and accept risk in training.

Current Strategy (LIRA-17)

- RDT&E for Small Caliber One Way Luminescence and Lightweight Small Caliber Ammunition
- RDT&E for 40mm Low Velocity Increased Range Anti-Personnel and warhead improvements
- RDT&E for Advanced Armor-Piercing and All Purpose tactical Cartridge for .50 Caliber
- Reduced Range Training Ammunition

NEAR (FY17-21)
- Focus on efforts to increase lethality and range of current small and medium caliber ammunition
- Begin fielding the 120mm Advance Kinetic Energy cartridge

MID (FY22-31)
- Focus on efforts Enhanced Lethality and extended range for Artillery and Mortar munitions and improved fuzing
- Begin fielding of 120mm Advanced Multi Purpose Tank cartridge
- Finalize requirements for handgun, sniper and counter

FAR (FY32-46)
- Begin next generation of breaching devices, counter mobility and demolitions.
- Begin next generation counter defilade target engagement munitions
- Begin next major modernization effort for artillery, mortars and tank ammunition

Warfighting Functions
- Movement & Maneuver
- Fires
- Maneuver Support and Protection
- Conduct Engagement

Tenets of Army Operations...
- Initiative
- Simultaneity
- Endurance
- Lethality
- Depth
- Mobility

Endstate
- Brigade Combat Teams with unmatched Lethality, and Survivability capable of conducting Expeditionary Maneuver and Joint Combined Arms Operations in support of Unified Land Operations
PEO Ammo Focus Areas

**Flares & Signals**

**Near-term:**
- Defeating increased threats to aircraft
- Environmentally friendly materials

**Mid-term:**
- Defeating advanced aircraft threats
- Lighter and more tunable countermeasures (multi-purpose)

**Long-term:**
- Fully tunable effects (user selectable)

**Tank Ammo**

**Near-term:**
- Advanced KE and AMP

**Mid-term:**
- DU alternates

**Long-term:**
- Guided extended range for advanced targets

**Small Cal**

**Near-term:**
- OWL and ADVAP

**Mid-term:**
- Lighter weight ammo

**Long-term:**
- Extended range guided with user tunable effects
- “Trace” capability in smart sight on the weapon vs. on the round
- “Ammo on demand” - user has the capability to “produce” the ammo as needed.

**Artillery & Mortars**

**Near-term:**
- Fielding light-weight weapons / Precision ammunition
- Producing High Explosive (HE) rounds with insensitive munition fills
- Compatibility with M-Code GPS

**Mid-term:**
- High Explosive Guided Mortar (HEGM)
- Light-weight digital fire control
- Longer range through ammo improvements

**Long-term:**
- Longer range through weapon upgrades
- Light vehicle mounted direct/indirect fire mortar (ADIM)

**Demolitions:**

**Near-term**
- Improving producibility of Modernized Demolition Initiators (MDI) components (i.e., blasting cap)

**Mid-term**
- More portable and modular components
- Reducing collateral damage
- Developing more IMX compliant items

**Long-term**
- Non-kinetic neutralization of explosives from standoff.
Medium Caliber
Near-term:
• Increased lethality through warhead and round design
Mid-term:
• Extended range and guidance
Long-term:
• Collaborative/swarming effects
• “Ammo on Demand”

Non-Lethal
Near-term:
• Improvements to the 40mm and 12 ga ammunition
Mid-term:
• More covert and passive marking of targets
Long-term:
• Integrated lethal and non-lethal effects and non-kinetic engagement

Area Denial
Near-term:
• Spider (all increments)
Mid-term:
• FASCAM (Family of Scatterable Mines)
Long-term:
• Remote/autonomous emplacement and scalable effects.

Counter Explosive Hazard (CEH)
Near-term:
• Fielding of mounted systems (HMDS)
• Development of autonomous operations (AMDS)
Mid-term:
• Greater speed and standoff for detection marking and lower cost technologies
Long-term:
• Detection and non-kinetic neutralization of explosives from standoff

Grenades
Near-term:
• Benign smoke & fuze/primer upgrades
Mid to long term:
• Dual use lethal/stun grenade and multi-smoke grenades
Long-term:
• Non-kinetic effects and lighter weight
At the End of the Day...

We’re Meeting Joint Warfighter’s Needs!