

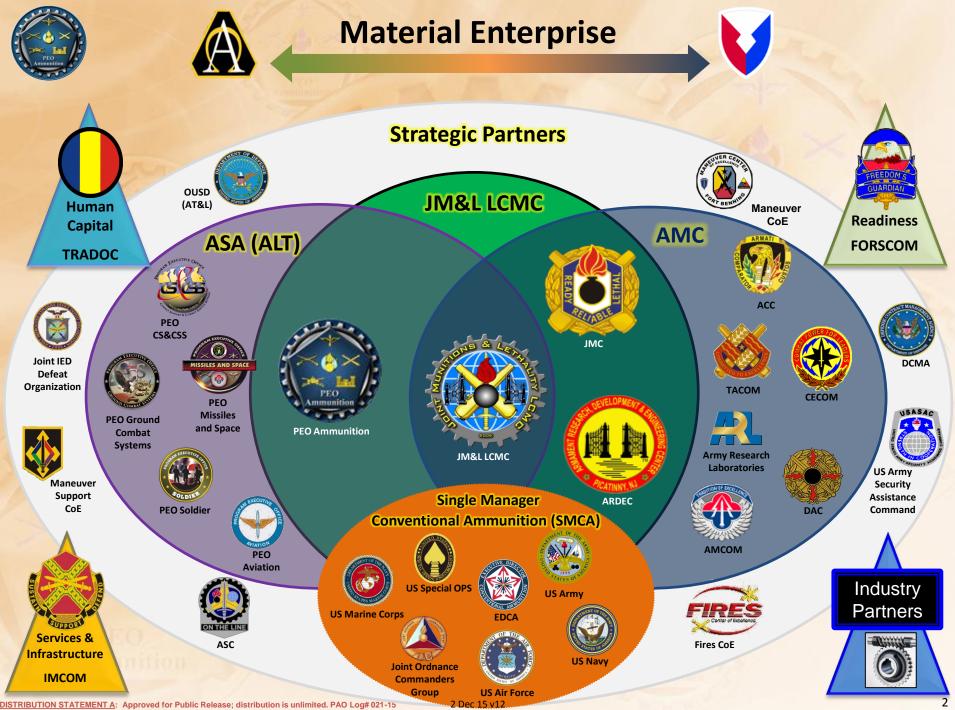
### **PEO Ammunition**

mmunition

Global Demilitarization Symposium 8 DEC 2015

DISTRIBUTION STATEMENT A: Approved for Public Release; distribution is unlimited

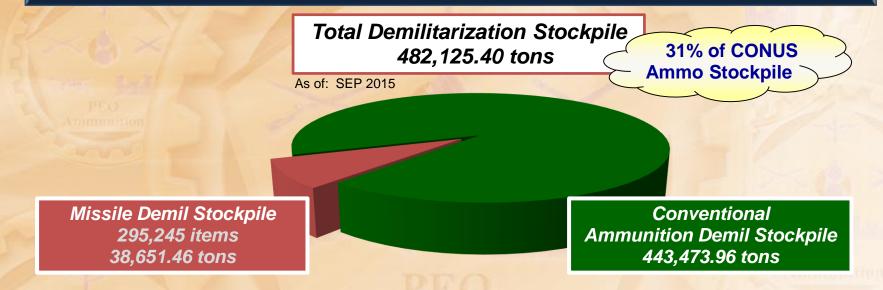
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## **Demilitarization Mission**

DODI 5160.68, SMCA, Dec 2008: Demilitarization & Disposal Mission: Perform Life-Cycle Management for Demilitarization of Conventional Ammunition for the Department of Defense



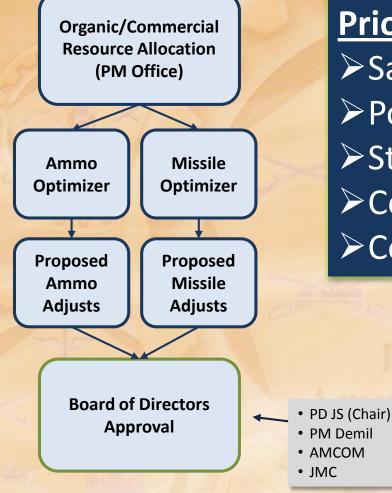
#### **Strategic Goals**

- Implement <u>design for demi</u> for all new and modified conventional ammunition products
- Continuously improve the <u>effectiveness and efficiency</u> of demil capabilities
- <u>Reduce the stockpile</u> by 6% annually; achieve 100K tons by 2030
  - This goal is evolving: no longer just trying to reduce the demil stockpile to achieve an arbitrary level. G4 wants to operationalize the overall Army storage requirement.





### **Annual Execution Process**



Priorities
Safety concerns
Policy mandates
Stockpile Tons
Cost per ton
Contract requirements

Collaborative Planning Across Organizations within the Board of Directors



## **Demil Methods**



**Open Burn/Open Detonate** 



**Explosives Removal** 

15k tons



Thermal Treatment

82k tons total in FY15



Disassembly

34k tons



# **Re-use of Demil Stocks**

#### PM CAS M483 Re-use

Downloaded M483A1 Projectile Metal Parts are used to create five new projectiles



Provides extended range at lower cost than existing projectiles!

