

# **National Law Enforcement and Corrections Technology Center (NLECTC)-System Overview**

**Briefing for LESO National Annual Conference  
May 1, 2002**

James R. Williams, Program Manager

Office of Science and Technology

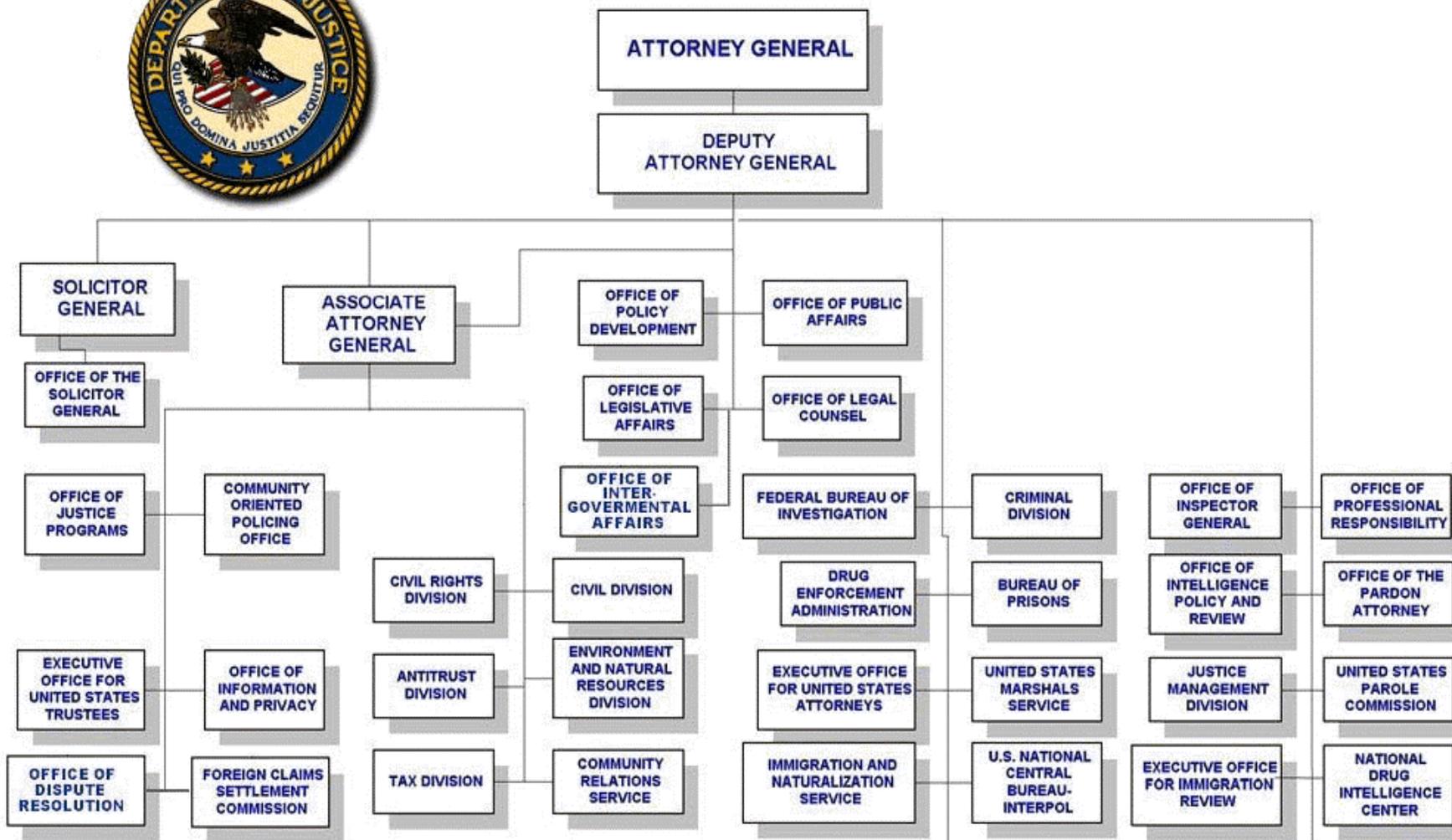
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# Department of Justice Organization



