



**National Law Enforcement and Corrections
Technology Center - Southeast Region**

A Program of the National Institute of Justice



NLECTC

Mission



To serve as an honest broker, providing technology information, assistance and expertise to the nation's law enforcement, corrections, and criminal justice communities.



NLECTC



Objectives:

- To support development of new technology for law enforcement and corrections.
- To serve as a resource center for technology information.
- To provide engineering advice and support.
- To provide state and local criminal justice agencies with technical assistance to implement new technologies.



Technology Center System Development



1994 Justice and Defense Departments signed cooperative agreements providing access / leverage to the Nation's technology infrastructure.

- Mandated resulting technology programs focus on the technology needs of state and local law enforcement and corrections agencies.**
- Assigned program responsibility to the National Institute of Justice, Office of Science and Technology.**
- NIJ/OST responded by creating the Law Enforcement and Corrections Technology System.**

DOE – signed cooperative agreement, 2000.

Organizational Placement





Center System



- The NLECTC program has both a national and regional focus.
- Four Established Centers support designated regions across the United States. Two new ones Just Starting – NW – Alaska; Rural Law Enforcement Technology Center – KY.
- A National Center provides centralized support to NIJ/OST and the program.
- Specialized Centers address specific areas of interest to the criminal justice community.

National Law Enforcement & Corrections Technology Centers

NLECTC-Northwest
Anchorage, AL

Rural Law Enforcement Technology Center
Hazard, KY

NLECTC - Rocky Mountain
Denver, CO

NLECTC-Northeast
Rome, NY

NLECTC-West
El Segundo, CA

NIJ Washington, DC

NLECTC
Rockville, MD

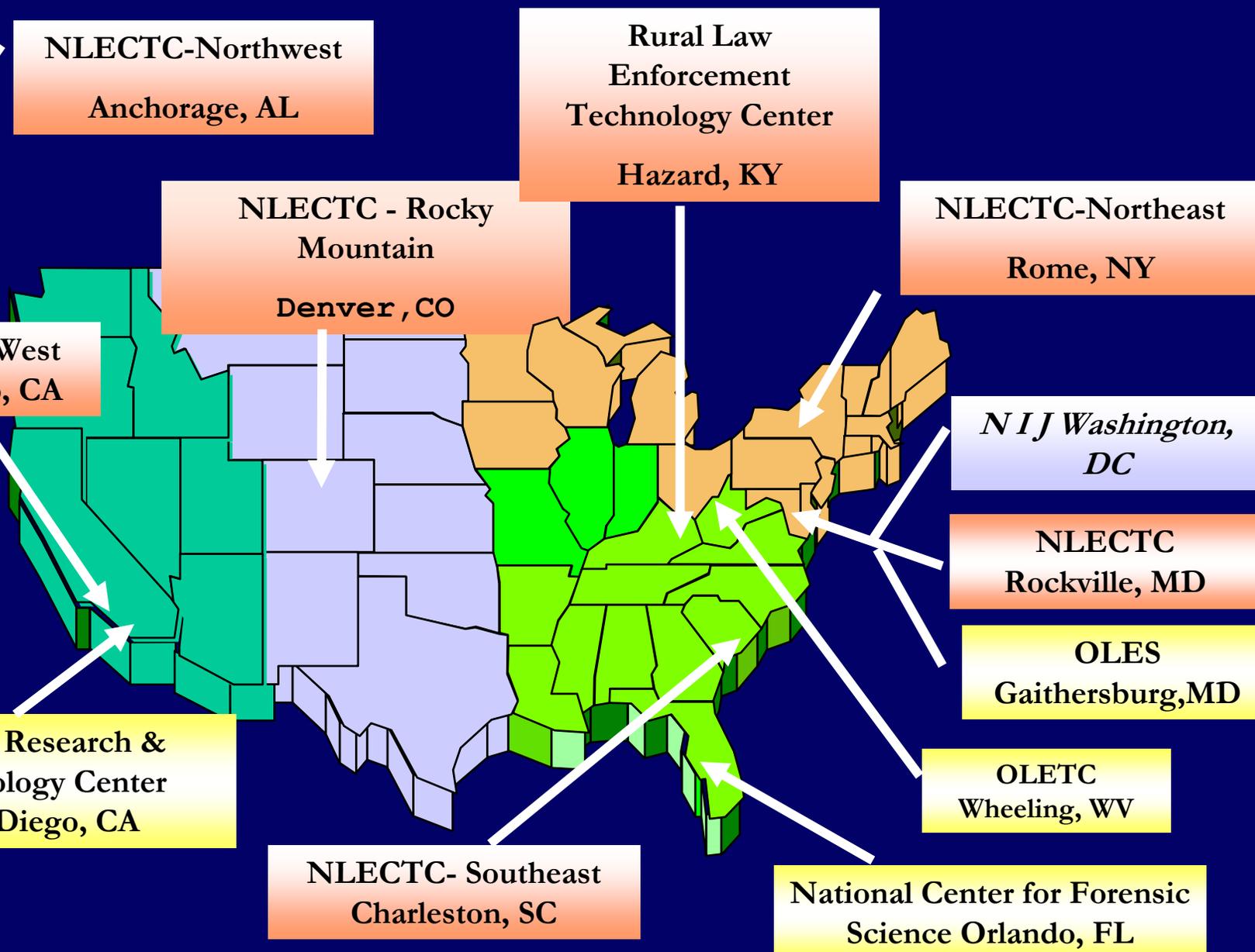
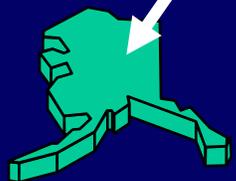
OLES
Gaithersburg, MD

Border Research & Technology Center
San Diego, CA

OLETC
Wheeling, WV

NLECTC- Southeast
Charleston, SC

National Center for Forensic Science
Orlando, FL



NLECTC - National Rockville, MD

- Focus areas:
 - Public Safety Equipment Testing
 - Consumer product lists, testing bulletins & equipment performance reports.
 - System Newsletter - TECHBEAT
 - System Web-site - JUSTNET (nlectc.org)
 - Technology Information Hot-line.



WWW.JUSTNET.ORG

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JUSTNET

Justice Technology Information Network

National Law Enforcement and Corrections Technology Center
A Program of the National Institute of Justice

Technology Assistance	About NLECTC
Testing and Evaluation	The NLECTC system's regional centers and specialty offices work directly with Federal, state, local law enforcement agencies; community leaders; and scientists to foster innovation that result in new products, services, systems, and strategies for law enforcement and corrections professionals.
Training Assistance	Crime Mapping Training Operation America
Equipment Needs	Training Assistance NIJ Technology Institutes
NLECTC Virtual Library	
Success Stories	What's New
Criminal Justice Links	An Introduction to Biological Agent Detection Equipment for Emergency First Responders, NIJ Guide 101-00 This NIJ Guide provides emergency first responders with information to aid them in their understanding of biological agent detection equipment. Among the topics discussed include: the four most common classes of biological agents, challenges to biological agent detection, biological agent detection system components and technologies, and preparation for a biological incident. The Guide concludes with a summary on the current state of biological agent detection.
Videos	Download the Guide from http://www.ojp.usdoj.gov/nij/pubs-sum/190747.htm or request a print copy from the National Criminal Justice Reference Service at 800-851-3420.
Grant Information	<ul style="list-style-type: none">• Donate Used Armor to NLECTC• NIJ Supports Efforts at the World Trade Center
 <p>The National Institute of Justice is the research and development agency of the U.S. Department of Justice. NLECTC is a program of NIJ's Office of Science and Technology.</p>	Law Enforcement & Corrections Technology News Summary <ul style="list-style-type: none">• "North Dakota Flight School to Install Fingerprint-Scanning System"• "Shine and Punishment"• "Do Fence Me In"
Contact Us	Upcoming Events <ul style="list-style-type: none">• OLETC Mock Prison Riot, May 5-9, 2002• Technologies for Public Safety In Critical Incident Response Conference, May 6-8, 2002• 3rd Annual Innovative Technologies for Community Corrections Conference, May 20-22, 2002

JUSTNET Highlight

Look for [NIJ Technology Projects and Publications](#) in the NLECTC Virtual Library.

Search for law enforcement and corrections technology information.

Find information related to:

Boolean Concept Pattern

[Search Help](#)

TechBeat

[TechBeat](#) is the award-winning flagship publication of the National Law Enforcement and Corrections Technology Center system.



- Available at no cost
- Published four times a year
- Contact us at 800-248-2742 or asknlectc@nlectc.org to subscribe

JUSTNET News

JUSTNETNews is an electronic mailing list used to distribute the *Law Enforcement & Corrections Technology News Summary* and announcements from NLECTC and the National Institute of Justice.

PUBLICATIONS

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Technology Assistance

Testing and Evaluation

Training Assistance

Equipment Needs

NLECTC Virtual Library

Success Stories

Criminal Justice Links

Videos

Grant Information



The National Institute of Justice is the research and development agency of the U.S. Department of Justice. NLECTC is a program of NIJ's Office of Science and Technology.

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Call the NLECTC Information Hotline at 800-248-2742 or email asknlectc@nlectc.org.

