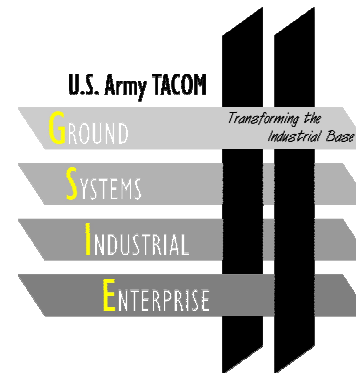




TACOM
Lethality, Survivability, Mobility and
Sustainment for America's Army

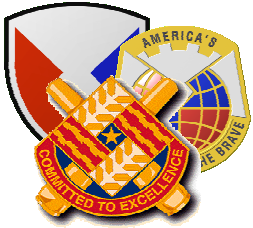


Ground Systems Industrial Enterprise (GSIE)



Transforming the Industrial Base

Tank-automotive & Armaments COMmand



Agenda



- **GSIE**
 - **Mission**
 - **Organization**
 - **Capabilities**
 - **Enterprise Excellence Initiatives**
- **Installation Briefs**
 - **Capabilities**
 - **Partnerships**
- **Wrap Up**



Ground Systems Industrial Enterprise



 **GSIE Headquarters**
 Joint Manufacturing &
 Technology Center-Rock Island
 Rock Island, IL



 **Joint Manufacturing &
 Technology Center-
 Watervliet**
 Watervliet, NY

 **Sierra Army Depot**
 Herlong, CA

 **Joint Systems
 Manufacturing Center-
 Lima**
 Lima, OH



 **Red River Army Depot**
 Texarkana, TX

 **Anniston Army Depot**
 Anniston, AL

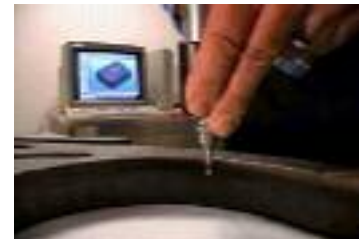
Transforming the Industrial Base



GSIE Statistics



- **\$1.5 billion operating budget**
- **6,500 employees**
 - 350 engineers
 - 350 welders
 - 500 machinists
- **32 million square feet of floor space**
- **4,300 pieces of industrial plant equipment**
- **500 computer numeric controlled machine tools**
- **36,000 acres of high desert storage**
- **7,100 foot runway**



