### **Program Executive Office Ammunition**



25-23 April 2004

Presented By: Ms. Robin Gullifer Associate PEO, Ammunition – Program Management

Presented To: NDIA Fuze Conference



We make the ammo... You make the difference



### PEO Ammo



Develop and Procure Conventional and Leap-Ahead Munitions Combat Power to Warfighters



**GOALS** 



- Get PGM's & Smart Weapons to Warfighters
- Improve and Sustain the Conventional Stockpile
- Satisfy the Customer, Achieve Excellence
- > Grow World-Class People and Teams



# Where We Are Today

- Single Manager for Conventional Ammunition (SMCA)
  - ASA(ALT) Named SMCA 8 Jan 2003
  - PEO Ammunition Named SMCA Executor 16 Apr 2003
  - SMCA Charter in Service Review
  - All FY04 Service Funding Goes thru PEO Ammunition
  - PM's are Engaging Other Services
  - Forming SMCA Acquisition Council
  - Implementing Ammo Enterprise



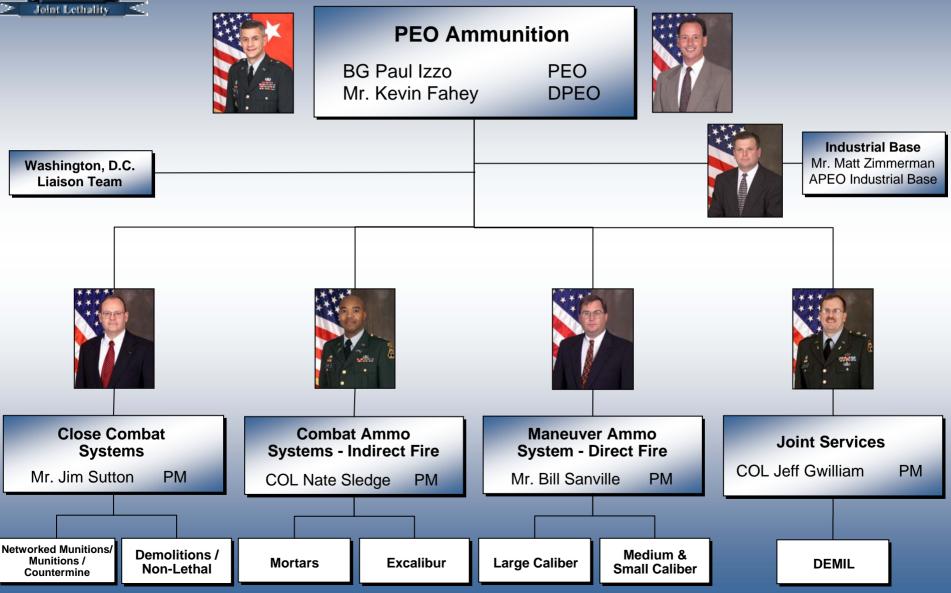
Metrics – Covering All SMCA Functional Areas



- All Major Issues Resolved
- Moving Forward With Execution
- Measuring Improvements