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[Technology Projects](#) || [Web Sites](#)

Search the NLECTC Virtual Library by keyword, topic, or information type using the form below. The links at the top and bottom of the screen will also retrieve information from the library.

Keyword:

Topic:

Information Type:

Click on a topic to retrieve all information resources in that area:

- [Biological and Chemical Defense](#)
- [Commercialization](#)
- [Concealed Weapon Detection](#)
- [Corrections](#)
- [Electronic Crime](#)
- [Federal Property](#)
- [Information Sharing and Analysis](#)
- [Learning Technology / Education and Training](#)
- [Offender Monitoring / Officer Location](#)
- [Personal Protection](#)
- [Restraint Systems](#)
- [Biometric Identification](#)
- [Communications Interoperability](#)
- [Contraband Detection](#)
- [Crime Mapping](#)
- [Explosives Detection and Remediation](#)
- [Firearms](#)
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- [Less-than-Lethal Incapacitation](#)
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PRESENTATIONS

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JUSTNET
Justice Technology Information Network
National Law Enforcement and Corrections Technology Center
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- Technology Assistance
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NLECTC Southeast Presentations

Title/Download	Presenter/Contact Info	Description
Cyber Solutions for Security in Corrections Powerpoint File (~410 KB)	John Taylor	American Correctional Association Winter Conference (January 12-16, 2002)
E-Crime Briefing Powerpoint File (~10.3 MB)	Bill Deck bdeck@nlectc-se.org 843-760-4627 http://www.nlectc.org/nlectcse/	American Correctional Association Winter Conference (January 12-16, 2002)
E-Crime Briefing Powerpoint File (~9.8 MB)	Bill Deck bdeck@nlectc-se.org 843-760-4627 http://www.nlectc.org/nlectcse/	Georgia Roundtable on Electronic Crime (November 30, 2001)
United Defense Briefing Powerpoint File (~14 MB)	Tom Reuter tom_reuter@udlp.com 800-235-9825 http://www.armyspareparts.com	1033 Southeast Coordinators Conference, Cocoa Beach, Florida, (October 27-30, 2001)
1033 Coordinators and NLECTC-Southeast Briefing Powerpoint File (~57 KB)	Ken Dover kdover@nlectc-se.org 888-874-5854 http://www.nlectc.org/nlectcse/	1033 Southeast Coordinators Conference, Cocoa Beach, Florida, (October 27-30, 2001)
NLECTC System Briefing Powerpoint File (~11 MB)	Bill Deck bdeck@nlectc-se.org 843-760-4627 http://www.nlectc.org/nlectcse/	1033 Southeast Coordinators Conference, Cocoa Beach, Florida, (October 27-30, 2001)
DLA Law Enforcement Support Office Briefing Powerpoint File (~3 MB)	LTC Laurie Sattler 800-532-9946 http://www.dla.mil/j-3/leso	1033 Southeast Coordinators Conference, Cocoa Beach, Florida, (October 27-30, 2001)
National Center for Forensic Science (NCFS) Briefing Powerpoint File (~1 MB)	Susan Schroen sschroen@mail.ucf.edu 407-823-6469 http://ncfs.ucf.edu	1033 Southeast Coordinators Conference, Cocoa Beach, Florida, (October 27-30, 2001)
DLA Law Enforcement Technology Center	Paul M...	1033 Southeast Coordinators Conference, Cocoa Beach, Florida, (October 27-30, 2001)

NLECTC - Western Region

El Segundo, CA

- Host Facility:
 - Aerospace Corporation
- Focus Areas:
 - Audio/Video Evidence Analysis & Enhancement
 - Forensic Science Laboratory
 - Police Pursuit Management
 - Computer Crime Technology



NLECTC - Rocky Mountain Region Denver, CO

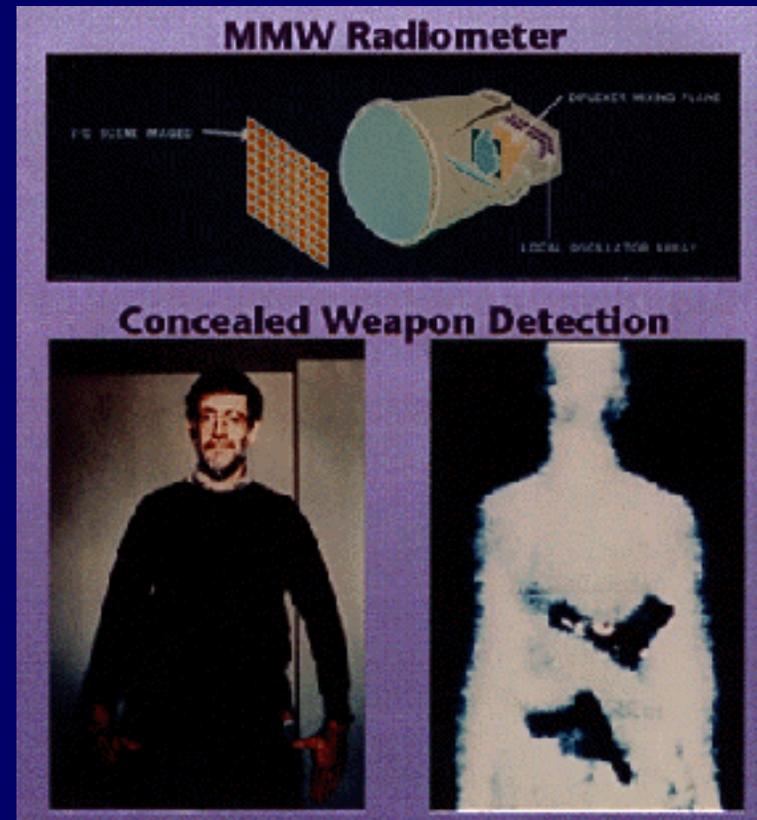
- Host Facility:
 - University of Denver
- Focus Areas:
 - Explosives Detection Training
 - Crime Mapping Analysis Training
 - Voice Communications



NLECTC - Northeast Region

Rome, NY

- Host Facility:
 - Rome Laboratories (Air Force)
- Focus Areas:
 - Concealed Weapons Detection
 - Language Translators



Office of Law Enforcement Technology Commercialization Wheeling, WV

Host Facility:

- Wheeling Jesuit University

- Accelerate commercialization of innovative law enforcement & corrections products.
 - Identify new technologies which address needs of criminal justice.
 - Assist with market assessments.