#### PM MAS Tank Ammo Re-use



Propellants – M30, JA-2



#### **PM Precision Fires MLRS Re-use**



PODS for GMLRS

Rocket Motors – Low Cost rocket Trainer



#### **Other Services Re-use**







US Navy Torpedoes – Otto Fuel, batteries

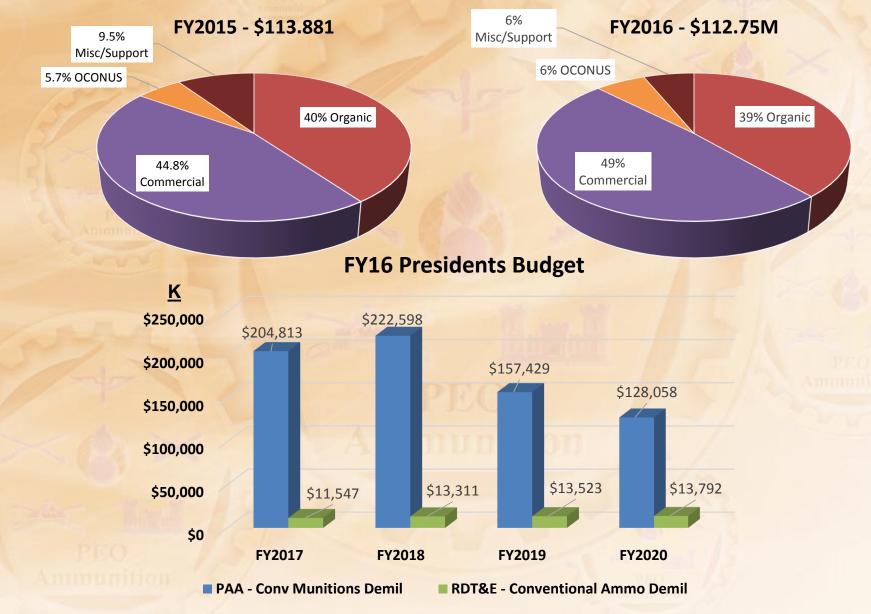
USAF Cluster Bombs – FZU-39 Altimeter fuzes, CB411 containers

#### New production cost avoidance in hundreds of millions \$\$, demil cost avoidance also

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# **Demil Funding**





### **Current Challenges and Opportunities**

- Safety
- Design For Demil
- R&D Improvements to existing equipment
- R&D Identification of Novel Omnivorous Capabilities
- R&D Targeted Capability Gaps









## **Focus on Safety**

### Incidents

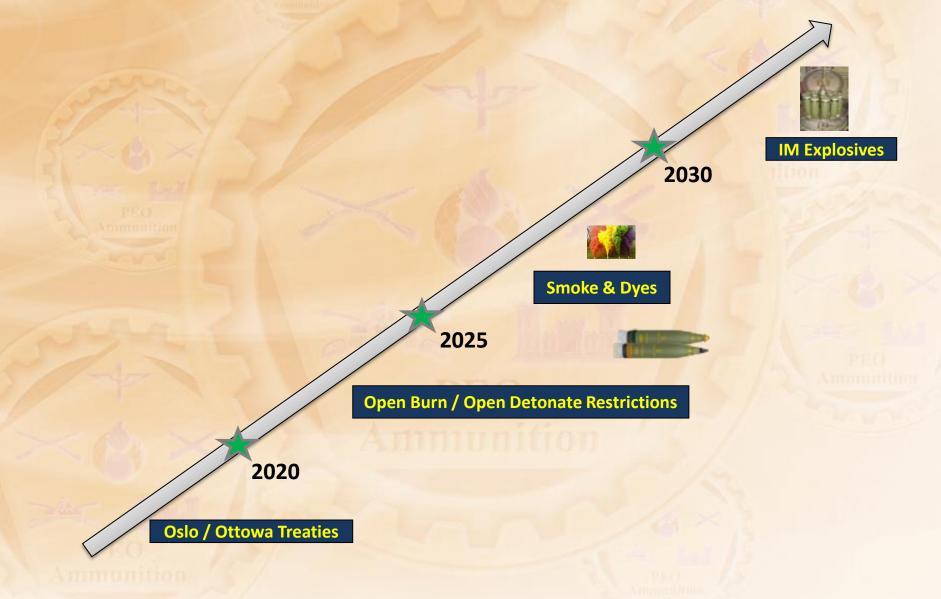
- 15M lbs of M6 propellant collected from demilitarization of artillery bag charges improperly stored, posing safety risk to fenceline communities
- Releases of live
  - M77 grenade submunition
  - mortar projectile,
  - practice bomb,
  - artillery projectile
  - Naval gun projectile

Several, but not all of which resulted in worker harm

### Even 1 incident is too many



# **Future Challenges and Opportunities**





### Summary

- Importance of Demil not widely recognized, but essential nonetheless
- Emphasis on workforce and public safety
- Preparing for Cluster Munition generation tsunami



## **Back-Up Charts**

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# **Cluster Munitions / Landmines**

- Anti-Personnel Landmines (Ottowa)
  - Bans Use of AP Landmines
  - Mandates destruction of stockpiles within 4 years
  - Requires clearance of mine fields

- Cluster Munitions (Oslo)
  - Ban use of cluster munitions containing submunitions with > 5% UXO rate
  - Mandates destruction of stockpiles within 8 years (4 year extension may be requested)

US has not acceded to either treaty but has policies in effect which eliminates munitions as funding is available