Transforming the Industrial Base

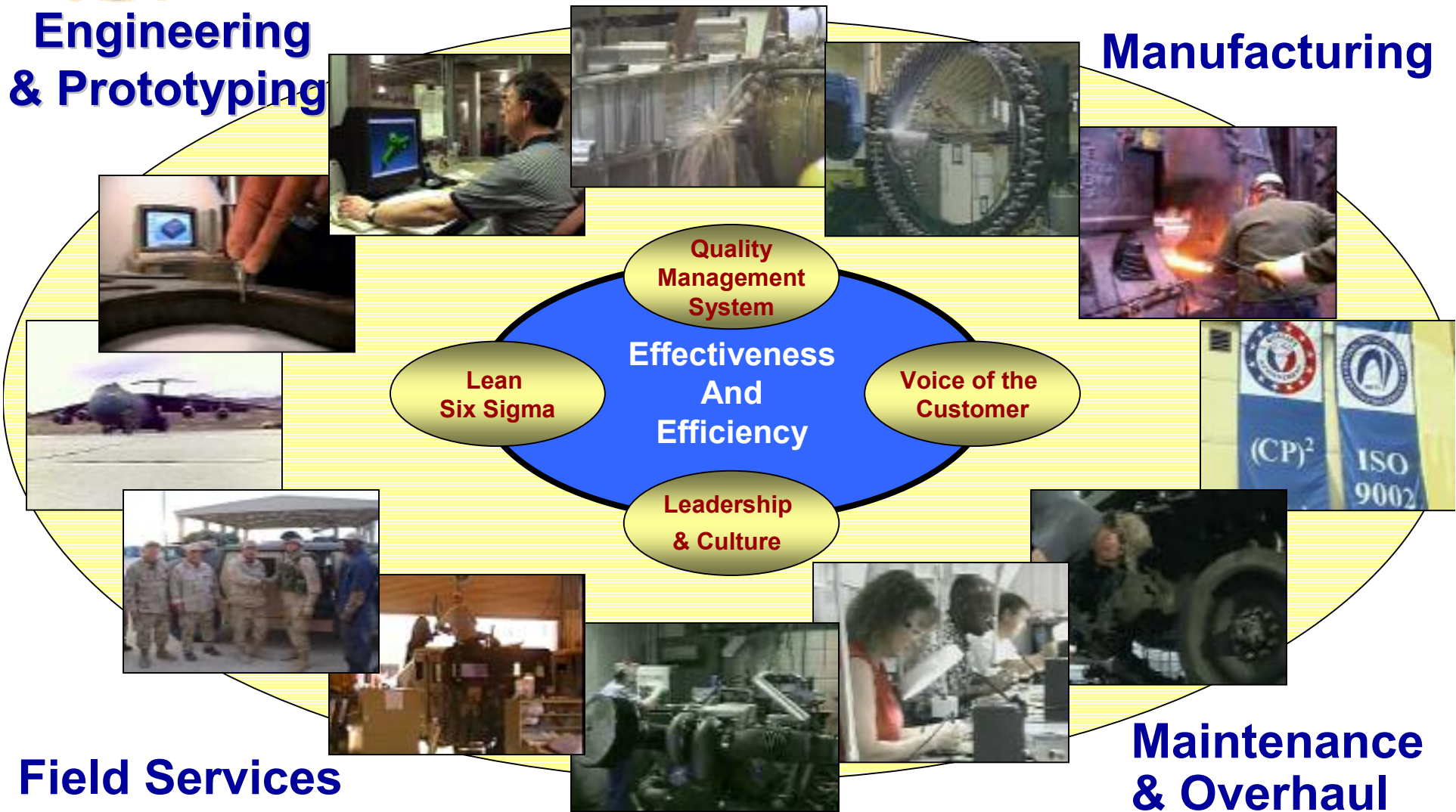


GSIE Capabilities Enhanced by Continuous Improvement



Engineering & Prototyping

Manufacturing



Field Services

Maintenance & Overhaul

Transforming the Industrial Base



Anniston Army Depot



Transforming the Industrial Base



Anniston Army Depot



CRITICAL CAPABILITIES

Depot-level recapitalization, overhaul, repair, modification and conversion of combat tracked vehicles, their components and sub-assemblies, and small arms.



SPECIALIZED CAPABILITIES

- Special armor repair including a secure facility for special armor repair
- Only AGT-1500 test facility in DoD
- DoD small arms rebuild facility and storage
- Infrastructure capable of supporting combat vehicles in excess of 70 tons
- Surge capacity of 3.2M workhours in 1 shift





Anniston Army Depot



JOINT SUPPORT

NON ARMY CUSTOMERS:

Marine Corps, DOD,
Navy, Air Force,
Defense General Service
Center, Private, National
Guard, Other federal
agencies

SUPPORT PROVIDED:

- Overhaul/Recap of combat vehicles
- Overhaul of weapons & howitzers
- Overhaul locomotives, large generator sets
- Overhaul, major subassemblies (AGT-1500 turbine engine, reciprocating engines, transmissions, optical fire control)
- Small arms repair center



Anniston Army Depot

Partnerships



- **Gunner's Primary Sight... Facility Use - GDLS**
- **FOX Vehicle Maintenance and Upgrade... Facility Use/Direct Sales - GDLS**
- **OSTS- Main Battle Tank... Facility Use/Direct Sales - UDLP**
- **M113- Test Track... Facility Use - UDLP**
- **Recuperator... Facility Use/Direct Sales - HONEYWELL**
- **PROSE... Facility Use - HONEYWELL**
- **Stryker... Facility Use/Direct Sales – GDLS/GM**
- **Israeli Mortar Carrier... Facility Use/Direct Sales - UDLP**
- **M1/M1A2 Upgrade... Workshare - GDLS**
- **M1A2 SEP Retrofit... Workshare - GDLS**
- **Abrams Integrated Management...Workshare - GDLS**

