



Aberdeen Proving Ground Overview

20 June 2005

Mr. Tim McNamara
Acting Deputy, US Army Garrison APG

Our Mission - *provide equitable, effective and efficient management of Army installations worldwide to support mission readiness and execution, enable the Well-being of Soldiers, civilians and family members, improve the Army's aging infrastructure and preserve our environment.*

Leading Change for Installation Excellence



Aberdeen Proving Ground Overview



MISSION

DoD's Center of Excellence for Land Combat Systems supporting the Nation through efforts of 66 highly integrated resident organizations engaged in Research, Development and Engineering; Test, Evaluation and Analysis; Operations and Training on Land and Sea Systems, Warfighter Systems, Chemical and Biological Defense, and Homeland Security.

***DoD's Center of Excellence
for Land Combat Systems-
Vehicles, Soldier Systems,
Chem Bio***

Aberdeen Proving Ground Overview



INSTALLATION STRUCTURE



MEDCOM

TRADOC

INSCOM

Tenants and Supported Activities

Tenants	66
Satellites	20
Private Organizations	17
Total	103



COE



AMC



CIDC



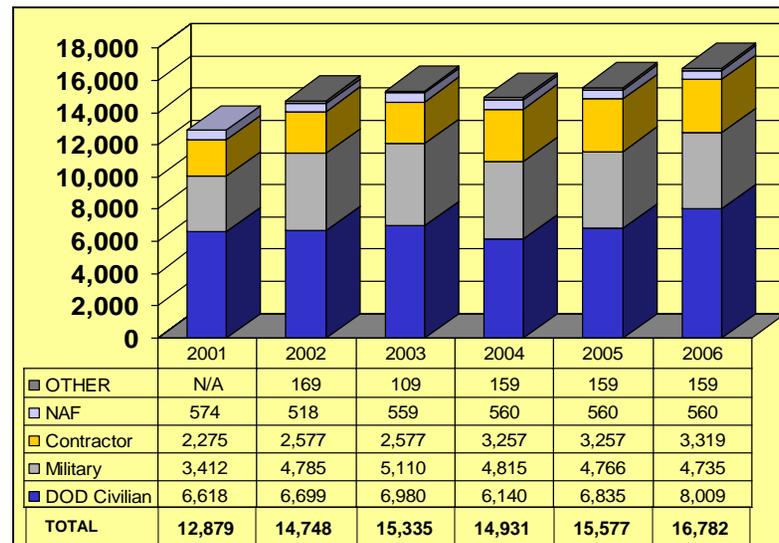
ATEC



IMA



FORSCOM



Actual As Of Dec 04	
Military	5,835
DoD Civilian	6,470
NAF	531
Contractors	3,865
Other	93
Dependents of Active Duty	5,824
Auth Dep of Reserve Compo	3,720
Retirees/Family Members	<u>21,471</u>
Total	47,809



Aberdeen Proving Ground Overview



WORKFORCE DEMOGRAPHICS

- Intellectual Capital Sustains Technological Superiority
- 47% Workforce Have Advanced Degrees
- Cooperative Programs Offer Complement Growth Opportunities Through Outreach

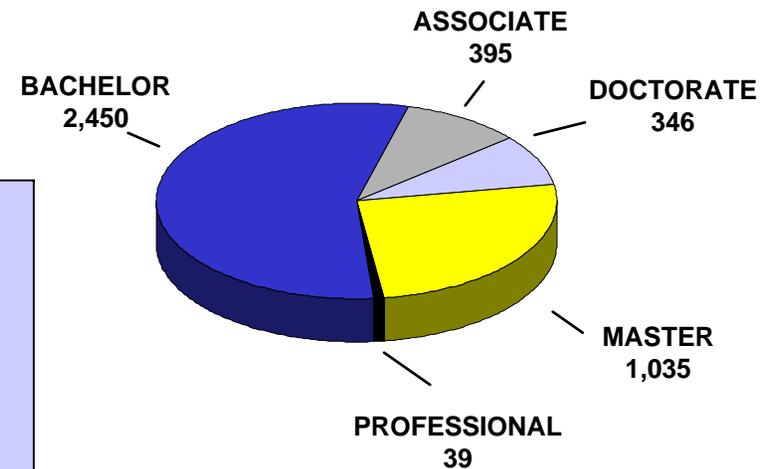
Science & Math
Academy
Sponsorship

HEAT
Center
Alignment

Fellows
Programs

Engineering
Universities

Research
Universities





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REAL ESTATE ATTRIBUTES



- NAV/AIR Patuxent River
- Fort AP Hill
- NAVSEA CDSA Dam Neck
- US Atlantic Fleet
- NASA / Wallops
- MD NG Chestertown, MD
- Aberdeen Test Center

