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AFRL Sensors Directorate

At

Rome Research Site, Rome, NY

Briefing to BRAC Commissioner Lloyd W. Newton

22 June 2005

**Note: Includes additional information in
response to a few of
Commissioner Newton's key questions.**



Mr. Joe Sciabica

Mr. Bill Baldygo

Mr. Rick Shaughnessy

Mr. Mike Sheehan

Mr. Ed Jones

Sensors Directorate

Air Force Research Laboratory



Outline



-
- ➔ • AFRL Sensors Directorate Overview
 - Mr. Joe Sciabica
 - AFRL/SN Rome Research Site
 - Mission
 - People
 - Accomplishments
 - Requirements/Considerations for SN RRS Relocation
 - BRAC Recommendations for SN RRS
 - Facilities
 - Sites
 - Classified Infrastructure
 - Discussion and Q&A



DoD BRAC Recommendations



- **Realign Rome Laboratory, NY, by relocating the Sensor Directorate to Wright Patterson Air Force Base, OH, and consolidating it with the Air Force Research Laboratory, Sensor Directorate at Wright Patterson Air Force Base, OH.**
- **Justification: This recommendation realigns and consolidates portions of the Air Force and Army Research Laboratories to provide greater synergy across technical disciplines and functions. It does this by consolidating geographically separate units of the Air Force and Army Research Laboratories.**

Source: Department of Defense Base Closure and Realignment Report, Volume I, Part 2 of 2; Detailed Recommendations, Section 10 Recommendations-Technical Joint Cross-Service Group; May 2005, p. Tech-22.



“What did the DoD recommend and what are the implications?” Commissioner Newton

(This slide was added to address Commissioner Newton’s Question)



“Justification: This recommendation realigns and consolidates portions of the Air Force and Army Research Laboratories to provide greater synergy across Technical disciplines and functions. It does this by consolidating geographically separate units of the Air Force and Army Research Laboratories.”¹

Implications:

- DoD’s “Justification” **ignores their own Evaluation Criteria** and their own definition of *Synergy*¹
- DoD’s “Justification” fails to consider mission degradation as a result of the loss of *People* (only about 9 out of 59 Engineers plan on moving to Dayton)
- DoD’s “Justification” fails to include the *Synergy* successes of the past few years including the recent reorganization of AFRL
- Based upon the given DoD Evaluation Criteria, since *People (30%)* and *Synergy (20%)* together account for 50% of Military Value and the DoD “Justification” fails to include *People and Synergy* appropriately, the result is:
 - ***50% Military Value of AFRL Sensors-Rome adversely affected over the next 5-10 years of operation if moved to Dayton due to loss of People and Synergy***

¹From “Technical Joint Cross Service Group Analyses and Recommendations,” Volume XII, 19 May 2005



TJCSG Defined the Following Five *Attributes* to Evaluate Military Value¹



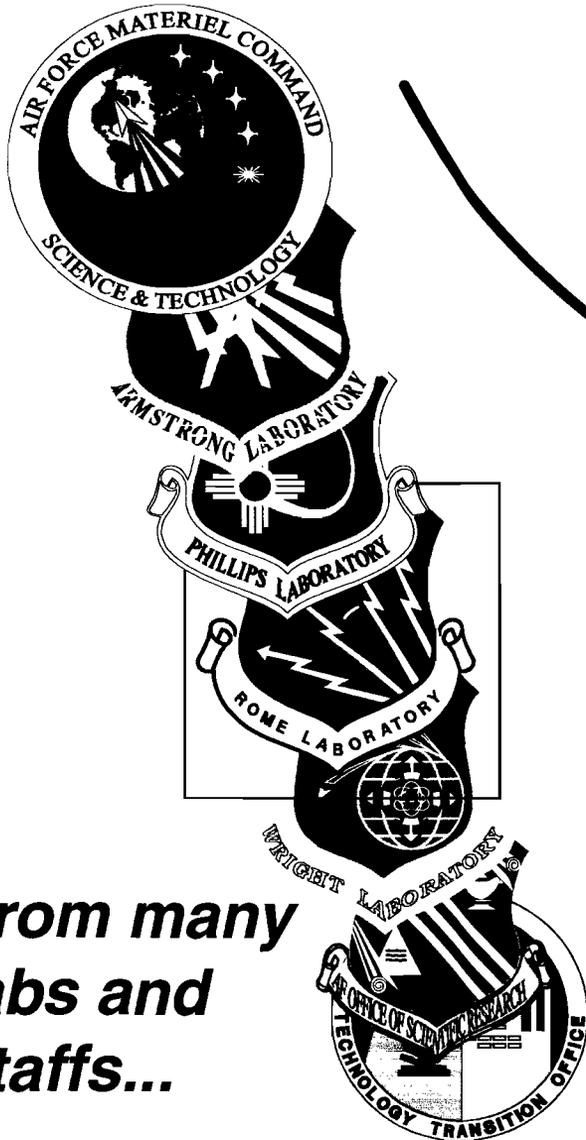
(This slide was added to address Commissioner Newton's Question)

- **“People (30%)** – measures intellectual capital through education, experience, certifications, patents, publications and awards;
- **Physical environment (7%)** – measures special features of DoD technical facilities and encroachment;
- **Physical structures and equipment (23%)** – measures the presence of physical structures unique within DoD; and the value, condition, and use of physical structures;
- **Operational impact (20%)** – measures output of the RDAT&E functions through the number and funding of their projects; and size of their staff;
- **Synergy (20%)** – measures factors like working on multiple functions and multiple technical capability areas, proximity to customer, jointness, and dual-use.”
 - Note: There is nothing in TJCSG's definition of *Synergy* that supports the statement in their Justification that, “...consolidating geographically separate units,” increases Military Value!

¹From “Technical Joint Cross Service Group Analyses and Recommendations,” Volume XII, 19 May 2005, Appendix B.



Air Force Research Laboratory



***From many
labs and
staffs...***



***...To the Air Force's
Single Laboratory***



AFRL Stand-Up 1997



- **Consolidated All Sensors Work Performed at the Former Wright Laboratory and Rome Laboratory into the New Air Force Research Laboratory (AFRL) Sensors Directorate (SN) Headquartered at WPAFB**
- **Diverse Sensor Research Facilities, Capabilities, and Technical Disciplines at WPAFB, Hanscom AFB and Rome Site Were Combined to Provide a Completely Synergistic Sensor Research Capability**



AFRL Stand-Up

Sensor Strategic Technical Differentiation



Wright Research Site – WPAFB, OH

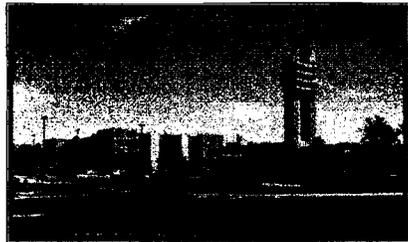
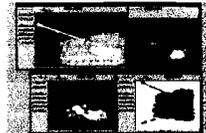
Electronic Warfare

Electro-Optical Sensors

Automatic Target Recognition

RF and EO Components

Sensor Fusion

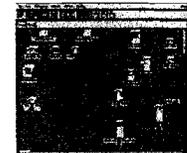
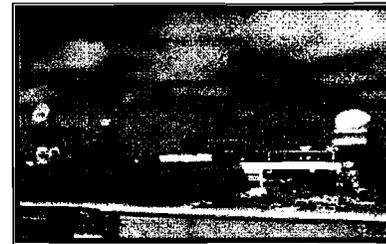


Rome Research Site – Rome, NY

Covert Radar Surveillance & Recon

Adaptive Radar Signal Processing

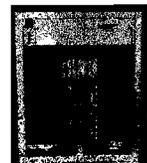
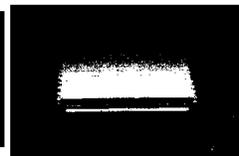
Photonic Components



Hanscom Research Site – Hanscom AFB, MA

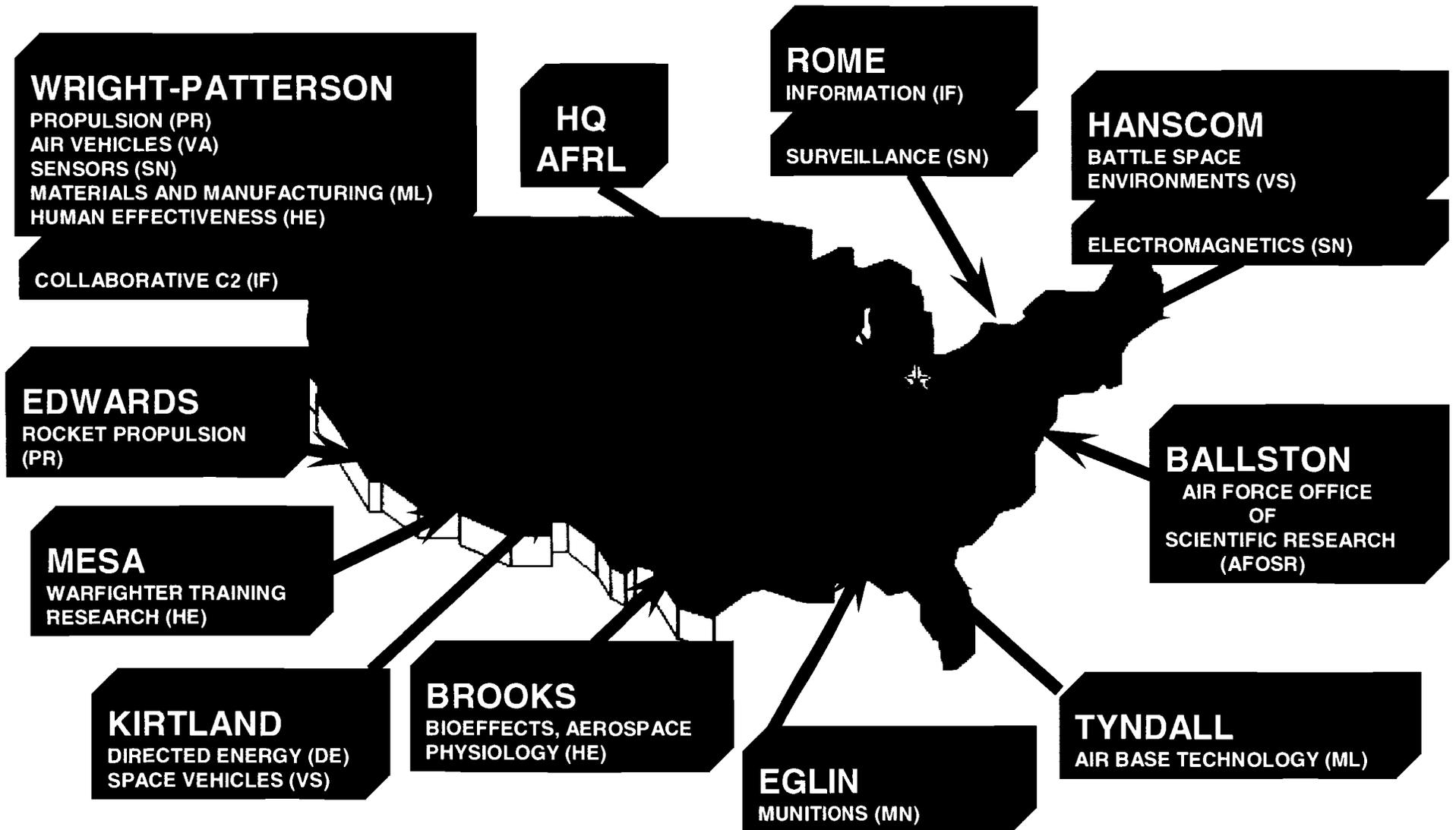
Antennas

Phenomenology



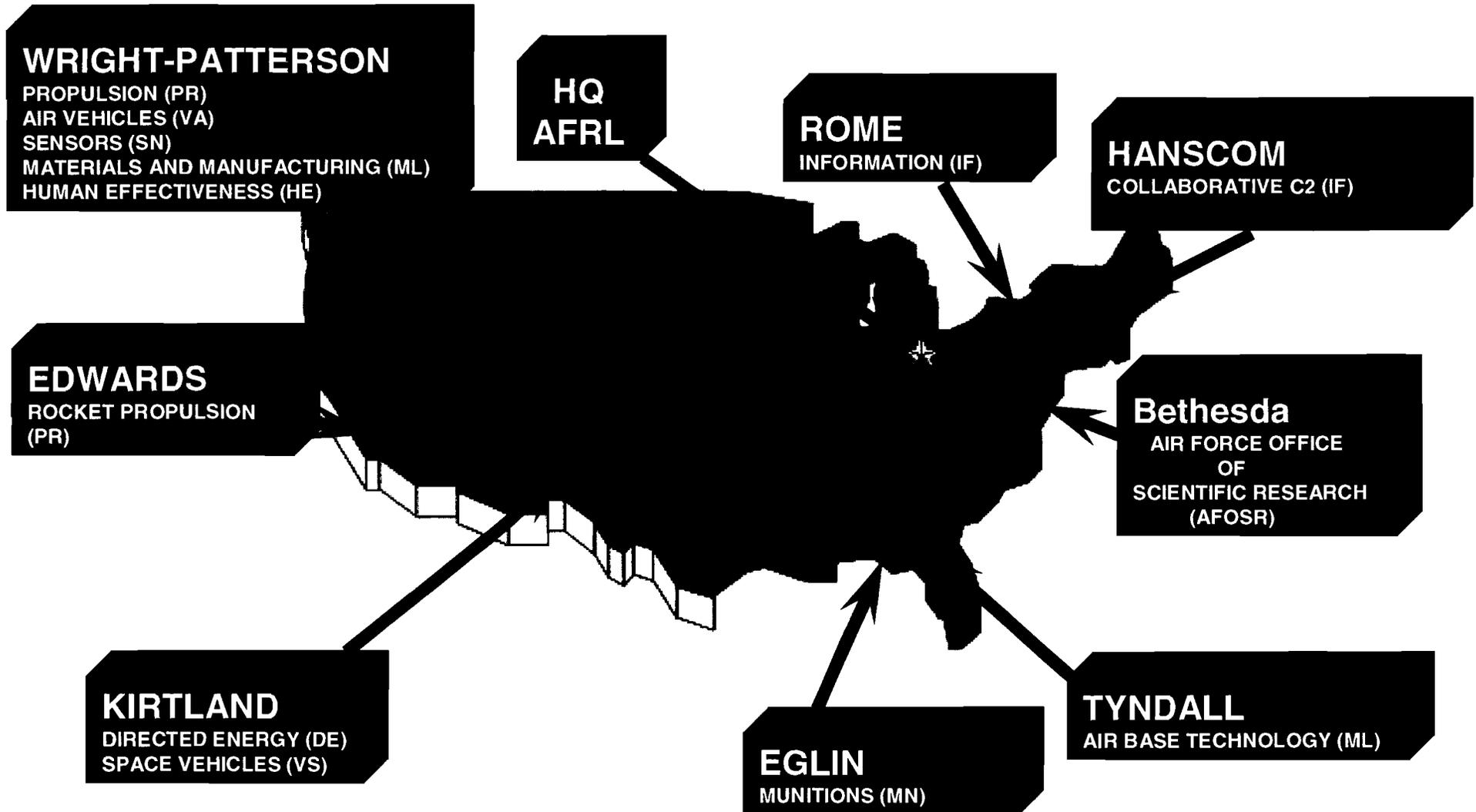


AFRL Major Sites

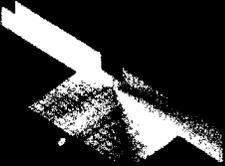




BRAC IMPACT



Sensors Directorate



Our Mission



To lead the discovery, development, and integration of affordable sensor and countermeasure technologies for our warfighters.