## DEPARTMENT OF JUSTICE



# N · L · E · C · T · C   S · Y · S · T · E · M

## TECHNOLOGY INFORMATION

- 800 NUMBER
- WWW.JUSTNET.ORG
- TECHBEAT
- LISTSERVS
- EQUIPMENT ACQUISITION ASSISTANCE

## TECHNOLOGY INTRODUCTION AND DEMONSTRATION

- MOCK PRISON RIOT
- TECHNOLOGY FAIRS
- CONFERENCE EXHIBITS
- FIELD DEMONSTRATIONS
- LAW ENFORCEMENT ANALYSIS FACILITY

## TEST AND EVALUATION

- STANDARDS-BASED TESTING
- COMPARATIVE EVALUATIONS
- SPECIAL EVALUATIONS

## SCIENCE AND ENGINEERING ADVICE/SUPPORT

- UNIQUE EVIDENCE ANALYSIS
- SYSTEMS ENGINEERING
- COMMUNICATIONS/  
INFORMATION SYSTEMS  
SUPPORT

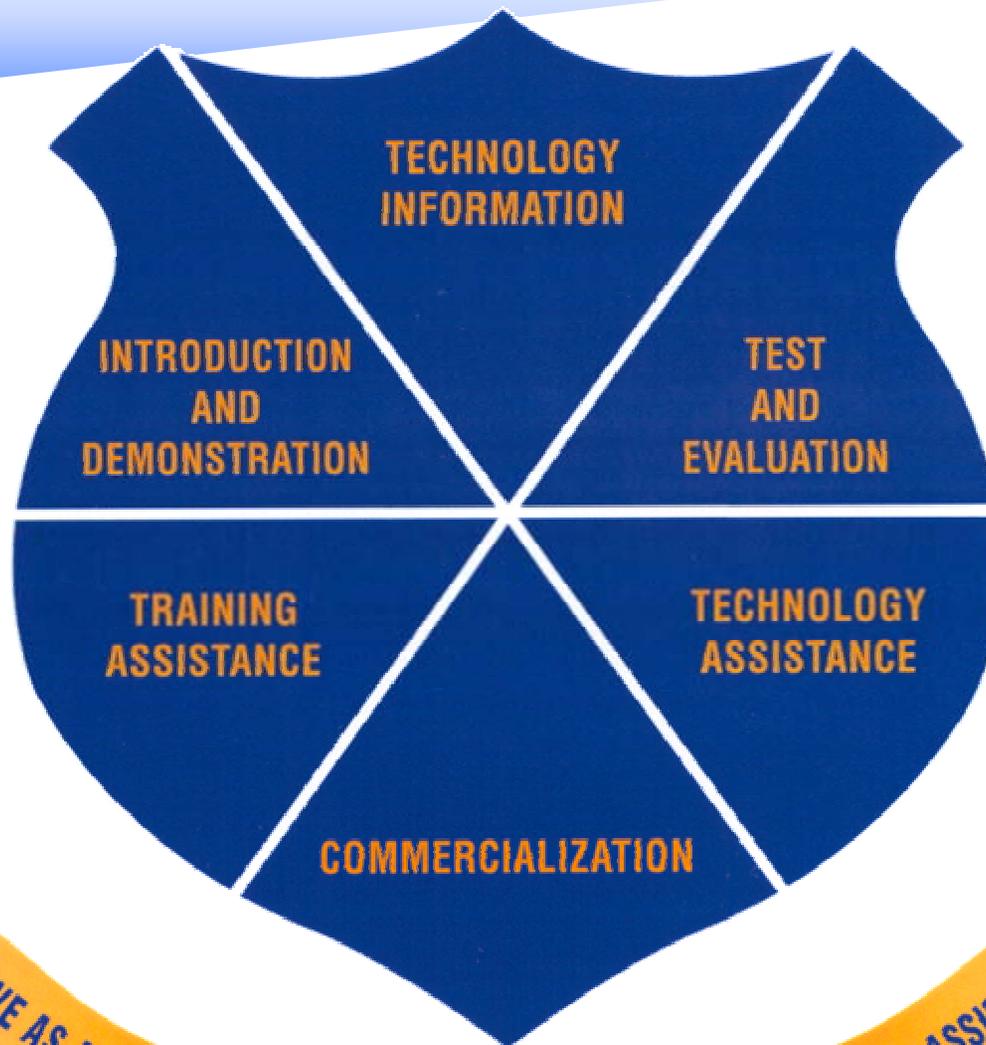
## TRAINING ASSISTANCE (CAPACITY BUILDING)