Transforming the Industrial Base



Joint Systems Manufacturing Center-Lima

Transforming the Industrial Base



Joint Systems Manufacturing Center - Lima



CRITICAL CAPABILITIES

Full range of heavy/light armor fabrication and manufacturing. Industry leader in weld processes/standards/training. Significant capacity for large structure machining

SPECIALIZED CAPABILITIES

- Over 1M sq.ft. production building and 150K sq.ft. building for special production work / Depleted Uranium Armor
- Production capacity to produce 75 tanks a month
- High bay crane capacity up to and including 65 tons
- 1.9 mile banked test track capable of high speed testing
- Friction stir welding, a new technology developed at JSMC-Lima
- State of the art laser cutter
- JSMC-Lima sole remaining tank production facility in the USA



Transforming the Industrial Base



Joint Systems Manufacturing Center - Lima



JOINT SUPPORT

NON ARMY CUSTOMERS: Marine Corps, Navy

SUPPORT PROVIDED:

- **ABRAMS Tank Family of Vehicles**
- **Expeditionary Fighting Vehicle**
- **MK-46 Weapons Station Turret**



Red River Army Depot



**Building it as if our lives depend on it
Theirs do !**



Transforming the Industrial Base



Red River Army Depot



Mission Sectors



MLRS



BFVS



HMMWV



HEMTT



SEE



PATRIOT/HAWK



ROADWHEELS



TRACK



AMMO



DDRT



Other Activities

- Army's premier industrial facility for BFVS, MLRS, HEMTT, and tactical wheeled vehicles
- Only DOD Capability for track and road wheel remanufacture
- Only DOD capability for PATRIOT and HAWK Missile recertification
- Garrison support for strategic partners

Transforming the Industrial Base



Red River Army Depot



Center Of Industrial And Technical Excellence (CITE)



Tactical Wheeled Vehicles
60% of The Organic DOD Total



Small Emplacement
Excavator



PATRIOT Missile Re-Certification
Only DoD Capability



Multiple Launch
Rocket System Chassis

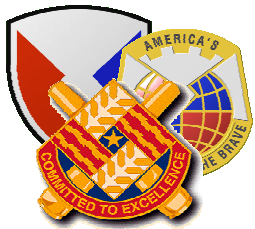


Rubber Products
Only DoD Capability



Bradley Fighting
Vehicle Series

Transforming the Industrial Base



Red River Army Depot



Public/Private Partnerships

- Sustain an operational, viable, Strategic Base essential to National Defense
- Essential element supporting transformation
- Public/Private Partnerships
 - Leverage the strengths of both parties
 - Can result in lower program costs
 - Create a cooperative working relationship
- Partners
 - UDLP – BFVS-Family of Vehicles
 - Lockheed Martin – MLRS chassis and components
 - Marvin Land Systems – M1A1 turret & roadwheels



Partnership Agreement &
Direct Sales Contracts
>\$10M FY04
>\$20M FY05 (projected)

Transforming the Industrial Base



Joint Manufacturing Technology Center Rock Island

Transforming the Industrial Base



Joint Manufacturing Technology Center Rock Island



CRITICAL CAPABILITIES

Manufacture, direct and indirect fire weapon systems and components. Assemble Tool Sets and basic issue materiel. Fabricate, stock and field sustainment systems such as Forward Repair System and Shop Equipment Contact Maintenance vehicles.



SPECIALIZED CAPABILITIES

- Only operational foundry within DoD
- Two 7-axis machining centers
- Simulation test center capable of supporting all artillery and tank systems in the U.S. inventory
- Rapid Response Manufacturing Center
- Small Arms Field Service Gages

Transforming the Industrial Base



Joint Manufacturing Technology Center Rock Island



JOINT SUPPORT

NON ARMY CUSTOMERS:

Marine Corps, Air
Force, Defense General
Service Center, Private

SUPPORT PROVIDED:

Small arms tool kits, Common 30/ASL-Special tools, M1A2 Gunmount & kits, springs, ring gage, M45 Recoil Mechanism, repair/rebuild recuperator cylinder assy, case electronics communication equipment, window assys, handle assy, seat cushion assy, passenger window frame assy, eng prototype shafts, misc parts f/CPK 5-ton truck, AC 130 Spectre Gunship 105mm, USMC Dragonfire Concept Demonstrator.