Our Vision

Sensor and countermeasure technology enabling complete freedom of air and space operations for our warfighters, no sanctuary for our adversaries, and homeland security.

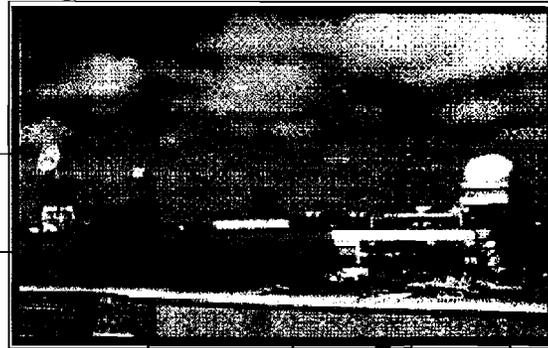




Sensors Directorate Locations



Rome Research Site (RRS) Rome, NY



Government	82
IPAs	3
<u>On-Site Contractors</u>	<u>25</u>
Total	110

Government	537
IPAs	7
<u>On-Site Contractors</u>	<u>393</u>
Total	937

Government	110
IPAs	2
<u>On-Site Contractors</u>	<u>73</u>
Total	185



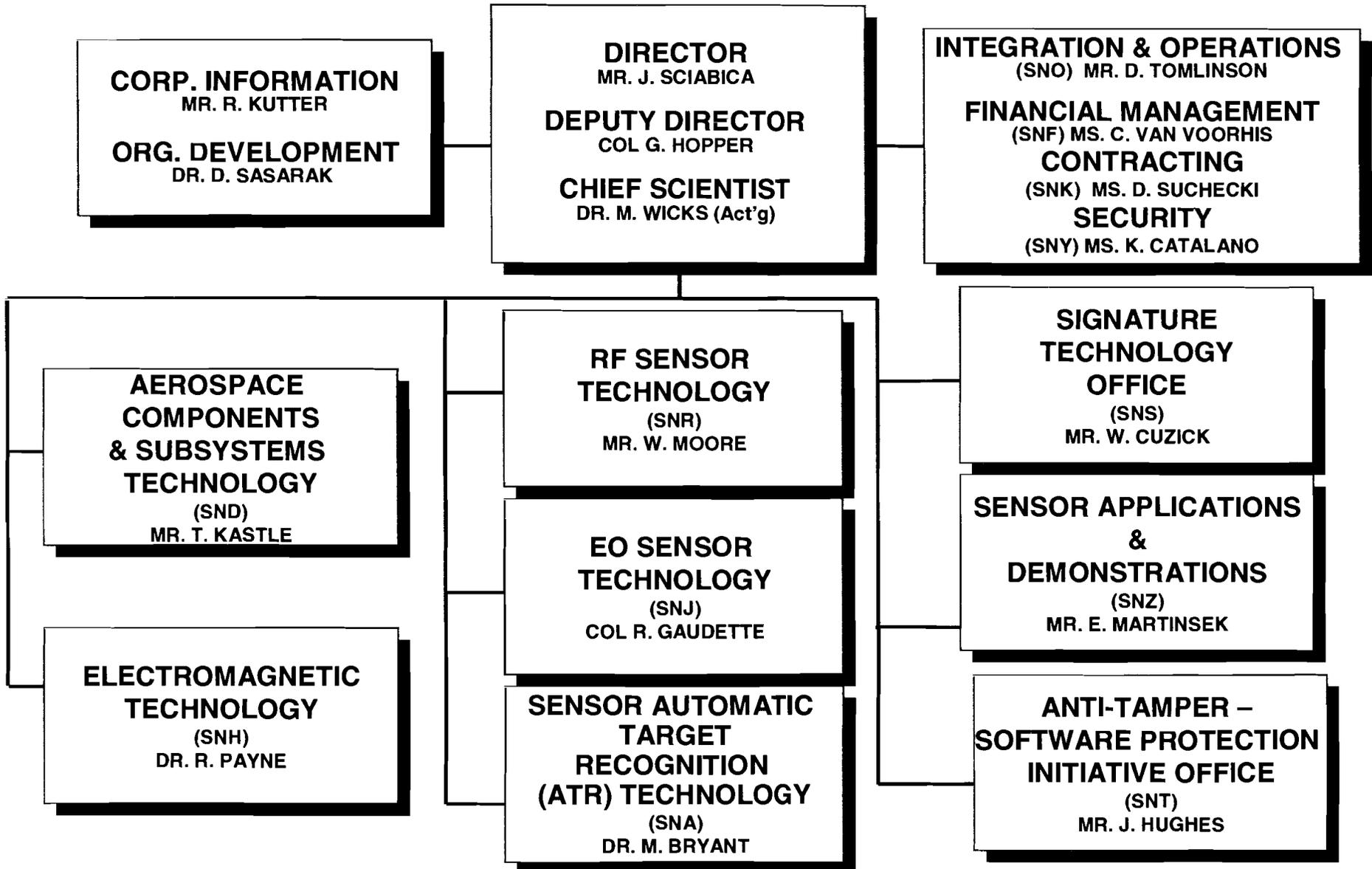
Wright Research Site (WRS) Wright-Patterson AFB, OH



Hanscom Research Site (HRS) Hanscom AFB, MA



Sensors Directorate





Sensors Collaboration with Other AFRL Directorates



INFORMATION

- Communications, Apertures & Components
- Spaced Based Radar
- ATR/Combat ID/Info Fusion/Exploitation
- Targets Under Trees
- Time Critical Targeting
- Collaborative Engineering Environment
- Laser Communication

SPACE VEHICLES

- Anti-Jam GPS
- Space Based Radar
- Rad Hard Electronics
- Hyperspectral Imaging
- Satellite Survivability
- Auto Target Recognition

AIR VEHICLES

- SensorCraft UAV
- Conformal Apertures
- Computational Electromagnetics
- Small / Micro UAVs
- UCAV

PROPULSION

- SensorCraft UAV

HUMAN EFFECTIVENESS

- SensorCraft UAV
- Time Critical Targeting
- Laser Warning & Protection
- Targets Under Trees

MUNITIONS

- Anti-Jam GPS
- Small / Micro UAVs
- RF Components
- Focal Plane Arrays
- Auto Target Recognition
- Laser Radar
- Targets Under Trees

MATERIALS

- III-V Components
- RF Polymers
- SensorCraft UAV
- Laser Warning & Protection

AFOSR

- Waveform Diversity
- Electromagnetics
- Electronic Materials & Devices
- Auto Target Recognition

DIRECTED ENERGY

- Infrared Countermeasures
- PING
- MEDUSA
- Horizon-Limited Laser Radar
- RV Discrimination
- See Through Clouds
- Acquisition, Tracking & Pointing for Laser Weapons

**Sensors Directorate
(Dayton, Rome & Hanscom)**



“Why move to Dayton?”

Commissioner Newton

(This slide was added to address Commissioner Newton’s Question)



There is a great deal of Synergy between Sensors-Rome and Information-Rome, but minimal with Dayton!

“...argues for status quo – don’t move.” Newton

INFORMATION-Rome

- Communications, Apertures & Components
- Spaced Based Radar
- Combat ID/Info Fusion/Exploitation
- Targets Under Trees
- Time Critical Targeting
- Collaborative Engineering Enviro
- Sensor Fusion
- Intelligence Community Efforts

SPACE VEHICLES-Kirtland

- Space Based Radar

AIR VEHICLES-Dayton

- N/A*

Sensors Directorate (Rome Only)

PROPULSION-Dayton

- N/A*

HUMAN EFFECTIVENESS-Dayton

- N/A*

MUNITIONS-Eglin

- N/A*

MATERIALS-Dayton

- N/A*

DIRECTED ENERGY-Kirtland

- N/A*

AFOSR-Bethesda

- Waveform Diversity
- Electromagnetics

*Not Applicable – DoD’s intent was to encourage more synergy between AFRL Directorates, but Sensors-Rome’s technology does not directly lend itself to synergy in these Directorates



Collaborations



**Sensors Directorate
has >100
collaborations
with external
organizations**

“Collaborators” provide:

- **Technical skills**
- **Resources**
- **Warfighter needs**



- **AFRL (Other Directorates)**
- **Battle Labs**
- **DARPA**
- **DIA**
- **DOE Labs**
- **DTRA**
- **FFRDCs**
- **Foreign Countries**
- **Industry**
- **JPL**
- **MAJCOMs**
- **MDA**
- **NASIC**
- **NASA**
- **NGA**
- **NIST**
- **NRO**
- **NSA**
- **Other Services**
- **SPOs**
- **Universities**



Local Collaborations



Academics

Binghamton Univ.
Univ. of Buffalo
Clarkson Univ.
Colgate Univ.
Cornell Univ.
Rensselaer Polytechnic Institute
Rochester Institute of Technology
SUNY Institute of Technology
Syracuse Univ.
Utica College

Local Contractors

Automated Resource
Management Associates
Black River Systems Company
Computer Sciences Corp.
ITT Industries
L-3 Communications
Capraro Technologies, Inc.
PAR Technology (Gov. Systems)
Research Associates for Defense
Conversion
Syracuse Research Corporation
Northrop Grumman IT



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 - BRAC Recommendations for SN RRS
 - Facilities
 - Sites
 - Classified Infrastructure
- Discussion and Q&A
 - All

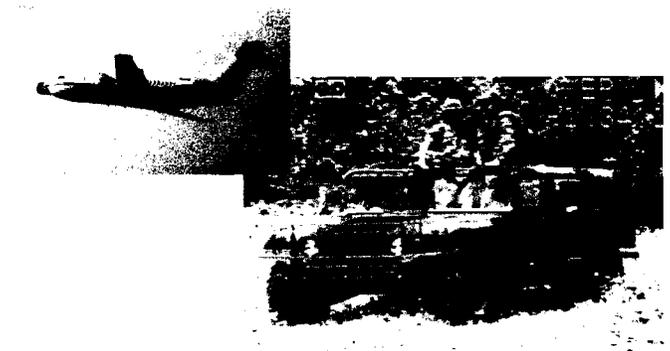
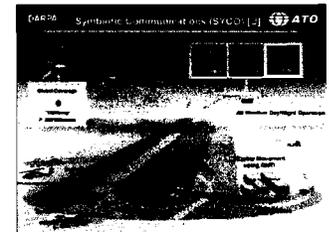
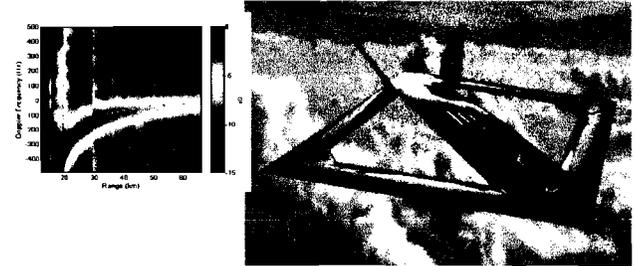


Sensors Directorate at RRS

Who We Are – What We Contribute



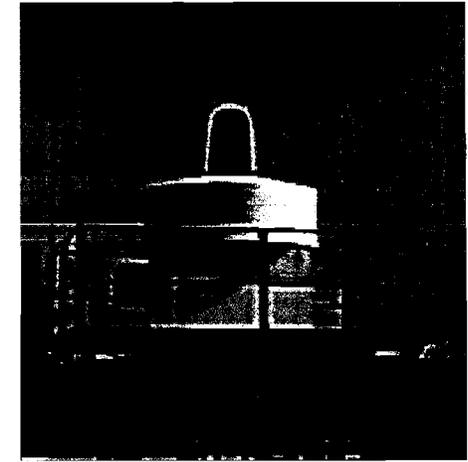
- Nationally Recognized Experts in:
 - Radar Technology and Applications
 - Advanced Waveforms and Signal Processing
 - Photonics Subsystems & Components
- Provide Key Sensors Technologies and Applications Enabling Superior Warfighting Capability:
 - Detecting & Tracking Difficult Threats in Difficult Environments
 - FOPEN, GPEN, BPEN
 - LO Targets, Dismounts, Slow Movers
 - Severe Clutter, Jamming & Interference
- Protect National Security by Ensuring U.S. Lead in Military Critical Technologies:
 - Bistatics/Multistatic Radar
 - Space-Based Radar
 - Multi-Dimensional Adaptive Processing
- Key Users Come to Us!
 - AF SPOs, NSA, NRO, DHS, DARPA





AFRL Surveillance Facility

Rome Research Site





“What is unique about Rome’s Facilities?”