Charter member to Chesapeake Regional Range Complex

- 90 miles to Nation's Capital
- MRTFB – DoD / OSD Premier Asset
- Power Support Platform
- 72K acres (35K acres of Land-Cantonment / Test Ranges, 37K acres of Water-Test Ranges / Buffer Zones)
- Immediate Buildable Acreage –
 - 4,700 Admin / Research / Tech
 - 400 Range
- Airspace – Restricted / Controlled/ Indefinite Area / Proprietary options
- Water – Restricted / Controlled – Depths from 2-18 feet

Centers of Excellence

- DoD – Direct Fire Weapons
- DoD – Land Combat
- DoD – High Performance Computing
- DoD – Chem-Bio Defense
- DoD – Institute for Collaborative Computing
- Johns Hopkins Center for Excellence in Biotechnology
- Army - Live Fire
- Army – Materials



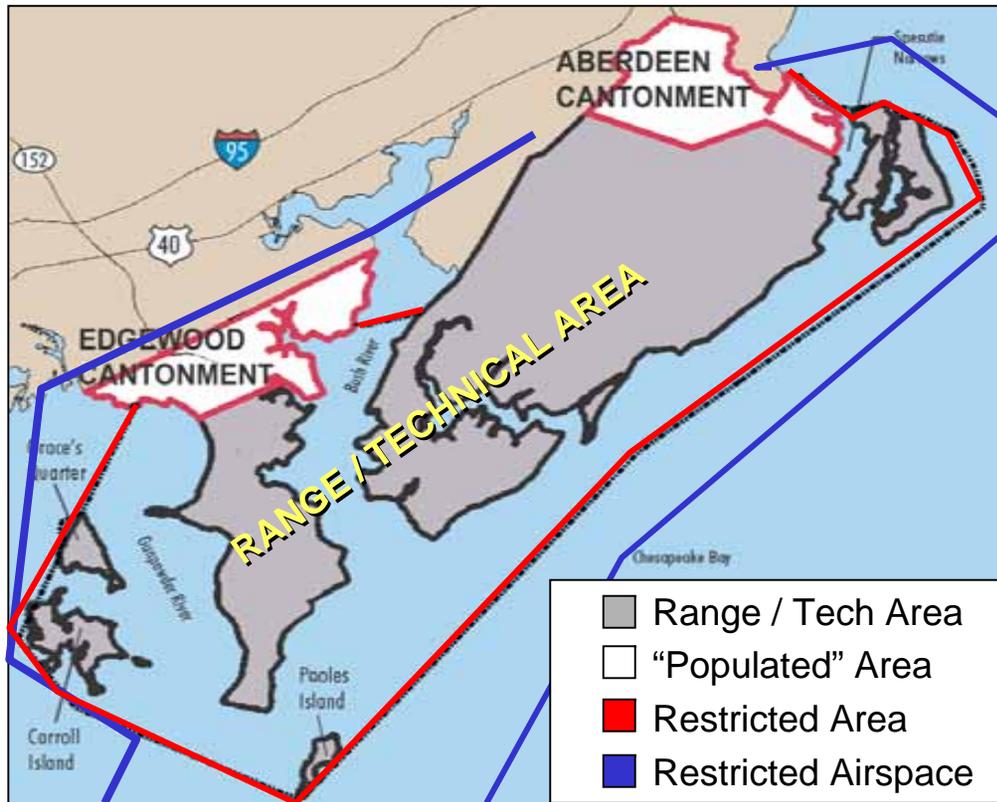
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INSTALLATION FORCE PROTECTION



“Defense in Depth”



- ✓ **Begins beyond installation boundaries**
 - All Federal Force – conversion of military to civilian law enforcement personnel
 - Law enforcement patrols of APG grounds, waters and airspace
 - Visible, proactive and productive RAMP program throughout the installation
 - Technology tools used to prevent unauthorized access
 - Security forces on site at critical facilities

24/7 Range Control Operations includes maritime fleet, airfield / range towers, and satellites



