

PEO Ammo - Maintaining The Lethality Edge



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Deputy PEO Ammunition

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NDIA – 37th Annual Gun & Ammunition
Symposium



Vision/Mission

Vision:

Deliver World Class Munitions Firepower to War Fighters

Mission:

Execute the Life Cycle Acquisition Management of Ammunition.

Manage DOD's Ammunition Industrial Base (not run individual Ammunition Plants).



PEO Ammunition 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 Each Munition Family**



Bottom Line Up Front

- PEO Ammunition is committed to providing superior ammunition to the soldier
- PEO Ammunition responsible for:
 - Life-Cycle acquisition management of
 - conventional ammunition which includes integrating budgets, acquisition strategies, R&D and life-cycle management across all ammunition families.
 - Single ammunition voice in the budget process
 - Industrial Preparedness Planning, representing the munitions industrial base.
- PEO Ammunition is located at Picatinny Arsenal
 - Home of world-class Army R&D facility
- Cannon launched precision munitions will be the responsibility of PEO Ammunition
- We are making significant progress in unifying ammunition management





Secretary of the Army

Assistant Secretary (Acquisition Executive)

Army Materiel Command

Deputy Chief of Staff Ammunition

PEO Ground Combat Support Systems

Industrial Operations Command (Single Manager)

Tank-automotive and Armaments Command



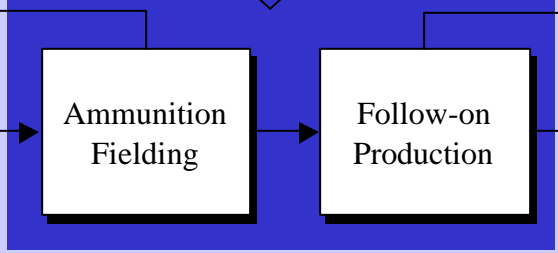
Program, Project, or Product Manager Oversight

