#### LTG Richard Hack





## U.S. ARMY MATERIEL COMMAND

# 2003 Munitions Executive Summit

"Reshaping the Munitions Base"

AMC's Role in Transforming The Industrial Base

12 Feb 2003

ESSENTIAL IN PEACE, INDISPENSABLE IN WAR

### Purpose

To inform the munitions community about the way AMC and Army logistics is transforming.



# AMC Efforts Underway to Transform for the 21st Century

- Organizational Changes
- Industrial Base Initiatives
- Enterprise Development and Integration
- Support to Current Operations
- Demilitarization



#### **Facts**

#### Facts:

- Logistics processes require modernization
- Logistics footprint must be reduced to improve deployment and sustainment
- Industrial base must be properly sized and modernized
- Logistical organizations must be adaptable to:
  - Keep pace with technology
  - Support system of systems
  - Support emerging requirements e.g., Homeland Defense



## Assumptions

#### **Assumptions:**

- Change will continue successful organizations must change also
- Army transformation will require a logistics transformation
- Resources will always be constrained
- Industrial Base will be more Joint

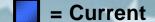


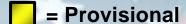
#### **AMC Past HQ AMC** \*\*\* SBCCOM **TACOM AMCOM** osc \*\* USASAC ARL STRICOM **CECOM** 0 \*\*





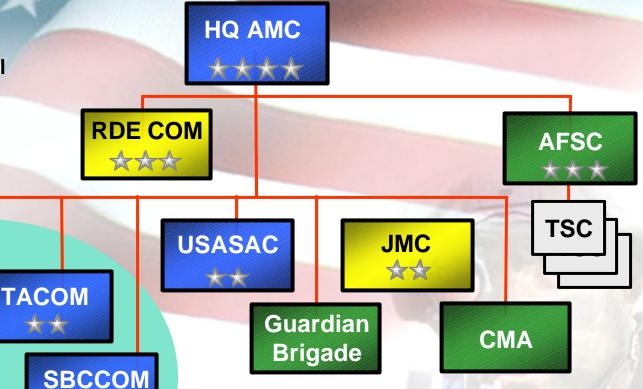
# **AMC Transforming**





= Future

**AMCOM** 



CECOM \*\*

**TBD** 

- AFSC = Army Field Support Command
- AMCOM = Aviation and Missile Command
- CECOM = Communications-Electronics Command
- CMA = Chemical Materials Agency
- JMC = Joint Munitions Command
- RDE COM = Research, Development & Engineering Command
- SBCCOM = Soldier and Biological Chemical Command
- TACOM = Tank-Automotive and Armaments Command
- USASAC = Security Assistance Command





### **AMC's Industrial Base Vision**

A Responsive, Innovative, Lean Cost/ Process with an Efficient Manufacturing Base Capable of...

- Meeting National Security Missions
- Integrating Lean/Agile Manufacturing Concepts
- Satisfying Defense Future Systems Requirements
- Migrating to Public-Private Partnerships







# The 21st Century Defense Industrial Base - Capabilities & Capacity Based -

A New Millennium...New Definitions...New Culture...New Sustainment Philosophy...
Requires New Technologies...New Products...Innovative Business Arrangements!

Maintenance & **Integrated Flexible** Virtual Renovation Nano & **Packaging** parts **Biomechanical** supplier **Technologies Chip Foundry** INTEGRATED MATRIXED **Virtual Prototyping CAPABILITIES Production of Flat Panel Electronic Product Displays Data Management** Flexible for small **Demilitarization** quantity production **Source of supply** for Obsolete items **EMP Hardening** Storage & Outor Single point **Technologies** loading items

Goal ...Joint Pull Production...Reconfigurable & Responsive Manufacturing . . . Rapid Acquisition

XXX

# Integrating Army Logistics Automation

#### The Plan

#### SSF & National Maintenance

#### 2001 - 2003

- SSF implementation
  - Installation 2000-2001
  - Tactical 2002-2003
- National Maintenance Integrated maintenance decisions at the National and Installation level beginning 2001
- Development of Single Repair Standards to increase reliability of legacy systems

#### National Level Modernization

#### 2003 - 2004



- SAP-LMP
- COTS Software & Contractor Sustainment
- Legacy Retirement -CCSS, SDS, HAS