- OPERATION AMERICA
- CMAP
- CFX 2000
- INTERNET TRAINING
- CHILD SAFETY ON THE INTERNET

## COMMERCIALIZATION

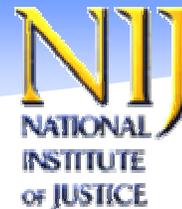
- COMMERCIALIZATION ASSISTANCE
- COMMERCIALIZATION PLANNING WORKSHOP
- ANNUAL COMMERCIALIZATION CONFERENCE
- CRUISECAM™

# N·L·E·C·T·C S·Y·S·T·E·M



SERVE AS AN HONEST BROKER OF TECHNOLOGY INFORMATION AND ASSISTANCE

# Technology Assistance & Capacity Building



National Law Enforcement and Corrections Technology Center

Information Technology

Audio/Video Analysis

EOD

Crime Mapping

Speaker Recognition

Computer Forensic Analysis

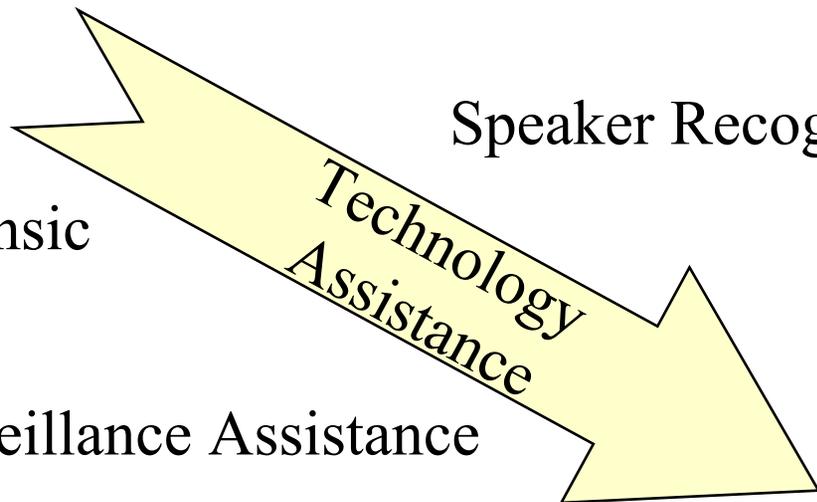
Vulnerability Assessments

Audio/Video Surveillance Assistance

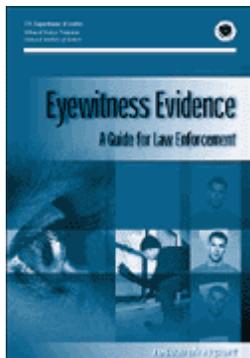
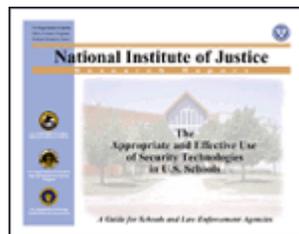
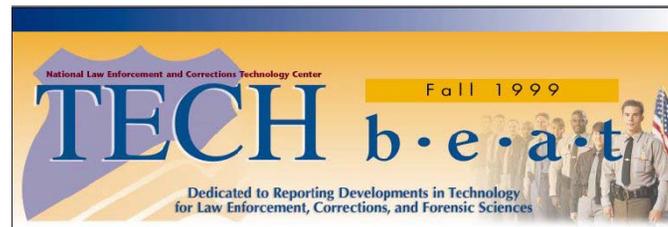
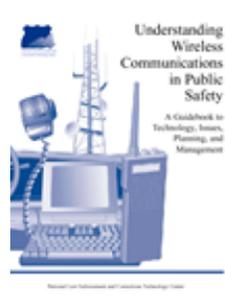
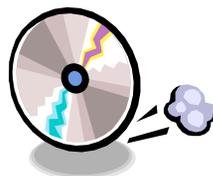
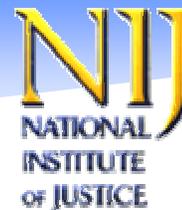
Time Line Analysis