# PEO Ammunicion

## **PEO** Ammo Organization





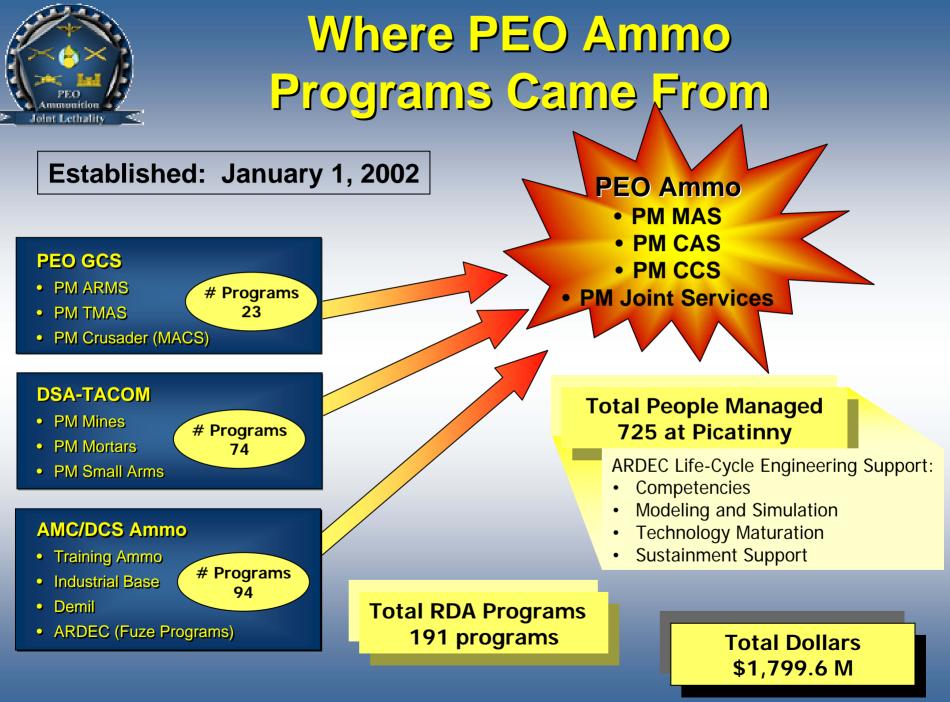
# PEO Ammo Main Objective

- Unify & Integrate Ammunition Management Under One Single Chain of Command...by Consolidating Responsibility and Resource Management in the PEO
- Develop a Unified Munitions Acquisition Strategy
  - ✓ Integrate Requirements...Training, War Reserve, & Modernization
  - ✓ Include SMCA Mission
  - ✓ By Munition Family
- > Identify and Optimize Key Business Processes
- Develop an Industrial Base
   Strategy (Organic and
   Commercial)



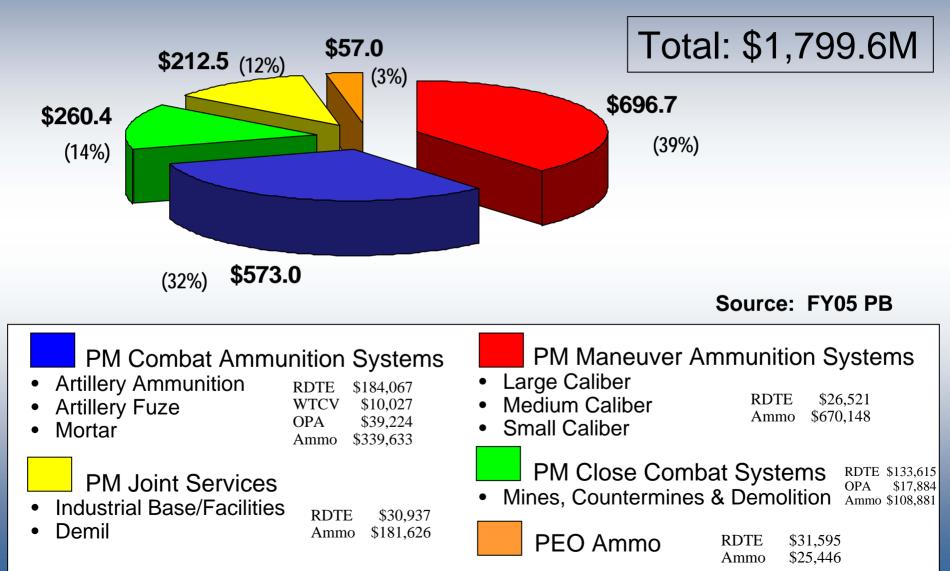
Common Themes From PNNL Study, GAO Study, and Emerging Rand Study

Authority and Accountability... For Meeting Full Military Requirement For all Ammo Families





# RDA FY 04 PEO Ammo Budget Total





# PEO Ammo Management Philosophy

- > Promote Best Value Acquisitions
- > Reinforce Success
- > Utilize Disciplined Processes
- Promote Six Sigma and Lean Design/Production
- Promote Continuous Process Improvement and Technology Insertion
- Promote Commonality and Interoperability
- Spiral or Evolutionary System Development

Put Eyeballs On – "Trust, but Verify"



