PEO

NDIA Forum 12 November 2013 Picatinny Arsenal

mmunition

Presented by: BG McGuiness PEO Ammunition

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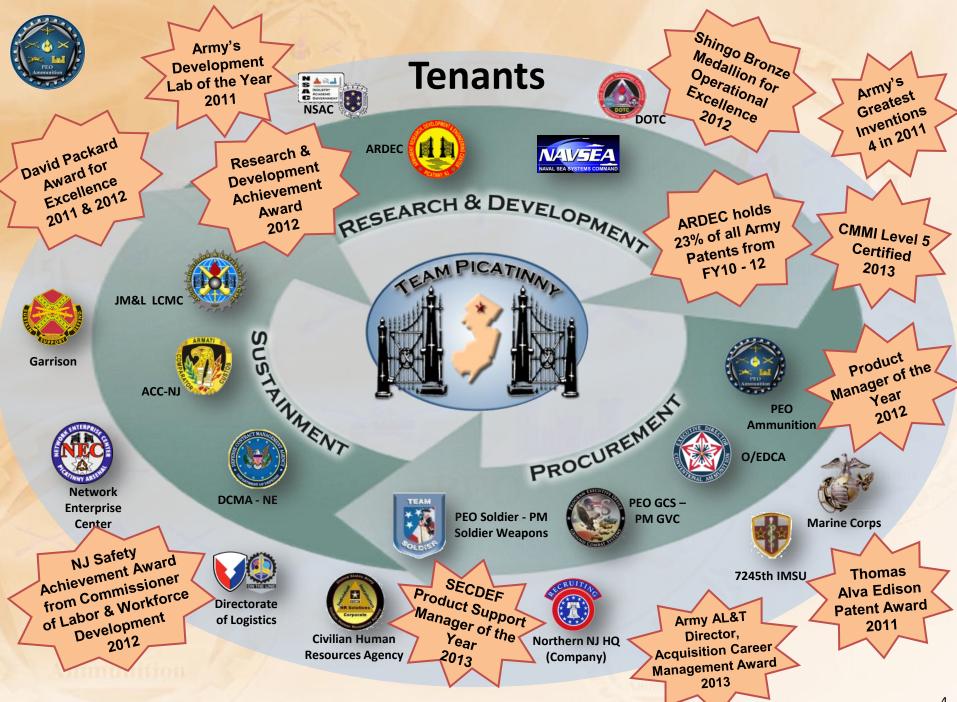


Picatinny Arsenal "DoD Joint Center of Excellence for Guns & Ammunition"

- Employees 5,955
 - -1,258 advanced degrees
- Over \$4.6B annual budget
- Acres 6,493
- Structures 1,010
- Armaments laboratories 64
- Over 1 million square feet of research space

- Technologies transitioned to the Joint Warfighter:
 - 59 Full and 95 Urgent Materiel Releases since 2008
 - Enabled fielding of 234 new weapons and equipment since 9/11
- Partnered with Industry, Academia, and other gov't agencies - 140 Cooperative Research & Development Agreements

"This is a unique facility with a critically important mission; there really is no other government or industry counterpart to Picatinny." -Sec Army John McHugh, Sept 2013





We Support the Joint Warfighter and . . .





Marines

Navy



Army





Air Force

Coast Guard

Defense

- Joint Improvised Explosive Device Defeat
 Organization
- Defense Ordnance Technology Center
- US Northern Command
- Defense Threat Reduction Agency
- US Special Operations Command
- Defense Advanced Research Projects
 Agency

Other Government Agencies

- Department of Justice
- Department of Homeland Security
- Federal Bureau of Investigation
- State Department
- Transportation Security Administration
- New Jersey Department of Transportation
- New Jersey State Police
- Department of Energy

Every Joint Warfighter is equipped with world-class Picatinny lethality!



Program Executive Office Ammunition Organization



Project Manager Combat Ammunition Systems

Indirect Fire Munitions and Mortar Weapon Systems

COL Willie Coleman

 Excalibur Guided Precision Munitions & **Mortar Systems**



COL Richard

Hornstein

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

- Demilitarization
- Ammunition Industrial Base Ammunition Logistics
- Technology and Prototyping



Cummings

O/EDCA **Executive Director Conventional Ammunition**

SMCA Assessment

CAPT Ronald Kocher USN

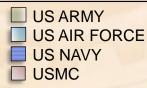


PEO Ammunition BG John McGuiness



DPEO Ammunition Mr. James Shields

A world class organization delivering the most capable and affordable ammunition, weapons and counter IED products to the Joint Warfighter as efficiently as possible.