Commercialization

Communications/Interoperability



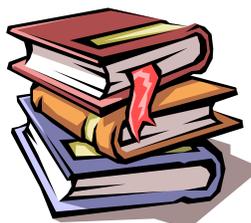
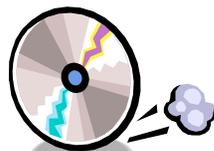
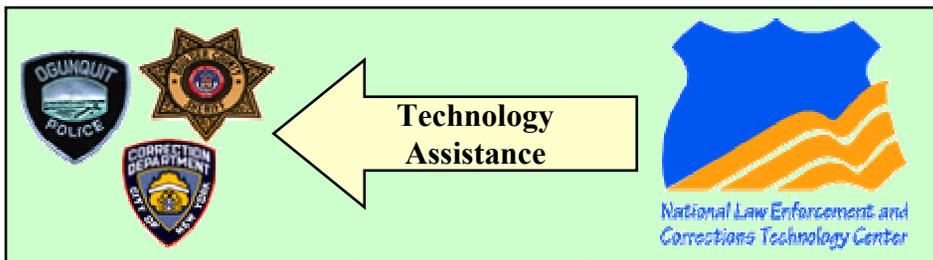
# Technology Assistance & Capacity Building



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



# Technology Assistance & Capacity Building

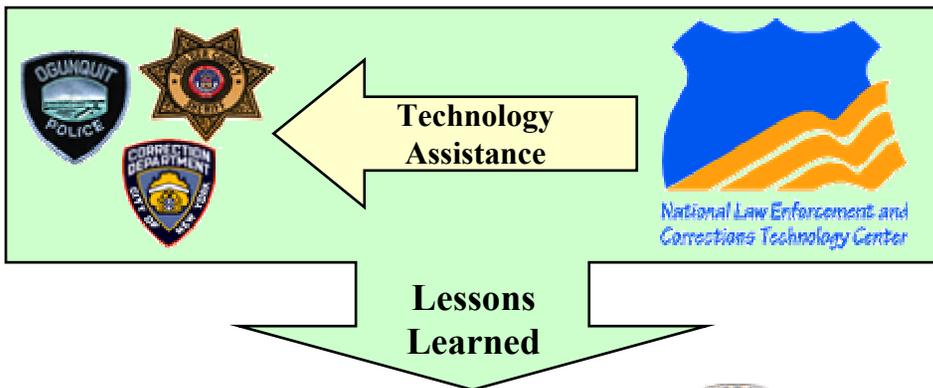


- Based on the assistance provided, information is disseminated in a number of ways

- CD-ROM
- TechBeat and other articles
- NIJ Guides and Reports
- Training/Capacity Building



# Technology Assistance & Capacity Building



Given a national audience by NIJ's various means of distribution, these lessons learned are critical in building national understanding and utilization. Examples include:

- CMAP students take their skills back to their agencies
- Mock Prison Riot attendees are introduced to new tactics



# Why NLECTC?

## Law Enforcement and Corrections:

- Are LOCAL: carried out by more than 18,000 LE agencies, 50 State correctional systems, and thousands of jails
- Have difficulty articulating their technology needs
- Generally lack access to objective and easily understood technology information
- Lack significant funding to research, evaluate, and purchase new technology

# Why NLECTC?

(Cont)

