

# Tactical Missile Demilitarization Program and the Environment





# Tactical Missile Demil Execution



**ATCMS**



**Stinger**



**PATRIOT**



**TOW**



**MLRS**



# Missile Demil Life Cycle Management

**Mission: Cost Effectively Demilitarize Excess, Obsolete, and Unserviceable Army Missiles with Minimal Environmental Impact Utilizing Resource, Recovery, and Recycling (R3) Methods to the Greatest Extent Possible**

## PEO Missiles and Space PMOs

- Design for Demil
- Identify Demil Alternatives
  - SLEP / Remanufacture
  - Reuse
  - FMS
  - Training
- Participate on Demil IPT
  - Identify Requirements
  - Integrate into Acquisition Strategy

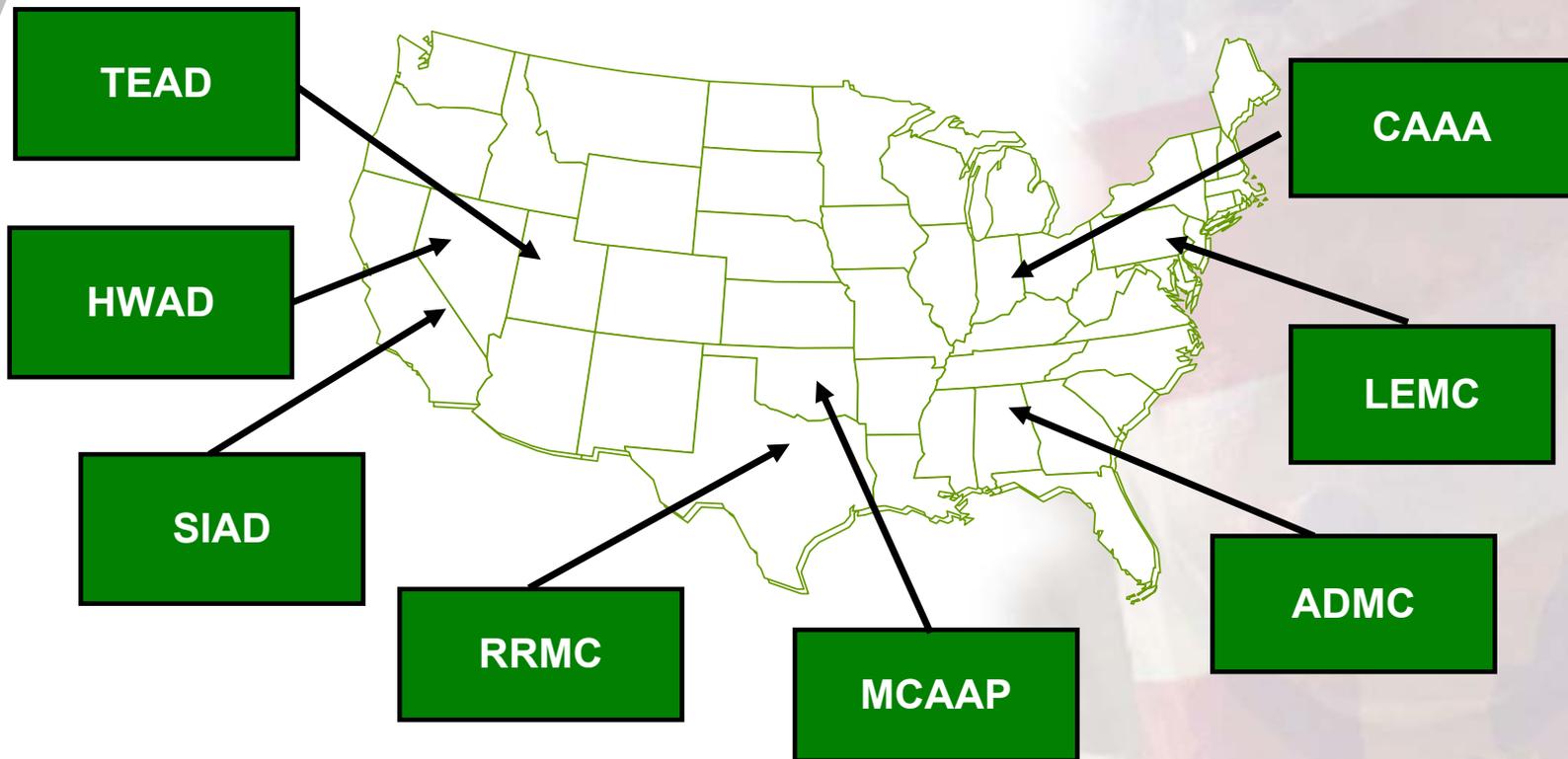
## AMCOM G-3

- Develop Execution Strategies
- Integrate / Prioritize
- Develop Funding Requirements
- Execute