Commissioner Newton



(This slide was added to address Commissioner Newton’s Questions)

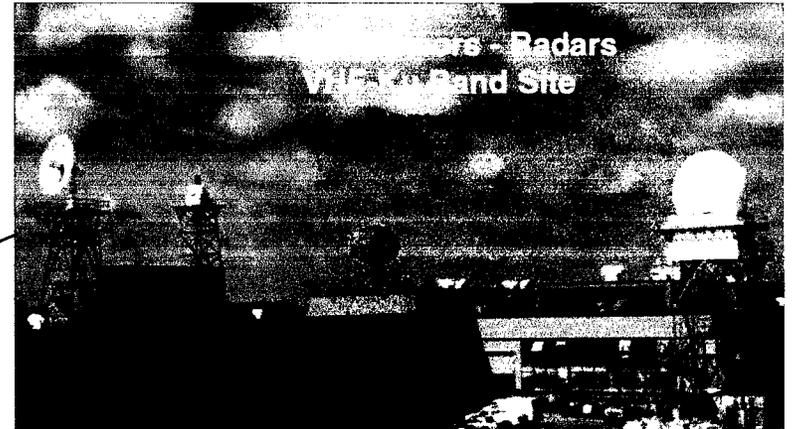
A Unique One of a Kind Joint AF-Army and Intelligence

“Wide Band Radar National Asset”

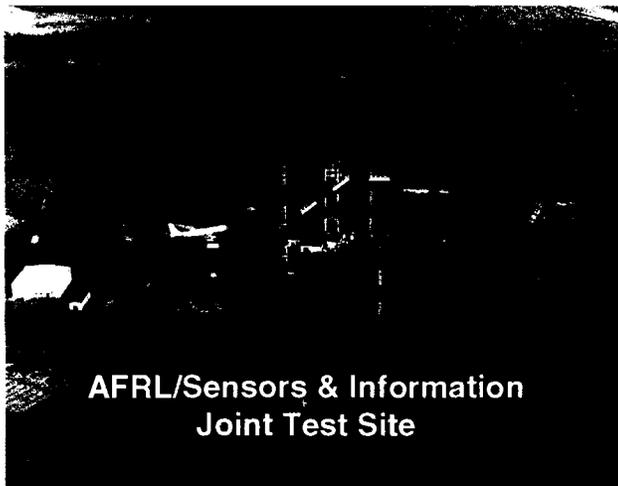
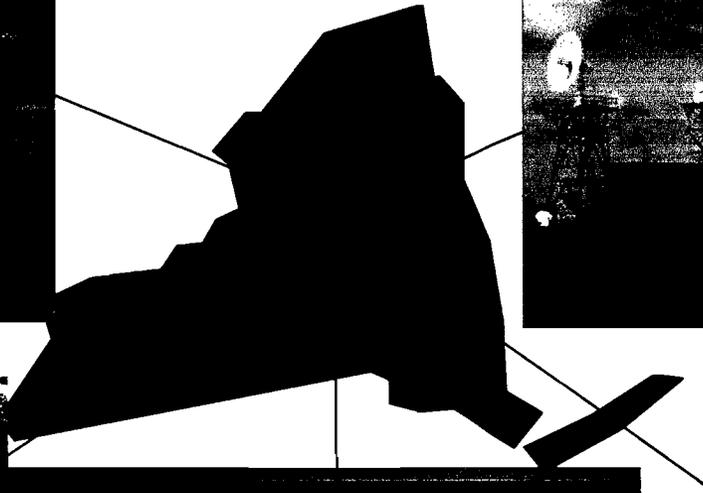
(Due to In-place Agreements and Proximity to each other.)



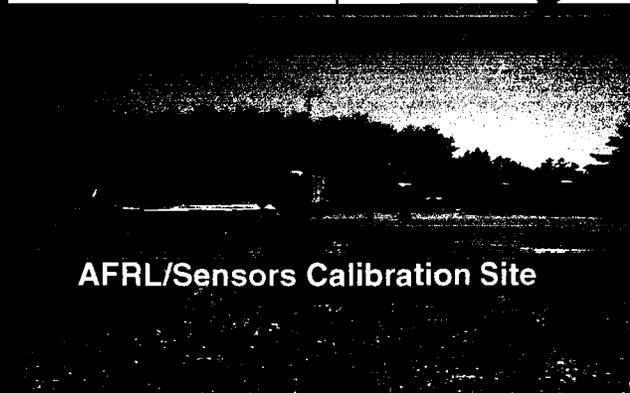
**AFRL/Sensors Joint Test Site
Army & Air Force**



**Sensors - Radars
Wide Band Site**



**AFRL/Sensors & Information
Joint Test Site**



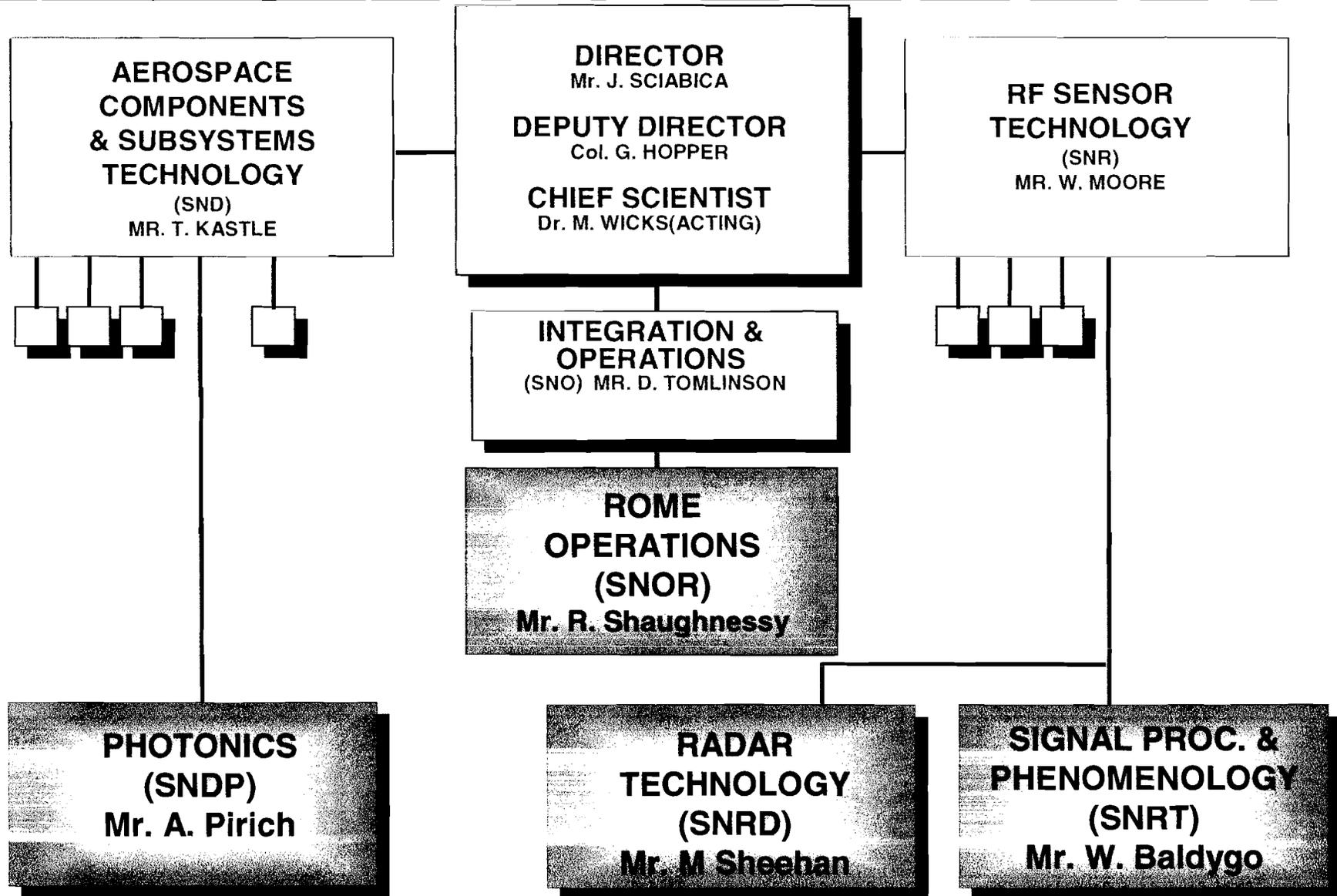
AFRL/Sensors Calibration Site



**AFRL/Sensors & Information
Joint Test Site
New York, NY**



Sensors Directorate @ Rome





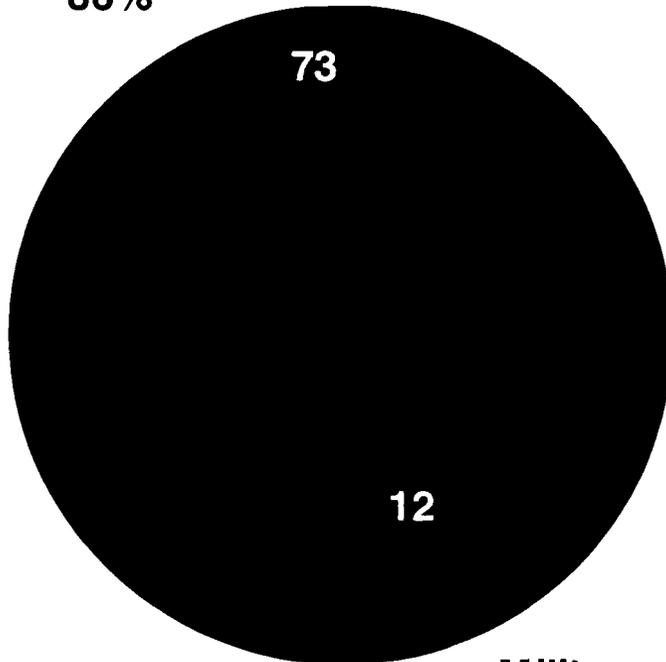
Personnel - Rome Site



GOVERNMENT	85
<u>ONSITE CONTRACTORS</u>	<u>25</u>
Total	110

SN/RRS (85)

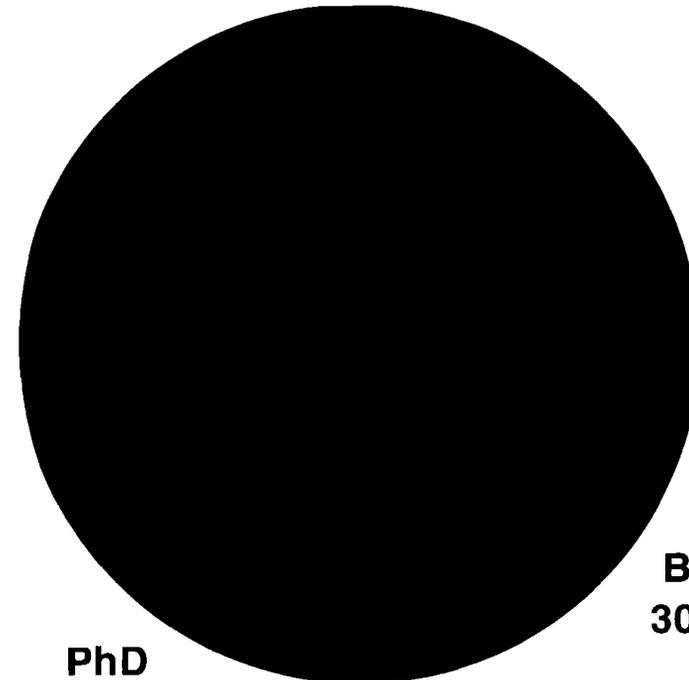
Civilian
86%



Military
14%

Academic Degree(S&E Only)

MS
50%



PhD
20%

BS
30%



People - Our Most Valuable Resource



- Acting Chief Scientist, AFRL/SN
- Three AFRL Fellows
- Five IEEE Fellows; Three Section Chairs Including Current Chair
- One SPIE Fellow
- Three Sensor Directorate Level Award Winners Including Last Two "Veiled Award" Winners
- IEEE National Radar Conference Host 1997 & 2006
- Annual Tri-Service Radar Symposium Air Force Co-chair
- Association Of Old Crows Section Conference Chair
- TTRDP Experiments Chair
- TTCP SEN-TP-3 Lead
- AFRL/DARPA KASSPER Workshop Chair
- NATO SET-071 Panel Member
- Annual Tri-Service Waveform Diversity Workshop
- Annual AFRL STAR Workshop

