



U.S. ARMY

# LETTERKENNY ARMY DEPOT

## 2024 Advanced Planning Briefing to Industry (APBI)

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# MISSION ALIGNMENT

## ARMY MATERIEL COMMAND

### MISSION

Army Materiel Command delivers logistics, sustainment and materiel readiness to an expeditionary global force from the Joint Strategic Support Area to the tactical point of contact across the spectrum of conflict in support of the joint force.

### VISION

Be the premier enterprise postured to support a global joint force with predictive and precision sustainment.

## ARMY AVIATION & MISSILE COMMAND

### MISSION

AMCOM develops and delivers responsive aviation, missile and calibration materiel readiness to the United States Army in order to optimize joint warfighter capabilities at the point of need.

### VISION

Mission First, People Always, enabling synchronized aviation, missile and calibration materiel enterprises providing unmatched capability for the Army and the Nation.





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# MISSION AND VISION



## Mission

Letterkenny Army Depot repairs and modernizes Air and Missile Defense and precision fires systems to enable multi-domain operations for U.S. and allied forces.

## Vision

Letterkenny Army Depot is the premier professional organization in Air, Missile and Space systems, dedicated to emerging technologies and best business practices that transform the ability of the Army, our Allies and business to provide military superiority.

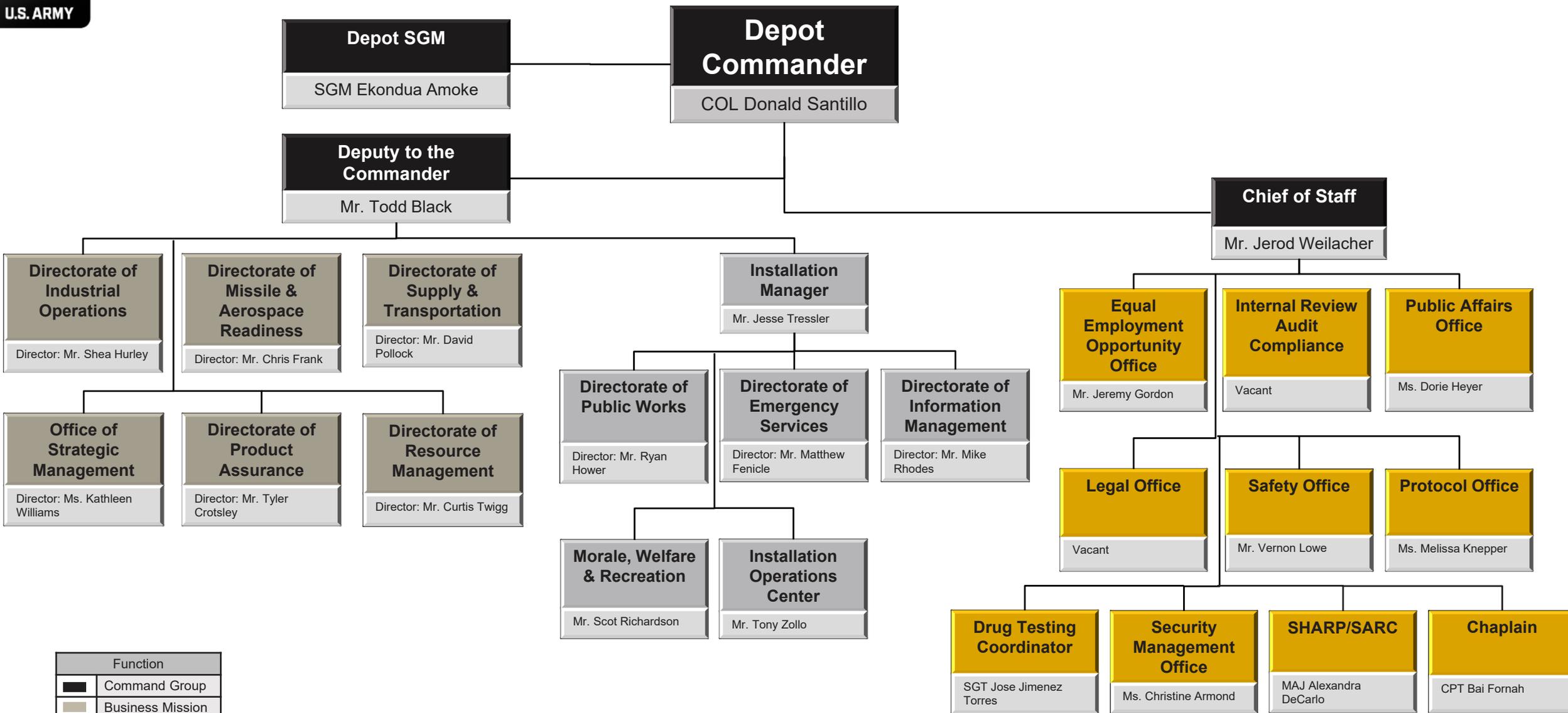
## Why

Service Members commit their lives to the security of our nation, so we passionately dedicate ours to the continuous improvement of their equipment and ourselves. We empower