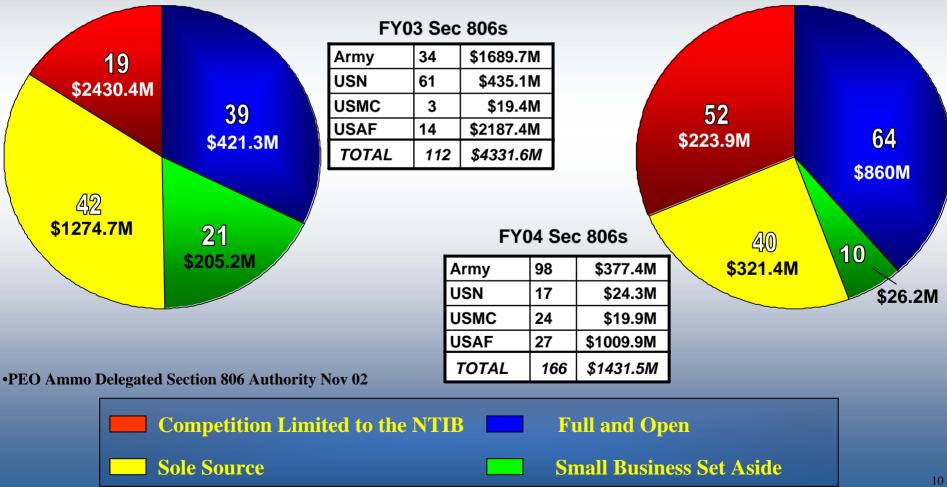
### Section 806 Summary Procurement Approach Distributions

Section 806:

Public Law 105-261, Procurement of Conventional Ammunition
Permits SMCA to Restrict Procurements to Sources within NTIB

#### **FY03 Procurements**

#### **FY04 Procurements**





## **Close Combat Systems Mission**

### Equip Soldiers with Close Combat Systems for:

#### Assured Mobility

Intelligent Munitions System Anti-Personnel Landmine Alternative (APLA) Countermine Demolitions

**15 Prime Contractors** 

30 Contracts

GOCOs

JMC

#### **Force Protection**

APLA Countermine Non-Lethal Pyro/Flares EOD Equipment

#### **Close Battle**

Hard Target Defeat Demolitions Hand Grenades Non-Lethal Pyro/Flares



**SBCT Volcano** 



AN/PSS-14 Mine Detecting Set (HSTAMIDS)

#### R&D Establishments

- TARDEC
- ARDEC
- ARL
- CERDEC



M67 Hand Grenade

#### **Combat Developers**

- USAES
- USAMPS
- USAFAS
- USASOC
- USAIS
- USMC



Selectable Lightweight Attack Munition



**Bunker Defeat Munition** 



Non-Lethal Capability Set



### **Close Battle Feedback**

#### **Shoulder Launched Munitions**



"An Awesome Weapon! My Only Regret Is That We Could Not Carry Enough Of Them!" – NCO 10th Mountain Division, Oct 03 "Using the NL claymores at a rate of 1 every two days at the POW camps to prevent escapes and riots." -800<sup>th</sup> MP Bde, 13 Feb 04



#### **Non Lethal Capabilities Sets**



"Bottom Line is that our new equipment works well and the NLM kept usfrom having to kill someone as well." LTC Brown, Battalion Commander, Bn 709th (Task Force Falcon Provost Marshall)



#### Countermeasure Flares

"The M211/M212 flares saved my life while deployed. Thank you and everyone on your team." BG Clay L Newman, Commanding Officer, ARDEC 19 Dec 03





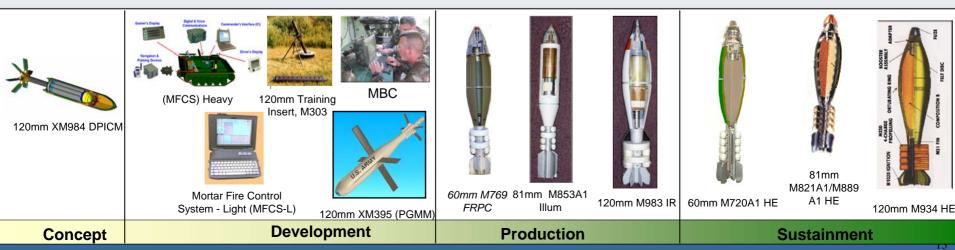
"Used to clear bunkers and rooms, and to destroy equipment and ammunition. Performed as expected"