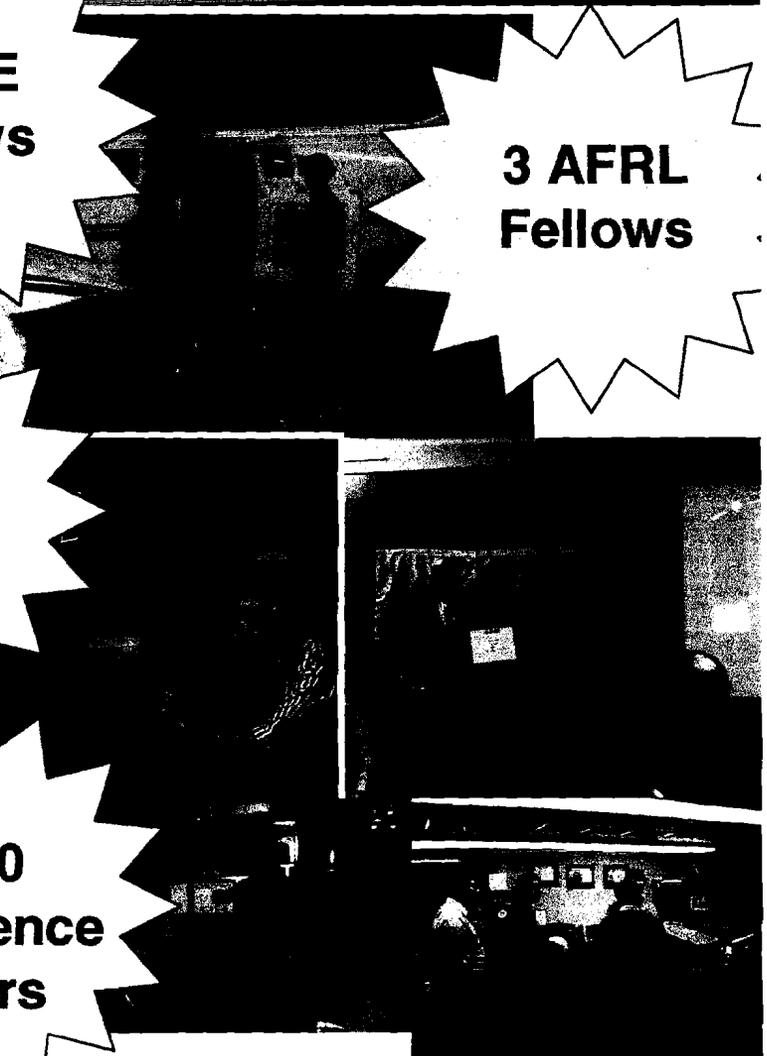
**5 IEEE
Fellows**

**3 AFRL
Fellows**

**1 SPIE
Fellow**

**> 200
Conference
Papers**

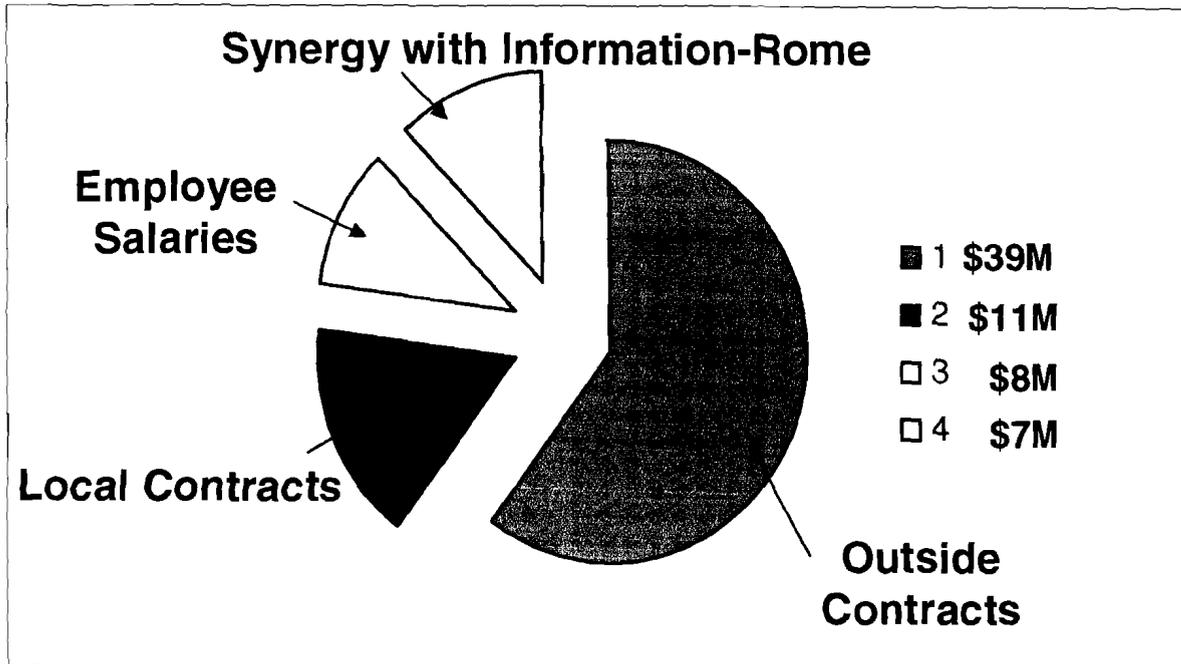
NATIONAL TECHNICAL RECOGNITION





Sensors-Rome

Local Area Synergy & Financial Impact



Sensors-Rome Income

AF	\$ 30.5 M
<u>Customer</u>	<u>\$ 34.5 M</u>
Sensors Total	\$ 65.0 M

Sensors-Rome OUTGO

Sensors-Rome Contracts Outside Local Area	\$ 39M
Sensors-Rome Contracts Inside Local Area	\$ 11M
Sensors-Rome SENT To Information-Rome (Synergy)	\$ 7M
Employee Salaries	\$ 8M

20% of Customer-received Funds for Cross-Directorate Synergy with Information-Rome



SN RRS Military Value



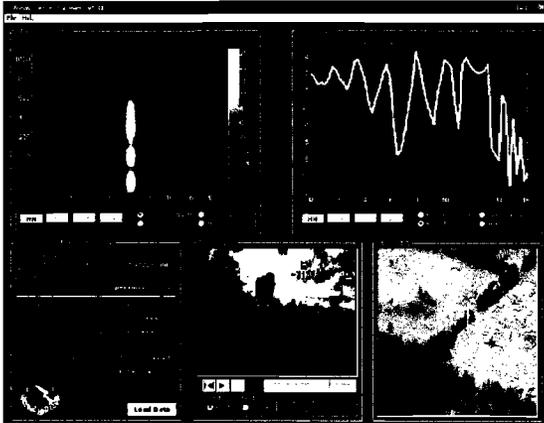
- **FOREST**—Detect Small Vehicles/Dismounted Troops
- **FOPEN**—Foliage Penetration (Aspect Sensitive RCS of Mil/Civ Vehicles)
- **STRUCTURALLY-INTEGRATED CONFORMAL ARRAY**—End-Fire Array Technology
- **BAO**—Battle Field Air Operations
- **TTRDP-RADARSAT**—Bistatic GMTI from Space Illuminator
- **ISBR**—Integrated Space Based Radar
- **SYCO**—Symbiotic Communications System
- **INTELLIGENCE COMMUNITY SUPPORT**
- **KNOWLEDGE AIDED SIGNAL PROCESSING**
- **OPTICAL SIGNAL PROCESSING**



FOREST Data Collection (Stockbridge)



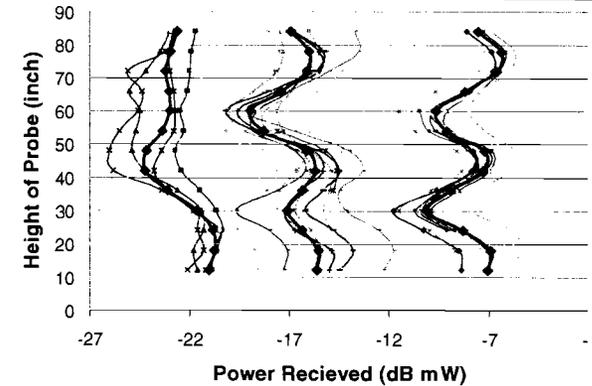
Objective: Analyze the Backscattering Behavior of a Moving Target in a Forest Environment



The GUI presents radar data analysis in a user friendly environment.



Choreographed Paths thru woods



Attenuation and Fading Statistics of Propagation within a Forest Environment

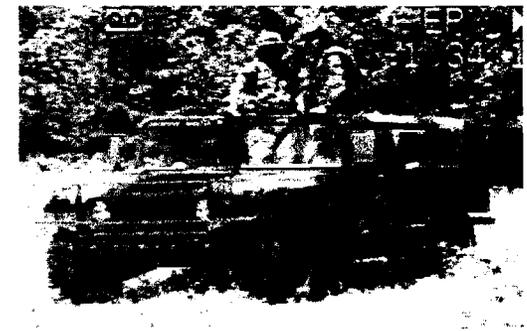
Knowledge of these scattering and fading statistics will lead to the development of more accurate target models and, in turn, for improved radar detection and signal processing techniques



Elevation probing used to analyze attenuation and multipath statistics



Troops Disbanding from Vehicles



Provides Measurements and Ground Truth for Evaluation of Theoretical Models and Simulation.



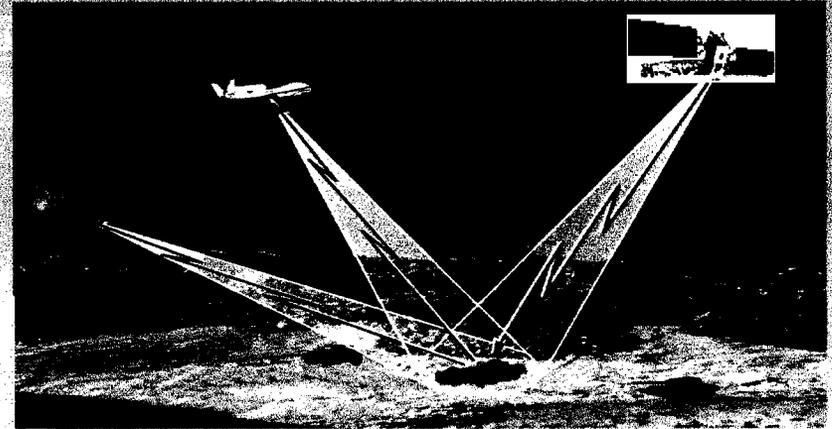


RadarSat I/II Experimentation

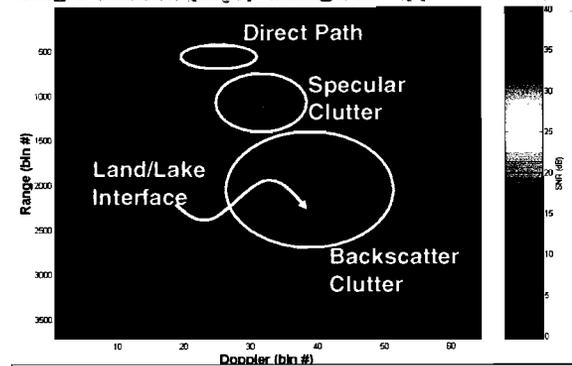
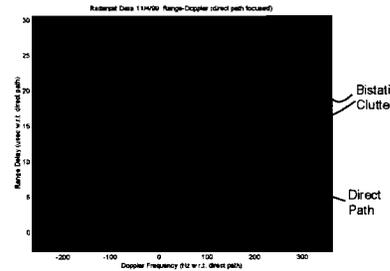
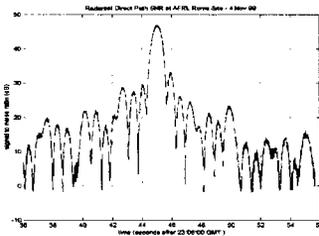


Accomplishments:

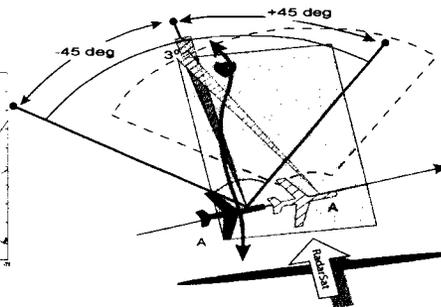
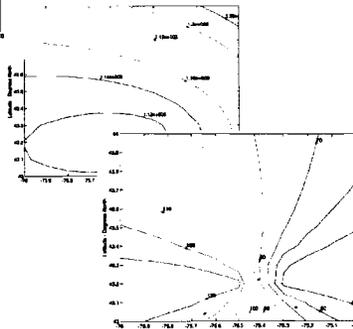
- Collected Multichannel Airborne Radar Data to Evaluate SBR GMTI Concepts
- Passive/Covert Radar Function
- Conducted Airborne GMTI Experiment
 - 5 Nov 2000 at CFB Petawawa
 - Fall 2004 at Ft. Drum
- Planning For Transportable Receiver Experiments
 - Clutter Phenomenology
 - Waveform Diversity