#### Installation / Tactical Modernization

#### 2003



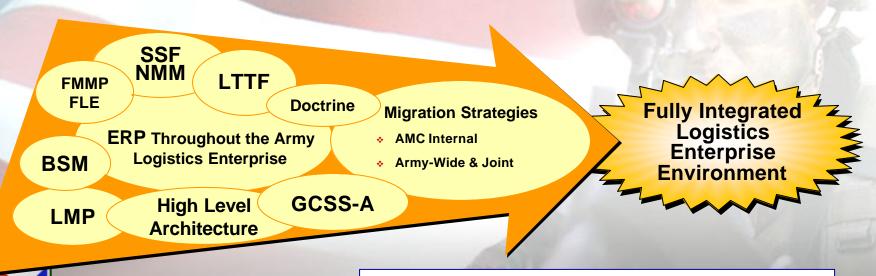
- Modernize Installation & Tactical Level Logistics Automation with ERP Tools
- COTS Software
- Legacy Retirement -SARSS, ULLS, SAMS, ILAP...
- SAAS-MOD

#### Continuous Upgrades

#### 2002



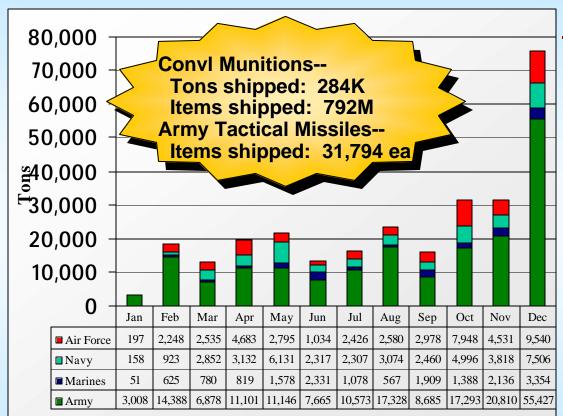
- Identify "Legacy Capabilities" & Develop Migration Strategies
  - Resource the Efforts
  - Synchronize Program Schedules
- Eliminate "Stovepipes" Legacy Retirement





## **Ammunition Shipments -- By Service**

#### Support of Current Operations – Jan through Dec 2002



#### Top items shipped--

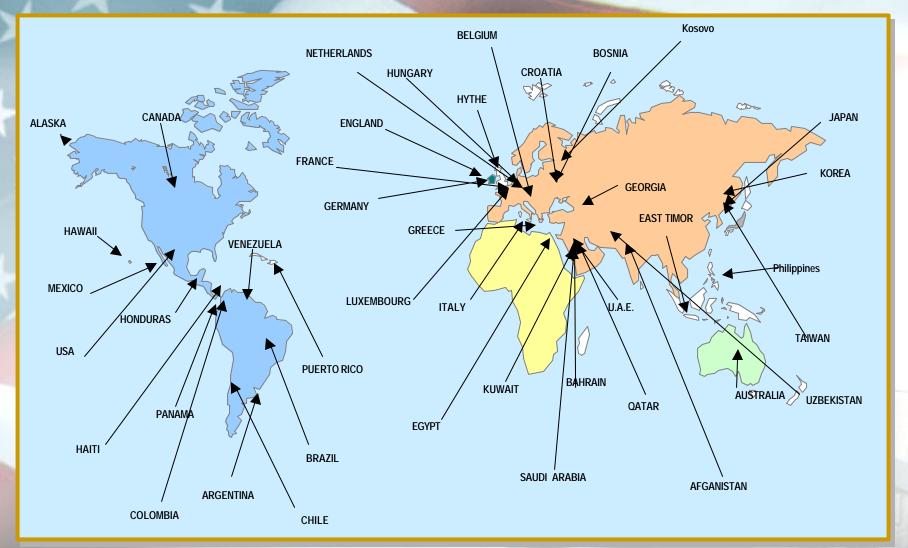
- \* Bombs (all types)
- \* 155mm projectiles
- \* 105mm projectiles
- \* 120mm Tank TP
- Ctg 40mm HEDP
- \* 155mm propellant
- \* Line Chg C4
- \* 120mm mortar
- 120mm Tank AP
- \* Ctg 25mm AP

Army: 19,425 reqs.
Marines: 3,849 reqs.
Navy: 7,197 reqs.
Air Force: 5,651 reqs.
Total: 36,122 reqs.





### AMC Personnel In Combatant Command AOR





Providing Support to Soldiers Across the World; 24 Hours a Day, 7 Days a Week, 365 Days a Year ESSENTIAL IN PEACE, INDISPENSABLE IN WAR

### Contractors On The Battlefield



Advances in technology mean we won't deploy without them. New challenges and key decisions to be made.....