Chief of Staff

- Systems Acquisition
- Business Management
- Human Resources
- International

CIO



Project Manager Towed Artillery Systems

Support Fires for Maneuver forces

Mr. Keith Gooding USMC

- M777A2 Lightweight 155mm Howitzer
- M119A3 105mm Howitzer Digitization



Project Manager Maneuver Ammunition **Systems**

Direct Fire Munitions • Large, Small, Medium and Large Caliber Non-Standard Ammunition



COL Victor Rodriguez USAF

Project Director Joint Products

 Air Force and Navy Bombs Navy Deck Gun Ammo Energetics CAD PAD

Single Manager for Conventional Ammunition



PEO Modernization Strategy

Emerging Technology (next 6 Years)	Next Generation (6-16 years)	Future Concepts (16+ years)
Artillery Systems Precision Guidance Kit	Affordable, Anti-Jam Precision Extended Range Guided (Ammo and Weapon)	Extended Range Autonomous Weapons Swarming Munitions Non-Kinetic Engagement
Mortar Munitions and Weapon Systems Precision Mortar w/6 DOF Ballistics Extended Range Ammo	5 Affordable, Anti-Jam Precision Lightweight Fire Control Extended Range Guided Projectiles	 Extended Range Autonomous Weapons Direct & Indirect Fire Swarming Munitions Non-Kinetic Engagement
Demolitions, Flares & Signals Increased Countermeasures & Environmentally Friendly Modernized Demolition Initiators (MDI) Producibility Improvements	Defeat Advanced Threats Modular, Scalable & Prepacked	•Remote Emplacement & Initiation •Scalable/Tunable Effects
Tank Ammo 120MM, Advanced Kinetic Energy Multi-Purpose	Depleted Uranium (DU) Replacement	Long Range Scalable Effects Autonomous Systems Non-Kinetic Engagement
Small & Medium Caliber One Way Luminescence (OWL) 7.62 EPR 40mm Non Dur Prod.		 Scalable Effects / Swarming Munitions Non-Kinetic Engagement Ammo on Demand Information Dominance / Reduced Detection
Non-Lethal Individual Non- Lethal System (INS) (will transition to PM SW)	Passive and Covert Target Marking Extended Range	Integrated Lethal/Non-Lethal Non-Kinetic Engagement
Shoulder Launched & Area Denial Individual Assault Munition (IAM)	Standoff Entry Breaching and Asset Neutralization Next Gen Networked Munitions	 Longer Range – Advanced Target IAM Non-Kinetic Engagement Deep Insertion Networked Munitions with Moving Vehicle and Anti-Tank Capability and Non-Munition, Non-Lethal Capability.
Counter Explosive Hazard Mounted Detection and Marking Robotic Dismount Detection and Marking	Increased Speed and Stand-off Automated Standoff Explosive Detection, Marking & Neutralization	• Automatically Anticipate, Detect, Mark and Identify/Classify, and Neutralize Explosive Hazards
Grenades Enhanced IM with Benign Smoke	Dual Mode (Lethal/N-L) Grenade	• Lighter Weight • Greater Effects • Non-Kinetic
Industrial Base, Ammunition Logistics & Demil Ammunition Plant Modernization Modernization Ammunition Lighten the Logistics Load Ammunition Lighten the Logistics Load	Enhanced Equipment and Process for Demilitarizing IM Explosives Additive Manufacturing Facility	Flexible Production Lines/On-site production Automated Condition Monitoring, Distribution & Re-Arm Integrated Life-Cycle Design for Demil Advanced Bio-Demil Technologies