• Single Channel (Ch 1) - Range & Doppler Processed



Clutter Range/Doppler Distribution is Reasonable

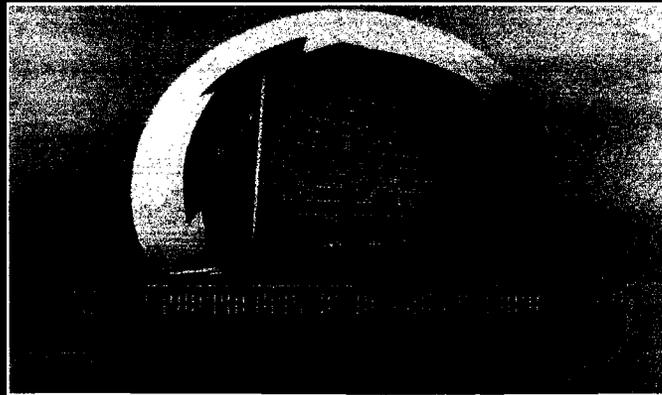




Optical Signal Processing

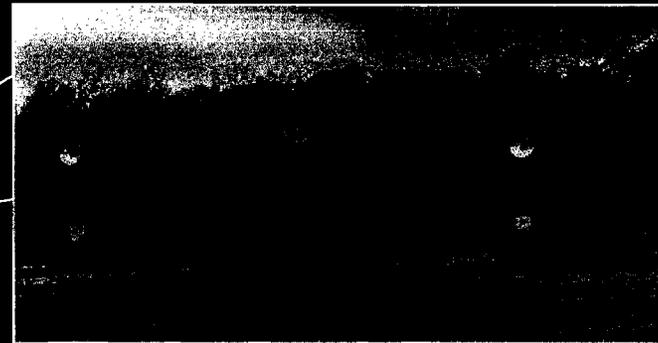


RADAR TEST BED FOR ANTI-JAMMING OPTICAL BEAMFORMING (AJOB) SIGNAL PROCESSOR TEST



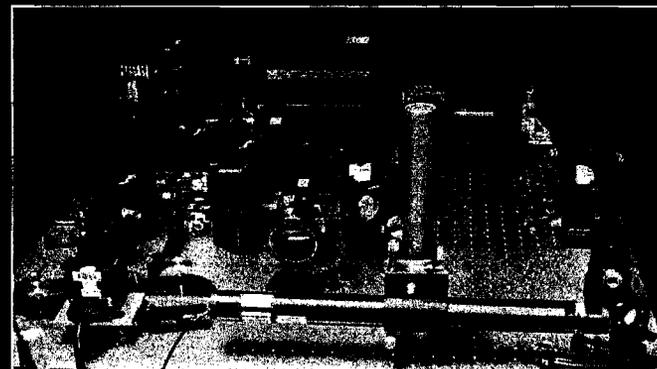
(2) ECCM RADAR

RECEIVES SIGNAL(S) FOR OPTICAL PROCESSING



(1) STAND-OFF JAMMERS

- ONE FILLS RECEIVERS WITH BARRAGE NOISE
- OTHER ANTENNA TRANSMITS A SIMULATED TARGET



(3) OPTICAL SIGNAL PROCESSOR

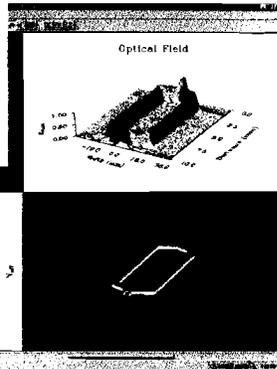
PERFORMS JAMMER CANCELLATION & PULLS THE TARGET OUT OF THE NOISE



AFRL/SNDP In-House Capabilities



Optical Modeling



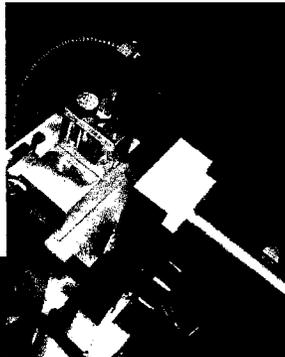
Electrical Modeling



Materials for Processing



Electro-Optical Material Characterization



Electro-Optical Device Fabrication

End View Optical Guiding Split



RF Link Demonstration And Component Evaluation

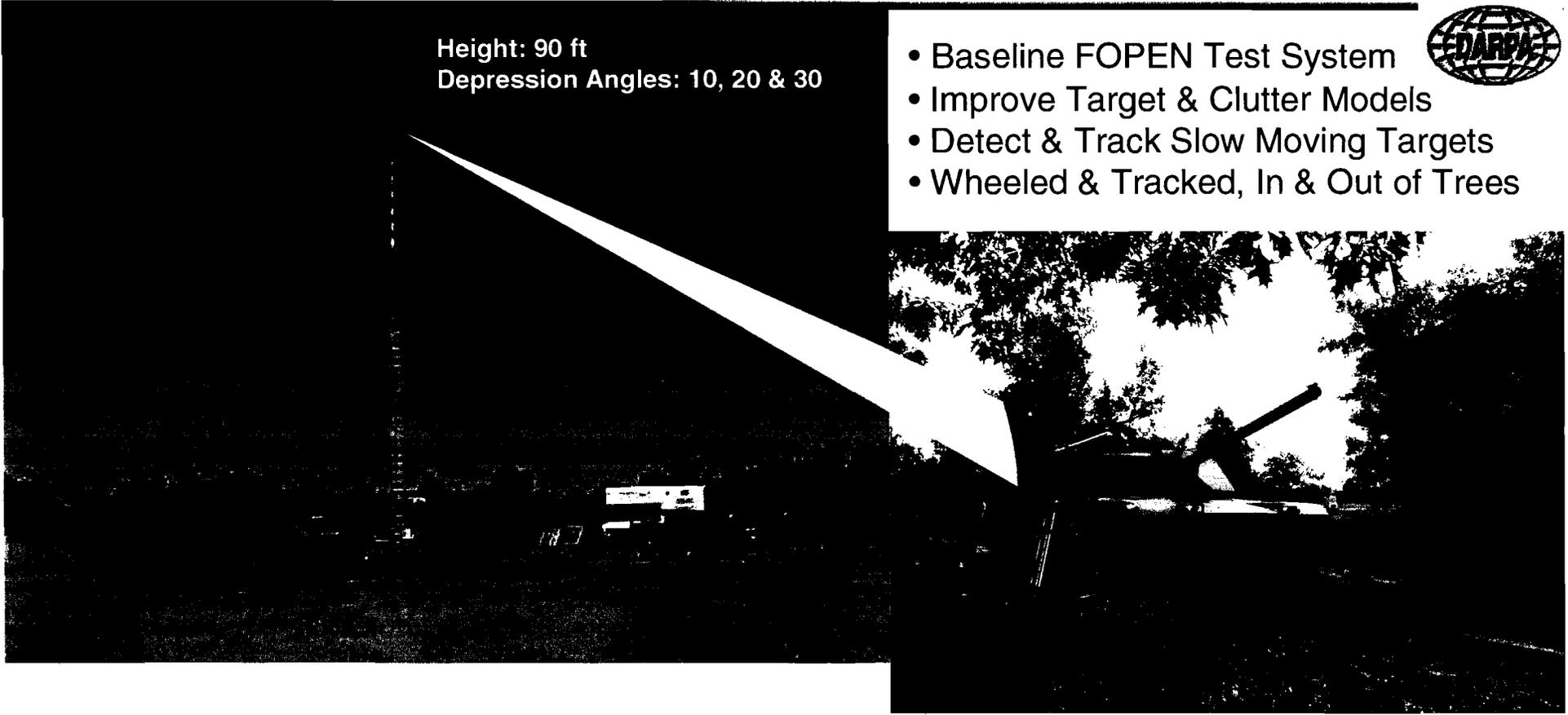


Sensors-Rome Engineers Support to Joint Warfighter Community at Ft Drum



Height: 90 ft
Depression Angles: 10, 20 & 30

- Baseline FOPEN Test System
- Improve Target & Clutter Models
- Detect & Track Slow Moving Targets
- Wheeled & Tracked, In & Out of Trees



- **Collect Doppler Signature Data on Slow-Moving Ground Targets, Extract RCS**
 - Develop First-Order Statistics; i.e., Mean Value & Variation About the Mean
 - Function of: Aspect Angle, Polarization, Frequency, Target Type & Depression Angle
 - Examine Time Correlation Properties; Collect Environment Clutter Data



**Intelligence Community Efforts at Ft Drum, NY
in Support of the *War on Terror* and Reconnaissance of N. Korea
(Due to Agreements In-place and Proximity to Sensors-Rome)**



Developing New Methods to Locate Terrorist Bombs in Urban Settings

**155mm artillery rounds used as roadside bomb (IEDs)
on surface, concealed with brush**

**Urban Combat Facilities
Ft Drum**

Developing New Methods to Perform Reconnaissance on N. Korean Troops

North Korea across the DMZ

(Taken by Sensors-Rome Engineers)

**North Korean Guard Post
Mine Field**





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 - Sites
 - Classified Infrastructure
- Discussion and Q&A
 - All

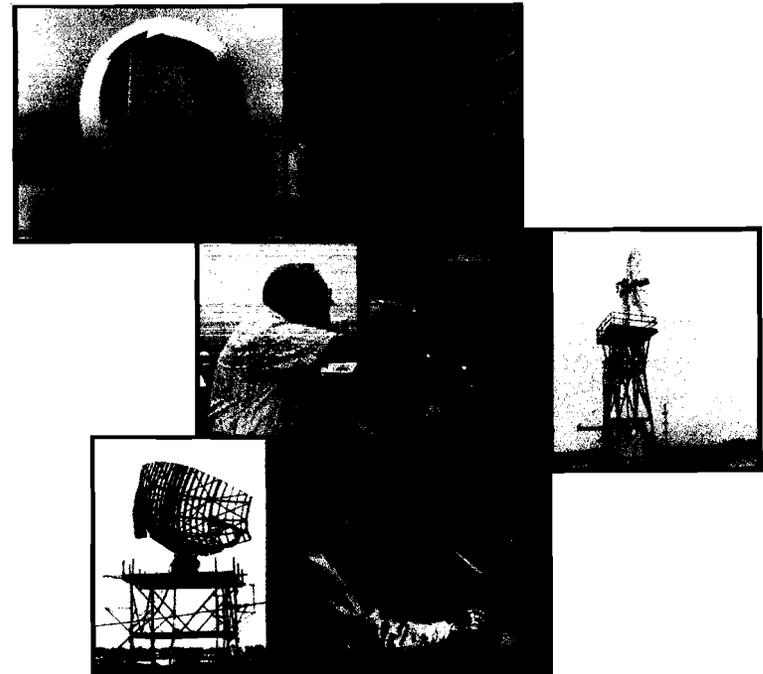


Relocation Requirements

Surveillance Facility



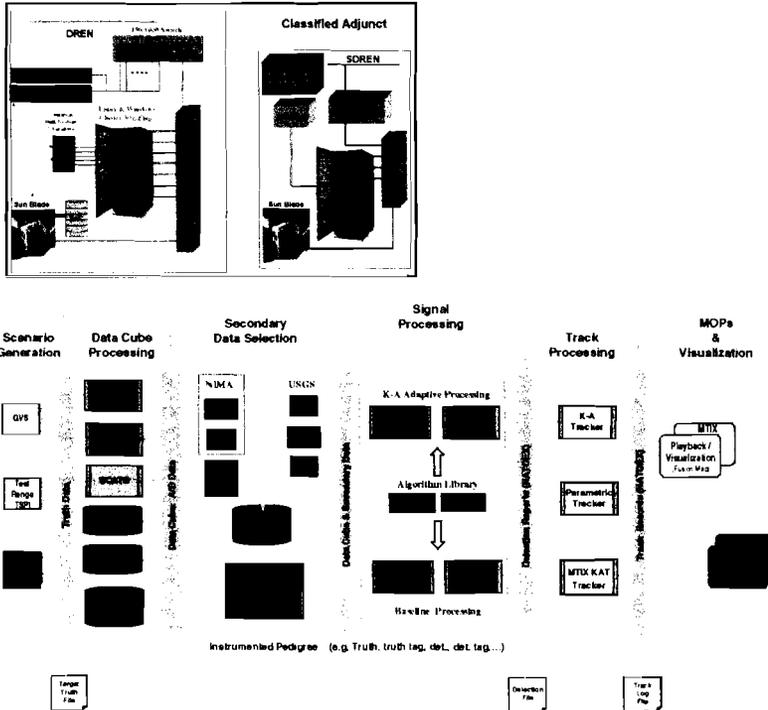
- 4 Sensor Systems; 3 active and 1 passive
- High-Fidelity Data Acquisition
- Complex, experimental radar testbeds
- Re-configurable nature makes them world-unique
- Towers, antennas, transmitters, instrumentation, frequency allocation/authorization



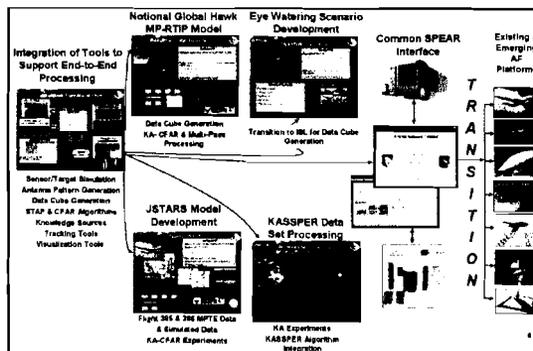


Relocation Requirements

SPEAR Facility



- Unique Testbed for developing, evaluating and demonstrating advanced sensor concepts and signal processing algorithms to Accelerate Transition to the Warfighter.
- Multi-level Secure Environment
 - Open Storage
- SIPRNET and SDREN connectivity to other DoD, AF, and FFRDC Organizations
- 1600 ft² Classified Processing





Remote Site Synergy



Remote Site Capabilities - Newport, Stockbridge & Ft. Drum

- Quiet RF Environment for Antenna Testing, RCS Measurements
 - FOPEN Radar Meas.
 - FOREST Demo
 - Conformal Array Testing
- At Ft. Drum developed, tested and demonstrated core technology for BAO Kit
- Diverse Joint Service Target Sets - Tanks, Trucks, Tracked Wheel Vehicles and F-16s





Relocation Requirements

Vaults – SCI and SAP



- 2 SAP Facilities & 1 SCI Facility
 - Storage Containers
 - Computers, Telephones and VTC
 - Workspace and Conference Area
 - SPEAR Testbed Replicated in SCI area
 - GWAN (SCI Computer Network)



BRAC COBRA Run Accuracy



- Technical Joint Cross-Service Group (TJCSG) Directed Use of Field Certified Data from AF Concerning Contractors Cost – 3 May 2005
- COBRA Data Standard for Contractor Reductions
 - Apply 15% Reduction Against All Contractor Personnel
 - Show \$200K Miscellaneous Recurring Savings for Each Contractor Eliminated
 - Certified Data FY03: 82 Gov't Employees; 31 Contractors (32_tech_04277_ftes_funding_fo.xls) = Total 113 FTEs
- COBRA Run 5 May 2005 Assumed Reduction of 64 Contractors from Rome and Miscellaneous Recurring Savings of \$200K per reduced contractor equaling \$12.8M Savings/year
 - Data Standard Should Have Used 4 Contractors vs. 64
 - Results in \$36M Total Savings Discrepancy FY2009-2011
- Will AF/DoD Realize Consolidation Savings?
 - COBRA for SN RRS Needs to be re-run Using Correct # Contractors and 15% Reduction



Summary



-
- **World-Class Expertise in Surveillance Radar Technology & Radar Signal Processing Technology**
 - Personnel Depth (Ph.D.'s, Fellows)
 - Refereed Publications
 - Patent Applications & Awards
 - **Numerous Accomplishments Supporting Customers & Partners:**
 - Technical Staff Name-Requested by High-Profile Customers/Partners
 - **Extensive Relationships to Leverage R&D Investment**
 - **Synergy between SNDP/SNRT/SNRD**
 - **Importance of Facilities/Capabilities to Sensors Directorate Mission**
 - **Important to Recreate these Capabilities at WPAFB to Support Recommended Move**



Outline



- AFRL Sensors Directorate Overview
 - Mr. Joe Sciabica
- AFRL/SN Rome Research Site
 - Mission
 - People
 - Accomplishments
- Requirements/Considerations for SN RRS Relocation
 - BRAC Recommendations for SN RRS
 - Facilities
 - Sites
 - Classified Infrastructure
- ➔ • Discussion and Q&A
 - All



“What will be the net result if you move?”