Single Manager Oversight

Research & Development

Initial Ammunition Acquisition

Initial Ammunition Production

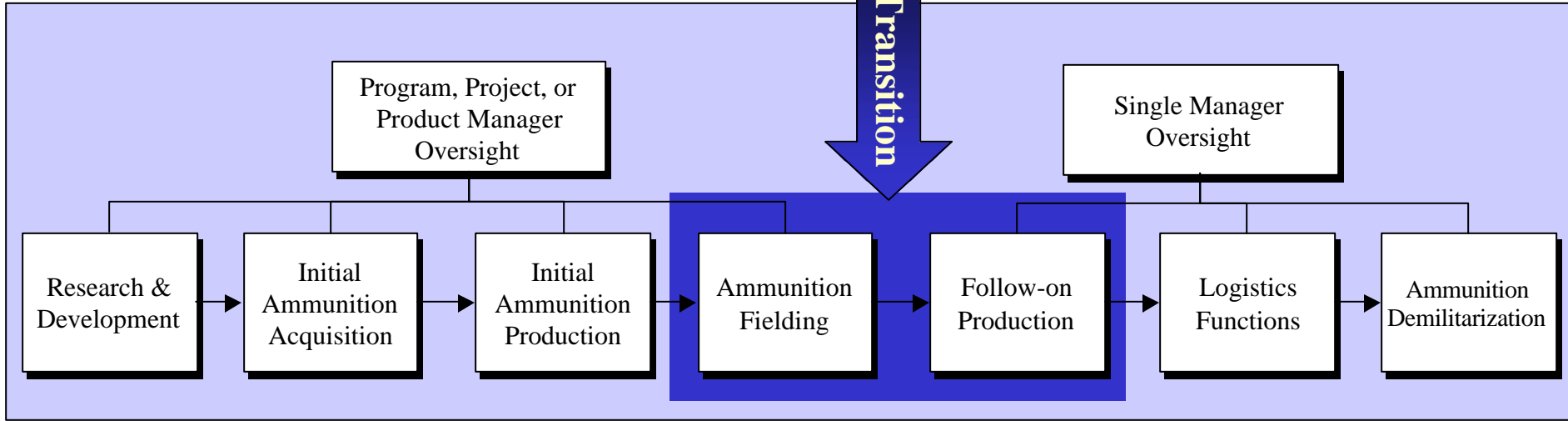


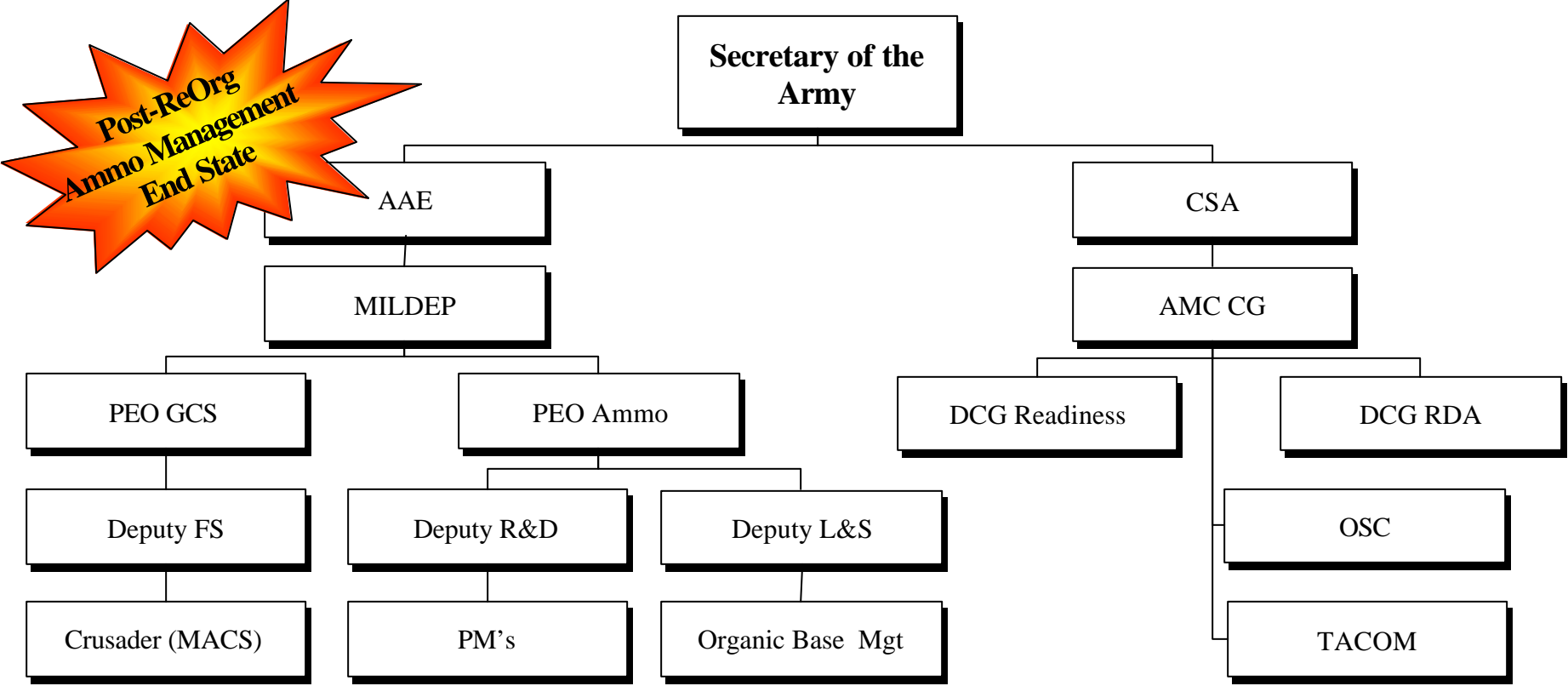
Ammunition Fielding