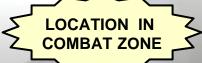








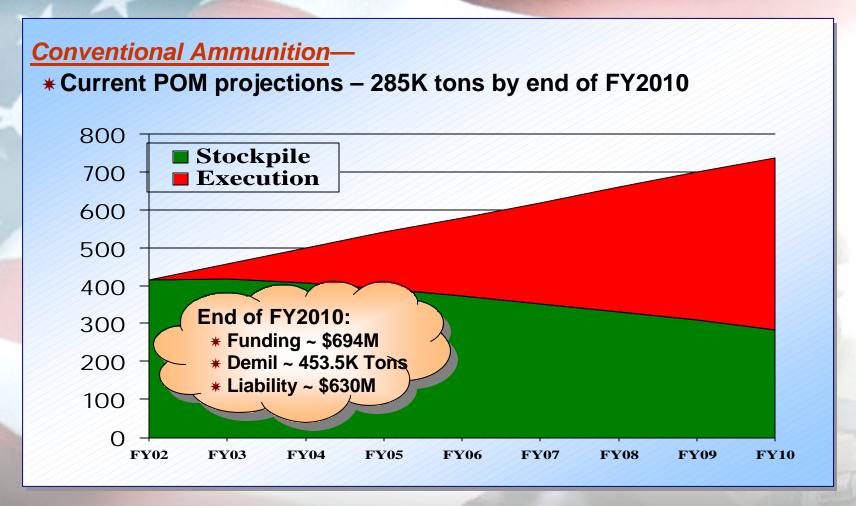








## Issue: Demilitarization Stockpile







#### Conclusions

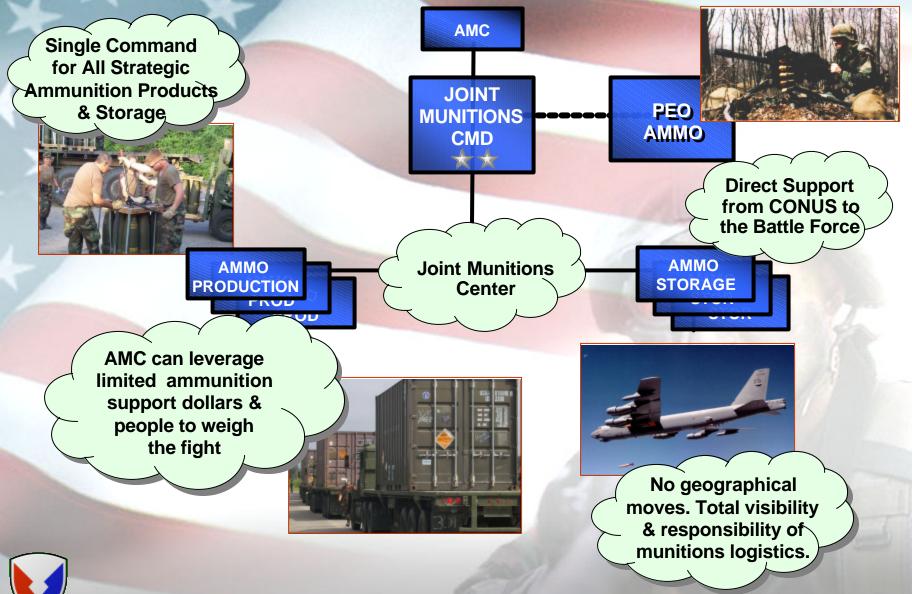
- AMC organizational changes to be in a better position for 21<sup>st</sup> Century logistics challenges.
- Our Industrial Base is evolving: More to come!
- Our enterprise efforts will change the way we operate.
- Current operations are ongoing.
- Still quite a bit of work to do in demilitarization of ammunition.
- Arsenals, ammunition plants and depots continue to improve efficiency and effectiveness - and manage risk.







### Joint Munitions Command





# Ammunition Responsibilities

**JMC** 

EDCA
SMCA
Oversight and
Assessment

PEO/PMs

**Inventory Accountability** 

Receipt

**Storage** 

Issue

Safety

**Security** 

**Transportation** 

**Quality Assurance** 

Maintenance

**OMA (Funds & Program** 

Mgmt)

**SMCA Field Operating Agency** 

**Industrial Base** 

**Execution of PAA Funds** 

RDT & E

**Acquisition/Procurement** 

**Program Budget for PAA Funds** 

**Procurement Review to Restrict** 

to North America

(Section 806 Review)

Hardware Production Resources

(Funds & Program Mgmt)