Commissioner Newton



(This slide was added to address Commissioner Newton’s Question)

- *“The DoD will spend about \$35M to move about 9 mid-level engineers and their unique radar equipment from Rome to Dayton.*
- *The Air Force will lose all of their Nationally Recognized Technical Experts in the field of Covert Radar Surveillance & Reconnaissance, and Adaptive Radar Signal Processing because they will not move.*
- *Overall Military Value of the “function” will significantly decrease over the next 5-10 years due to loss of technical expertise and the fact that the unique radar system will not be able to operate at full potential in the Dayton area (lack of FCC license).*
- *Our enemy counter-parts will be given time to catch up and/or pass us in the critical fields of Covert Radar Surveillance & Reconnaissance, and Adaptive Radar Signal Processing.”¹*

¹As discussed within the Group with Commissioner Newton

USAF Program Uses Surveillance, Intel To Find Roots of Explosive Device Attacks in Iraq

Aviation Week & Space Technology
06/20/2005, page 54

David A. Fulghum
Washington

U.S. Air Force program weaves surveillance and intelligence to find roots of IED attacks in Iraq

Attack on Bombs

The U.S. Air Force is reexamining the way airpower has been applied to the war against insurgents in Iraq, in particular the battle against hidden *bombs* and suicide bombers.

Planners are abandoning the narrow search for single technology solutions to finding and disabling improvised explosive devices (IEDs) and have begun searching for a broader approach that will target enemy planners, organizers, suppliers and bomb makers in their homes and workshops, well before attacks can be put into play.

In planning for more than a year, the Air Force last month launched an effort to fuse intelligence around the basic building block of ground moving-target indicator (GMTI) data gathered by aircraft. While some fighters, bombers and unmanned aircraft carry sensors with moving-target detection capability, the primary source of such data is USAF's E-8 Joint Stars long-range radar surveillance aircraft (AW&ST May 16, p. 64).

In early May, U.S. Central Command began to operate this new fusion system that pulls data from both the battlefield as well as the archives of intelligence organizations to combat the insurgency and terrorist organizations.

There's already a 5-min. film clip circulating at the Pentagon that shows some promising initial results.

"I've seen footage of [imagery from Joint Stars] watching insurgents setting a bomb, and then being able to determine where they came from and where they went," confirms a senior Air Force official. In particular, "the Joint Stars have been looking at [segments of Iraq] night after night to see the vehicles--where they come from and where they go. They do it over and over and then begin to see where the *bombs* are made and where people meet before and after a bombing." Once the patterns of movement are understood, U.S. and coalition forces could then *attack* the locations where the bombers live or work.

Or the traffic could be further analyzed and backtracked to reveal even wider insurgent networks.

There are of course critics. "It sounds neat, but it's not," says an industry skeptic. He asserts that results are preliminary and still need a lot of work to determine how to cleanly and quickly draw conclusions from the fusion system.

But most agree *on* one basic premise. Both military and industry officials have concluded that trying to find all the hidden *bombs* or intercept the suicide cars one by one is a defensive measure that offers no long-term solution.

Moving target data collected from E-8 Joint Stars aircraft form the basic building blocks of a new holistic approach to finding those who build bombs and organize suicide attacks. Credit: USAF SSGT. SHANE CUOMO

Military users say most detection systems employed in Iraq have flaws that limit effectiveness when used alone. The Army's Horned Owl aircraft carries high-resolution synthetic aperture radar and other sensors. However, it collects so much data it creates many false positives that have to be authenticated (AW&ST May 9, p. 20).

Coherent change detection also has promise, but used alone is misleading. The problem is the amount of trash that blows around Iraq. Tests run in Arizona, which has a much cleaner environment, found IEDs most of the time. But high winds in Iraq produce false targets every few hours that trigger change detection sensors. The Army, under immense pressure to find a solution, and the Air Force are now turning to an architectural perspective that combine such outputs to isolate useful information.

About a year and a half ago, the Pentagon asked the aerospace industry to look at the IED problem and since then the effort has evolved from a search for silver bullet remedies to a holistic approach.

The radar data is routed from the Joint Stars aircraft through a variety of downlinks to ground sites, including the theater's air operations center, where analytical tools are used to manipulate and filter the raw data and provide first-order analyses. That information is then handed to combatant units for military action or transmitted to other intelligence agencies, both in theater and in the U.S., for further processing. The product is a multi-layer analytical process that can provide both real-time knowledge to troops in the field and deeper long-term insights from in-depth forensics for a more complete intelligence picture. And, the response time for extracting usable intelligence is expected to drop to minutes and hours instead of days and weeks.

During the analytical process, the information is also fused with other types of intelligence to produce improved knowledge for the combat commander. The knowledge is also fed back into the mission requirements process for the assignment of future airborne surveillance or intelligence-gathering missions.

"We are able to cue *on* a convoy that is struck by or whose members see an exploding IED and they'll call the Joint Stars which immediately looks at that vicinity for any fleeing targets," says a veteran Air Force ISR specialist. "They are also watching the environment around the area of focus, and patch together earlier observations. The insurgents have an unlimited supply of guys willing to blow themselves up in a bomb-laden vehicle or throw a device out the window of a moving car. We have to interrupt the IED production process in its early stages and strike the infrastructure where it is most vulnerable."

In providing finance and accounting services for the Department of Defense, DFAS Rome has consistently won recognition for its unparalleled service to customers.

"DFAS Rome is first among all operating locations in areas of leadership, customer focus, innovation training, teamwork and communication."

-Undersecretary of Defense John Hamre



- Hammer Award: National Performance Award for exemplary absorption of increased workload
- Eagle Award for outstanding performance (2001)
- Eagle Award for consolidation with European sites and associated workload
- Headquarters Award for excellence in customer service

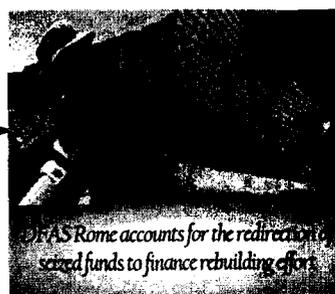
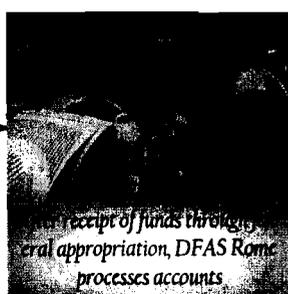
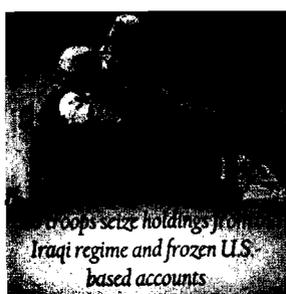
In a recent customer survey, DFAS Rome scored far above the DFAS average.

	Rome Score (of 100%)	DFAS Average (of 100%)
Customer Orientation	83%	68%
Training	78%	51%
Leadership & Quality	74%	40%
Communication	70%	43%
Teamwork	74%	52%
Performance Measures	69%	40%

"When they define customer service, it should read DFAS Rome."

-INSCOM Resource Manager Orv Rehling

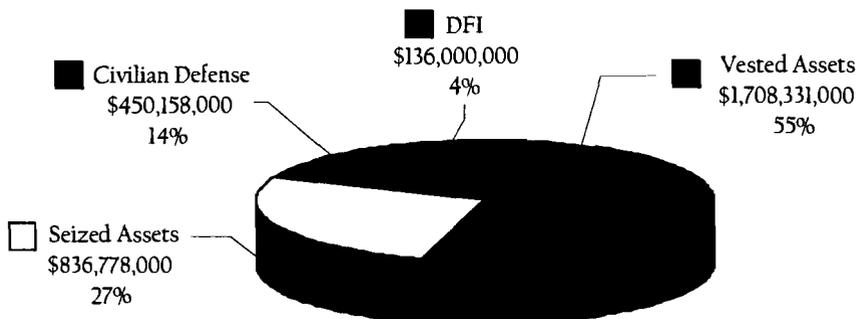
DFAS Rome, the primary DFAS site managing confiscated wartime holdings, plays a key role in Operation Iraqi Freedom and the Global War on Terror.



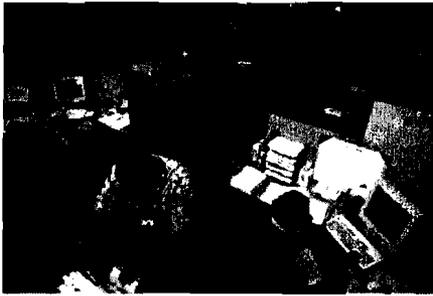
"Thanks to DFAS Rome, we have passed all audits of Enduring Freedom accounting records with no problems."

-160th and 5th Special Operations Resource Managers

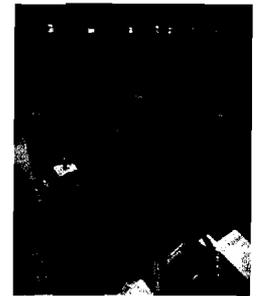
- In 2004, DFAS Rome managed and processed over \$3 billion in seized assets from the previous Iraqi regime and in US development appropriations to Iraq



A 2001 \$10 million investment in new high-tech facilities gives DFAS Rome the resources to ensure continued excellence.



- DFAS Rome seamlessly integrated with other DFAS offices and DFAS customers
- New DFAS Rome facilities include significant room for expansion
- State-of-the-art secure (SCIF) space created
- 166,000 square feet of renovated office space (1000 cubicles) now available at DFAS Rome



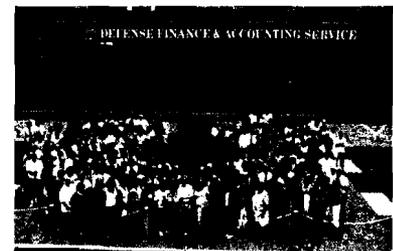
DFAS Rome handles mission-critical, sensitive data in a secure location.

- Rome is a low risk area for terrorism
- Co-located Northeast Air Defense Sector and Air Force Research Laboratory meet force protection requirements
- Redundancy in the form of multiple DFAS locations provides security from terrorism threats



DFAS Rome provides low-cost environment for DoD and a high quality-of-life community for DFAS Rome employees.

DFAS Location	Operating Cost/SF
Rome	\$ 4.26
Columbus	\$ 8.27
Denver	\$9.15
Indianapolis	\$14.96
Cleveland	\$29.21
Arlington	\$44.76



Source: Headquarters & Support Activities Joint Cross Service Group
Volume VII Final BRAC 2005 Report



- 380 jobs in a tight-knit community
- \$21.3 million annual economic impact on Central New York
- Rome MSA home prices are 33% lower than Indianapolis, 38% lower than Columbus, 58% lower than Denver
- Rome MSA median household incomes are 31% lower than Columbus, 33% lower than Denver, and 24% lower than Indianapolis, making home ownership easier for DFAS employees in Rome, and improving their overall quality of life.

What DFAS Rome Can Do For It's Customers

Customer Service



- Customer service available via telephone, e-mail, fax, video teleconference and site visits.
- Toll free numbers for our customers worldwide use. We have a person on the other end of the phone to answer your questions.
- Voice mail is available but used only as a last resort. Customers want to talk to people!
- Information available on the web.

Our keys to success in Customer Service are.....

“Aggressive customer service, a caring workforce, building partnerships with ALL of our customers focusing on flexibility, communication, and results.”

Our “First Class” Work Force

We Commit to Our Values:	Our Employees Are:
Respect for Individuals	Skilled & Trained
Dedication to helping customers	Committed to Excellence
High standards of integrity	Highly educated
Innovation	Sensitive to the customers' needs
Teamwork	Dedicated & highly motivated

Customer Satisfaction



Category	Rome Favorable %	Actual	Favorable %	Goal
Access	95%		79%	
Courtesy	94%		88%	
Knowledge	90%		71%	
Timelines	97%		72%	
Reliability	92%		74%	

A Recent Operational Assessment Survey Comparing DFAS Rome to the DFAS Average and U.S. Industries

Category	Rome Results	% Favorable	
		DFAS Average	Industry High Benchmark
Customer Orientation	83%	68%	73%
Training/Career Development	78%	51%	68%
Leadership & Quality	74%	40%	57%
Communication	70%	43%	55%
Teamwork	74%	52%	64%
Performance Measures	69%	40%	54%

Military Essential Value

→ Provide Unique/Specialized Finance and Accounting Services for:

- Operation Iraqi Freedom (OIF) in Iraq
- Operation Enduring Freedom (OEF) in Afghanistan
- Global War on Terror (GWOT) throughout the world
- Task Force Falcon (TFF) in Kosovo/Bosnia
- 5 Major US Army FORSCOM Components \$18B
- European Theatre \$2.1B
- Intelligence and Security Command 1.2B worldwide
- US Army Military Academy at West Point

→ Our services include:

- Train pre/deployed soldiers on Financial Management Execution (FME) in support of the mission
- Provide FME assistance to soldiers overseas on a daily basis
- Establish an institutional knowledge base in support of each of these operations and missions
- Process classified travel vouchers
- Perform all aspects of finance and accounting services
- Retention of records for future audits and reviews

→ Our employees possess unique technical proficiencies and skills required to support and train these customers. The loss and/or consolidation of this expertise could be detrimental to these and future operations and cost the DoD an additional \$42 million that could be avoided.



Force Protection

- Co-located with the Northeast Air Defense Sector (NEADS) and the Air Force Research Laboratory on the Griffiss and Technology Park, with both having 24 hour security police surveillance. The NEADS Police force is located in our building. Our on-staff Security Specialist is in constant contact with NEADS Intel and their Security Police as part of our force protection. DFAS Rome is in a Low Risk Area for terrorism. Our building is secured with electronic locks and surveillance cameras.

Why DFAS Rome In Addition to the Mega Centers?



