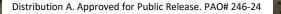
PROJECT MANAGER COMBAT AMMUNITION SYSTEMS

Munitions Executive Summit: Where Expertise Counts 20 March 2024

Presented by: COL Leon L. Rogers II Project Manager Combat Ammunition Systems leon.l.rogers.mil@army.mil

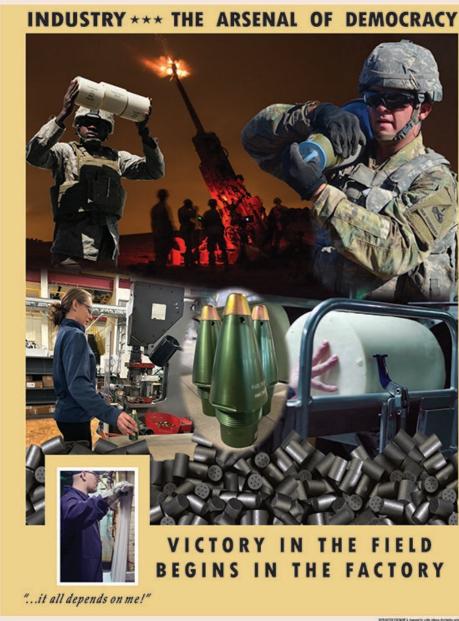
FORGING THE FUTURE OF INDIRECT FIRE







- . Organization and Priorities
- . 155mm Munition Production Strategy
- Artillery Munition Interoperability
- . Indirect Fire Munition and Weapon Modernization





PM Combat Ammunition Systems Organization





BONUS



Concept Development

Production/Sustainment

Distribution A. Approved for Public Release. PAO# 279-24



PM CAS Priorities



- Deliver Ammunition & Weapon Systems to meet or exceed Customer Required Delivery Dates for Mortars and Artillery
 - ✓ Support to Ukraine
 - ✓ Increase production capacity for 155mm munitions
 - ✓ Continued emphasis on Safety and Quality
 - ✓ Produce and field Second Source Mortar Cannons
 - ✓ Produce and field BONUS and M-Code capable
 Precision Guidance Kit (PGK) with Anti-Jam capability
 - ✓ Produce and field Cannon-Delivered Area Effects Munition (C-DAEM) Armor (XM1180) & DPICM Replacement (XM1208)
- Develop Long Range Precision Effects
 - ✓ Transition XM1113 and M1128 into production
 - $\checkmark~$ Develop Long Range-PGK as the next-generation course correcting fuze
- Enable and Fulfill International Requirements to Strengthen Partnerships and Alliances
 - ✓ Interoperability demonstrations on foreign platforms (52 caliber)
 - ✓ Improve Interoperability / Interchangeability with Allied Partners
 - ✓ Foreign Military Sales/Direct Commercial Sales
 - ✓ Execute Co-development Project Agreements and support Cooperative Research and Development Agreements (CRADAs)



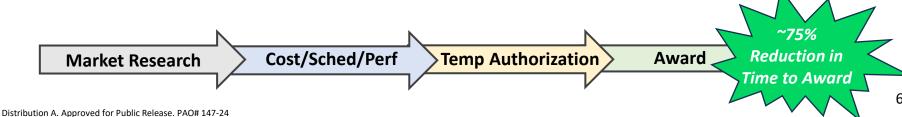




Acquisition Approach



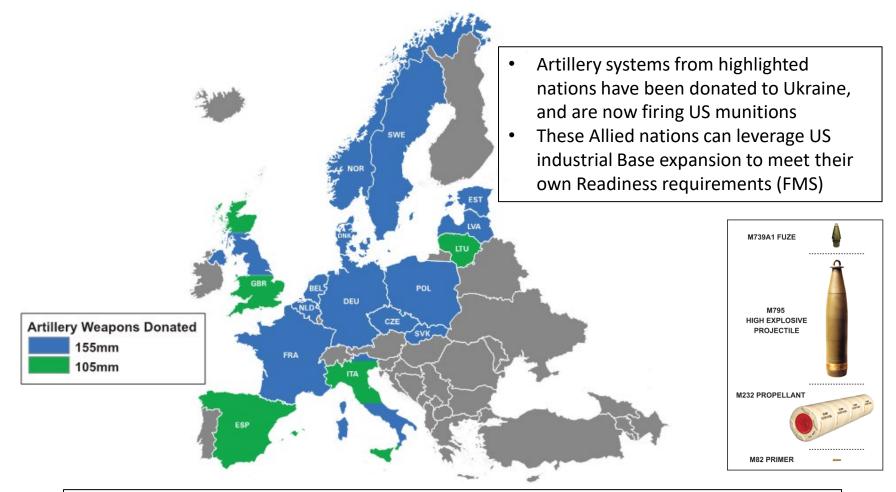
- USFY24 National Defense Authorization Act, Section 1242, Temporary Authorizations Related to Ukraine, Israel, and Taiwan
 - Temporary Acquisition Flexibilities to Build or Replenish stocks of Critical Munitions
 - Authority expanded to include Ukraine, Israel, Taiwan, and supporting foreign partners
 - Allows for accelerated approval of limited source/competition for Public Interest
 - Temporary Authorization extended from Sept. 2024 to Sept. 2028
- During USFY23, PM CAS has used authorities 17 times for Rapid Contracting Activities and Multi-Year Procurements, and will continue to do so for applicable projects
- Temporary Authority Outcome and Lessons-Learned:
 - Reduction in Acquisition Lead Times by 75%
 - Cost Proposals Still A Challenge FAR 15.408, Table 15-2-Instructions for Submitting Cost/Price Proposals
 When Certified Cost or Pricing Data Are Required
- Key Takeaways:
 - Market Survey Reponses Require Actionable Information
 - Examples: Production Rates, Delivery Schedule Lead-times, Integrated Master Schedules, Rough Order Magnitudes, Capacity Increases, etc.
 - ✓ Inform Army Leadership of Industry Capabilities and critical-path to award and delivery to make acquisition decisions.
 - All Parties Maintaining Timely and Accurate Submissions to Meet War-Time Demands!