# **PM Combat Ammunition Systems**



### Mortars



### Mortars in Battle

60mm: Illum, Smoke, WP Smoke, HE 81mm: Illum, RP, HE 120mm: Smoke, Illum, IR Illum, HE



\*On several occasions my mortar platoon was called upon to shoot missions two to three thousand meters beyond our max range. Most of these mission were in support of dismounts in a MOUT fight"

SSG Charles Weaver Jr. 4<sup>th</sup> BN, 64<sup>th</sup> Armored Regiment, 3ID Operation Iraqi Freedom, 2003



"120mm Mortar – A good system for pounding targets up in the mountains. Had to push out 120mm Mortar due to combat patrols moving out side the 7200m range"

> SFC McLaughlin, 75<sup>th</sup> Ranger Regiment in support Operations In Afghanistan, 2002



## **PM Maneuver Ammunition Systems**



KE-WA2 M829A3 M829A2 XM1002 XM908 M830A1 XM1028



# Small Caliber Ammunition

- - "...the best weapon in the Army"
  - They successfully engaged and destroyed targets (light armor, buildings and personnel) between 50-2000 meters without experiencing any major malfunctions or breakages on the weapon system
- 7.62mm: Coax machine gun and loader machine gun were most widely used weapons for tanks
  - Ammunition and weapon systems performed very well
- 5.56mm: Most soldiers considered M16 weapon series to be very accurate regardless of the version or sighting system
  - One sniper team spotter employed his M16A4 (equipped with a high powered scope) against targets at 600 and 800 meters with first round hits in each case







# **PM Joint Services Mission**

- Execute Single Manager for Conventional Ammunition (SMCA) acquisition functions
  - Manage the execution of other Services' acquisitions not currently managed by other PEO Ammo PMs



- (e.g. bombs, pyrotechnics, propellant and explosives)
  - Coordinate management of other services' acquisitions managed by other PEO Ammo PMs (e.g. artillery, cannon, small and medium caliber)
     Oversight of PM Demil



Demilitarization

Demil Mission: Perform life cycle management of demil, disposal, and resource recovery and recycling (R3) of conventional munitions for all services, and DoD and US Gov't Agencies



PEO       Integrated Product Team         Joint Lethality       Meetings         Joint Lethality       Meetings         Integrated Product Team         Joint Lethality         Meetings         PEO         •AMC         •Army G3/G4/G8         •ACSIM/AEC
QuarterlyTeloOr EOOr EOOr EOOr EOOr EOOr EOOr EOOutput for the or end of
•PMs •Industry •ASA(ALT) •ASA(I&E)

#### **Mission:**

- Provide Integrated Supply Chain Management of the Ammunition Production Base
- Optimize Planning, Coordination & Decision Making that Affects the Preparedness of the National Technology & Industrial Base

#### **General Responsibilities:**

- SMCA Directives & Army Regulation 700-90, Army Industrial Base Process
  - Develop & Maintain an Overarching Industrial Base Strategic Plan
  - Maintain GOCO Army Ammunition Plant Production Capabilities
  - Maintain a Production Base Plan
  - Plan, Budget & Implement PAA-Activity 2 and RDT&E
- Implement Section 806, Public Law 105-261, Procurement of Conventional Ammunition
  - Authority to Restrict Procurements to Sources Within National Tech & Industrial Base

## Industrial Base Strategic Plan

**30** Tactica

**Strategies** 

### **Strategic Goals:**

Ammunition oint Lethality

- 1. Transform to Meet Current and Future Requirements
- 2. Modernize Utilized Manufacturing Capacity
- 3. Balance Industrial Base & Acquisition Management Risk
- 4. Operate Efficiently and Effectively

7 Overarching

**Strategies** 

5. Incentivize Industry to Reinvest in Capital Equipment and Processes

### **Sample Overarching Strategies:**

- 1. Acquisitions Will Determine and Posture the Production Base.
- 2. Acquisitions and Investments Will be Synchronized to Assure Required Manufacturing Capabilities Remain Available.
- 3. Opportunities for Greater Joint Service Activity Will be Identified and Implemented.