Risk Mitigation of Mission Failure Due to:

- Loss of unique and critical expertise supporting GWOT
- Growing too fast at huge central sites
- Maintains “Continuity of Operations”
- A natural disaster or terrorist act

Cost:

- Can expand to 1,000 employees
- Results in additional cost savings for DoD in excess of \$42M



Achievements/Awards

- Operational April 3, 1995 (Opening Ceremony April 18, 1995)
- DFAS Director Award - Excellence in Customer Service (1995)
- **Hammer Award recipient for partnership with the US Army Intelligence & Security Command (1998) under the then Vice President's “Reinvention” of the Government Program**
- DFAS-IN Director's Eagle Award - Outstanding Performance (1999)
- US Army Special Operations at Fort Campbell - Print of Enduring Freedom (2002) - Recognizing outstanding service
- HQ's US Army Special Operations Command - Print of Operation Anaconda (2004) - Recognizing outstanding service
- DFAS-IN Director's Eagle Award- Europe Workload Transfer 2004



Customer Feedback



The Former Under Secretary of Defense, Mr. John Hamre stated: “DFAS Rome is first among all operating locations in areas of leadership, customer focus, innovation, training, teamwork, and communication.”

BG Stanton, Commander of the 336th Finance Command in support of Operation Iraqi Freedom (OIF) in Iraq stated: “Really appreciate the absolutely tremendous support we have received from DFAS Rome. Believe we are in great shape both in terms of accuracy and timeliness of our accounting records.”

From the Resource Managers of the 160th and 5th Special Operations for Operation Enduring Freedom (OEF) in Afghanistan stated: “Thanks to DFAS Rome, we have passed all audits of Enduring Freedom accounting records with no problems.”

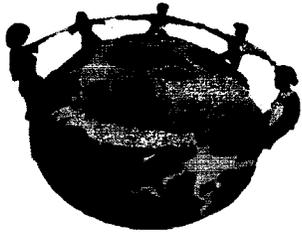
From Mr. Orv Rehling, the Resource Manager at the Intelligence and Security Command: “When they define Customer Service, it should read DFAS Rome!”

The Former Deputy Assistant Secretary of the Army for Financial Management, Mr. Ernie Gregory, stated: “DFAS Rome is the Best!”

HQ's Army Forces Command (FORSCOM) stated: “The Rome site provides outstanding, responsive customer service. The employees are courteous, friendly, and always willing to work with the installation. They are proactive in problem resolution.”

DFAS Rome - Post BRAC Support

Provide essential military value via Finance and Accounting services to all installations that comprise the US Army Forces Command (FORSCOM), the US Army Intelligence and Security Command (INSCOM), and all US Army customers in the European Theatre.



DFAS Rome Services Customers World Wide

<u>Providing Service Since</u>	<u>Location</u>
Jun 95	Carlisle Barracks, PA - US Army War College
Nov 95	Ft. Belvoir, VA
Jul 96	Ft. Meade, MD
Oct 9	US Army Intelligence and Security Command (INSCOM)
Nov 96	Ft. Leavenworth, KS - includes Command and General Staff College
Jul 97	US Army Military Academy at West Point NY
Dec 97	Ft. Jackson, SC
Oct 97	Ft. Lewis, WA
Mar 98	Ft. Stewart, GA - includes 3rd Infantry Division, Camp Doha, & USMTM
Mar 98	3rd Army - Southwest Asia (SWA) & HQs
May 98	Ft. Campbell, KY - includes 101st Airborne and 160th & 5th Special Operations
Jul 98	Ft. Bragg, NC - includes HQs 18th Airborne Corps & US Army 82nd Airborne
Oct 98	ROTC Cadet Command
Oct 99	Army Signal Activity (ASA)
Apr 00	Defense Acquisition Univ. (DAU)
Jun 00	Judge Advocate General (JAG) Army Claims for all US Offices, Hawaii, Alaska & Puerto Rico
Feb 03	Contingency Operations (Kuwait, Iraq)
Oct 03	Joint Chemical & Biological Defense Agency
Oct 03	Army Contract Agency (ACA)
Oct 03-May 04	European Theatre - includes 4 Major Commands and 4 Finance Battalions/Bosnia

★
DFAS Rome

Getting to Know Us...

- DFAS Rome is located in central New York on the Griffiss Business & Technology Park (formerly Griffiss Air Force Base a 1995 BRAC site).
- Our facility is "State-of-the-Art" after the completion of a \$10M renovation project in 2001.
- A 50 year permit for our building, at no cost
- Facility Consists of 343,764 sq ft.; we occupy 157,885 sq ft. Office space available to house 1000 employees.
- Our phone service is provided by the Air Force Research Site at Rome NY with 1000+ lines capability with 1-800, DSN, and FTS.
- Facility is rent free & an excellent structure. Utility rates very reasonable & ample free parking exists.
- Very reasonable housing prices in the local area with plenty of styles to choose from.
- Excellent elementary, secondary, vocational schools and several community and 4-year colleges.
- An excellent labor pool is available.
- Our Labor Management partnership is excellent! Together we focus on completing our mission in an outstanding manner as we take care of our employees that perform the mission!

**"We have ample space to
expand our workplace"**

DFAS Your Financial Partner @Work



DFAS Rome, NY

"ALL LOADS

LEAD TO ROME"

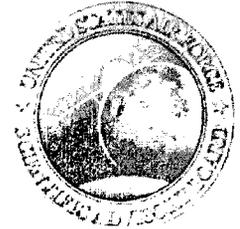
AFRL-Rome and the Rome Partnership Model

Fact Sheet
May 13, 2005

AFRL-Rome Research Site (RRS) is the leader in the hottest and most critical field in military research: exploiting and protecting information.

1. RRS is the largest and only military laboratory that conducts full spectrum C4ISR (Command Control Communications Computers Intelligence Surveillance and REconnaisance) from basic research to limited system acquisition for the services, intelligence agencies, and DoD.

2. In 2004, the Air Force Scientific Advisory Board rated AFRL-Rome's *military value* 'world class' or 'outstanding' in six of seven categories, *the highest rankings that can be conferred on a laboratory facility.*



3. At this critical time in our nation's history, Rome is at the forefront of creating revolutionary systems that exploit and protect critical information. Rome technologies, by turning complex information into actionable knowledge, have given U.S. forces a decisive advantage in Operation Iraqi Freedom and in the continuing Global War on Terror.

4. Rome develops applications that exploit large amounts of information to provide the right data to the right person at the right time to make the right decision.

Rome is advancing technologies that track moving targets on the battlefield in real-time and calculate the optimal response from U.S. commanders.

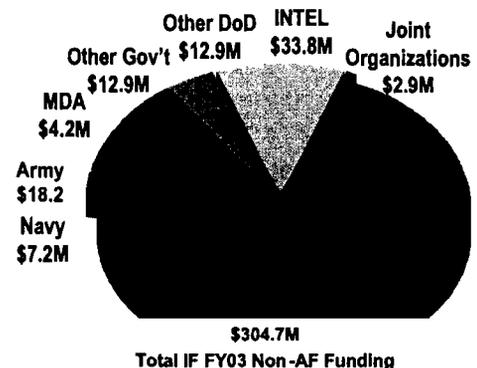
*Rome is developing technologies that help U.S. decision-makers **predict** enemy actions, empowering American troops to surprise and overwhelm enemy forces.*



5. Rome's expertise is in high demand from a diverse customer base. Almost 50% of the Lab's \$600 million in funding coming from non-Air Force clients.

Rome has a new memorandum of understanding (MOU) with the Department of Homeland Security, and a co-located National Institute of Justice facility.

6. The Lab is recruiting the nation's top young talent, with more than 70 extraordinary new tech graduates have been hired in the past three years from such leading institutions such as Cornell University, Syracuse University, the University of Rochester, Rensselaer Polytechnic Institute, Clarkson, Colgate University, Hamilton College and the SUNY system, among others.



The award-winning Rome Partnership Model is a leading example of military base reuse, achieving "transformation" while others only talk about it.

7. After Griffiss was realigned in 1995, mission critical information technology R&D functions were retained at the Lab within a newly created Griffiss Business and Technology Park, a visionary partnership among the Lab, private companies, and the public sector.

Termed the 'Rome Partnership Model', this collaboration of industry and local, county, and New York State governments has privatized electric, central heat and telecommunications functions, and has assumed all obligations for roads, water, sewer, and public safety, thereby eliminating costly base operating support functions for the Air Force.

8. Since 1995, *public and private investment at Griffiss have totaled \$182 million*, with \$70 million projected for 2005.

9. A \$25 million state-of-the-art Lab research facility was completed in 2004; the new high-tech facility co-locates Lab scientists and engineers within a single footprint, encouraging information-sharing and technological innovation. The efficient, consolidated facility saves the federal government millions in annual operating costs.



10. 'Rome Partnership Model' organizers were named 2004 Developer of the Year by the NAID, an Association of Defense Communities.

The right decision in 1995, an even better decision today.

11. In 1995, the BRAC Commission concluded that:

'The costs to close Rome Laboratory and relocate its activities...were significantly understated and savings overstated....Moreover these actions (moving AFRL-Rome to Hanscom and Monmouth) would seriously degrade the laboratory's ability to meet its current and future mission requirements.'



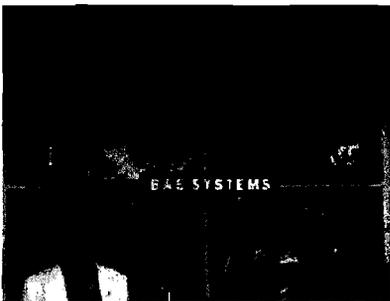
12. Moving the Lab will not enhance DoD's military value because Rome's focus is unique and distinct from that of other installations. While 24% of Rome's activities are funded by DARPA and 11% is funded by Intelligence Agencies, only 2-3% of Rome's workload is funded by Electronic Systems Command at Hanscom AFB and Aeronautical Systems Center at Wright Patterson AFB.



13. Rome is located in the lowest Federal Civilian Locality Pay Region in the country and has low area cost factors, an important consideration for cost-effective DoD/Air Force operations. These low costs for Rome permeate DoD's analysis using the Cost of Base Realignment Actions (COBRA) Model. In combination with other quality of life and intellectual capacity metrics, the Rome region is a best-value environment for DoD/Air Force C4ISR research and development functions.

The Lab is a focal point of Central New York's transition to a diversified industrial, research and development, and technology-based economy.

14. Nearly half of Central New York's \$1.2 billion in research and development funding is tied to the Lab, which creates \$212 million in economic impact for the surrounding Oneida and Herkimer Counties.



15. The Lab is responsible for generating more than 2,800 jobs in Central New York with an annual payroll of approximately \$160 million. Jobs created directly by the Lab, (approximately 1,300), represent salaries of more than twice the local average.



16. The Lab remains the anchor of the Griffiss Business and Technology Park, now home to 4,000 employees and growing.

What DFAS Rome Can Do For It's Customers

Customer Service

- Customer service available via telephone, e-mail, fax, video teleconference and site visits.
- Toll free numbers for our customers worldwide use. We have a person on the other end of the phone to answer your questions.
- Voice mail is available but used only as a last resort. Customers want to talk to people!
- Information available on the web.

Our keys to success in Customer Service are.....

“Aggressive customer service, a caring workforce, building partnerships with ALL of our customers focusing on flexibility, communication, and results.”

Our “First Class” Work Force

We Commit to Our Values:

Respect for Individuals
Dedication to helping customers
High standards of integrity
Innovation
Teamwork

Our Employees Are:

Skilled & Trained
Committed to Excellence
Highly educated
Sensitive to the customers' needs
Dedicated & highly motivated

Customer Satisfaction

Category	Rome Favorable %	Actual	Favorable % Goal
Access	95%		79%
Courtesy	94%		88%
Knowledge	90%		71%
Timelines	97%		72%
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- Provide FME assistance to soldiers overseas on a daily basis
- Establish an institutional knowledge base in support of each of these operations and missions
- Process classified travel vouchers
- Perform all aspects of finance and accounting services
- Retention of records for future audits and reviews

→ Our employees possess unique technical proficiencies and skills required to support and train these customers. The loss and/or consolidation of this expertise could be detrimental to these and future operations and cost the DoD an additional \$42 million that could be avoided.



Force Protection

- Co-located with the Northeast Air Defense Sector (NEADS) and the Air Force Research Laboratory on the Griffiss and Technology Park, with both having 24 hour security police surveillance. The NEADS Police force is located in our building. Our on-staff Security Specialist is in constant contact with NEADS Intel and their Security Police as part of our force protection. DFAS Rome is in a Low Risk Area for terrorism. Our building is secured with electronic locks and surveillance cameras.

Why DFAS Rome In Addition to the Mega Centers?

Risk Mitigation of Mission Failure Due to:

- Loss of unique and critical expertise supporting GWOT
- Growing too fast at huge central sites
- Maintains “Continuity of Operations”
- A natural disaster or terrorist act

Cost:

- Can expand to 1,000 employees
- Results in additional cost savings for DoD in excess of \$42M



Achievements/Awards

- Operational April 3, 1995 (Opening Ceremony April 18, 1995)
- DFAS Director Award - Excellence in Customer Service (1995)
- **Hammer Award recipient for partnership with the US Army Intelligence & Security Command (1998) under the then Vice President's “Reinvention” of the Government Program**
- DFAS-IN Director's Eagle Award - Outstanding Performance (1999)
- US Army Special Operations at Fort Campbell - Print of Enduring Freedom (2002) - Recognizing outstanding service
- HQ's US Army Special Operations Command - Print of Operation Anaconda (2004) - Recognizing outstanding service
- DFAS-IN Director's Eagle Award- Europe Workload Transfer 2004



Customer Feedback

The Former Under Secretary of Defense, Mr. John Hamre stated: “DFAS Rome is first among all operating locations in areas of leadership, customer focus, innovation, training, teamwork, and communication.”

BG Stanton, Commander of the 336th Finance Command in support of Operation Iraqi Freedom (OIF) in Iraq stated: “Really appreciate the absolutely tremendous support we have received from DFAS Rome. Believe we are in great shape both in terms of accuracy and timeliness of our accounting records.”