Aberdeen Proving Ground Overview



INFRASTRUCTURE *Buildings / Specialty Areas*

- **14.7 Million Square Feet Of Building Space**
 - Office/Administrative 2.5 Mil SF
 - Laboratories 1.6 Mil SF
 - Training Facilities 1.4 Mil SF
 - Warehouses 2.7 Mil SF
 - Community Centers 0.7 Mil SF
 - Barracks & Family Housing 3.1 Mil SF
 - Other Facilities 2.7 Mil SF
 - 1.3 Million Square Feet Of Demolition In FY 04-08

- **Experimental & Test Facilities**
 - 42 Miles of Automotive Test Track (MIL-STD / ITOP)
 - 196 Firing Positions
 - Roadway Simulator

- **Major Laboratory Buildings**
 - Supercomputing Center
 - 8 Medical Research
 - 10 Chemical & Biological
 - 2 Physics
 - 5 Human Engineering
 - 1 Materiel Research

- **Airfields**
 - Weide Army Aviation Support Activity (Rotary Wing)
 - Phillips Army Airfield (Fixed / Rotary Wing)



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INFRASTRUCTURE - *Facility Investments*

Recent Facility Construction

Rodman Building (*BRAC 95 - \$78M*)
Advanced Chemistry Laboratory (*MCA*)
McNamara Life Sciences Laboratory (*MCA*)
C-Field Range Area (*Navy MILCON*)
Climatic Firing Facility (*MCA*)
Roadway Simulator (*Congressional Plus-up*)
Aberdeen Chemical Agent Disposal Facility (*MCA*)

National Ground Intelligence Center
Ammunition Facility (*MCA*)

Soldier Systems Range Complex (*PM Soldier Systems - Increment 1*)
Soldier One Stop Support Center (*SRM*)
CHARA Complex (*SRM*)
Edgewood Area Troop Store (*AAFEES/SRM*)
Barracks Renovation (*MCA - \$7.5M*)
School Street Housing (*MCA - \$1.1M*)
UNDEX Pond (*MCA - Navy \$37M*)

Planned Facility Construction

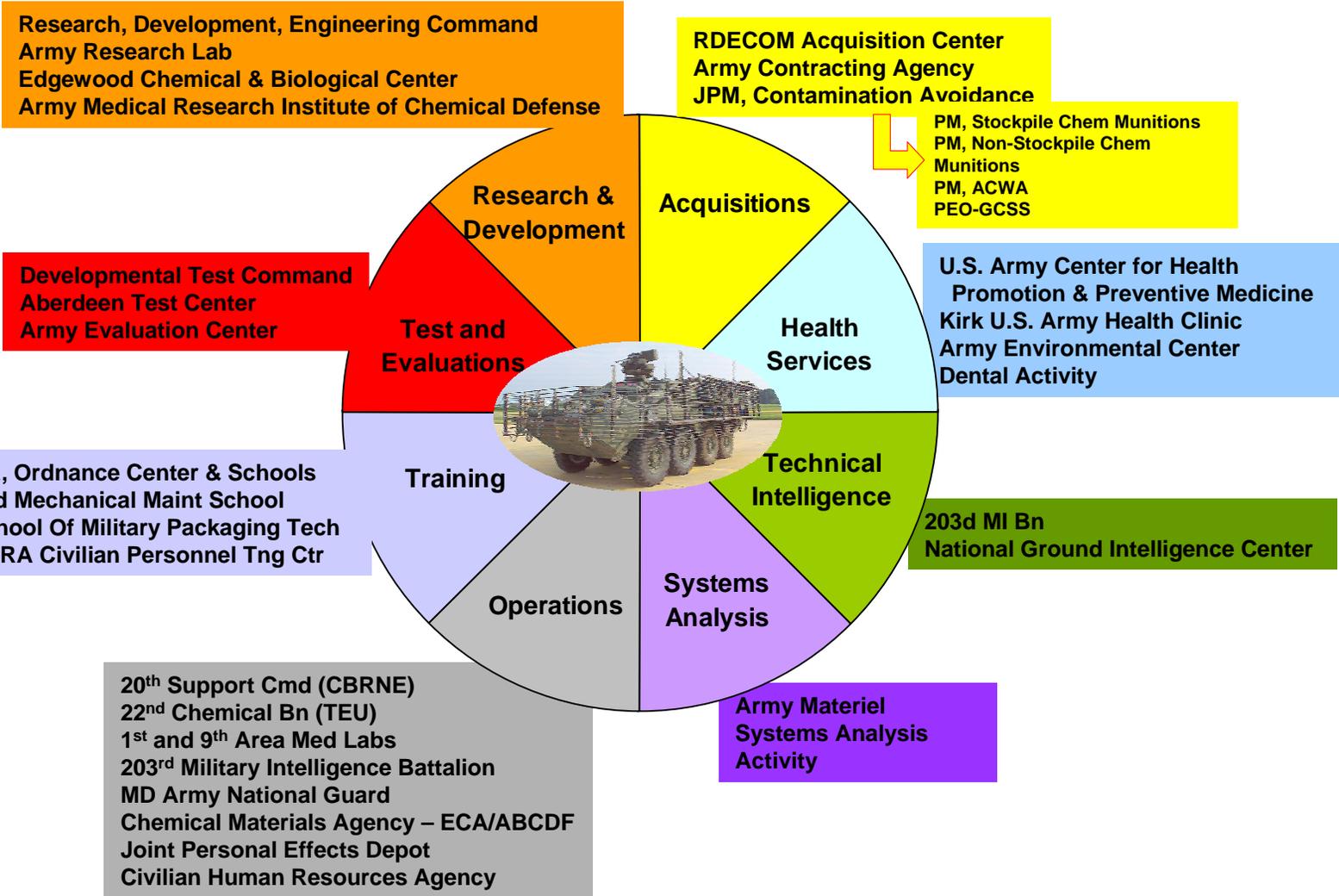
CBRSRF (ECBC) (FYDP 06)
Information Science & Supercomputing Facility (ARL) (FYDP 07)
Power Generation Equipment Training Facility (OMMS) (FYDP 08)
Ammunition Operations Facility (GAPG) (FYDP 09)
Automotive Technology Evaluation Facility (ATC) (FYDP 08)
AEC Headquarters (AEC) (FYDP 07)
New Campus Phase I (CHPPM) (MEDCOM FYDP 07)
Analytical Chemistry Wing (ECBC) (FYDP 07)
General Instruction Facility (GAPG) (FYDP 08)
Track Vehicle Training Facility (OMMS)
Future Force Range Operations Control Center (ATC)
USATA Secondary Reference Calibration Lab (TMDE)