Joint Manufacturing Technology Center Rock Island



Partnerships

- **Rock Island Arsenal Development Group**
 - **10 Arsenal Support Program Initiative (ASPI) occupancy agreements**
- **UDLP and RIA – Manufacture of Objective Force Surrogate Training System turrets**



Sierra Army Depot



- U.S. Army TACOM
- WORLD
- SYSTEMS
- INDUSTRIAL
- ENTERPRISE



SIERRA ARMY DEPOT



JOINT SUPPORT

NON ARMY CUSTOMERS:

FEMA, Air Force,
Navy, Commercial,
Federal Bureau of
Prisons

SUPPORT PROVIDED:

- Pre-Positioned Disaster Supplies
- Water Distribution Systems
- Reserve Component Training on Medical, Water, and Fuel Systems
- Support Services



Sierra Army Depot



Partnerships

- **Lear Siegler – Manpower Support**
- **Letterkenny Army Depot – Force Provider**
- **Lindsey & Osborne – Rail Lease**
- **Cashman – Generator Overhaul**
- **Owens & Minor/McKesson – Class VIII P&Ds**
- **Anniston Army Depot – ROWPU Program**
- **Federal Bureau of Prisons – HMMWV ASK**



Sierra Army Depot



CRITICAL CAPABILITIES

Storage, maintenance, assembly, and containerization of critical Operational Project Systems including Deployable Medical Systems (Hospitals and Pharmaceuticals), Petroleum and Water Systems, Force Provider and Strategic Configured Loads



SPECIALIZED CAPABILITIES

- **Storage, COSIS, and Rapid Deployment of equipment and troops**
- **Only AMC facility with an active airfield on post**
- **30,000 acres for expansion**



GOALS

- **Continued as preferred pre-deployment lifecycle managers**
- **Continually improve productivity and efficiency thru the implementation of Enterprise Excellence initiatives**
 - **Lean Manufacturing**
 - **Leadership Competencies**



Transforming the Industrial Base



Joint Manufacturing Technology Center Watervliet

Transforming the Industrial Base



Joint Manufacturing Technology Center Watervliet



CRITICAL CAPABILITIES

Manufacture and Technology Center for production, fabrication and rehab of cannon, mortars, recoilless rifles, towed and self-propelled artillery and components for these end items and secondary spares; A sustained, responsive warm production base which supports Rapid Development Cycles; World Class quality – ISSO 9002 Certified; Highly skilled workforce; Only qualified U.S. source for Cannon, Gun Tubes, and Mortars.



SPECIALIZED CAPABILITIES

- Rotary Forging
- Precision machining
- Prototyping
- Simulation (pressure) testing & Gymnastication
- Autofrettage/Swage/High Pressure Cold Working
- R & D Engineering expertise on site (Benet Labs)
- Chrome plating
- Composite manufacture
- In-house tool design & Mfg

Transforming the Industrial Base



Joint Manufacturing Technology Center

Watervliet



JOINT SUPPORT

NON ARMY CUSTOMERS:

Marine Corps, Navy, Air Force, Foreign Mil Sales, Other Federal Agencies, Private Sector

SUPPORT PROVIDED:

Apache Helicopter Structural Parts; HMMWV Armour Survivability Kits; Marine propulsion drive shafts; Gun Mount Ballistic Shields; Marine Corps Radio Adapter Kits; 120mm M256 M1A1 Tank cannon; 155mm M284/M185/ M199/M776 LW/XM982; 105mm M68A1E1/M137/M119; 120mm, 81mm & 60mm Mortars; 8" M201A1 Spare Parts; Reset and OIF production support; Cannon modification & Retrofit kits; Various Spares; Cannon rehab & Rebuilds.