## Most Law Enforcement and Corrections Agencies:

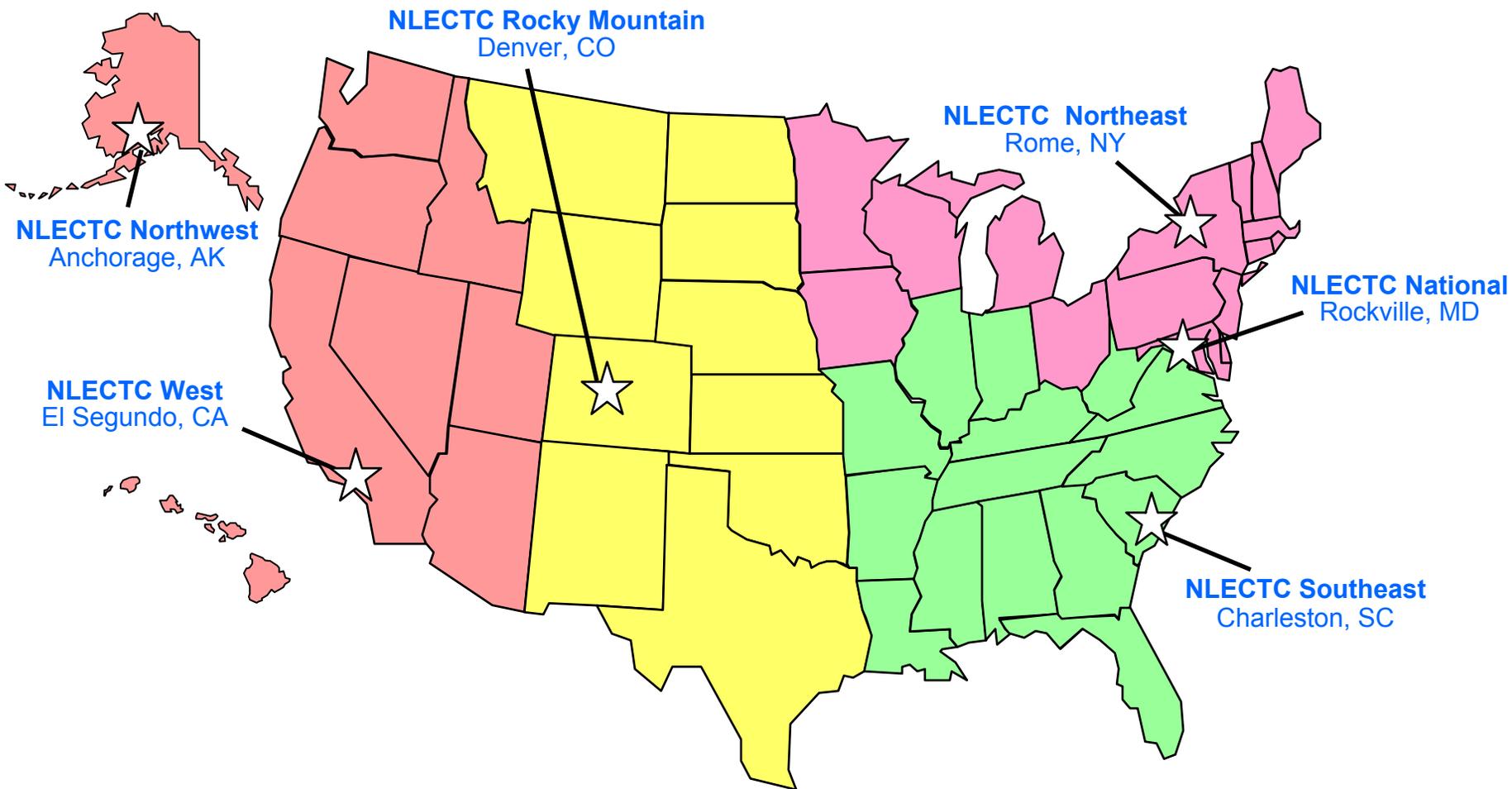
- Don't have staff dedicated to maintaining awareness of new and emerging technologies
- Don't have well established networks to access information on what works in the field ("lessons-learned")
- Don't have adequate training on the latest technologies
- Don't have availability of technical experts and/or sophisticated equipment (e.g., forensic analysis)