7



PEO Ammunition FY14 Budget

Operating under CRA until Jan 2014

Effects of Sequestration Cuts

Key Program Metrics

1

4

156

18

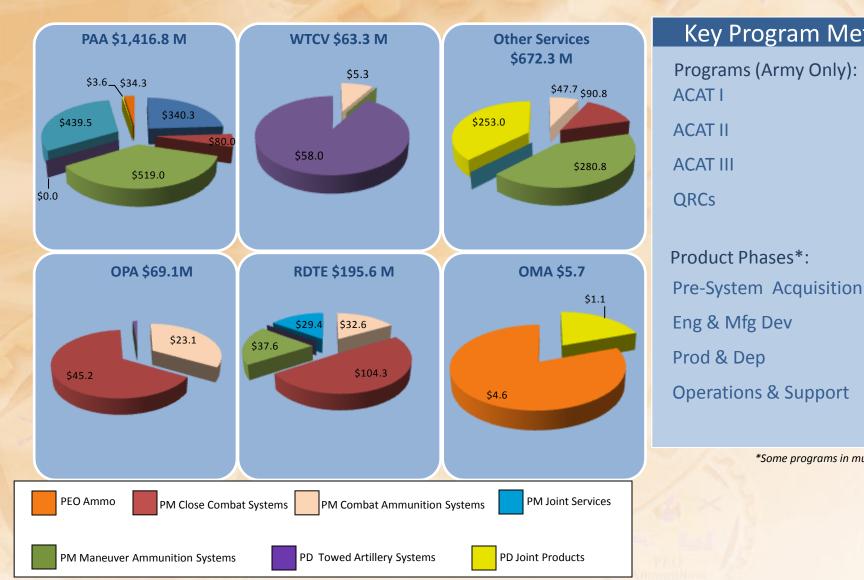
2

6

237

679

*Some programs in multiple phases



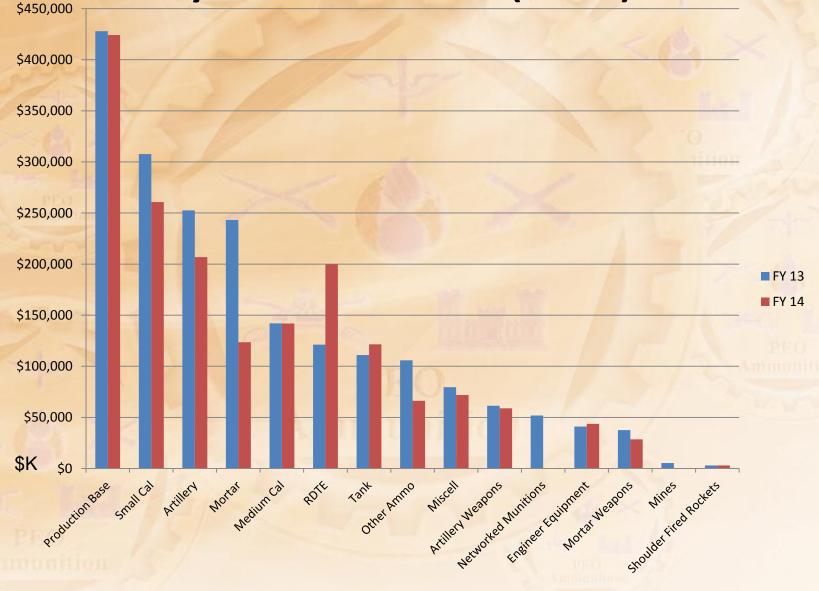


Conventional Ammunition Fiscal Outlook (FY13-18)





FY13 – FY14 Funding Comparison by Ammo Families (\$ in K)





Key Ammo Industrial Base Risks/Challenges & Opportunities

Risks/Challenges:

- Support the Warfighter
- Financial viability of ammo supply chain
- Loss of defense unique 2nd/3rd tier suppliers
- Increase in Single Point Failure suppliers & higher unit costs long term due to a lack of competition
- Less economical production rates & stretched schedules resulting in higher unit costs short term
- Reduction of industry investment in new technology
- Loss of uniquely skilled production engineering workforce
- Loss of capacity for future surge requirements

Opportunities:

- Consolidation of oversized capacity
- Leaning of manufacturing operations
- GOCO AAP Tiger Team cost reduction initiatives
- Foreign Military Sales / Direct Commercial Sales



At the End of the Day...



We're Meeting Joint Warfighter's Needs !