Follow-on Production

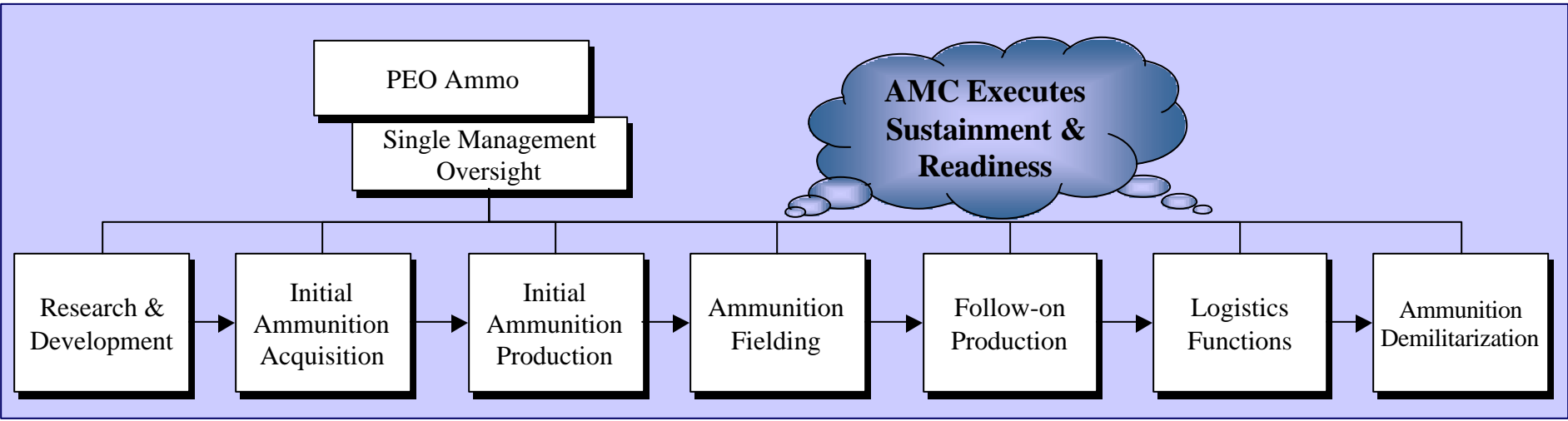
Logistics Functions

Ammunition Demilitarization





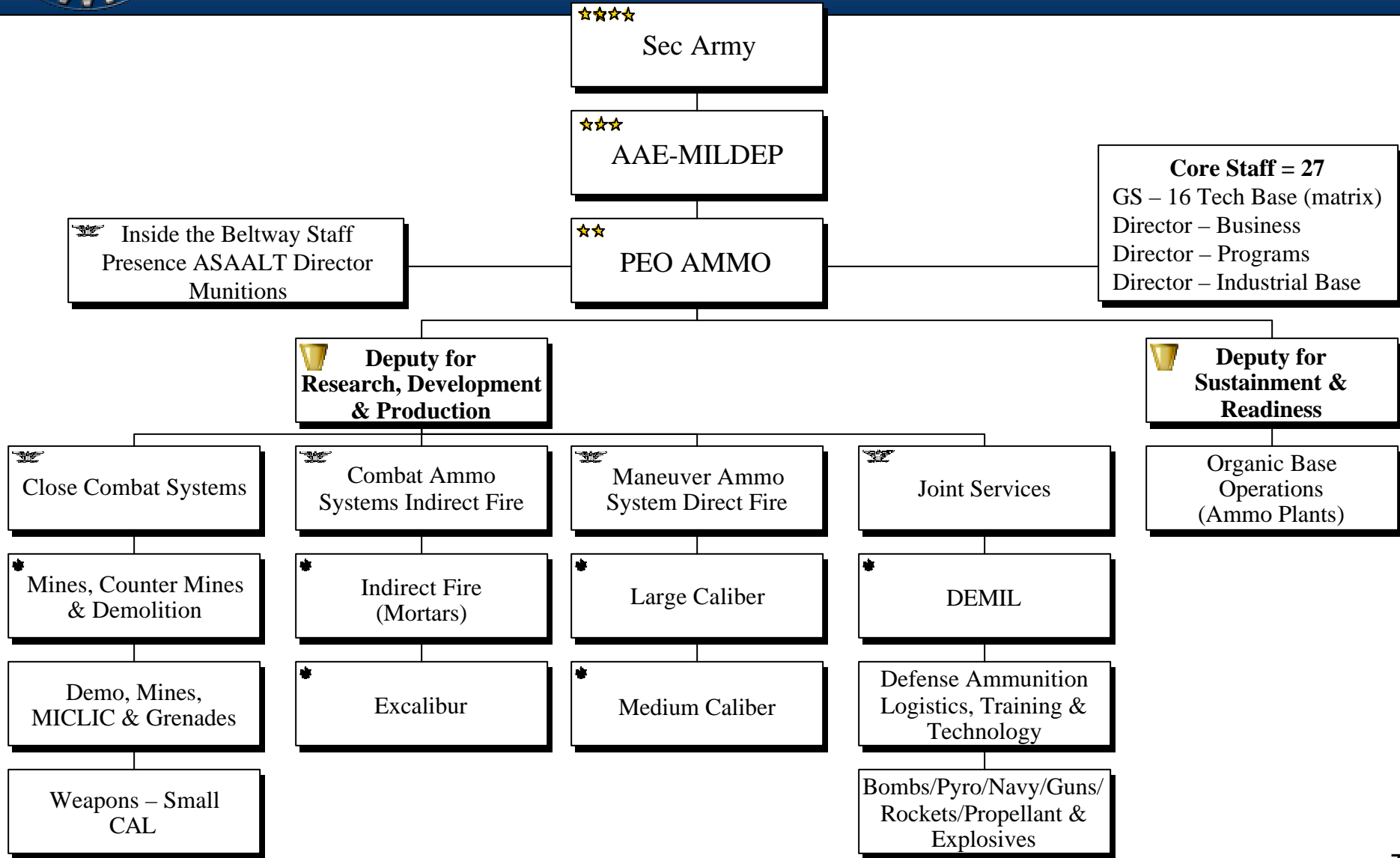
**Post-ReOrg
Ammo Management
End State**