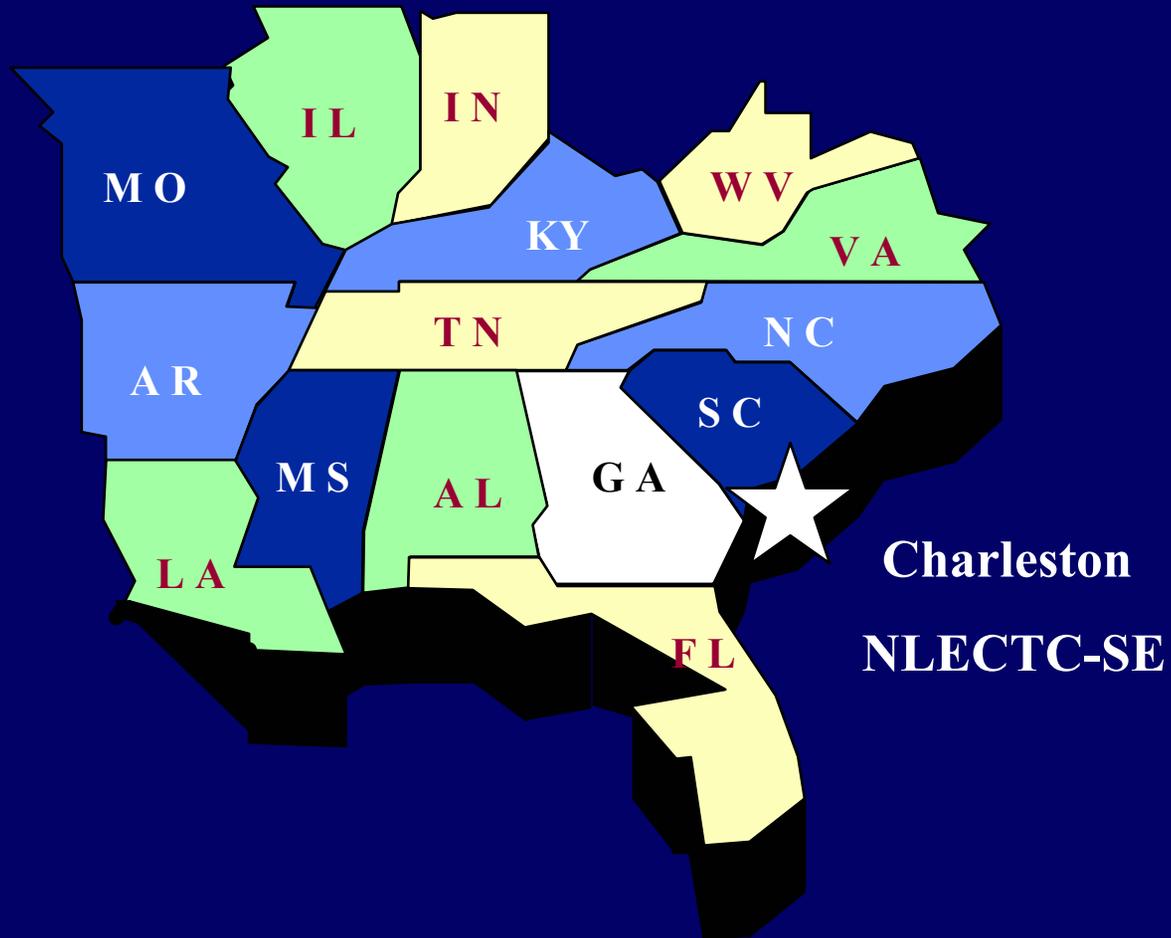




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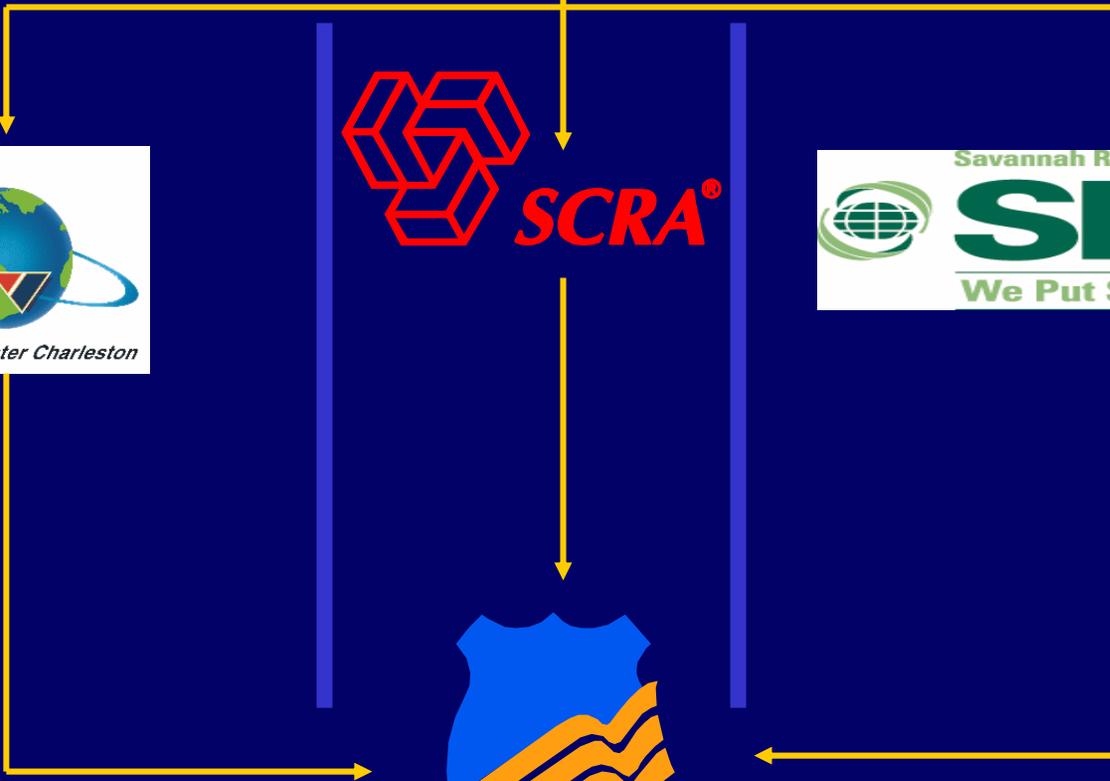
National Law Enforcement & Corrections Technology Center

Southeast Region





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About SCRA



NLECTC - Southeast

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A Program of the National Institute of Justice

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Fax: 843-760-4611

5300 International Blvd.
North Charleston, SC 29418

nlectc-se@nlectc-se.org

Surf NLECTC-SE Without Frames



With a mission to support the enhancement of technology available to law enforcement and corrections agencies, this Center is the Southeast regional arm of the U.S. Department of Justice - National Institute of Justice - Office of Science and Technology, working in partnership with the U.S. Department of Defense (represented by SPAWAR Engineering Center), IJS

- Assisting agencies in developing enhanced information management capabilities.
- Coordinating technology evaluation projects.
- Conducting vulnerability assessments of criminal justice information systems.

Done Internet



NLECTC-SE Staff



- Director – Tommy Sexton
- Deputy Director – Bill Nettles
- Law Enforcement – Coleman Knight
Bob Roberts
- Special Projects – Bill Deck
Bart Coghill
- Federal Property Programs – Ken Dover
- Engineering Groups
 - SCRA
 - SRTC
 - SPAWAR

LAW ENFORCEMENT AGENCY

PROFILE

Southeast Region



Agency Type	Total	Off. Avg..
Municipal	3112	37
Suburban Co.	341	139
Rural	788	23
University	227	20
Airport	96	
Harbor	13	
Total *	4577	
State		1406



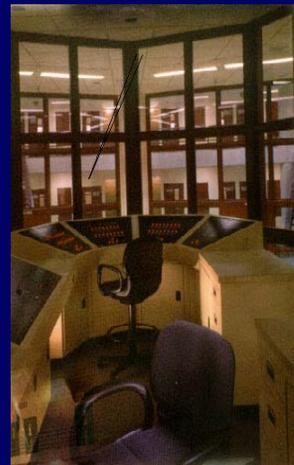
* 1999 FBI UCR Summary Report

Corrections Agencies

Southeast Region

Facility	Total	Capacity	Avg. Capacity	
PRISON	* 411	272,759	664	} RATIO 5.4
JAIL	1343	109,949	82	
Juvenile Det.	277	16,540	60	

* 9 are privately run



NLECTC-Southeast

TECHNOLOGY THRUST AREAS

- Information Technology for Law Enforcement
- Technology for Corrections
- Technology for Safe Schools



Non - Technical Area
Federal Property programs

Corrections Programs

- **Smart Card – Ohio Department of Corrections**
- **Jail Based TeleMedicine - Completed**
- **Jail Linkage System – South Carolina DOC COMPLETED**
- **Incident Mapping – Prison Application**
- **Data Mining**
- **Data Linking _ CorMAp**

Federal Property Program

Focus Area

- **Run by Department of Defense**
- **Through State Coordinators**
- **Facilitated by NLECTC-SE**
- **Assisted in transfers of \$ 50 Million + Over 4 Years**
 - **Night Vision Goggles**
 - **Computer Equipment**
 - **Humvees**
 - **Peace Keepers/ V-150's**

Law Enforcement Programs

- **Guidelines for Selecting Information Technology - COMPLETED**
- **Computer Based Training – SCCJA**
- **Distance Learning – SCCJA**
- **Safe Schools – Virtual Private Network**
- **ITIP - Regional Shared Information Systems – Interoperability Analytical Tools - \$3M being implemented**
- **Data Mining – Large Law Enforcement Data Sets**
- **Geographical Information Systems – Crime Mapping & School Safety**
- **Geographic Profiling**

School Safety
Technology Initiatives



School Safety Technology

- Selected As Lead Center for School Safety Technology Issues
 - ✓ Ensure consistent availability of resources, delivery of service and awareness of ongoing projects
 - ✓ Plan, schedule and chair NIJ/OST school safety technology subcommittee meetings
 - ✓ Maintain e-mail distribution list for dissemination and exchange of pertinent information
 - ✓ Planned and conducted in-process reviews of NIJ/OST school safety technology grants and projects spring 2001 (eighty practitioner participants)

School Safety Technology

- Participated in Preparation of *The Appropriate and Effective Use of Security Technologies in U.S. Schools*, With Sandia National Lab
- Convened A School Safety Practitioners Workshop Jointly With IACP
 - ✓ Practitioners identified primary need as effective, standardized information sharing between school, police, courts and juvenile services
 - ✓ Assisted by SCRA, designed and installed virtual private network, now in use by appropriate agencies in Bloomington – Normal, Illinois area

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**Lowcountry Information Technology Improvement Project
Charleston Tri-County Area**



Six Agencies using *Five Different* Vendors

ITIP: One System Linking All the Agencies

Phase One: Master Name Index Search

Phase Two: Total Records Search

Phase Three: Mobile Data Retrieval



Regional Shared Information System

NLECTC-SE

Developed concepts and engineered designs for:

Bloomington-Normal, Illinois

- Municipal - 2
- Sheriff- 1
- Fire-2

“ Re - engineering effort”

Utica, New York

- Municipal – 1
- Sheriff – 1
- Arson Task Force – 1

“ Regional System Planned.”

TRIAD, North Carolina

- Greensboro
- High Point
- Winston Salem

“Regional System”

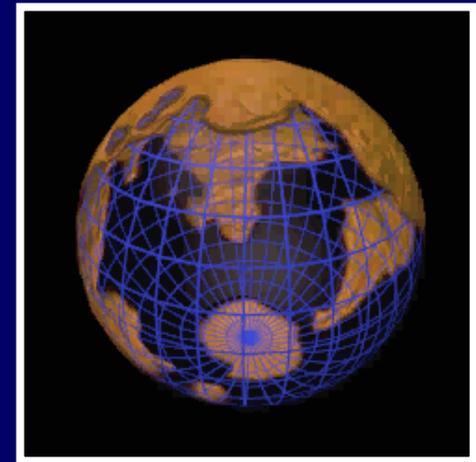
Charleston - Berkeley - Dorchester

- Municipal – 3
- Sheriff – 3
- Counties – 3

“Regional System”



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Analytical Tools Initiatives

Law Enforcement Information Technology Proliferation

- 80% of the Nation's law enforcement agencies use computers.
- 95% of all local police officers - employed in agencies that use computers.
- Record keeping is the most common application.
- Improved ability to capture and store data electronically
- In doing so, have produced large data sets, mostly stand alone.