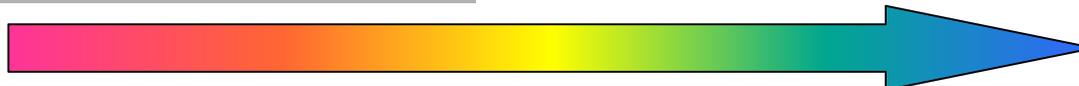
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INSTALLATION PROFILE - Synergy



RDT&E



FIELDING



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SYNERGY *Military Initiatives*

- Mobilization Efforts
 - GAPG, OMMS, KAHC, DENTAC
- Tactical Vehicle Up-Armor Programs
 - ATC, DTC, AEC, ARL, AMSAA
- Stryker Vehicle – Shakedown / Armor Development / SLAT Armor
 - ATC, DTC, AEC, ARL, AMSAA, GAPG
- Modular Integrated Communications Helmet (MICH)
 - ATC, ARL, DTC, AEC
- Foreign Exploitation Initiatives
 - ATC, NGIC, GAPG, ARL, 203rd MI Bn
- M900 Round
 - ATC, ARL, DTC, AEC, AMSAA, GAPG
- XM-8 Family of Weapons
 - ATC, ARL, DTC, AMSAA, AEC
- Small Arms Lubricant Initiative
 - ATC,, ARL, DTC, AMSAA, AEC
- Long-term / low-level exposure (Nerve / Mustard Agent)
 - ECBC, MRICD, CHPPM
- Joint Biological Agent Identification and Diagnostic System (JBAIDS)
 - ATC, ECBC, DTC
- Medical Oxygen Generator
 - ATC, DTC, ARL
- Battle Damage Assessment and Repair (BDAR) for Expeditionary Fighting Vehicle (EFV) Armor Characterization Testing
 - ATC, OMMSC, DTC
- FCS (System Integration Lab)
 - ATC, DTC, AEC, AMSAA