PEO, Ammo/PMs Manage Life Cycle...AMC Responsible for Execution



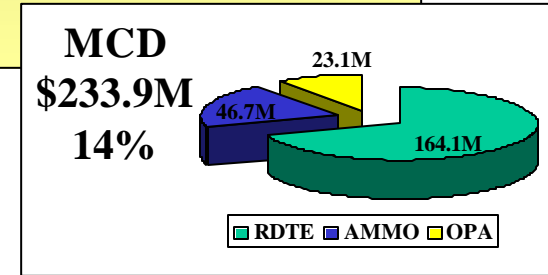
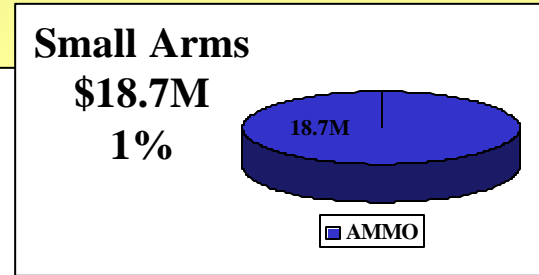
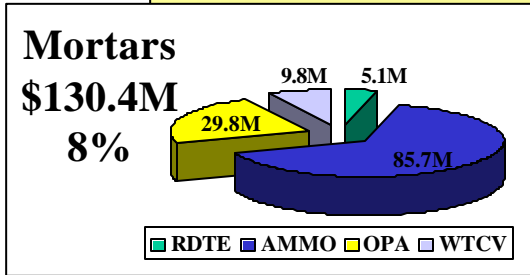
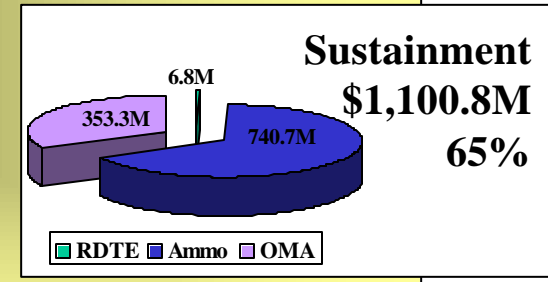
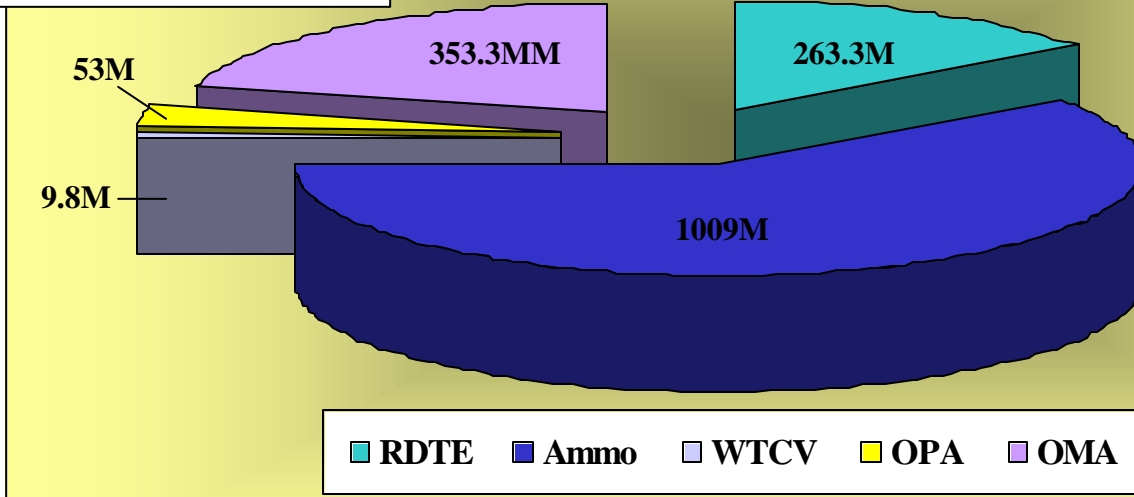
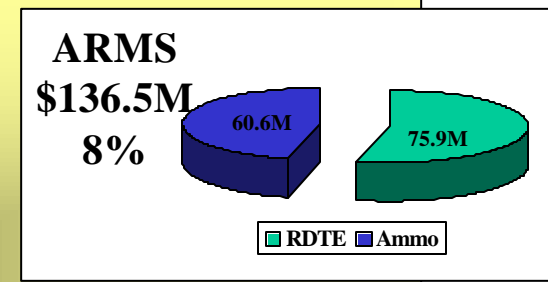
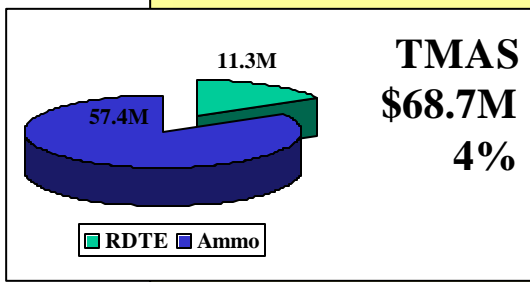
PEO Ammo Organization