# Why NLECTC? (Cont)

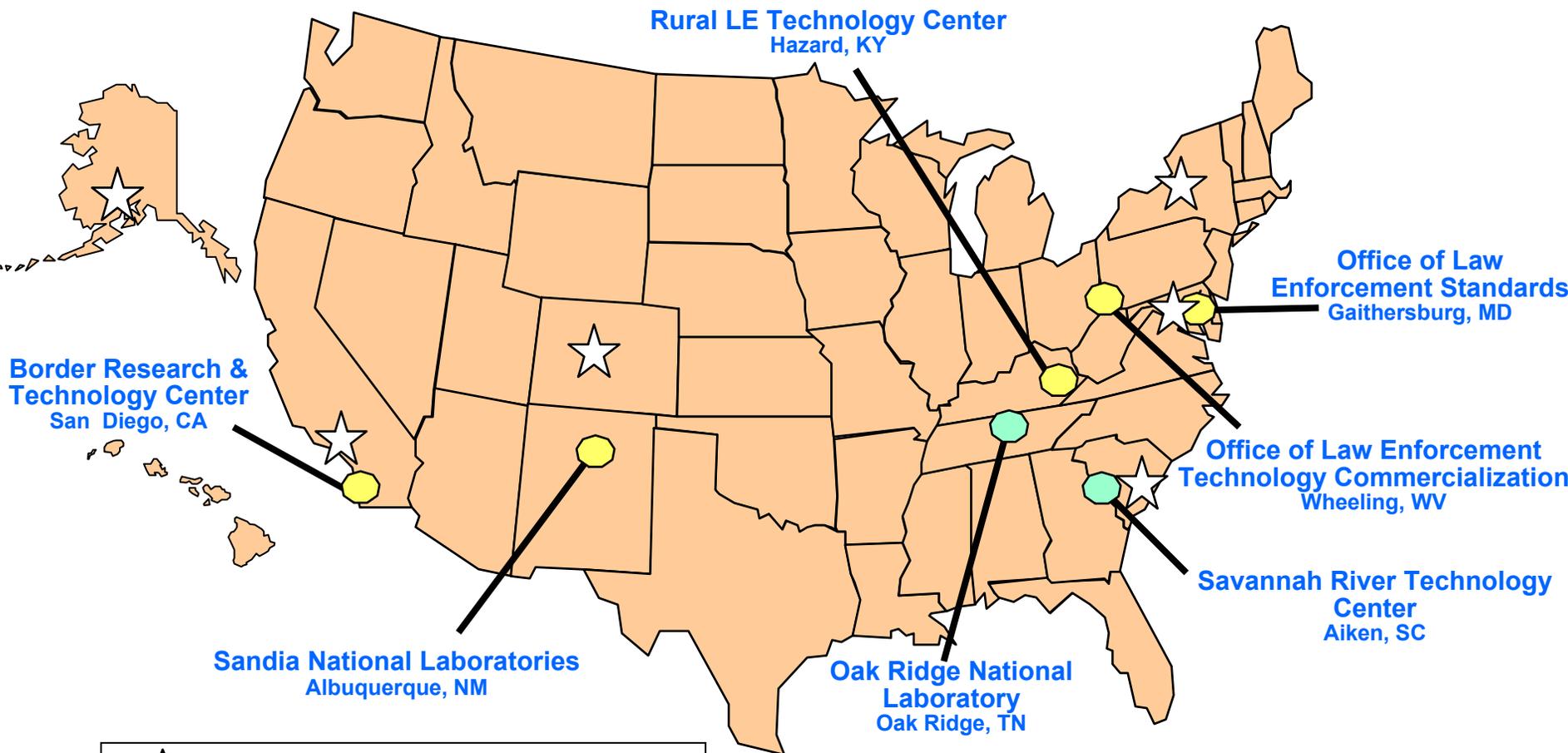
## Many Developers, Inventors, Manufacturers DON'T:

- Fully understand the LEC market
- Understand the commercialization process
  - Market analysis, planning, financing, etc.
- Fully understand LEC requirements
- Know about NIJ's minimum performance standards

# NLECTC Regional Centers



# Specialty Offices and Satellite Test Facilities

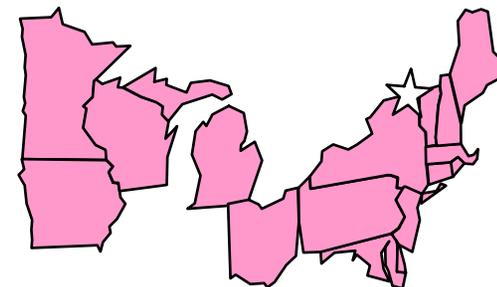


-  - NLECTC Regional Centers
-  - Specialty Offices
-  - Technology Partners

# NLECTC - Northeast



- Concealed weapons detection
- Cybercrime/computer forensics
- Communications interoperability
- Law Enforcement Analysis Facility
  - Audio/video processing
  - Speech enhancement
  - Timeline analysis



### Technology Partners:

- Air Force Research Lab, Information Directorate
- NYSTEC
- ACS Defense, Inc.
- Emergent Information Technologies, Inc.