**To date
100%
effective!**



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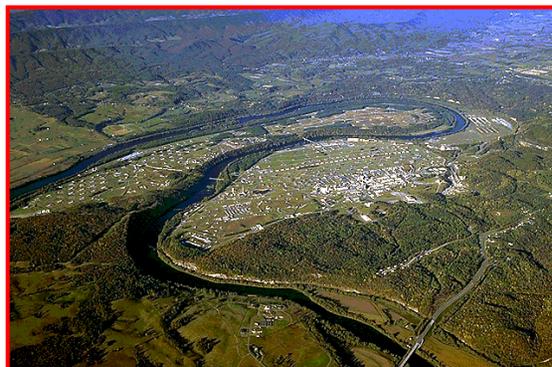


SYNERGY

Global War on Terrorism, Homeland Defense



- Threat Containment Units
 - ATC, ARL, DTC
- Commercial Aircraft Survivability
 - ATC, DTC, AEC, ARL
- Future Training Center
 - GAPG, ATC, ARL, ECBC
- NORTHCOM Joint Task Force Exercise for Consequence Management and Domestic Events
 - 20th Spt Cmd (CBRNE), RDECOM, ECBC
- Chem / Bio Test Bed at Radford
 - ATC, RDECOM, DTC





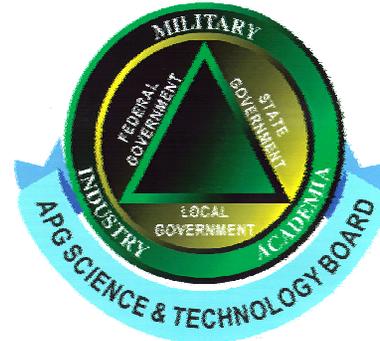
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SYNERGY - Community



Military
 Ft. Detrick
 Walter Reed
 Dept of the Navy
 PAX River
 Army SBIR/STTR



Provide strategic focus
 Promote high technology growth
 Create technical synergy

Industry
 DuPont
 Battelle Inc.
 Booz Allen Hamilton
 Northrop Grumman
 EAI
 SAIC
 DSI
 Service Engineering Inc.
 AAI
 LB & B
 MD Technology Corp.

Federal Gov't
 Smart States Program
 NSA

State Gov't
 MD Dept of Bus &
 Economic Development
 MD Env Tech Council
 MCART

Local Gov't
 Har Co Dept of Econ Dev
 City of Aberdeen
 City of Havre de Grace

Academia
 HEAT Center
 Johns Hopkins Univ.
 University of Penna.
 University of Maryland
 Towson State Univ.
 Howard University
 University of Delaware
 Harford Comm. College
 Drexel University
 Cecil Comm. College
 U.S. Military Academy
 U.S. Naval Academy

Sponsored Programs
 Aberdeen High School
 Math and Science Academy
 Summer Student Programs
 Harford Community College
 Student Contractors
 Morgan State Summer Faculty
 Program
 University of Maryland
 Biotechnology Institute
 George Washington University
 S&T Apprentice Program

Helping to foster and
 develop APG and the
 surrounding region into a
 military, academic, and
 industrial technology
 complex

Other Organizations
 Northeast Maryland Tech Council
 Greater Baltimore Tech Council
 MdBio
 Pax River Tech Transfer Program
 Tech Council of MD
 Federal Laboratory Consortium



Aberdeen Proving Ground Overview



ENVIRONMENTAL IMPACT *Pertinent Topics*

MEDIA	CONCERN	ACTIONS TAKEN	MISSION IMPACT
EAGLES	<ul style="list-style-type: none"> Steady increase in population and nests Increased mortality-Interaction with electrical infrastructure Some mission impacts due to growing population. 	<ul style="list-style-type: none"> Previous studies confirm no mission / noise impact on eagles. Ongoing studies into fatalities, management recommendations. Measures enacted to prevent electrocutions & monitor eagles. Biological Assessment submitted to USF&WS. 	<ul style="list-style-type: none"> Some minor delays and location changes. No recent project / training cancellations.
NOISE	<ul style="list-style-type: none"> Blast and shock from testing disturb neighbors' peace and can damage property. 	<ul style="list-style-type: none"> Noise monitoring and management plan in place. Public notification as appropriate. 	<ul style="list-style-type: none"> Some minor delays IAW noise prediction model, but tests generally proceed.
WETLANDS	<ul style="list-style-type: none"> APG has had significant wetlands growth which could limit scope of activity. 	<ul style="list-style-type: none"> Obtain permits as necessary. Mitigate impacts. 	<ul style="list-style-type: none"> No negative impact. Training enhancement.
DRINKING WATER	<ul style="list-style-type: none"> Some range / FTX areas in local drinking water recharge areas. APG activities have likely contaminated these supplies. 	<ul style="list-style-type: none"> Treatment provided at one site. Training adjusted / being moved to prevent contamination at other site. 	<ul style="list-style-type: none"> Minor.
RANGE FIRES	<ul style="list-style-type: none"> Mission activities can result in range fires. 	<ul style="list-style-type: none"> Developing range management plan utilizing prescribed burns. Awaiting EIS completion. 	<ul style="list-style-type: none"> None to date.
CLEANUP OPERATIONS	<ul style="list-style-type: none"> Large cleanup program. Co-existing w/ ongoing mission. 	<ul style="list-style-type: none"> Closely coordinate both ongoing actions. 	<ul style="list-style-type: none"> None Mission proceeds with public acceptance.