PEO-AMMO FY 03

\$ in Millions
Total - \$1689.1M
By Appropriation





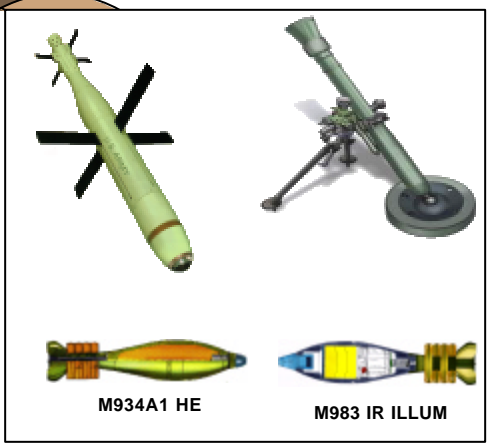
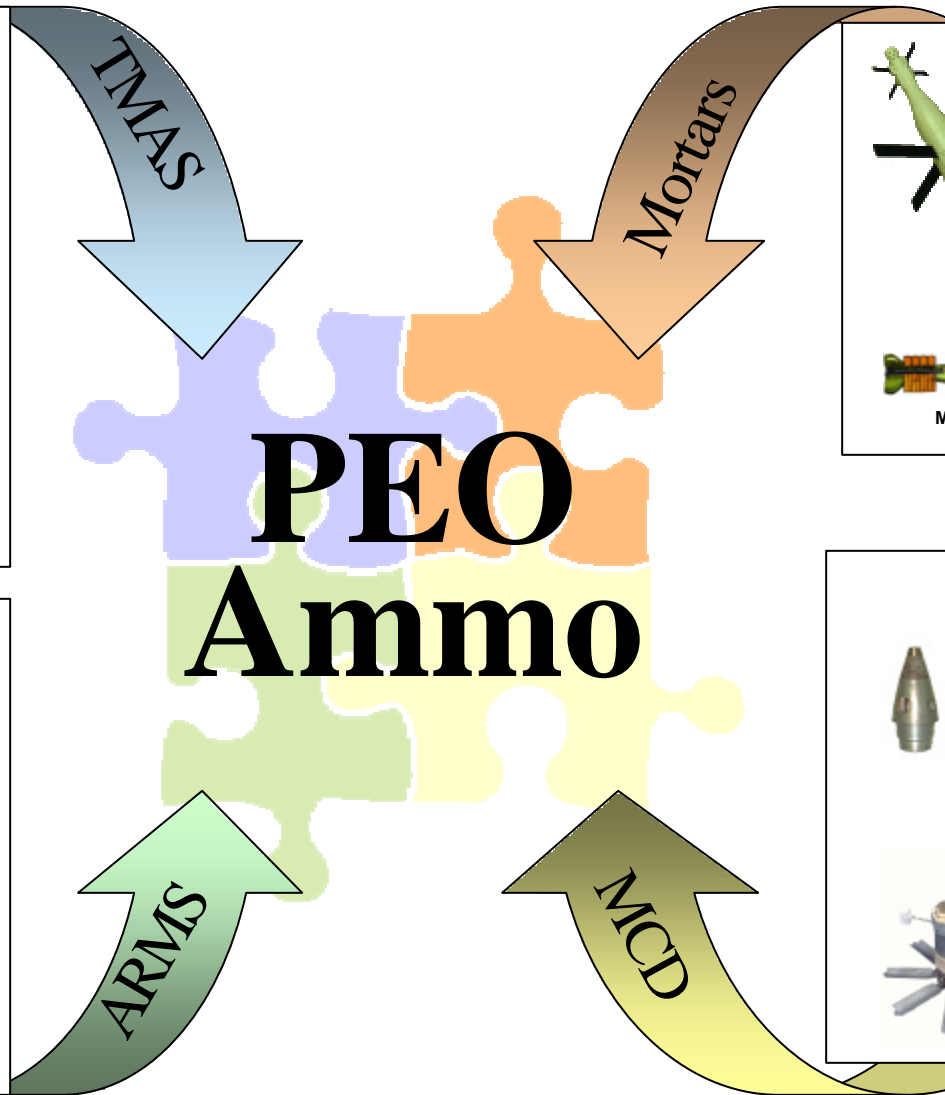
FY03 PB

AMMO Funding Profile

			<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>
OMA								
	Sustainment		346.0	353.3	364.0	364.6	372.5	563.1
	<u>TOTAL OMA</u>		<u>346.0</u>	<u>353.3</u>	<u>364.0</u>	<u>364.6</u>	<u>372.5</u>	<u>563.1</u>
RDTE								
	ARMS		62.8	75.9	58.0	29.8	6.3	0.5
	MCD		110.1	164.1	132.3	145.9	168.3	165.0
	MORTARS		12.7	5.1	33.4	39.5	33.9	4.1
	SMALL ARMS							
	TMAS		54.1	11.4	7.6	2.1	142.8	148.3
	Sustainment		10.9	6.8	1.6	2.1	6.6	7.9
	<u>TOTAL RDTE</u>		<u>250.6</u>	<u>263.3</u>	<u>232.9</u>	<u>219.4</u>	<u>357.9</u>	<u>325.8</u>
PROCUREMENT								
	ARMS		39.8	60.6	109.1	109.8	92.0	123.2
	MCD		80.9	69.8	78.2	139.5	168.9	159.3
	MORTARS		132.6	125.3	140.9	93.7	108.6	137.3
	SMALL ARMS		23.3	18.7	5.8	5.8	2.8	2.9
	TMAS		71.1	57.4	68.7	78.9	100.7	152.4
	Sustainment		670.2	740.7	752.0	762.8	818.6	872.4
	<u>TOTAL PROCUREMENT</u>		<u>1017.9</u>	<u>1072.5</u>	<u>1154.7</u>	<u>1190.5</u>	<u>1291.6</u>	<u>1447.5</u>
	TOTAL AMMO		1614.5	1689.1	1751.6	1774.5	2022.0	2336.4