Joint Manufacturing Technology Center Watervliet



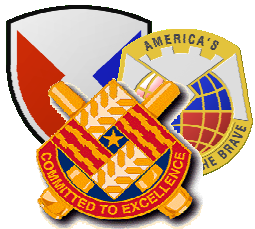
Partnerships

■ Key Joint Projects

- Arsenal Partnership & State University of Albany - Nanotechnology Center MOA
- WVA & Arsenal Partnership & M+W Zander - Center for Construction Trades Training
- WVA & Arsenal Partnership - New York State Council for Defense Contractors
- WVA & Arsenal Partnership & Ctr for Economic Growth - Homeland Defense Bus Incubator
- WVA & Benet & State University of Albany - Center for Nanocoatings and Nanostructures
- GD Stryker - 105mm M68
- GD K1 Upgrade - 120mm M256 Cannon
- UDLP M198 Howitzer Egypt rehab
- The Arsenal Partnership AP - WVA ASPI Site Manager
- Extreme Molding Inc - ASPI tenant
- Hartchrom Inc - cannon plating & ASPI tenant
- Elmhurst Reseach - ASPI tenant
- Step Tools - STEP software & ASPI tenant
- Solid Sealing Technology - ASPI tenant



Wrap-Up



Partnerships



- **Allows us to establish mutually beneficial working relationships with commercial industry**
- **Most Common Types**
 - Center of Industrial and Technical Excellence
 - Direct Sales
 - Work Share Agreements
 - Facility Use
 - Contractor Augmentation
- **Advantages**
 - Increased utilization of facilities
 - Workforce utilization as subcontractor or work share
 - Eliminate or Reduce Capital Investment in Facilities and equipment upgrades by private partners
- **Currently 97 Partnering Agreements in Place, including:**
 - Maintain surge capability for wartime
 - GDLS & ANAD – Stryker Assembly
 - Hartchrom & WVA – Chroming of Gun Tubes
 - SIAD & Lear Siegler – Manpower Support
 - RRAD & Lockheed Martin – MLRS OH/Rebuild
 - GSIE and Armor Holdings
- **Many More in Planning**



Transforming the Industrial Base



Statutory Authorities

Lease or Use Army Property

10 USC 2667

10 USC 2474

Armament Retooling and
Manufacturing Support (ARMS)
Initiative

10 USC 4551-4555

Arsenal Support Program
Initiative (ASPI)

Pub Law 106-398
Def App Bill FY2003
(Expires 1 OCT 2005)

Sale of Articles and Services to Persons Outside DOD

10 USC 2208(h)

10 USC 2539b

10 USC 4543

22 USC 2770

Participate in Public Competitions

10 USC 2208j

10 USC 2470

Section 8032 PL 108-37

Cooperative Research and Development Agreements

10 USC 2358

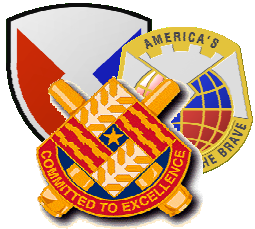
10 USC 2371

15 USC 3710a

Other

❖ Providing Government Property
to Contractors

FAR Subpart 45.3



GSIE - A Complete Capability



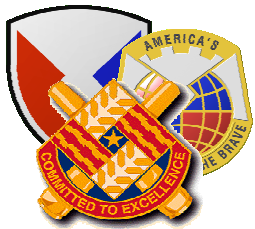
- **Life Cycle Capability**
 - Full range of processes and materials
 - Current, interim, and future systems
 - Leading edge of new technologies
- **Partnerships to meet the warfighter's needs**
 - Intra-GSIE Collaboration
 - Other Department of Defense Services
 - Other government agencies
 - Private Industry
- **Enterprise Excellence Initiatives**
 - Dedication to Organizational Excellence and Quality
 - World Class Organizations
- **Flexible infrastructure**
 - Ability to meet any requirement



Contacts



Organization	Name	Number
Ground Systems Industrial Enterprise	Gary Taylor	(309) 782-5397
Anniston Army Depot	Bonnie Bailey	(256) 741-5827
Joint Systems Manufacturing Center-LIMA	Nicolas Jurosic	(419) 221-9585
Red River Army Depot	Dennis Lewis	(903) 334-5045
Rock Island Arsenal	William Peiffer	(309) 782-5178
Sierra Army Depot	William Coffenberry	(530) 827-4888
Watervliet Arsenal	Jerome Brown	(518) 266-4136



Ground Systems Industrial Enterprise



On Point for America

Transforming the Industrial Base