# DEPOT ORGANIZATION CHART



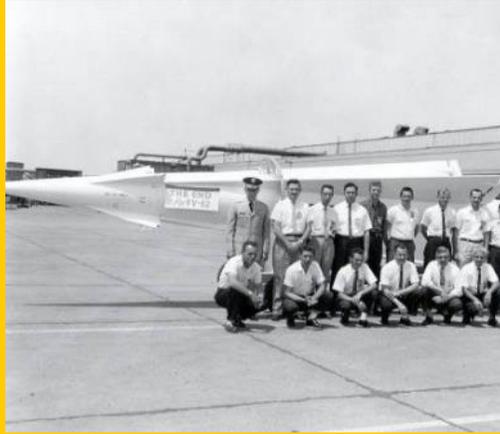
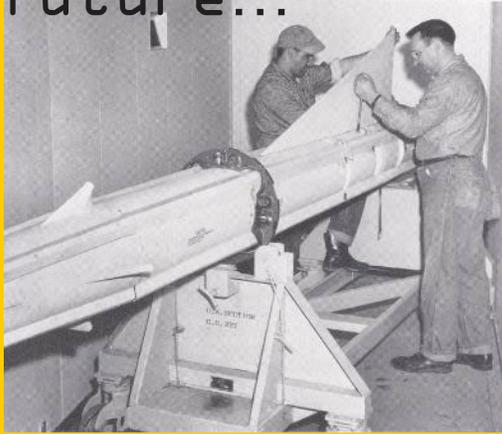
Function	
	Command Group
	Business Mission
	Installation Mission
	Special Staff





# HISTORICALLY SUPPORTING THE WARFIGHTER

From the **NIKE** to the **HAWK** to the **PATRIOT** and into the future...



LEAD is the Army's premier professional organization in Air, Missile and Space systems, supporting the Soldier in the field and ensuring the success of the mission.





# FACTS AND FIGURES

**ANNUAL REVENUE: \$450M - \$500M**

**REGIONAL EMPLOYER:**  
Second largest employer in Franklin County, PA

**ANNUAL ECONOMIC IMPACT:**  
\$280M into regional payroll, contracts, and retiree annuities

**REAL ESTATE:**  
- 18,000+ acres  
- \$1.5+ billion in infrastructure  
- \$170+ million in specialized equipment



**Multi-generational workforce  
~40% Veterans**



**TOTAL DEPOT POPULATION - 2,315+**

**SOLDIERS  
10+**

**CIVILIANS  
1,100+**

**CONTRACTED  
350+**

**TENANTS  
750+**





# SOURCES OF WORKLOAD

## CORE

**Depot Sources of Repair (DSOR)**

- Patriot Missile Systems
- Mobile Kitchen Trailer
- AN/TPY-2 Radar
- THAAD Fire Control & Communications
- Tactical Quiet Generators
- Route Clearance Vehicles
- Sentinel Radar
- Javelin
- Hellfire Missile Systems
- HIMARS

**Center of Industrial & Technical Excellence (CITE)**

- Air Defense & Tactical Missile GSE
- Patriot Missile Recertification
- Power Generation Equipment
- Route Clearance Vehicles
- Aviation Ground Support Equipment

**Private/ Public Partnerships (P3)**

- Patriot Launcher & GSE
- Patriot Missile Recertification
- Apache Fire Control
- HIMARS
- Sentinel
- Javelin
- THAAD
- GEM-T Missile