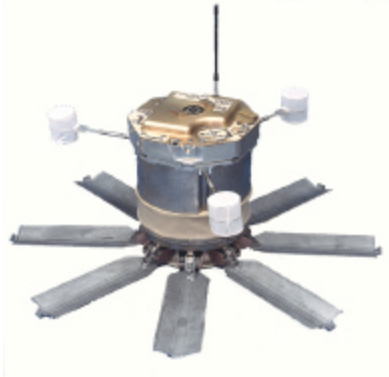


Bringing Together the Ammo Family

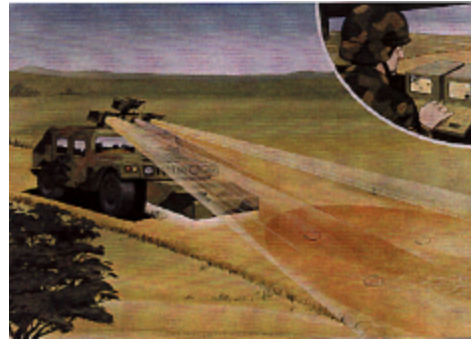




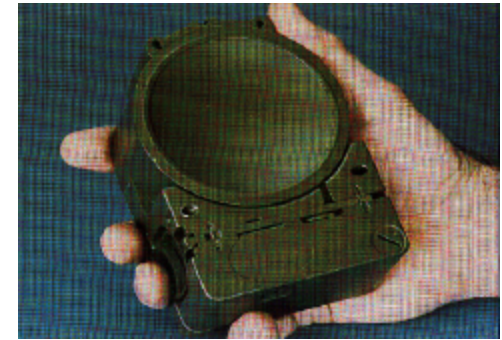
PM Close Combat Systems



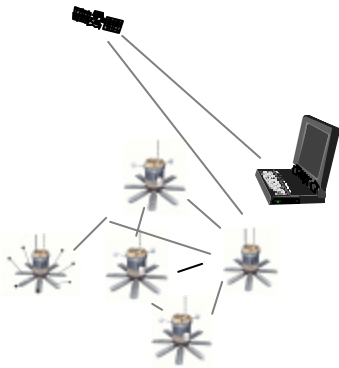
Hornet



**Ground Standoff
Minefield Detection System**



**Selectable Lightweight
Attack Munition**



**Intelligent Combat Outpost
(RAPTOR)**



**RAAM/ADAM Mixed
Projectile (RADAM)**



VOLCANO



PM Combat Ammunition Systems





PM Maneuver Ammunition Systems

Direct Fire Products



Medium Caliber Ammunition



Large Caliber Ammunition



Lethality Improvements

- Future Ammunition with state-of-the-art technologies
 - Precision Engagements
 - Extended Range
 - Reduced Collateral Damage
 - Increased Survivability
 - Reduced Logistics Footprint





Excalibur

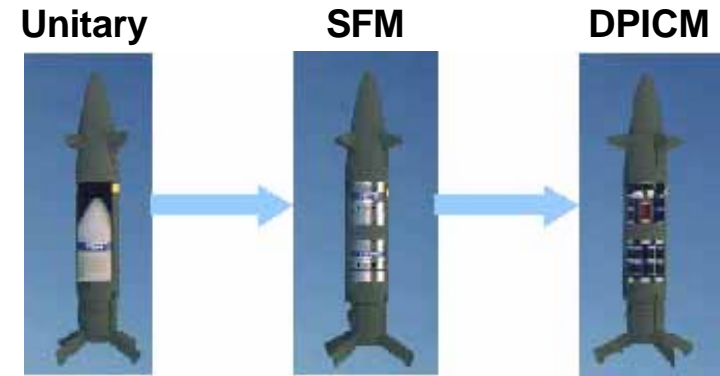




Excalibur

Mission

- Provides improved fire support through a Precision Guided, Extended Range, fratricide reducing, accuracy enhancing, more lethal family of 155mm projectiles in support of Legacy to Objective forces.