**Outlines Goals and Tactics to Shape the Industrial Base** 



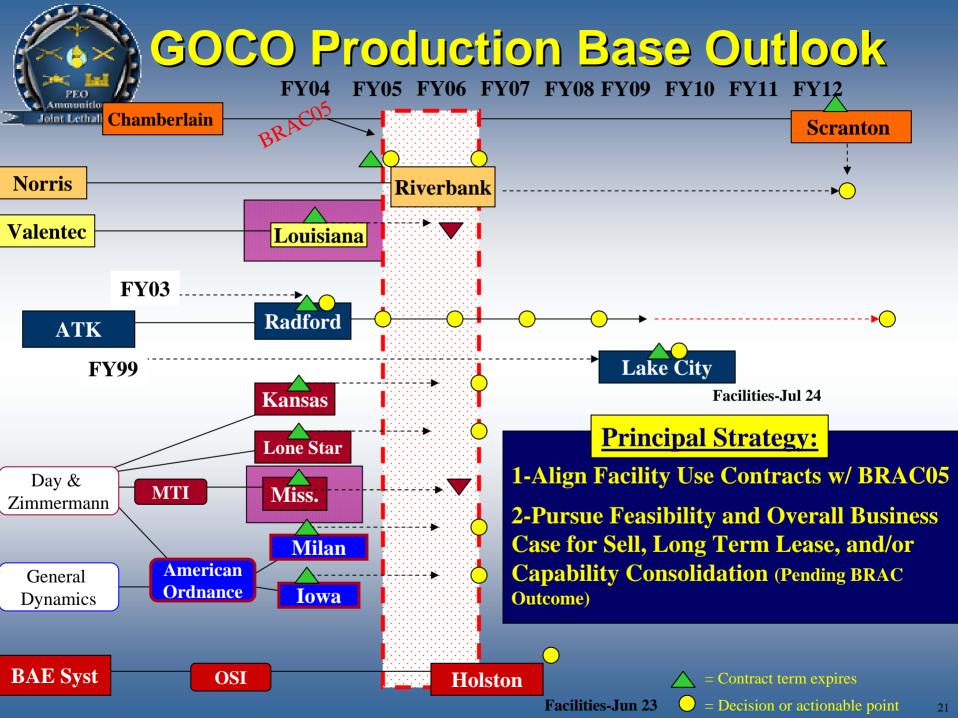


Single Manager for Conventional Ammunition (SMCA)

Industrial Base Strategic Plan: 2015 Volume A

3 November 2003

Program Executive Office Ammunition SFAE-AMO Picatinny Arsenal, NJ 07806-5000

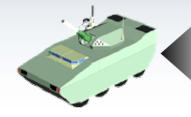




## Ammunition in support Family of Combat Systems

120mm Line of Sight (LOS)/ Beyond Line of Sight (BLOS) Mounted Combat System (MCS)

120mm Non Line of Sight (NLOS) - Mortar



155mm Non Line of Sight (NLOS) - Cannon 🛷

Infantry Carrier Vehicle (ICV)



Other

- Mid-Range Munition (MRM)
- Advanced Kinetic Energy (KE)
- Advanced Multi-Purpose Anti-Tank (MPAT)
- •Lt Wt 120mm Cannon
- Precision Guided Mortar Munition (PGMM)
- Mortar Fire Control
- Advanced Mortar System (AMOS)
- XM982 Excalibur
- Low Cost Course Correction
- Next Generation Scatterable Mines (NGSM)
- Bursting Munitions
- Medium Caliber Program
- Ground Standoff Mine Detection System
- •Intelligent Munitions System (IMS)
- Quicklook
- Air Standoff Mine Detection System (ASTAMIDS )
- Objective Crew Served Weapon (OCSW) 22



### Summary – The Ammunition Enterprise is ...

- Supporting Current Operations/Planning Future
- Improving Ammunition Life-Cycle Practices
- Focused, Well-Trained Workforce
- Leveraging World Class Capabilities & Technologies
- Vital to the development of products for the Future Joint Force

# THE HIGHEST CALIBER

We make the ammo... You make the difference