# LEAD CAPABILITIES – INTERCEPTORS/MISSILES

*PRODUCTS: PAC-2; Hellfire, Javelin*

*SCOPE: New Build, Recertification, Reliability Testing, Fly-Away Teams*



## SPECIALIZED EQUIPMENT:

- **PM-560** – Patriot PAC-2 Forebody testing, flight simulation, troubleshooting, and recertification. Anechoic chamber for seeker testing/validation, advanced troubleshooting at the MDAGS level
- **Control Section Test Set** - Flight simulation test and recertification of the control section. Hydraulic/Pneumatic systems
- **SAD/ESAD Testing** – Ensures safety of the device and can validate useability for the Safety & Arming (S&A) device & Electronic Safe & Arming Device (ESAD)
- **Field Resistance Test Set** - Field testing of all variants of an all-up-round PAC-2 to ensure continuity between canister and missile connections and validate missile is in a safe condition. Portable and can be used anywhere in the world
- **Inertial Sensor Assembly Test Set** - Vibe (environmental), heater, centrifuge for Gyro/accelerometer test
- **Modernized Hellfire Universal Test Set** - Tests the seeker, laser, and nitrogen fed control section test as necessary for all-up-round missiles
- **Modernized Semi-Active Laser Seeker Test Set** – Advance seeker section testing of the Hellfire missile

## FACILITIES:

- Lightner Missile Complex: 99k SF
- Complete PATRIOT storage, disassembly disassembly testing and recertification facility: 41k SF
- Explosive weight: 2k lb
- Inert storage: 20k SF
- Classified storage: 3k SF
- Lightning warning and protection system system
- Temperature and humidity-controlled controlled environment





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# LEAD CAPABILITIES – SHOOTERS

*PRODUCTS: PATRIOT Launcher, THAAD Launcher, Avenger, TOW, Hellfire Launcher*

*SCOPE: New Build, Recapitalization, Reset, Modernization, Fly-Away and Fielding Teams, Secondary Repair and Component Fabrication*

## SPECIALIZED EQUIPMENT:

- Launcher Station Consoles – simulate missile rounds and communications
- Launcher Simulators – simulate battle formation functions under load, prior to mount-up
- Cable and harness pods – dedicated to repair existing or fabricate new launcher cables
- Linear actuator and outrigger test stands – test actuators and performs an outrigger load test under pressure to ensure quality and allow adjustments prior to mounting
- Next Generation Automated Test Station Test Procedure Strategy
- LEAD sourced technical data packages to fabricate every component on the launcher (and RADAR) trailer
- Bridge mills large enough to accommodate trailer bed
- Cold Spray Repair Procedures
- Repair processes for bent rails, sponson damage and doors
- System Integration and Check Out Teams – deploy with the equipment, all over the world to field and modernize
- Repair Procedures for modifying existing launchers for new emerging system (SVML)
- Depot Maintenance Assistance Teams – deployed to upgrade and modernize existing systems and improve unit level readiness
- Composite Repair – ability to make repairs to damaged turrets
- Cooler Reservoir Assembly – Argon Bottle testing and recertification

## FACILITIES:

- 300k SF for end items, chassis, SRU/LRU repair
- 60k SF of metal fabrication
- Aim Verification Facility
- Process Support Areas for component, in process and final paint





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# LEAD CAPABILITIES – SENSORS



*PRODUCTS: PATRIOT RADAR, Sentinel A3, AN/TPY2 AEU*  
*SCOPE: Recapitalization, Reset, Modernization, Fly-Away and Fielding Teams, Secondary Repair and Component Fabrication*

level maintenance control station diagnostics; parametric and performance test and performance test consoles

- Free Space Range - multidirectional free space radiate; capable of full fire unit capable of full fire unit system integration with grounding and lightning and lightning suppression.
- General Electronic Test Station – circuit card and chassis testing and repair

## FACILITIES:

- 300k production space including secure areas
- 3.7-acre Test Site
- Drive In Near-Field Anechoic Chamber – break ground in FY25
- Power Amplifier Module Facility





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# LEAD CAPABILITIES – MOVERS



*PRODUCTS: PATRIOT GSE, AMD Prime Movers*  
*SCOPE: Recapitalization, Reset, Modernization, Secondary Repair and Component Fabrication*

## SPECIALIZED EQUIPMENT:

- Repair procedures and expertise for all AMD related prime movers
- Process for inspection and repair of multiple complete battalion sets of equipment
- Alignment Machine – Laser alignment for wheels
- Hydraulic Cylinder Testing and Repair Equipment
- Hydraulic and Air Line Fabrication
- On and Off-Road Testing Capabilities that simulate field conditions
- Modification and repair procedures for HIAB 144F crane to update the Guided Missile Transporter