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ENVIRONMENTAL IMPACT *Engineered Success*

- **Facilities**

- UNDEX Pond – Navy Testing
- DU Containment Facility (SUPERBOX)
- Fire Safety Test Enclosure (FIREBOX)
- Firing Impulse Simulator
- Munitions Assessment & Processing System (MAPS)



- **Natural Resources**

- Wildlife Population Growth (eagles, turkey, water fowl)
- Net Wetland and Forest Growth
- County Drinking Water Protected



- **Pollution Prevention (P2)**

- Hazardous Material Usage Reduced
- Micro-Chemistry
- Natural Gas Conversion
- Geothermal Heat Pumps
- Resource Recovery



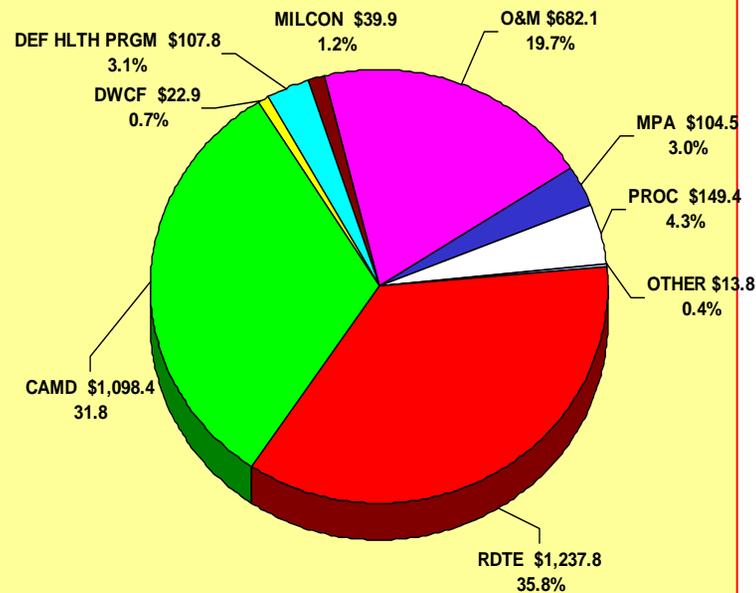


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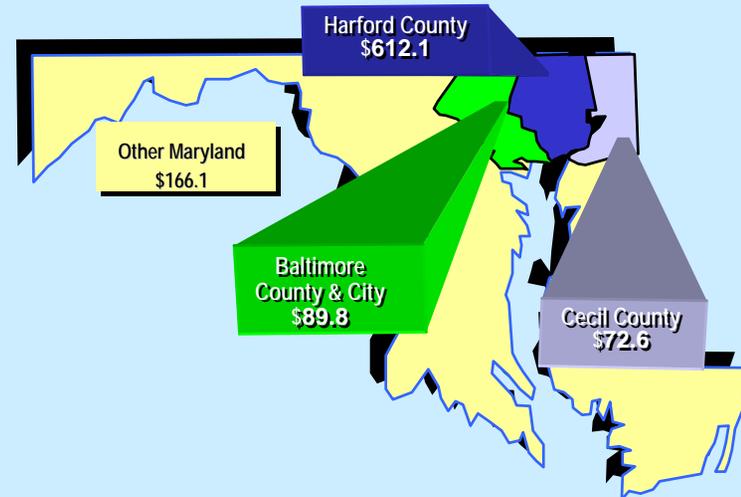


ECONOMIC IMPACT

- Expenditures by Appropriations
TOTAL: \$3,456.6



- On Maryland County Districts



Maryland Civilian Payroll - \$549.2M
Contract Dollars Awarded - \$287.3M
Maryland Military Payroll - \$104.1M
Total Impact On Maryland - \$940.6M

