

Tactical Missile Demilitarization Program and the Environment





Tactical Missile Demil Execution



ATCMS



Stinger



TOW



MLRS



PATRIOT



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

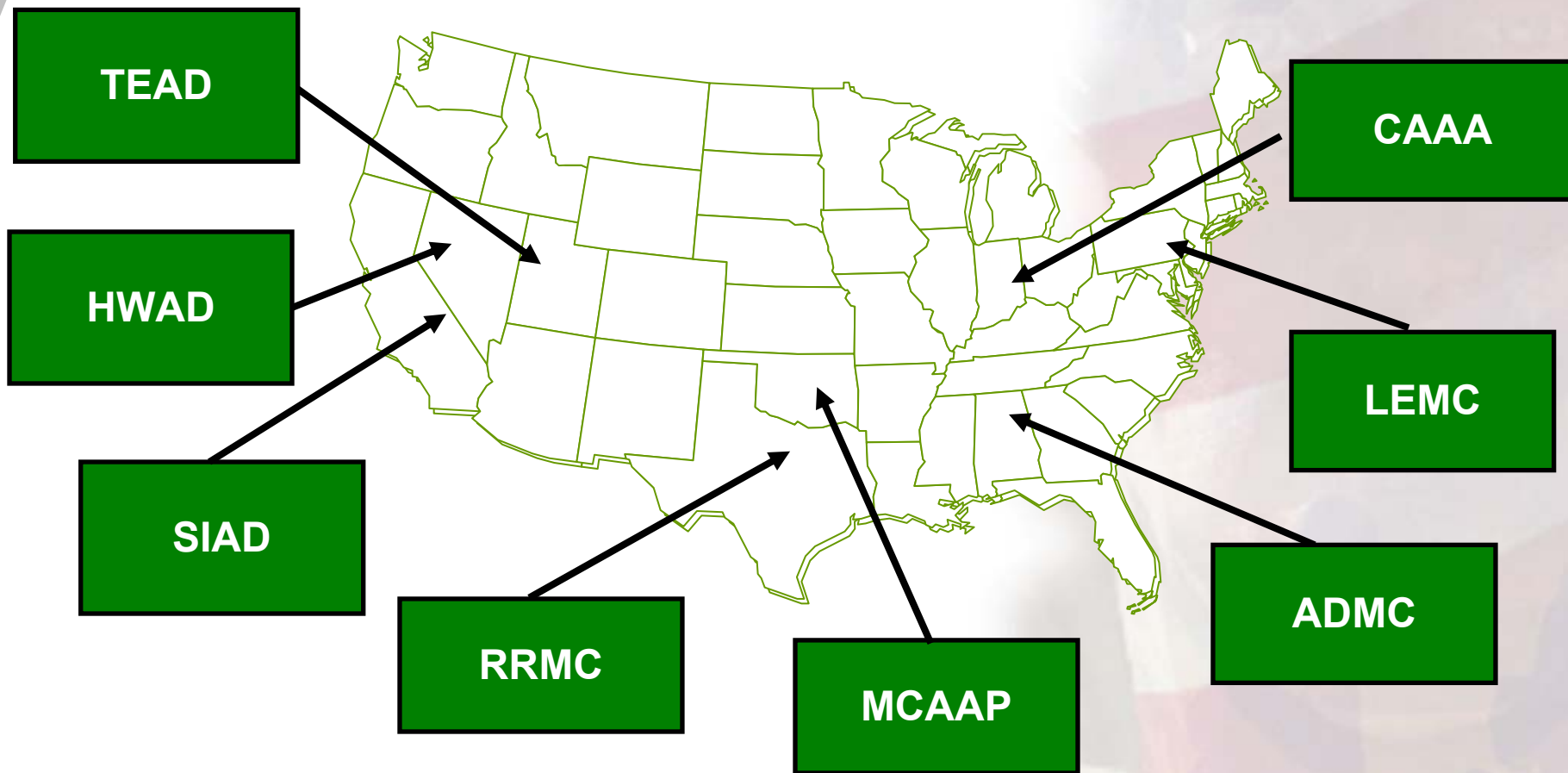
AMCOM G-3

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



Aging Stockpile Is A Nationwide Challenge

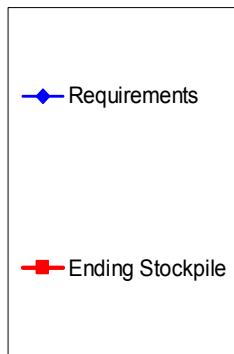
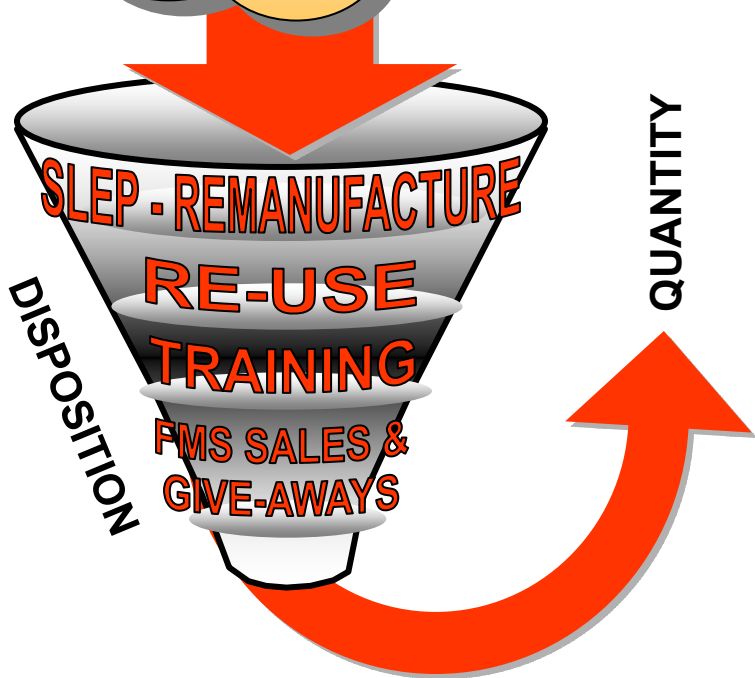
- Over 150K Missiles & Components Obsolete or Excess Today
- Current Projections Double That Number by 2015
- What is the Most Cost Effective Plan of Attack?



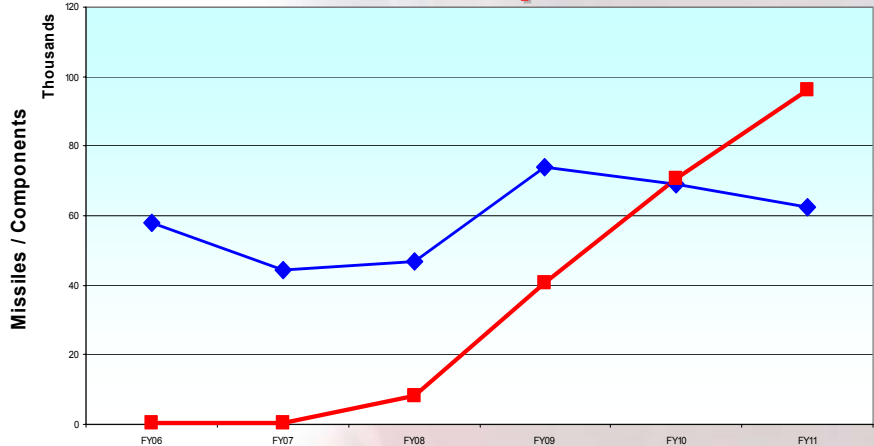