## FACILITIES:

- 300k SF for end items and component
- Full-Service Tire Shop
- 60k SF of metal fabrication
- Process Support Areas for component, in process and final paint
- Rail head and recovery operations





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# LEAD CAPABILITIES – POWER



*PRODUCTS: PATRIOT Power Generation*

*SCOPE: Reset, Modifications, Modernization, Secondary Repair and Component Fabrication*

## SPECIALIZED EQUIPMENT:

- Nine test cells – simulate power load to ensure quality control
- Large capacity dyno test cell – simulates operational conditions to ensure quality control and diagnostic results
- Fabrication programming and fixtures for panels and metal components
- Kanban supply chain with embedded commercial supplier
- PATRIOT Waterfall; ready supply of generators
- Trailer repair and alignment fixtures and specialized equipment
- Reverse engineering for AMMPS components
- Dedicated equipment and procedures for rewinding some AC Motors
- Robotic Incremental Forming (pending FY24 RSIP funding)

## FACILITIES:

- 50k ft<sup>2</sup> production space
- Automated Engine Rebuild Facility – operational in FY25



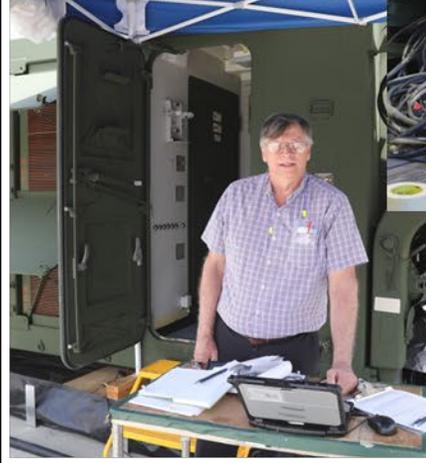


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# LEAD CAPABILITIES – MAKERS/INNOVATORS

## PROJECTS:

- Program Management Implementation
- Shop Floor Automation
- Digital Engineering for Supply Chain Resilience
- Reverse Engineering and Obsolescence
- Metrology Tools
- Non-Destructive Testing
- Advanced Welding and Materials Lab
- 3D Printing
- Cold Spray Deployable Techniques
- High Velocity Training Center
- Fiber Optic Cable Repair Capabilities
- Electronic Makers Lab and Partnership with DMEA (FY 24)
- Corrosion Mitigation Deployable Suite (Pending SBIR Award)
- Pop-Up Cold Spray (FY 24 - Pending RSIP Award)
- Digital Engineering Production Cell (FY 24 - Pending MANTECH Award)
- Additive Friction Stir Deposition (FY





# FORWARD SUPPORT

USSPACECOM



## Letterkenny's backyard





# PUBLIC – PRIVATE PARTNERSHIPS (P3)



## PARTNERSHIP BENEFITS TO THE DEPOT

- Technology Insertion
- Skill Set Sustainment
- Leverage Lessons Learned to Assist Force Modernization Planning for New Systems Sustainment

## PARTNERSHIP BENEFITS TO PRIVATE INDUSTRY

- Skilled Artisans
- Facility Infrastructure in Place
- Flexibility and Options
- One Stop Shop
- Competitive Labor Rates
- Solutions Provider for Supplier and Obsolete Material Issues