FY03 Data

**\$3.5 Billion
Expended By The
Installation**



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ECONOMIC IMPACT Contracts



- Sverdrup Technology, Inc.
- COBRO Corporation
- Tero Tek International
- Battelle
- EAI
- GEO – Centers
- Precis
- Booz Allen Hamilton
- Northrop Grumman
- Business Plus
- ITT Industries
- Midwest Research Institute
- Science & Technology
- SciTech Corp
- SAIC
- Quicksilver
- Guild
- TRI-S
- BAE Systems
- Bregman & Co.
- Calibre Services
- CH2M Hill
- Decision Systems Tech., Inc.
- Engineering & Environ., Inc.
- Gamma Engineering Co.
- Horne Engineering
- J.M. Waller Associates, Inc.
- Jones Technologies
- RAI
- Research Management Consultant, Inc
- Stem International, Inc.
- URS
- VERSAR

List too extensive to depict here

Local Directorate of Contracting = \$366M
Robert Morris Acquisition Center = \$785M

FY03 Data

...Many tenant activities use non-local procurement organizations – estimated value: \$1 Billion annually



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QUALITY OF LIFE *Community Involvement*

Armed Forces Day



Volunteers for Medical Engineering (USAEC)



9/11
Remembrance



Harford County Schools
Partnerships



Aberdeen Proving Ground Overview



**Best Small Post by Army Times
"as voted by the soldiers for the
soldiers" 2002 & 2003**

QUALITY OF LIFE *Resident*

- 1,064 Housing units
- Barracks capacity 3,272
- Soldiers Permanent Party 265 quarters
- 296 unit Army Lodging operation

Best fully accredited Child and Youth Services programs in NE Region
Fully Accredited ACS
Recipient of private industry awards and recognized as Army model for implementation of Recreation Delivery System
Model site for Army MWR management information systems
One of 5 Army Well-Being Laboratory Sites
Army Lodging of the Year Award Winner (Large Category) 2000 & 2001
Active partnership w/Harford County Public Schools based on Military Child Education Coalition Model
Best World Wide Commissary - Eastern Region Winner - 2003
Best Dining Facility – Northeast Region IMA – 2003, Runner Up 2004



- Commissary
- Post Exchange
- 2 youth centers
- 2 child development centers
- 2 golf courses
- 20-lane bowling center
- 2 recreation centers
- 4 physical fitness centers
- Outdoor recreation center
- Family entertainment center
- Leisure travel center
- 2 arts & crafts centers
- 3 swimming pools
- 2 marinas
- Riding activity
- 20-bay auto craft facility
- Travel camp
- Skeet & trap facility





Aberdeen Proving Ground Overview



SUMMARY



DoD's Center of Excellence for Land Combat Systems- Vehicles, Soldier Systems, Chem Bio

- **APG: Relevant and Ready**
 - Synergy of Tenants – Force Multiplier
 - Home of Ordnance – Mechanical Maintenance Training
 - Magnet for RDTE and Support Organizations
 - Extensive Specialized Training and Test Areas
 - Restricted Land, Water and Airspace
 - Growing Recognition of Joint Training Opportunities
 - Utility Infrastructure Sized to Support Major Growth
 - 5000+ acres Suitable for Development
 - Strong State and Community Support for Growth
 - Large, Highly Educated Labor Pool Available
- **MRTFB Designation provides DoD / OSD funds for Advanced Technologies Development**



“Finally, our installations must be resourced to serve as our Flagships: able to project power, support tough realistic training and provide for soldiers, families and civilians”

CSA, General Schoomaker

AUSA Eisenhower Luncheon Speech 10/7/03



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NEXT STEPS

Future Development Focus Areas

- Chem / Bio Research and Development Laboratories
- Materiels Laboratories
- Test & Evaluation – weapons, munitions, land systems, soldier systems
- Technical Training
- Joint Training
- Mobilization

- Enhanced Use Leasing (EUL)
 - The G.A.T.E. at Maryland Blvd
 - Training Center at Lauderick Creek

**DoD's Center of Excellence
for Land Combat Systems-
Vehicles, Soldier Systems,
Chem Bio**

**Available Land,
Utilities,
Computing Power**



Aberdeen Proving Ground Overview



END OF BRIEF

INSTALLATION MANAGEMENT AGENCY



“Sustain, Support and Defend”