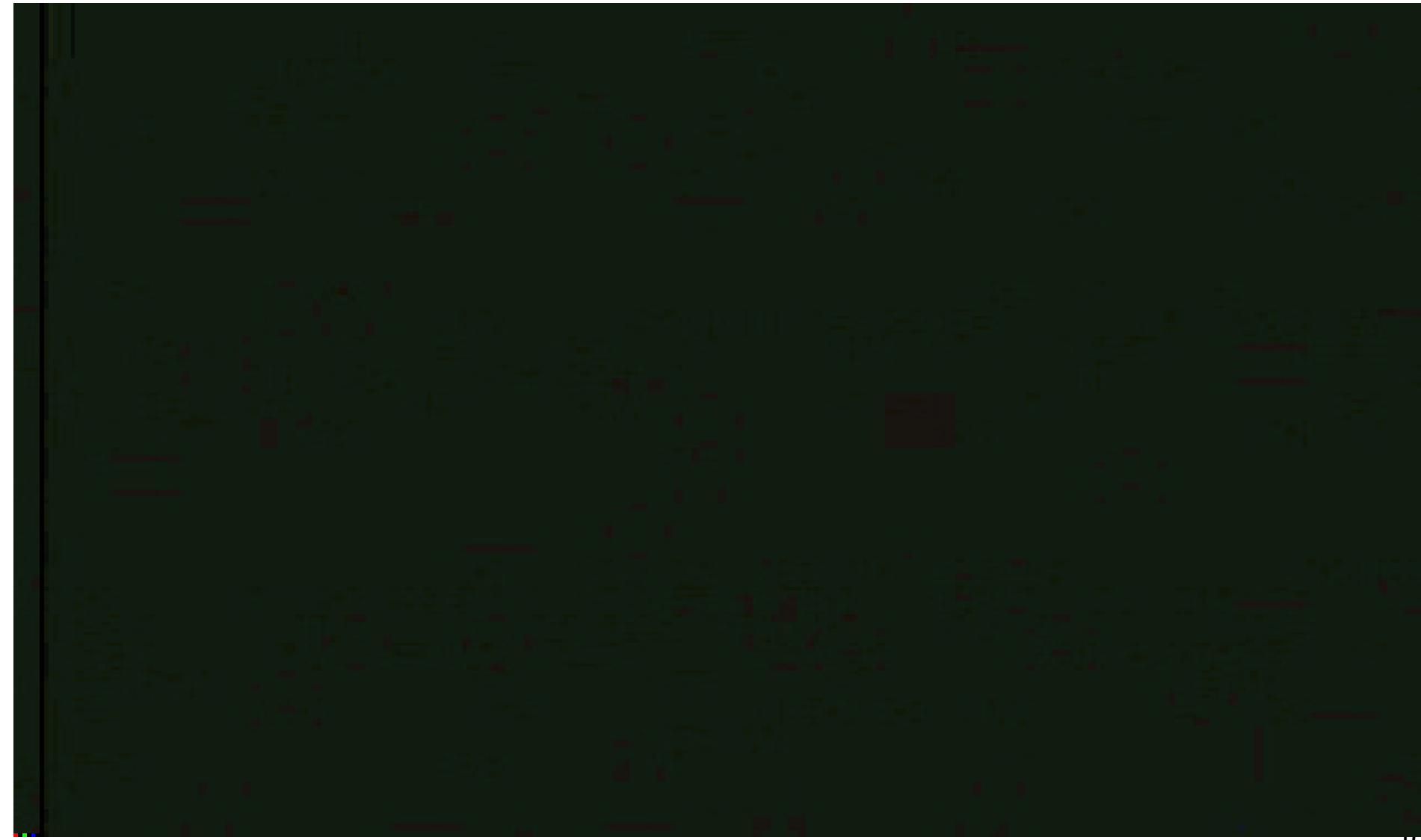
Artillery Range Overmatch



Launched from Parsippany, an Excalibur w/Crusader could hit the Tappan Zee Bridge Toll Plaza



Precision Guided Mortar Muniton (PGMM)