9 Jan 24



US Artillery Munitions Interoperability with Allied Nation Weapon Donations to Ukraine



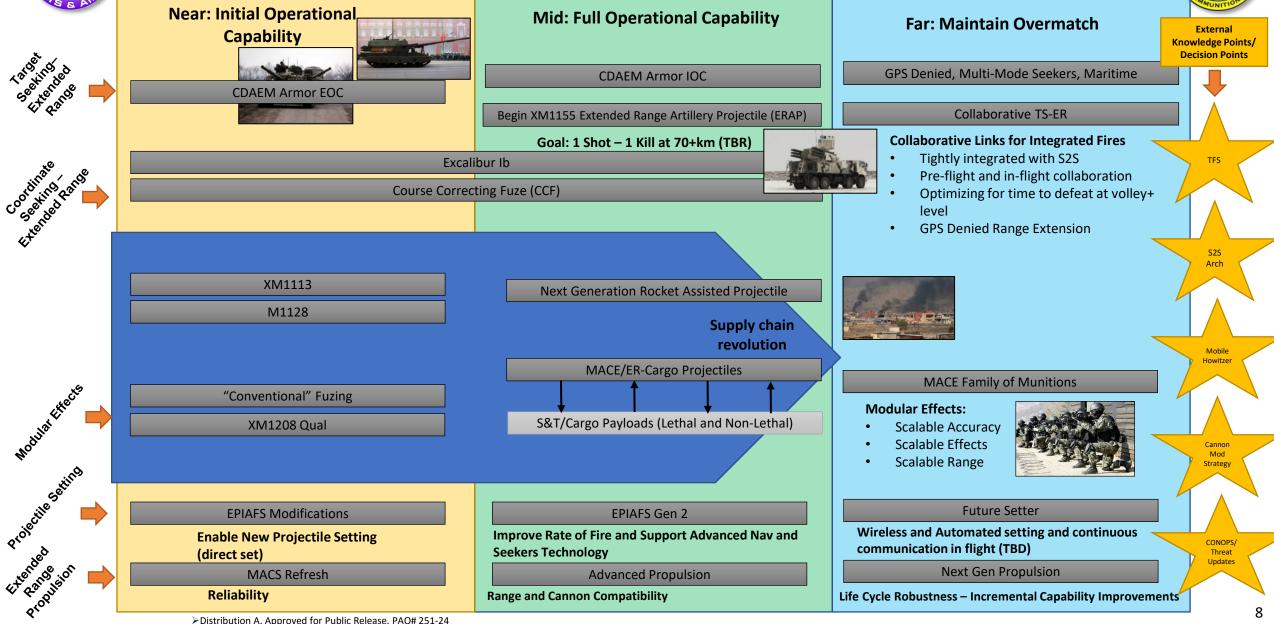
Effort is now underway with DASA(DE&C) and NATO Support Procurement Agency (NSPA) to make 155mm munitions available to NATO Allies (FMS case), including opportunities for combined buys and sharing of US Munitions technical data





Artillery Ammo Modernization





Distribution A. Approved for Public Release. PAO# 251-24



PM-CAS Collaboration Opportunities



- 1. Improved Digital Engineering tools to enable more rapid product development and improvement.
- 2. System level development of higher muzzle velocity producing propulsion systems.
- 3. Projectile design and manufacturing capability to improve cannon compatibility and modularity.
- 4. Improved Tactical Rates of Fire and Time to Defeat through Projectile Initialization (e.g. "Fuze Setting") and Autoloader Integration.
- 5. Automated inspection and classification of explosive melt-pour, pressed, or cast cure defects using X-Ray or other Non-Destructive methods.
- 6. Mortar technologies Range, lethality, advanced lightweight pointing devices and fire control.
- 7. Upcoming Conventional Ammunition Competitive Solicitations:

| NOMENCLATURE: | CONTRACT CEILING | ESTIMATED POP | STATUS: |
|---------------------------------|------------------|---------------|-------------------|
| 105mm Wood Box | \$9.3M | FY24-28 | RFP Target 3QFY24 |
| Mortar Ignition Cartridges | \$219.7M | FY25-29 | RFP Target 3QFY24 |
| Mortar Metal Container | \$30.6M | FY25-29 | RFP Target 4QFY24 |
| TNT/PBXN-9 Supplemental Charges | \$97M | FY25-29 | RFP Target 4QFY24 |
| M82 Primer | \$129M | FY25-29 | RFP Target 4QFY24 |
| M739 Fuze Production | \$398M | FY25-29 | RFP Target 1QFY25 |



Summary



- Significant expansion of 155mm munition capacity is underway with goal of >85K projectiles/month by 4QFY25
 - Limiting factor is worldwide supply of Energetics & Propellant
- US expansion in 155mm munitions offers options for Allied procurements (FMS) versus investing in their own industrial expansion
- "Innovating at the Round," Through our modernization efforts
- More opportunities for industry to continue to "get in the fight"

INDUSTRY *** THE ARSENAL OF DEMOCRACY