## INDUSTRIAL CAPACITY

- Skilled Artisans
- Facilities
- Equipment

## COST MANAGEMENT

- Labor Rates
- Sustainable Engineering
- Zero Profit Margin

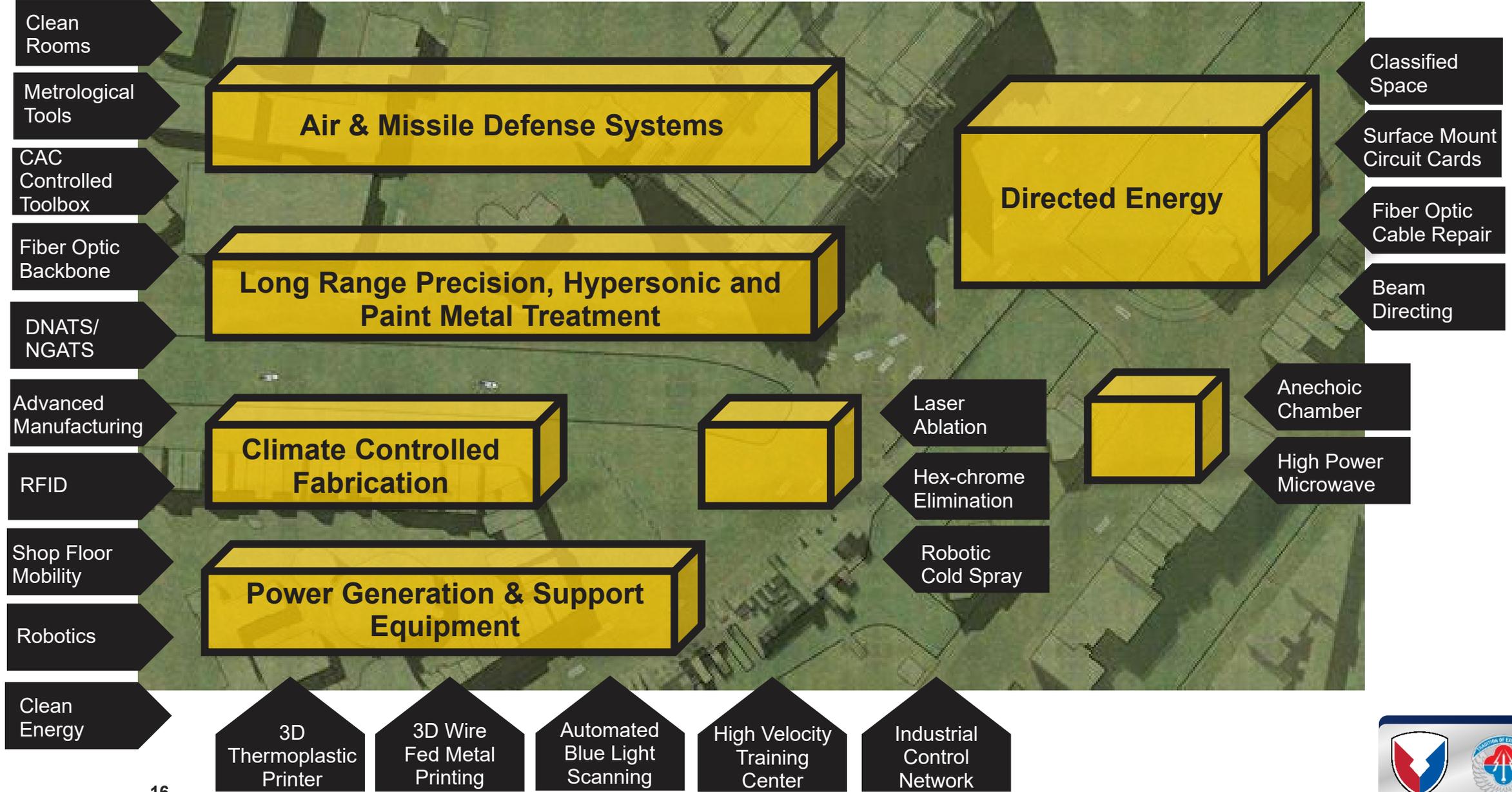
## ACCESS

- Government Supply Chain
- Full DCMA compliant EVM and ISO



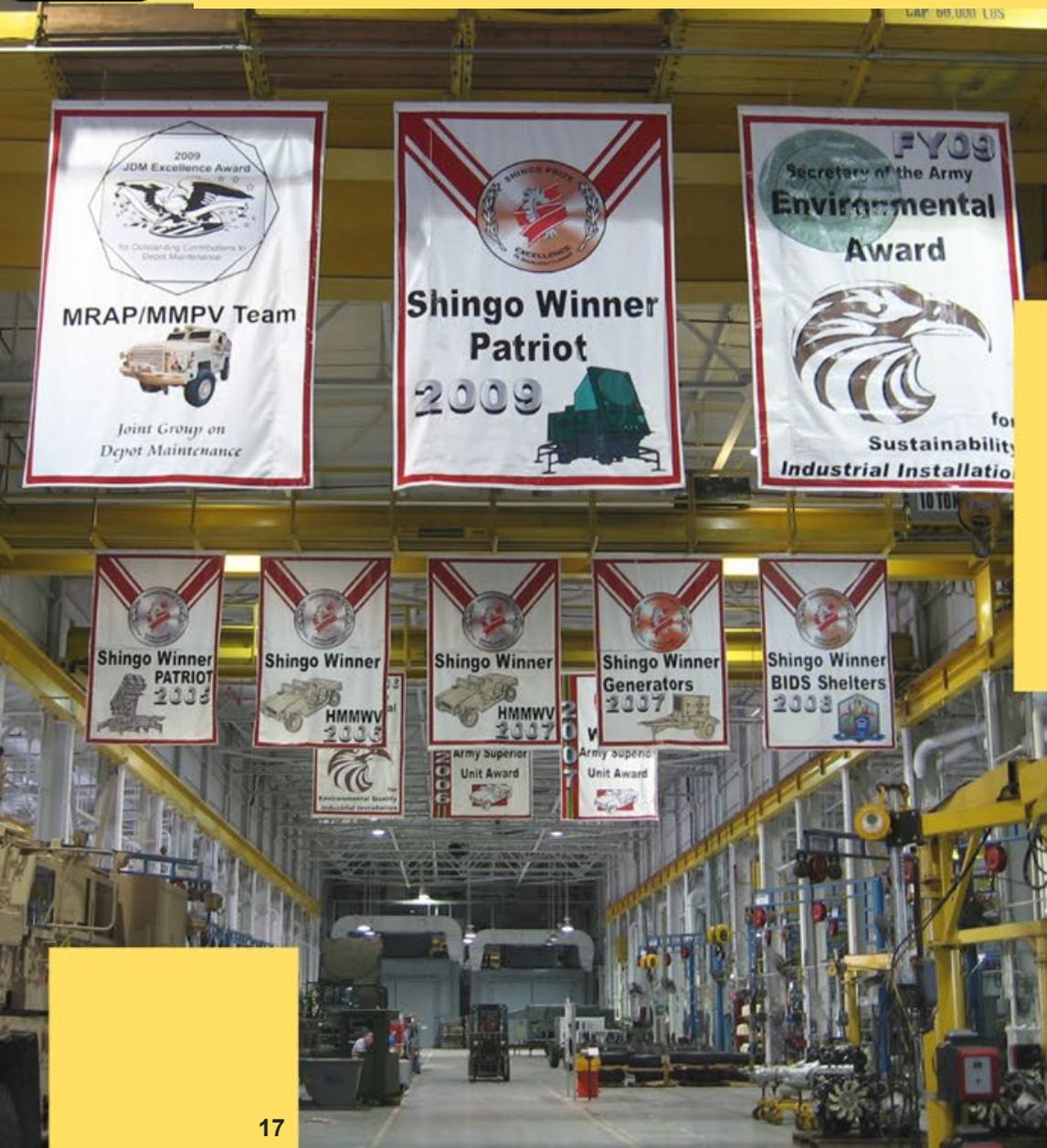


# MODERNIZATION PLAN





# HONORS AND CERTIFICATIONS



Multiple Army Superior Unit AWARDS



AS9100 & AS9110 C Quality Management Systems CERTIFICATIONS



2022 DOD Maintenance Innovation Challenge AWARD FINALIST



Two Pro Patria AWARDS



Six Raytheon Supplier AWARDS



Ten Shingo Awards AWARDS



Occupational Health & Safety Standard 45001:2018 CERTIFICATION





# 3-5 YEAR OUTLOOK

Requirement	Estimated Value	Competitive/Sole Source
LEAD Labor Contract Renewal	\$500M	Competitive
Job Order Contract Renewal	\$100M	Competitive
CIP Building Connection Corridor	\$920K	Sole Source
CIP Laser Ablation System	\$780K	Sole Source
CIP Computed Tomography Inspection System	\$2.074M	Competitive
CIP Computer Numerically Controlled (CNC) Punch Machine	\$720K	Competitive
CIP Environmental Test Chamber	\$10.546M	TBD
CIP Crankshaft Grinder	\$367K	Competitive
CIP Containerized Dyno System	\$1.302M	Sole Source
CIP Block Machining Center	\$677K	Competitive
CIP Anechoic Chamber	\$6.643M	TBD
CIP Rail Mounted Gentry Crane	\$4M	TBD





# LETTERKENNY ARMY DEPOT



**At Letterkenny Army Depot,** we are passionate about what we do.

Our tireless pursuit of excellence is reinforced by commitment, innovation and ownership. Here, thinking differently is commonplace - we promote an environment where everyone has a voice, and every voice matters. We guarantee that every piece of equipment that leaves our depot meets customer expectations. We are one of the best depots in the Army's Organic Industrial Base because of who we are and what we stand for.