Have not realized corresponding advances in analytical tools and techniques for transforming data to information that is actionable.



- The process of extracting previously undiscovered information that is comprehensible and actionable.
- Discovery - driven as opposed to verification - driven
- Software “ algorithms” automatically discover information hidden in data without a previously formulated hypothesis.

Geographic Information Systems



Name	Address	Zip Code	Phone #			
XXXX	XXXXX	XXXXX	XXXXX	XXXXX		

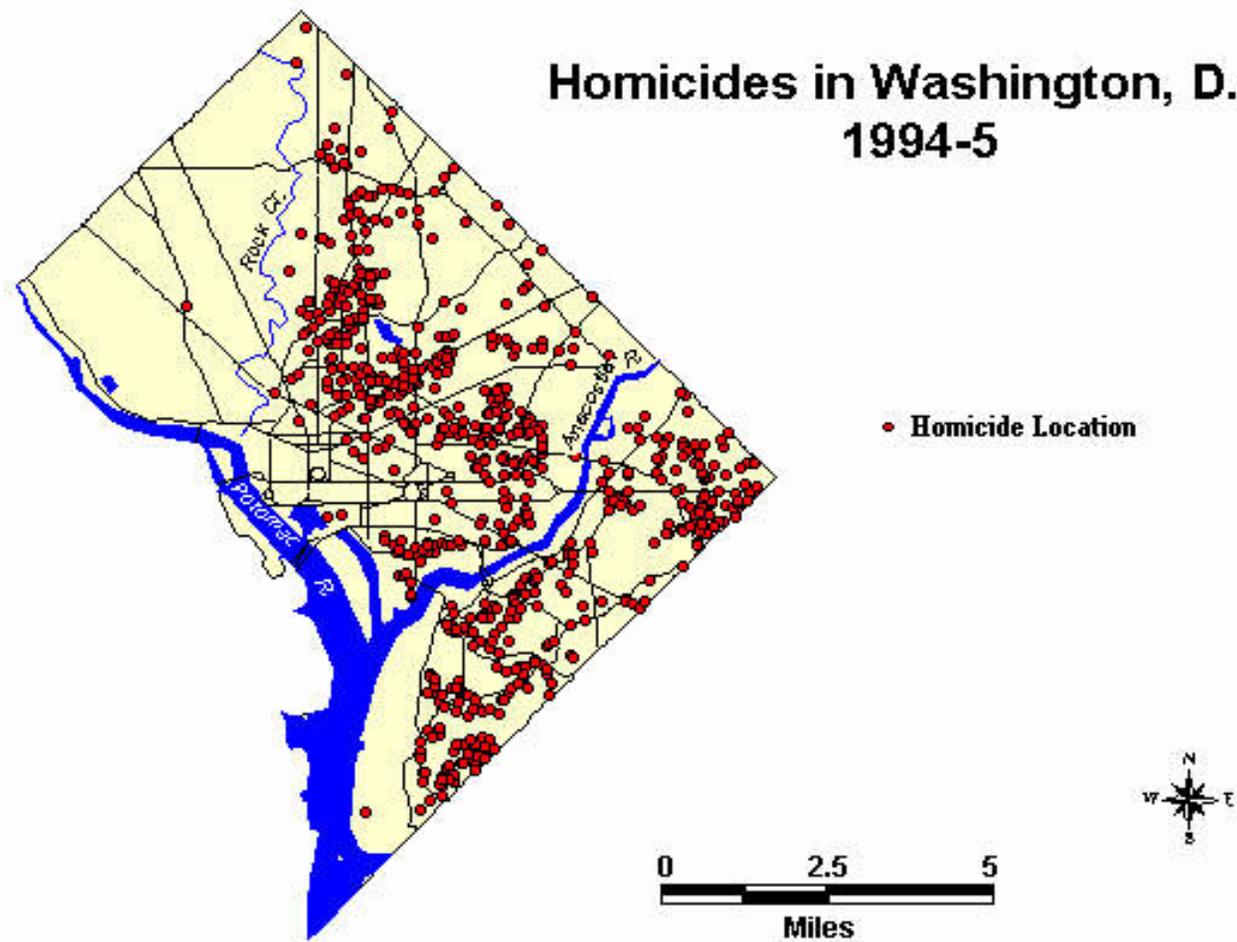
Mapping software that links information about where things are with information about what things are like

An Analytical Tool for Conducting:

- **Temporal Analysis (Time/Date)**
- **Spatial Analysis (Location/Patterns)**
- **Geographic Deployment**