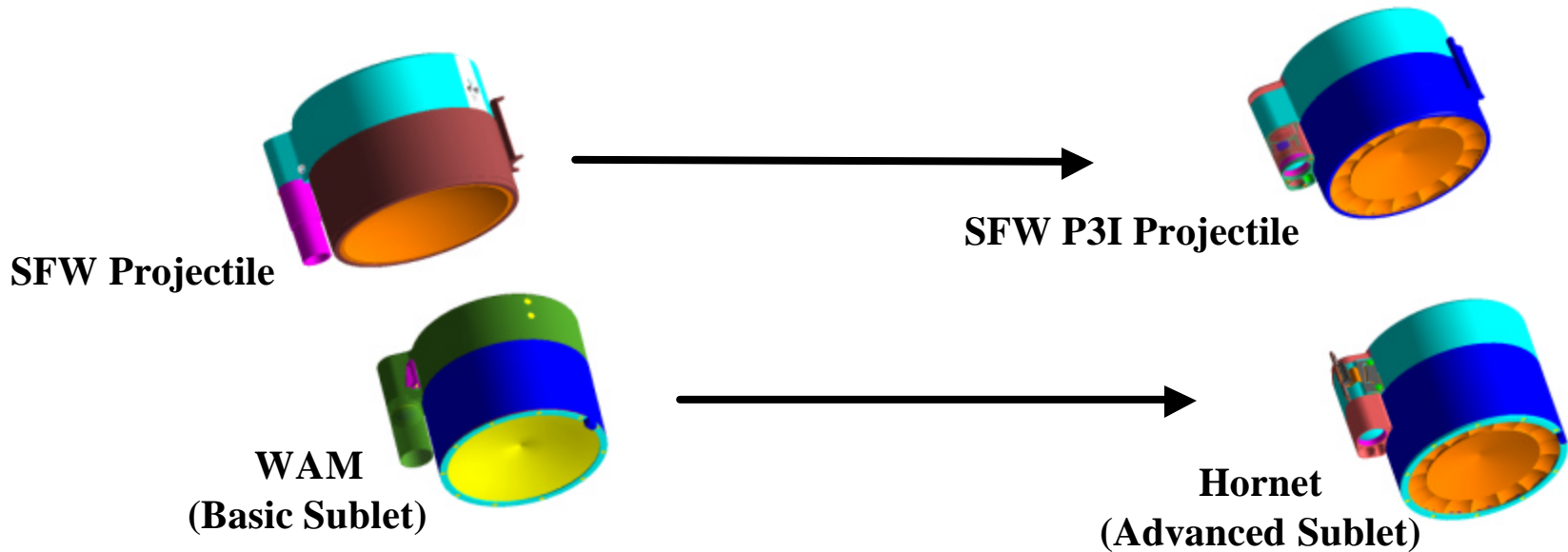
Hornet





Horizontal Technology Insertion of Sensor Fused Weapon (SFW) into Wide Area Munition (WAM)

- The Air Force SFW P3I advanced sensor and warhead technology inserted into WAM



- ✓ Performance increases
- ✓ Commonality of components

- ✓ Proven producibility
- ✓ Significant reduction in cost



Advanced Sublet Boosts Hornet Performance

- More frequent hits on target
 - Uses IR laser profilometer to detect target body
- Reduces sensor false alarms
 - Fuses both passive IR and active IR sensor data to develop fire solution
- Increases performance against suppressed targets and in high solar conditions
 - Increased passive sensor sensitivity
- Expands capability to soft targets
 - Employs copper combined effects warhead



Industrial Base Challenges

- **Munitions Production Base Capacity**
 - Down 68% Last 10 Years
 - Currently Underutilized
- **Single Sources**
 - 71 of 302 Critical Components
- **Minimal Incentives for Contractor Capital Investment**
- **Manufacturing Capability**
 - Currently Focused on Legacy Systems
 - Marginal Future Munitions Capacity
- **Surge Capability Virtually Non-Existent**





Industrial Preparedness Planning

- PEO Providing Centralized Management Of DOD's Organic & Industrial Munitions Production Base
 - Optimizing Coordination, Communication and Decision Making that affects Requirements & Production

- Establishing:
 - **Cohesive Strategies, Plans And Policies On The National Ammunition Technology & Industrial Base**
 - Ensure Ability To Support Operational, Surge And Sustainability Requirements
 - Increase Level Of Focus On Lower Tier Suppliers
 - Promote Disciplined Approach To Modernization
 - **Integrated Planning Process**
 - Legacy and Future Requirements
 - Linking Acquisition Strategies To Industrial Base Preparedness Planning
 - **Flexible, Agile Production Base**
 - Minimize Base Ownership, Consolidate To Realize Efficiencies
 - Emphasize Prototyping Capability Transfer & Technology Planning
 - Preserve Critical Core Capabilities



Implementation

- **Funding Transition**
 - Starting FY03 PAA and R&D Funding Flows thru PEO
 - Starting FY04 OMA Funding Flows thru PEO
- **PM's Manage Total Life Cycle (Regardless of ACAT)**
 - Maintain Development as Core Function
 - Execute Production, Sustainment and Readiness as Matrix Function (OSC)
- **Implementation with FY03 Execution**
 - Participating in FY02 Cycle
 - Mapping Process
 - Develop Training Module – End of 3rd Quarter FY02
 - Establish Policy and Metrics
 - Establish PEO-PM Position in Coordination With OSC, TACOM-ARDEC
 - Establish Clear Lines Of Responsibility, Authority and Accountability
- **FY04-09 POM Build Will Show Munitions Transformation Strategy... but... Ammo Still Underfunded...**



On-Going Efforts

- Process Mapping of Ammunition Management/Acquisition Process
- Foster Open Lines of Communication Among All Stakeholders
- Integrate a Unified Life-cycle Management Approach Across All Conventional Ammunition Items
 - Consolidate Budgeting for Ammunition Acquisition Through a Single Chain of Command
 - Consolidate Ammunition Acquisition Strategies Where Appropriate
 - Consolidate Ammunition MDA Actions
- Develop Integrated Industrial Base Planning

Goal: All Players on the Same Sheet of Music



Summary

- PEO Ammo is committed to providing superior ammunition to the soldier
 - Increased Precision
 - Extended Range
 - Reduced Collateral damage
 - Increased Survivability
 - Reduced Logistics Footprint