**Renovation Components** 

DEMIL

**SMCA Executor** 





# Joint Projects

- TNT for Air Force
- Bomb bodies for all Services



Greater Customer Involvement with Procurement Actions









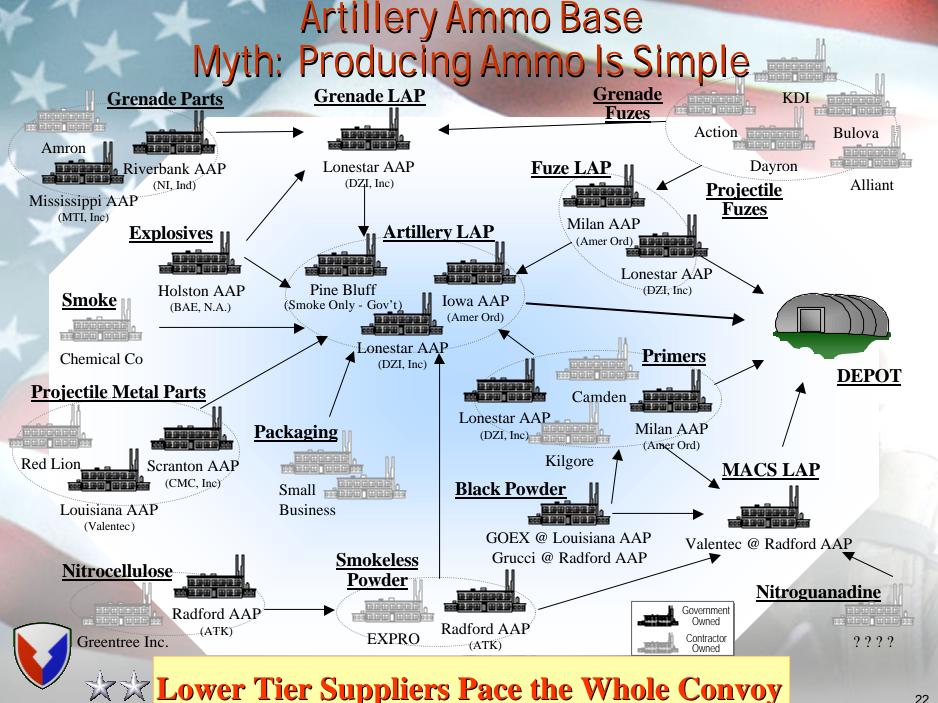
# Industrial Mobilization Reality

Myth vs Reality: Dec '41 Decisions Execution in '42

- 1938 Great Powers abrogate Naval Limitations
   Treaty US begins planning for Pacific War . 130+
   munitions production facilities authorized
- 1939 site surveys begin
- 1940 some facilities under construction additional impetus from Lend-Lease Act
- 1941 first wave of facilities complete construction- in production before Dec 7, 1941
- 1942 1944 additional facilities constructed

Bottom line - munitions production facilities were in planning 3 years before outbreak of war





# Just How Big IS the Production Base?

#### 14 Government Owned Facilities With:

- 351,00 Acres
- 302,000 Pieces of Equipment
- 73 Production Lines
- 7,000 Production Personnel

#### **69 Contractor Facilities**

11 Contractor Facilities w/Government Owned Equipment





### Where Is the Organic Ammunition Base?



526K to 351K acres 483K to 302K pieces of equipment

- Defense ProductionOccurring at ALLPlants
- Ammo Production
   Occurring at 13 of 14
   Plants

IOWA, LONE STAR, MILAN RADFORD - HOLSTON PINE BLUFF LAKE CITY

McALESTER\*

CRANE

- LAP
- PROPELLANT
- EXPLOSIVE

- SMOKE

- SMALL ARMS

- BOMB

- NAVY GUN & PYRO

LOUISIANA

RIVERBANK

**MISSISSIPPI** 

**SCRANTON** 

**KANSAS** 

- PROJECTILE

- CTG CASES

- CIG CASES

- GRENADES

- LARGE CAL

LANGE OAL

- SUBMUNITION



\*Key role in support of Balkan and Afghanistan Operations



# What Is In Our Current Ammunition Inventory?

Over 972 DODICS in Inventory

Limited Warm Base Average Around 120 DODICS a Year Bought Between 99-02

# **Current Capacity for Producing 171 DODICS Which Include:**



2.7M S/T

\$<u>23B</u>

#### Other

Demo Mines Fuzes

Prop Chgs

Pyrotechnics Pockets

Rockets

Grenades





# Ammunition Government-owned Production Base Under Concept of Sizing to Peacetime/Surge