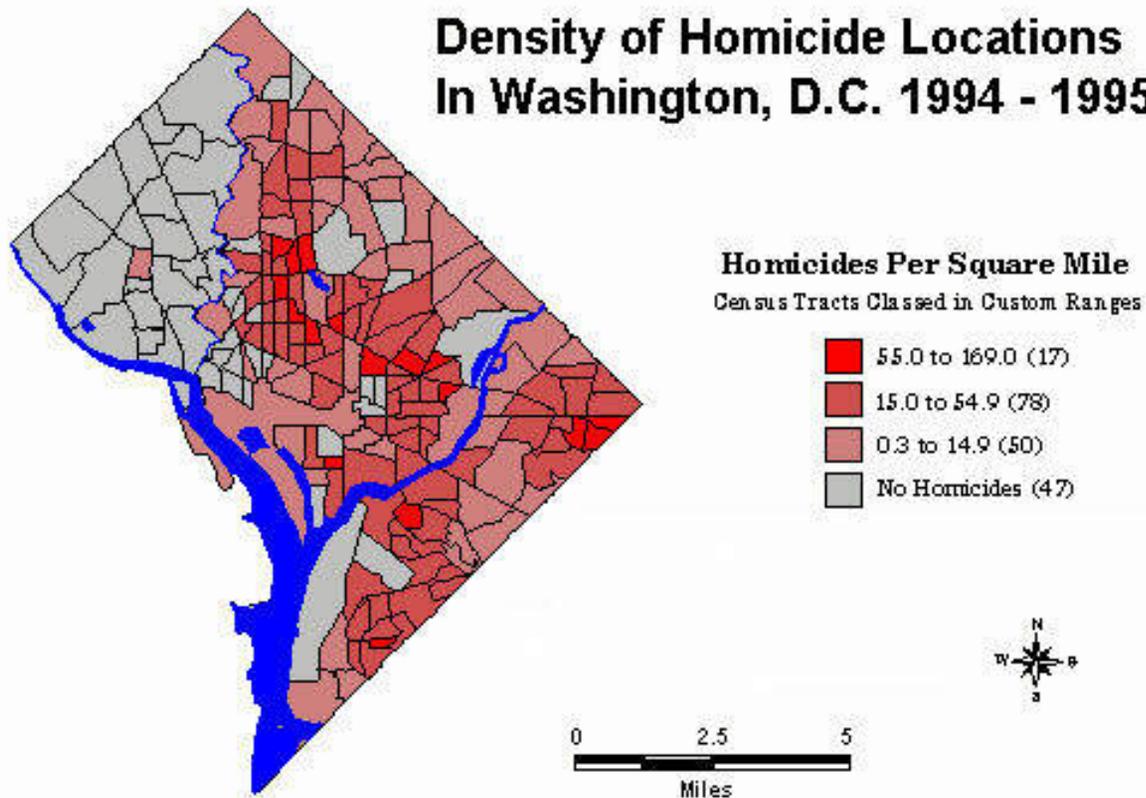


Homicides in Washington, D.C. 1994-5



Source: Washington Metropolitan Police Department / Author: Dan Sadler

Density of Homicide Locations In Washington, D.C. 1994 - 1995



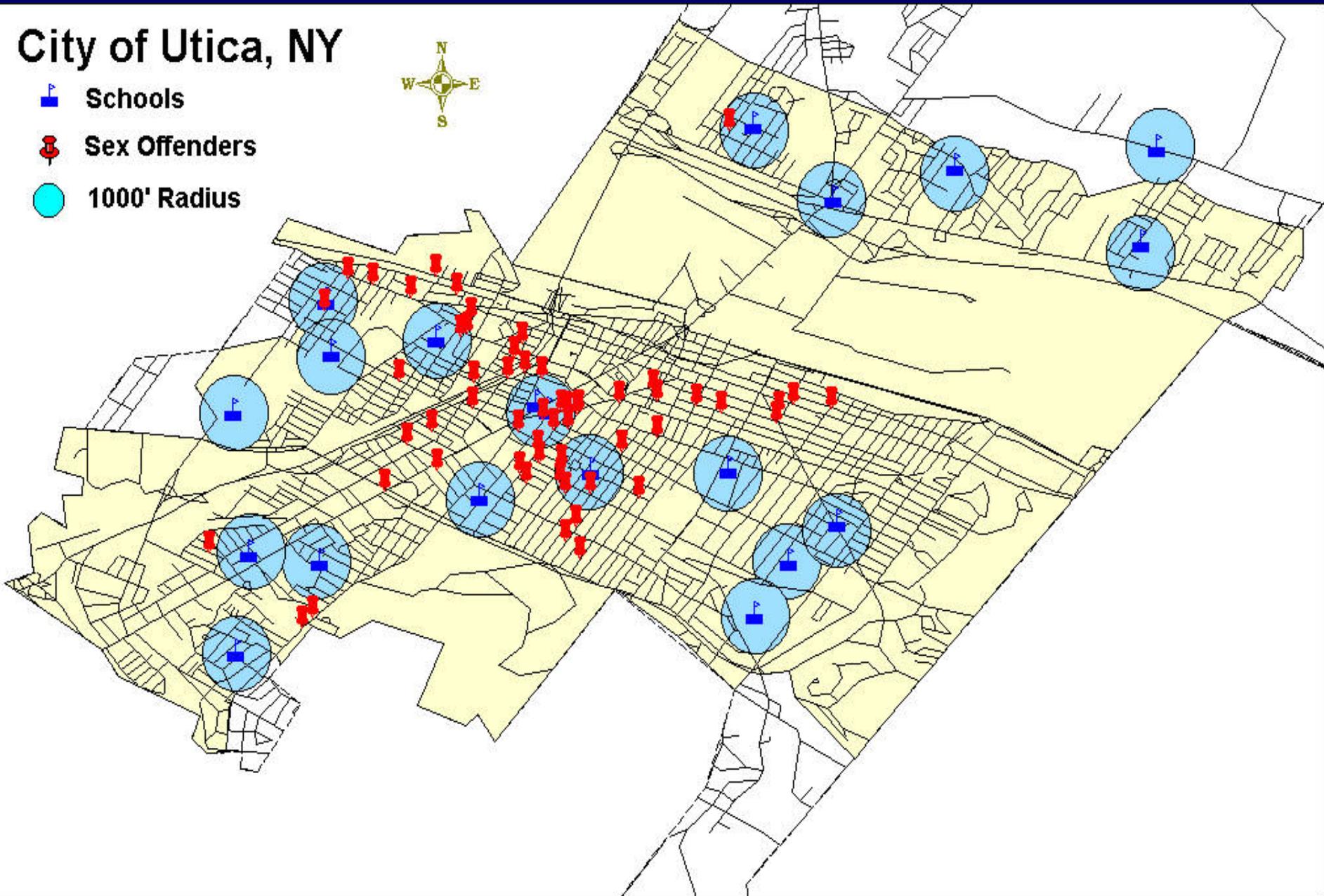
Sources: Washington Metropolitan Police Department; 1990 Census of Population and Housing / Author: Dan Sadler

Buffering (Radius Analysis)

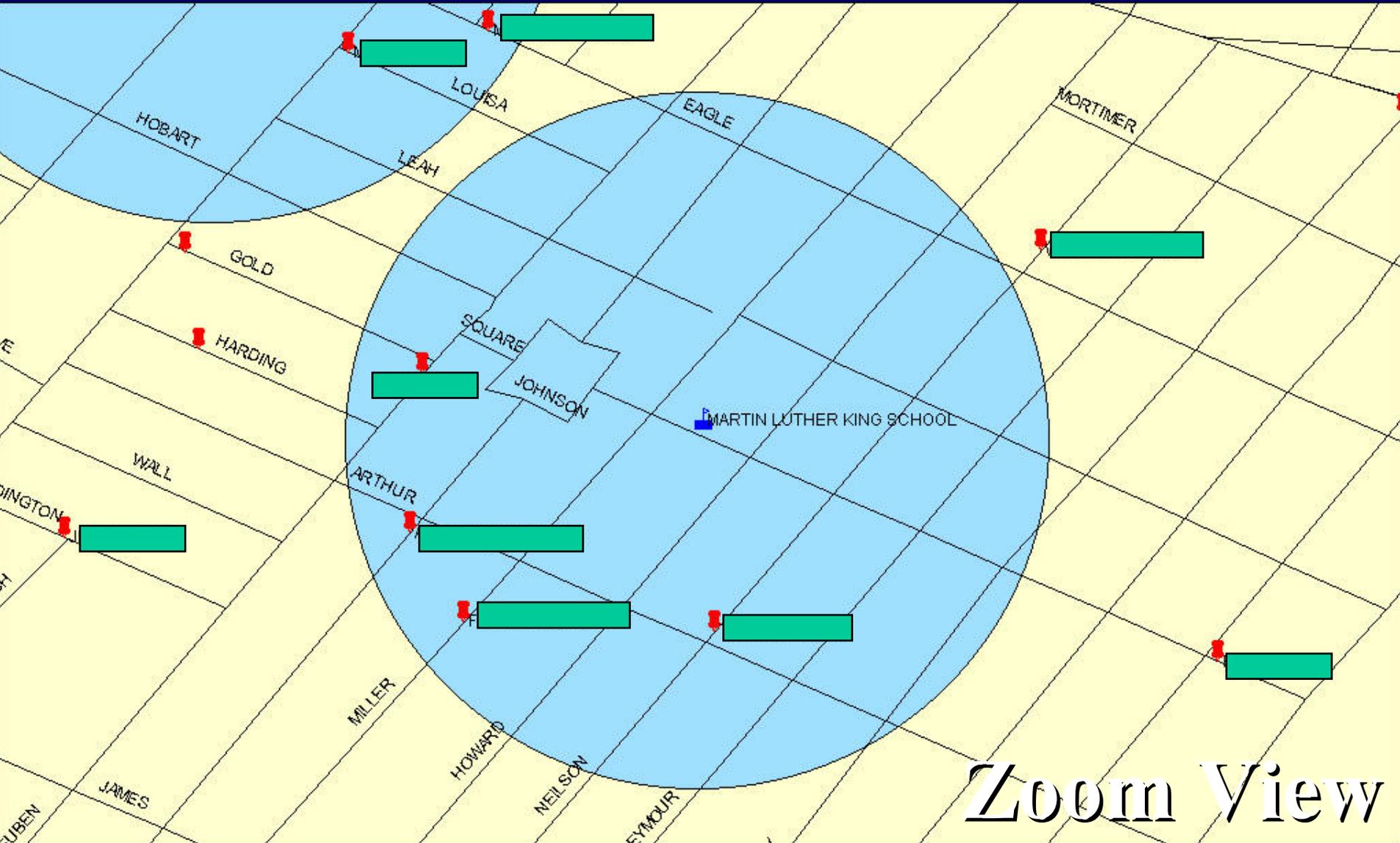
City of Utica, NY



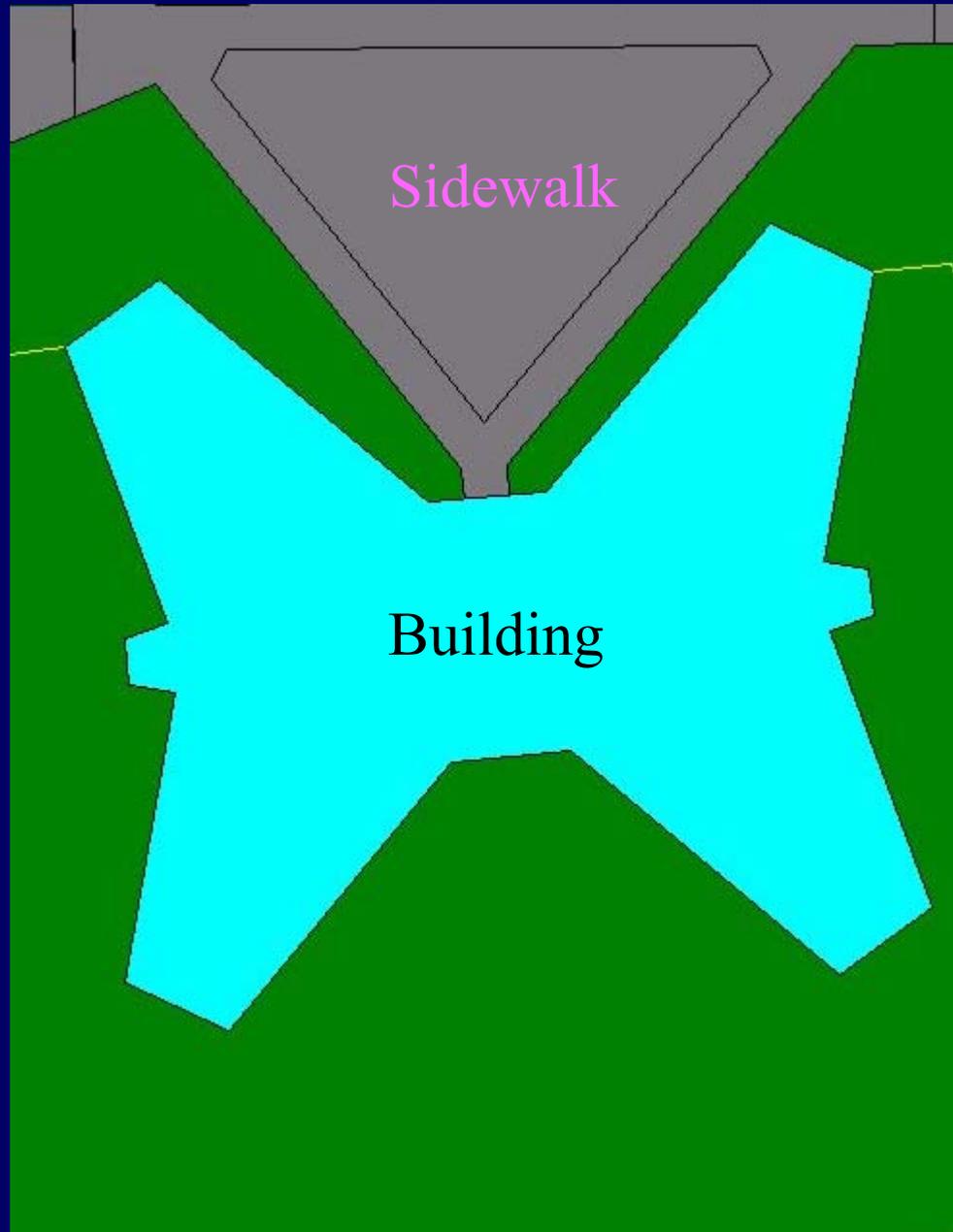
-  Schools
-  Sex Offenders
-  1000' Radius