Attacking the Stockpile

Total Missile Stockpile



Missile Demil Requirements

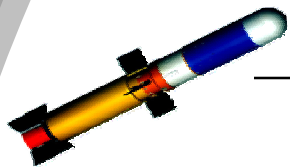


AMCOM Execution Strategy

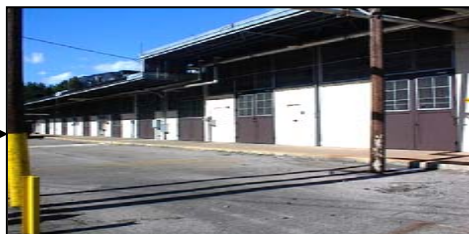
- Demil Small Quantity/Low Value Systems by OB/OD
- Closed Disposal/R3 of TOW Missiles Utilizing the Missile Recycling Center (ADMC)
- Identify Additional Closed Disposal/R3 Technology Alternatives for “Full Rate Demil”
 - Flexible for Multiple Variants
 - Adequate Throughput
 - Forward Looking – Anticipates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

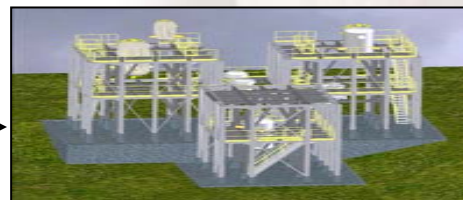
Building 65



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?