# Aging Stockpile Is A Nationwide Challenge



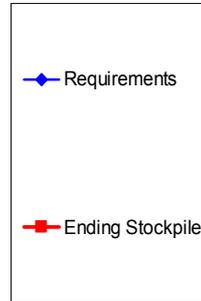
- Over 150K Missiles & Components Obsolete or Excess Today
- Current Projections Double That Number by 2015
- What is the Most Cost Effective Plan of Attack?



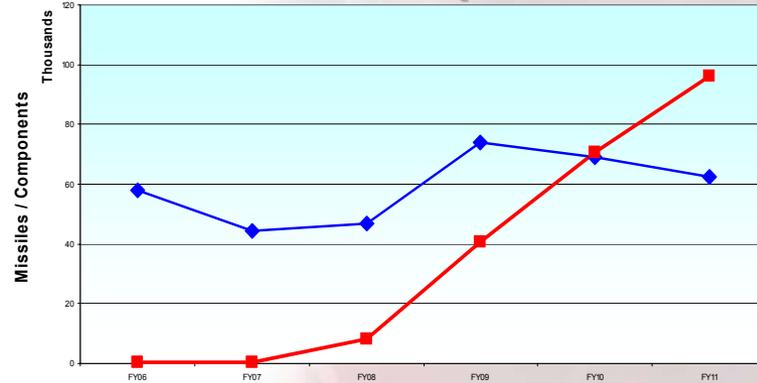


# Attacking the Stockpile

**Total Missile Stockpile**



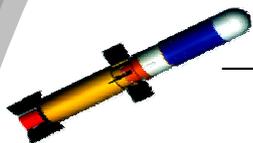
## Missile Demil Requirements



## AMCOM Execution Strategy

- Demil Small Quantity/Low Value Systems by OB/OD
- Closed Disposal/R3 of TOW Missiles Utilizing the Missile Recycling Center (ADMC)
- Identify Additional Closed Disposal/R3 Technology Alternatives for "Full Rate Demil"
  - Flexible for Multiple Variants
  - Adequate Throughput
  - Forward Looking – Anticipates Environmental Issues

# Missile Recycling Center Fully Integrated Operation



**Building 381**



## Horizontal Disassembly Module

Disassemble, Missile, Motor  
Propellants Removal / Milling,  
Warhead Removal / Milling



## Hardware Decontamination Module

Decontaminates Hardware Components



**Missile  
Components**

Low Value  
Energetics

High Value  
Energetics

**Building 65**



## Slurry Explosive Module

Process Low Value Energetics Into  
Commercial Blasting Explosives

**Energetics Processing  
Module**



## Energetics Processing Module

Recover High Value Energetics From  
Propellant and Warhead Feedstocks





# Missile Recycling Center Capability

- **Missile Recycling Center (MRC) Provides Safe Disposition of Medium Sized Tactical Missiles**
- **Environmentally Superior Alternative to Traditional Destruction Processes**
  - **Encompasses Entire Missile**
  - **Reconstitutes Propellant and Warhead Energetics**
  - **Maximizes Reuse / Recycle of Recovered Material**
- **Fully Operational by FY07**
- **MRC Utilizes a Total R3 Technology Approach That Can Be Adapted for Use on the Vast Majority of the Missiles in The DoD Inventory**



# Areas of Concern

- **The Future of Ammonium Perchlorate**
  - **Regulations Are Getting Tighter**
  - **MLRS Stockpile at ADMC Alone Will Create Over 8,000 Tons of AP**
  - **Initial Planning Called for Reuse of Material – Will This Still Be Valid?**
  - **If Not, What Are the Alternatives?**
- **What Additional Compounds Will We Produce That Are an Environmental Concern?**
- **Developing Flexible Tooling and Facilities**
  - **AMCOM Currently Responsible for 20 Different Missile Systems & Variants**
  - **Too Costly to Development “One Off” Solutions for Each**
  - **Must Be Able to Adapt to Newly Developed and Evolving Systems**

# Path Ahead



- **Continue Execution of Environmentally Responsible Demilitarization Program**
- **Emphasize Closed Disposal/R3 Technologies**
- **Focus on Demilitarization Options That Can Be Utilized Across All Families of Missiles**
- **Maximize Return on Investment/Reduce Per Missile Costs**



# Questions?