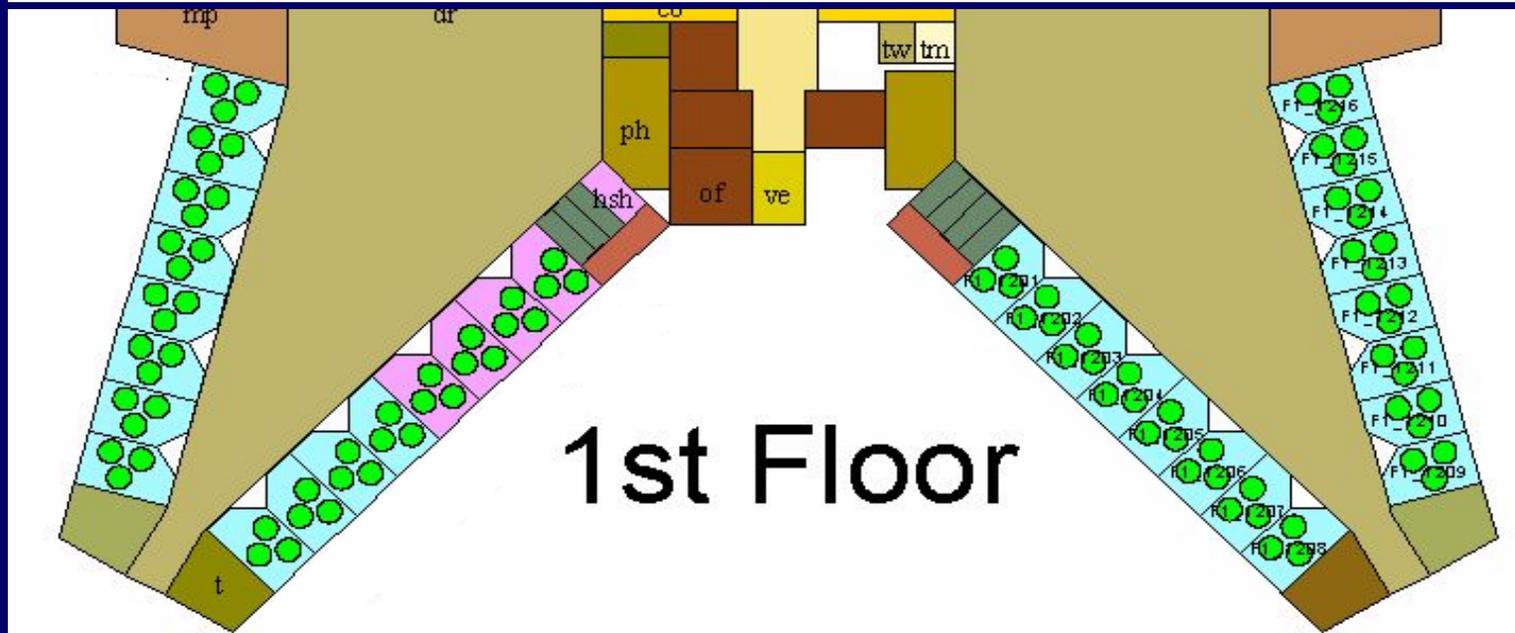
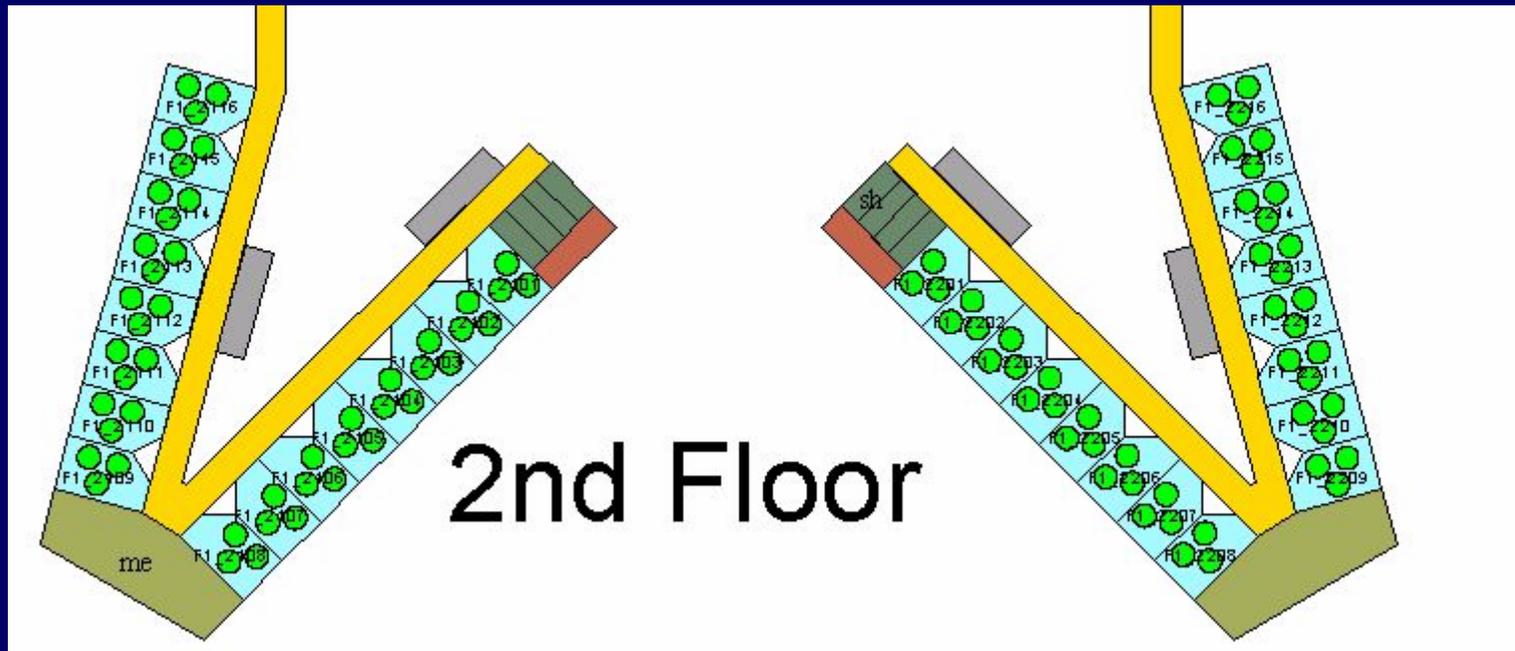
Investigative Leads



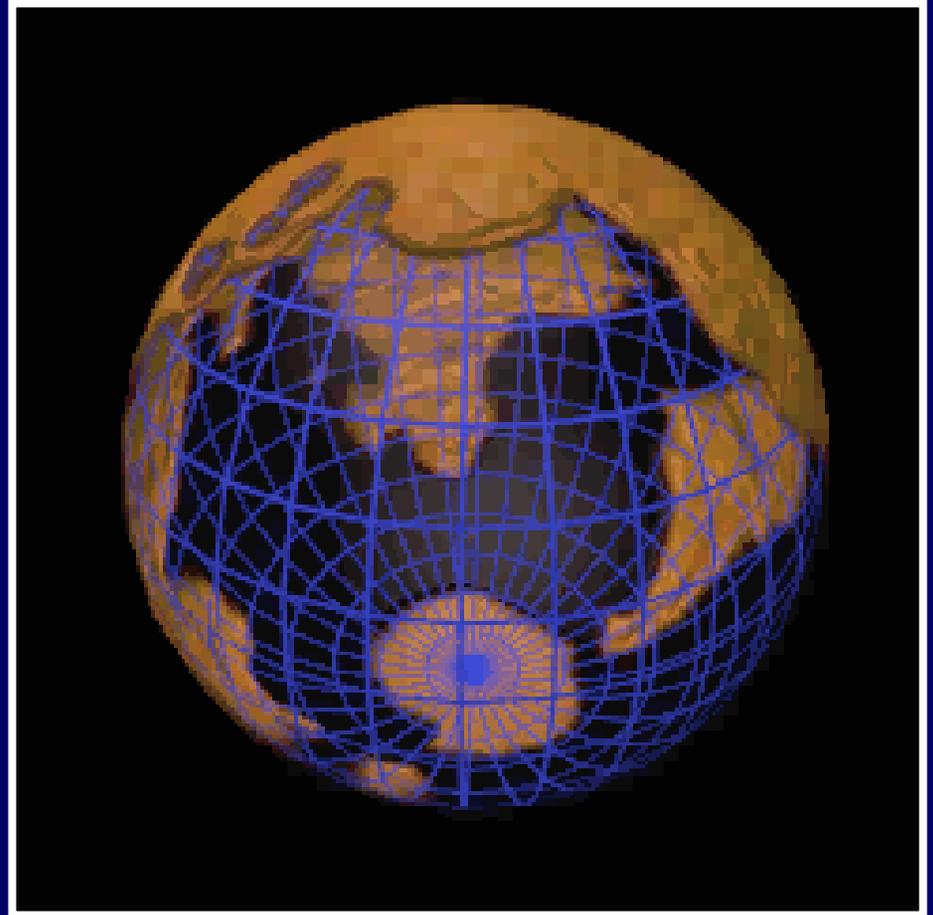
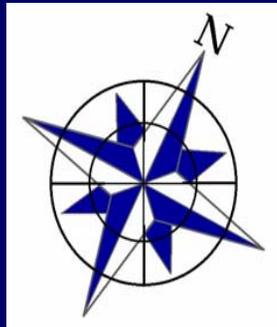
Building Overview