From the Resource Managers of the 160th and 5th Special Operations for Operation Enduring Freedom (OEF) in Afghanistan stated: “Thanks to DFAS Rome, we have passed all audits of Enduring Freedom accounting records with no problems.”

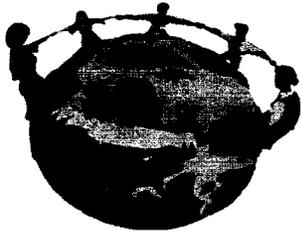
From Mr. Orv Rehling, the Resource Manager at the Intelligence and Security Command: “When they define Customer Service, it should read DFAS Rome!”

The Former Deputy Assistant Secretary of the Army for Financial Management, Mr. Ernie Gregory, stated: “DFAS Rome is the Best!”

HQ's Army Forces Command (FORSCOM) stated: “The Rome site provides outstanding, responsive customer service. The employees are courteous, friendly, and always willing to work with the installation. They are proactive in problem resolution.”

DFAS Rome - Post BRAC Support

Provide essential military value via Finance and Accounting services to all installations that comprise the US Army Forces Command (FORSCOM), the US Army Intelligence and Security Command (INSCOM), and all US Army customers in the European Theatre.



DFAS Rome Services Customers World Wide

Providing Service

<u>Since</u>	<u>Location</u>
Jun 95	Carlisle Barracks, PA - US Army War College
Nov 95	Ft. Belvoir, VA
Jul 96	Ft. Meade, MD
Oct 9	US Army Intelligence and Security Command (INSCOM)
Nov 96	Ft. Leavenworth, KS - includes Command and General Staff College
Jul 97	US Army Military Academy at West Point NY
Dec 97	Ft. Jackson, SC
Oct 97	Ft. Lewis, WA
Mar 98	Ft. Stewart, GA - includes 3rd Infantry Division, Camp Doha, & USMTM
Mar 98	3rd Army - Southwest Asia (SWA) & HQs
May 98	Ft. Campbell, KY - includes 101st Airborne and 160th & 5th Special Operations
Jul 98	Ft. Bragg, NC - includes HQs 18th Airborne Corps & US Army 82nd Airborne
Oct 98	ROTC Cadet Command
Oct 99	Army Signal Activity (ASA)
Apr 00	Defense Acquisition Univ. (DAU)
Jun 00	Judge Advocate General (JAG) Army Claims for all US Offices, Hawaii, Alaska & Puerto Rico
Feb 03	Contingency Operations (Kuwait, Iraq)
Oct 03	Joint Chemical & Biological Defense Agency
Oct 03	Army Contract Agency (ACA)
Oct 03-May 04	European Theatre - includes 4 Major Commands and 4 Finance Battalions/Bosnia

★
DFAS Rome

Getting to Know Us...

- DFAS Rome is located in central New York on the Griffiss Business & Technology Park (formerly Griffiss Air Force Base a 1995 BRAC site).
- Our facility is "State-of-the-Art" after the completion of a \$10M renovation project in 2001.
- A 50 year permit for our building, at no cost
- Facility Consists of 343,764 sq ft.; we occupy 157,885 sq ft. Office space available to house 1000 employees.
- Our phone service is provided by the Air Force Research Site at Rome NY with 1000+ lines capability with 1-800, DSN, and FTS.
- Facility is rent free & an excellent structure. Utility rates very reasonable & ample free parking exists.
- Very reasonable housing prices in the local area with plenty of styles to choose from.
- Excellent elementary, secondary, vocational schools and several community and 4-year colleges.
- An excellent labor pool is available.
- Our Labor Management partnership is excellent! Together we focus on completing our mission in an outstanding manner as we take care of our employees that perform the mission!

**"We have ample space to
expand our workplace"**

**DFAS
Your Financial
Partner @Work**



DFAS Rome, NY

"ALL ROADS

LEAD TO ROME"



10th MD



20th ASOS



AFRL/SNR

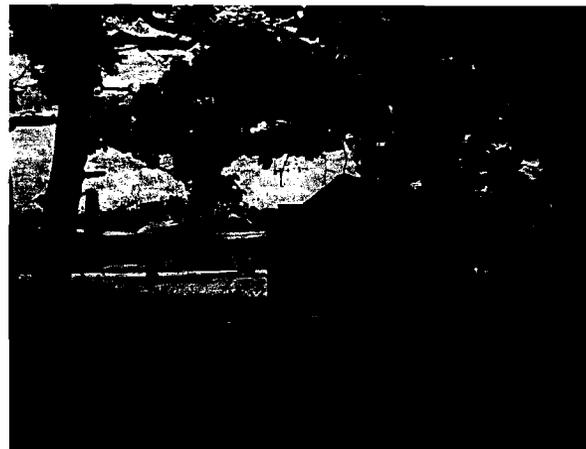
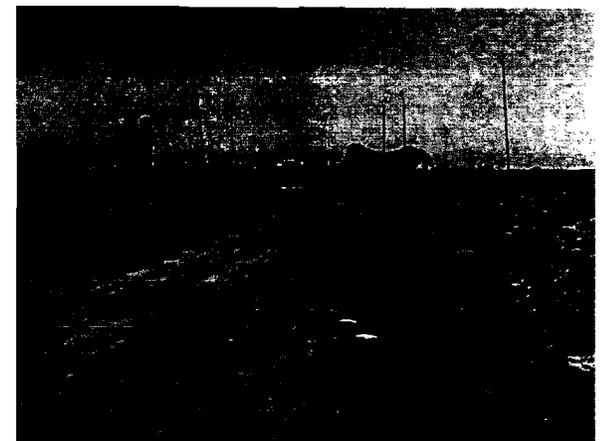
Collaborative
Partners



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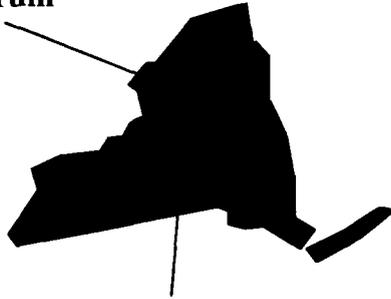
Forward Operating Laboratory Field Experimentation and Test Range

The AFRL/SRD Forward Operating Lab provides a Joint (Army & Air Force) setting for conducting field trials with the Shooters to determine and resolve issues in supporting the fielding of new technology, prove the worth of new Joint technology, and provides the ability to rapidly identify new Warfighter technology needs. Low cost alternative to Flag exercises. Benefits include reduced time to market for new technology, reduced transition footprint, participation in Joint and Coalition operational exercises, and training for personnel.



**Located In
Up State New York on Ft. Drum**

Ft. Drum



**AFRL/SNR
Rome, NY**

POC For Forward Operating Lab

**Gary G. Bustos
Air Force Research Laboratory
SNRT
26 Electronic Parkway
Rome, NY 13441-4514
(315) 330-3040
FAX: 315-330-3703
Email: bustosg@rl.af.mil
or
Edward J. Jones
(315) 330-2702
Email: Edward.Jones@rl.af.mil**

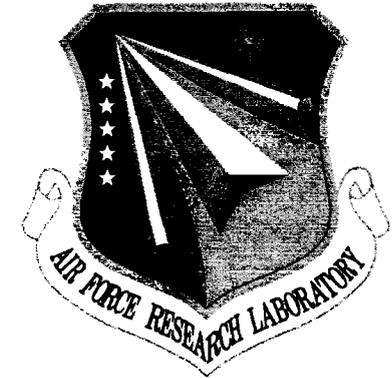
***Air Force Research Laboratory
Sensors Directorate***

The RF Technology Division conducts basic research, exploratory and advanced RF sensor programs to meet Air Force Aerospace Global Awareness, Precision Engagement, Survivability, and Life Cycle Cost needs for space, air and ground sensor systems.

Key Technology Areas:

- Space Time Adaptive Processing
- Knowledge Base Signal Processing
- Radar System Design
- Bistatic Radar Technology
- Space Based Radar Technology
- Ground Penetrating Radar Technology
- Radar Modeling & Simulation
- Lab & Field Experimentation
- Airborne Radar Technology
- Sensor Craft (Multi-Int) Testbed
- Target & Clutter Phenomenology
- Waveform/Spatial Denial
- System Engineering Support

U.S. Air Force



**Air Force Research Laboratory
Sensors Directorate**

***Forward Operating Laboratory
Field Test Facility***



***Where Field Experimentation
Becomes Reality***

Free Publication

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Features Inside

Column by Joe

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One Member of the Base Realignment and Closure Commission is Scheduled to Tour Griffiss Park

By PAT MALIN

One member of the Base Realignment and Closure Commission is scheduled to tour Griffiss Park on Wednesday, June 22 for a closer look at the Defense Finance and Accounting Service.

Lloyd W. Newton, a retired four-star Air Force general, is the only member of the panel visiting Rome, according to the BRAC website (www.brac.gov).

On May 13, the Department of Defense (DoD) issued a list of recommendations to close or realign military facilities that are designed to save the federal government and U.S. taxpayers an estimated \$48 billion over 20 years.

DoD plans to spend

more than \$77 million to close more than 20 DFAS centers across the U.S. and consolidate those operations in three cities - Indianapolis, Columbus and Denver.

According to a statement released by Rep. Sherwood Boehlert, the DoD estimates it will cost over \$8 million to close DFAS Rome, with no actual savings until fiscal year 2009.

Newton was scheduled to visit the Pittsburgh International Airport Air Reserve Station, PA, on Tuesday, June 21, and then another Defense Finance and Accounting Service facility in Cleveland, OH, on June 23.

Each site visit will be followed up by a regional hearing that is open to the

public for comment.

BRAC will hold a regional hearing in Buffalo on Monday, June 27 for residents from New York and Ohio who wish to speak on behalf of any of their facilities that are targeted for closure or realignment.

In New York State, DoD has recommended that nine facilities be closed, including DFAS Rome, which employs nearly 400 people. Three other military facilities in the state are recommended for realignment or transfer, including a portion of the Air Force Research Lab in Rome (137 jobs).

The U.S. Military Academy at West Point will be the only military facility to gain jobs. In total, New
(Continued on Page 7)



Retired Air Force Gen. Lloyd W. "Fig" Newton, member of the Base Realignment and Closure Commission, tours the Walter Reed Army Medical Center with Rep. Eleanor Holmes Norton, Army Maj. Gen. Kenneth L. Farmer, Jr., right, commanding general of the North Atlantic Region and Walter Reed Army Medical Center, Washington Friday, June 10, 2005.

Upstate Cerebral Palsy Campus Will Offer Expanded Child Care Services

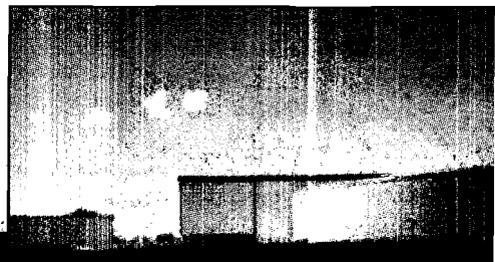
A \$7 million cerebral palsy center at the business and park is expect-

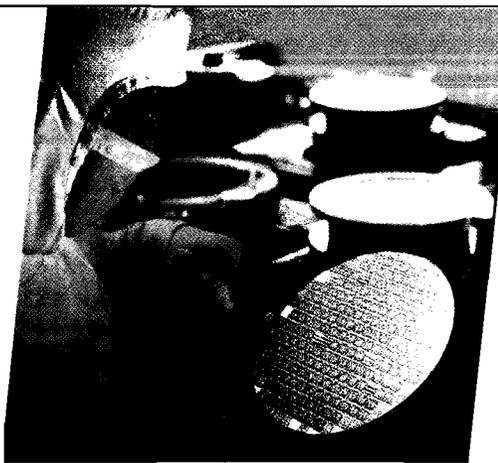
Upstate Cerebral Palsy currently operates an adult home in Rome and has both adult and children's homes in Utica. It has 47 locations in four counties throughout the Central New

York State area. "The students out of state, and now they will be coming back home and living closer to their families," she said.

The students can live on campus and go to school almost without leaving

the area. The New Discoveries Learning center, which is currently at 260 W. Dominick Street in
(Continued on Page 8)





EDGE is the framework for realizing a new economic vision within the Mohawk Valley. It is an integral part of a long term unified effort that will strengthen local business opportunities and open the door for new industries to enjoy the rich resources and spirit of our region.

Planning/Research

EDGE will coordinate completion of planning studies, site and facility plans, and the development of strategic plans. We also collect and maintain statistical data on various economic, demographic, real estate, and labor force characteristics needed to provide tailored, accurate information to prospective businesses and industries.

Technical Support/Business Assistance

EDGE assists with feasibility studies, GIS support, SEQQR, environmental assessments, and funding for engineering and architectural studies. Efforts are coordinated with county and local planning staffs to provide efficient service for business development.

Marketing/Promotion/Recruitment/Public Relations

EDGE plays a leadership role in a regional marketing plan that identifies industries that would be attracted to the region. We also develop recruitment packages and project proposals that are used to market the region and specific sites for prospective development. **EDGE** strives to build regional consensus and keep the community informed on plans and projects.

Business Retention Strategy

Assisting local businesses and protecting our region's existing job base are two of **EDGE**'s highest priorities. We use a systematic approach for identifying potential needs of area businesses and determining potential problems, as well as opportunities that may impact the regional economy.

Project Development & Management

EDGE provides resources and staff support for implementation and coordination of regional economic development projects and project management. This includes Griffiss Business and Technology Park, economic development zones, and several other development projects planned in the Mohawk Valley.



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Real Estate

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Small Business

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EDGE coordinates i
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Let *EDGE* introduce you to Fast Track Country – the Mohawk Valley of New York State. We'll put you on the business fast track — you'll enjoy a high quality lifestyle in this beautiful Central New York region.

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By linking the area's economic development organizations, *EDGE* is able to cut through the red tape and put together outstanding growth and expansion packages for your business. *EDGE* also networks with many other public and private organizations on issues that affect the growth and development of the region. *EDGE* services include the following . . .