Building Layers



Geographic Profiling





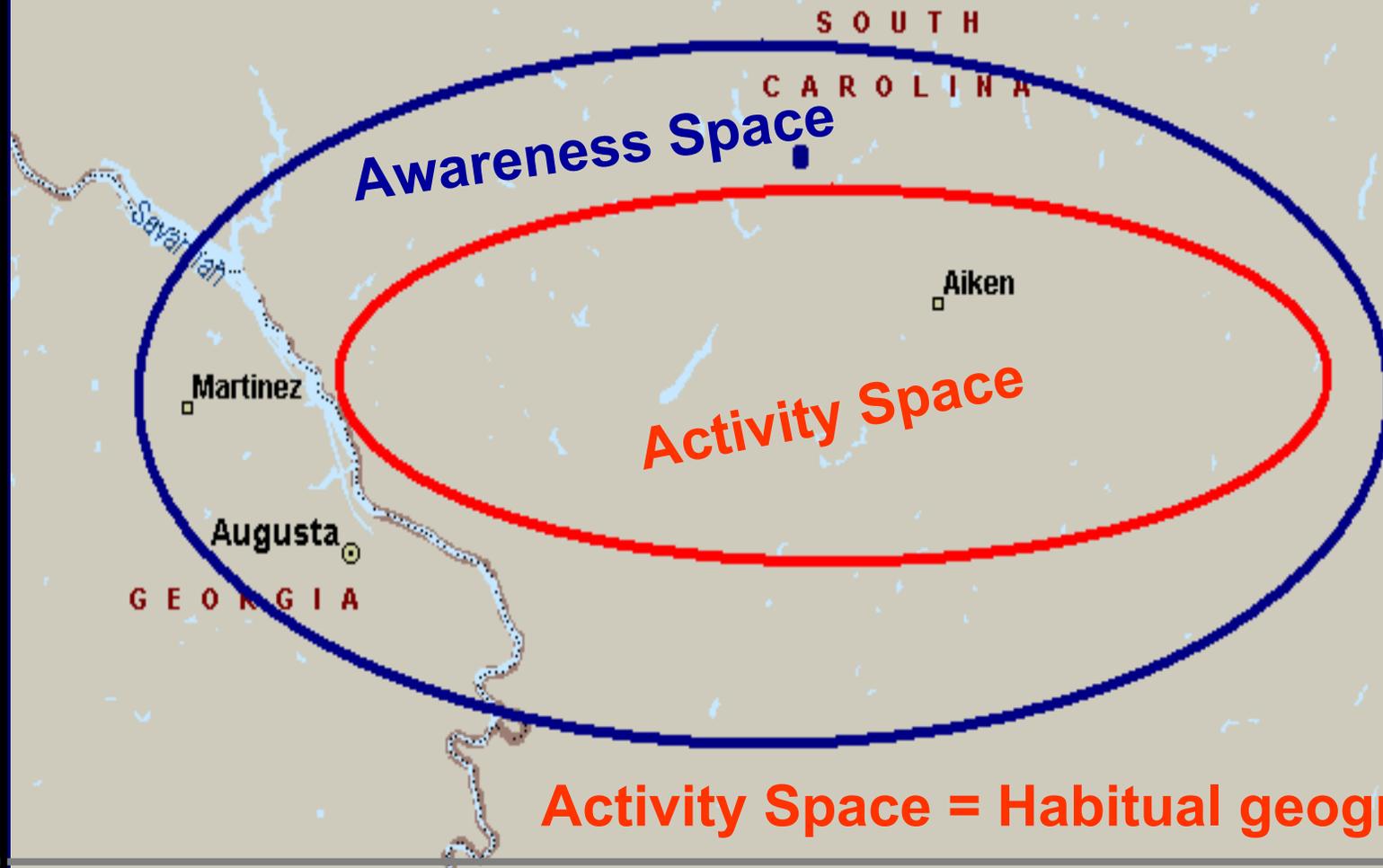
Geographic Profiling:

A methodology with corresponding technology that leads to a prediction of the most probable area of offender anchor point based on the offenders hunting pattern and target selection.

A geographic profile is based on probabilities, not certainties and for this reason and should not take precedence over reliable investigative and forensic conclusions.

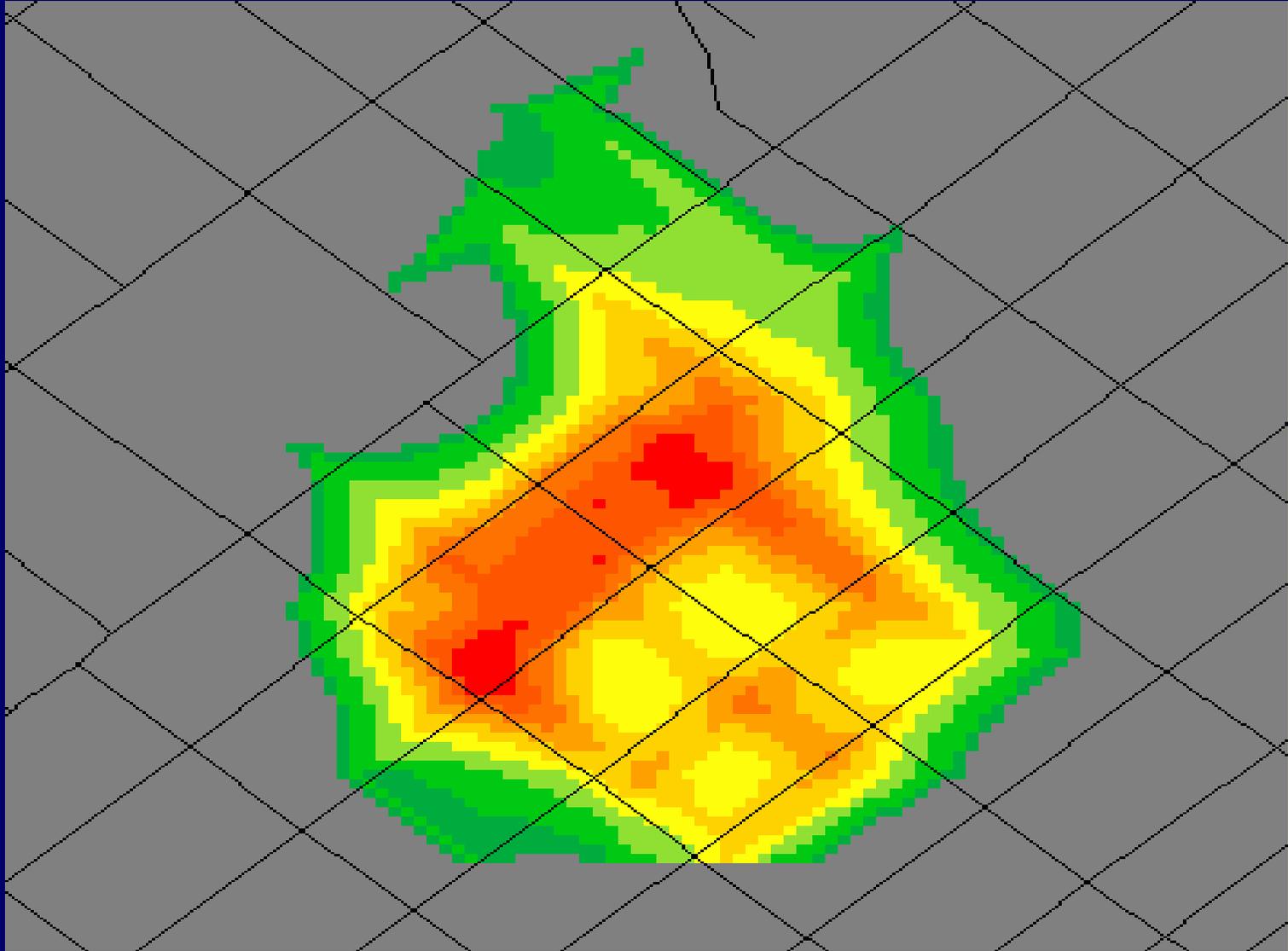
A geographic profile is an investigative tool and is designed to be used as part of the overall investigative effort in the search for the unknown offender.

Awareness Space = Minimum level of knowledge

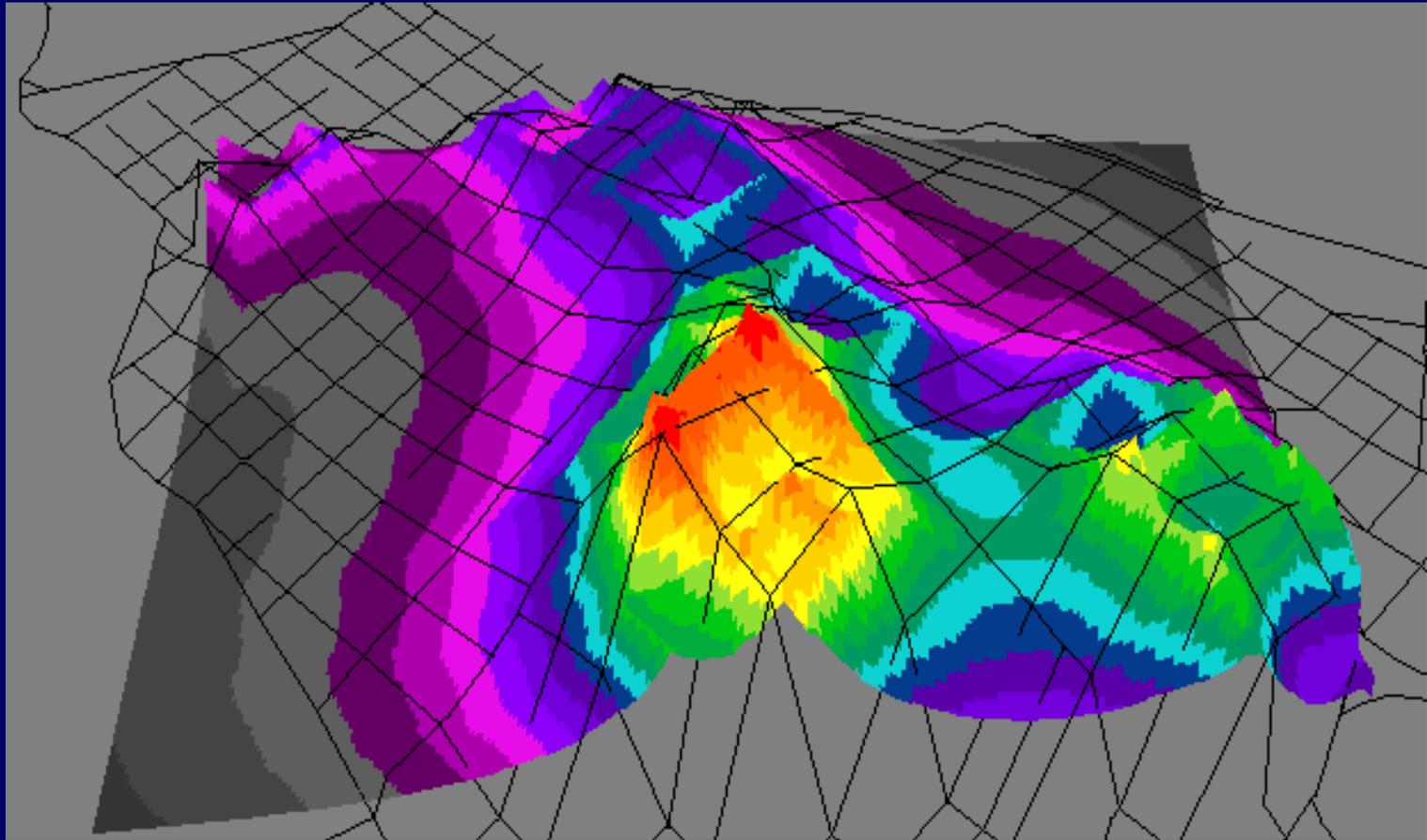


Activity Space = Habitual geography

Area of Highest Probability



Geopprofile 3 – Dimensional Image



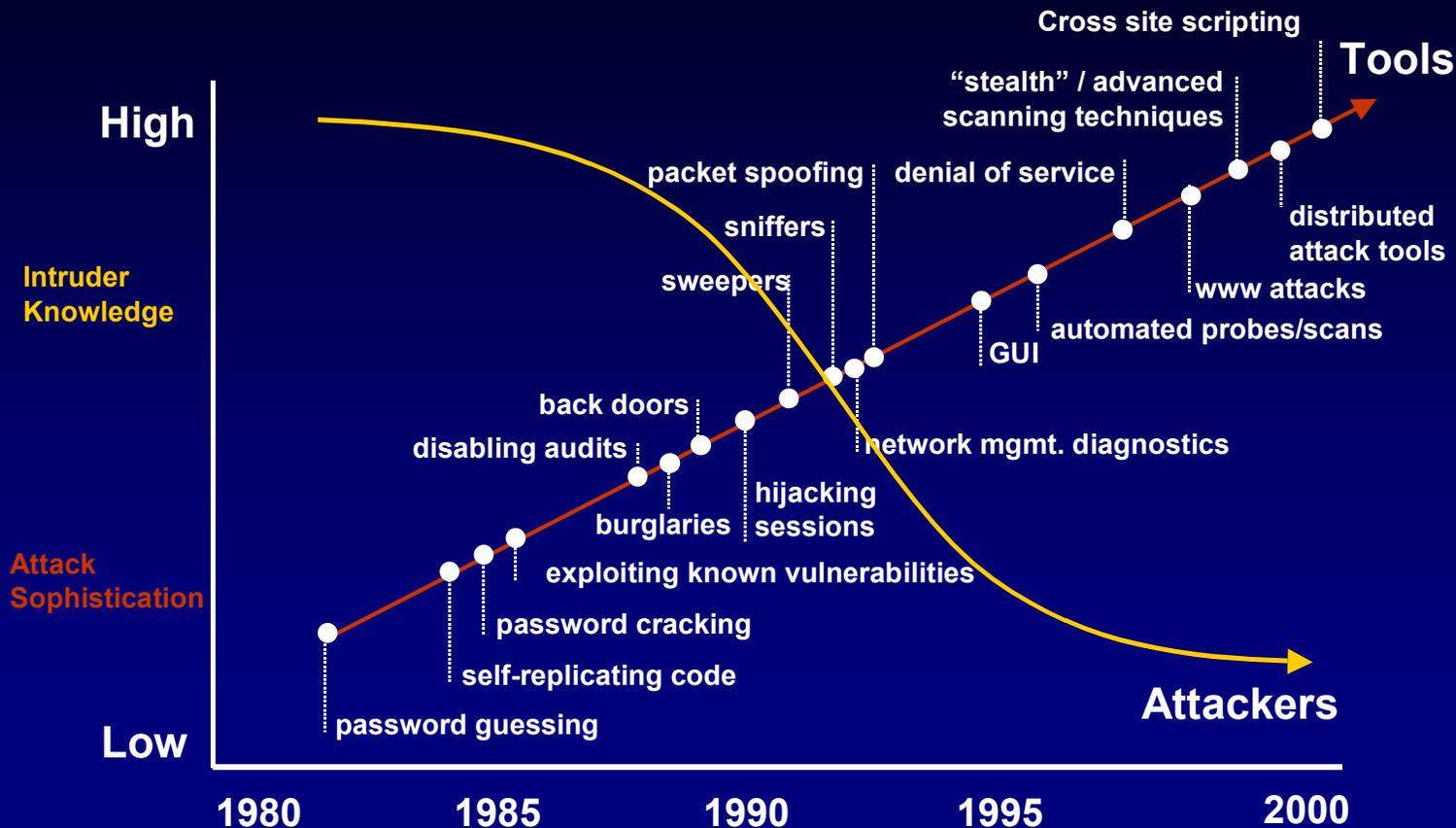


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Computer Network Vulnerability Assessment

Attack Sophistication vs. Intruder Technical Knowledge







Urban Search and Rescue Team

- **For every US&R task force, there are 62 positions. But, the task forces have at the ready more than 130 highly-trained members.**
- **A task force is totally self-sufficient for the first 72 hours of a deployment.**
- **The equipment cache used to support a task force weighs nearly 60,000 pounds and is worth about \$1.4 million. Add the task force members and you can completely fill a military C-141 transport or two C130's.**



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SUNNY 650-850-4300

4

1033 Excess Property Support

- Gas Masks
- Load Bearing Vests
- Kevlar Helmets
- Chemical Protective Gloves
- Work Gloves
- Laptop Computers
- Boots & Rain Gear

\$850,000





Three red lights are visible on the top edge of the trailer door.

HAP
2 boxes
10/10/10

1072

1072

Orange label with illegible text.

2072

HAP
2 boxes
10/10/10

HAP
2 boxes
10/10/10

Red label with illegible text.







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Questions

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1-800-292-4385

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