### On the Web:

[www.nlectc.org/nlectcne/](http://www.nlectc.org/nlectcne/)

### By Phone:

888-338-0584

### E-mail:

[nlectc@rl.af.mil](mailto:nlectc@rl.af.mil)

# NLECTC-NE Activities

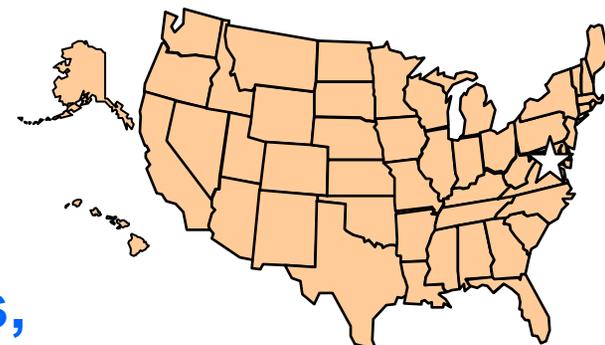


- **Computer Forensics Experiment 2001 (CFX2001)**
- **Evaluating video analysis technology for the FBI**
- **Working with the Northeast Technology Product Assessment Committee (NETPAC)**
- **NYPD School Safety/Concealed Weapons Detection (CWD) project**

# NLECTC - National



- **Equipment testing program**
  - Protective equipment, firearms, vehicles
- **Publishes TechBeat, test reports, bulletins, and user guides**
- **Justice Technology Information Network**
  - [www.nlectc.org](http://www.nlectc.org)
- **Law Enforcement and Corrections Technology Advisory Council**



**Technology Partners:**

- **Aspen Systems Corp.**
- **NIST/OLES**

**On the Web:**

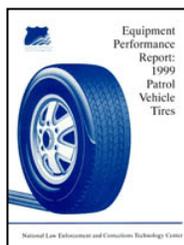
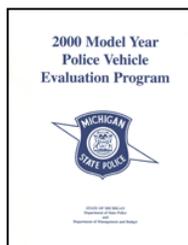
[www.nlectc.org/National](http://www.nlectc.org/National)

**By Phone:**

**800-248-2742**

**E-mail:**

[asknlectc@nlectc.org](mailto:asknlectc@nlectc.org)

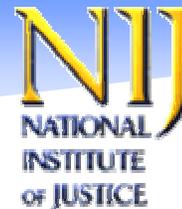


# NLECTC-National Activities

- Responded to more than 2,100 requests for technology information and assistance
- Received more than 1.1 million hits to JUSTNET
- Tested 195 models of ballistic resistant vests, 41 models of stab resistant armor, and 28 models of protective gloves
- Tested 2001 model year patrol vehicles, tires, brake pads, and autoloading pistols
- Distributed more than 110,000 copies of TechBeat and 27,000 copies of other NLECTC publications



# NLECTC - Southeast



- Information technology for law enforcement
- Vulnerability of law enforcement information systems
- Crime Mapping and Analysis Program
- School Safety technology
- Federal property program



### Technology Partners:

- South Carolina Research Authority
- SPAWAR - Charleston
- Savannah River Technology Center
- Oak Ridge Nat'l Lab

### On the Web:

[www.nlectc.org/nlectcse](http://www.nlectc.org/nlectcse)

### By Phone:

800-292-4385

### E-mail:

[nlectc-se@nlectc-se.org](mailto:nlectc-se@nlectc-se.org)

# NLECTC-SE Activities

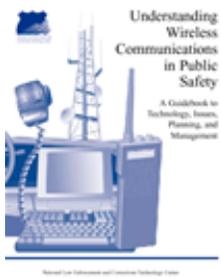
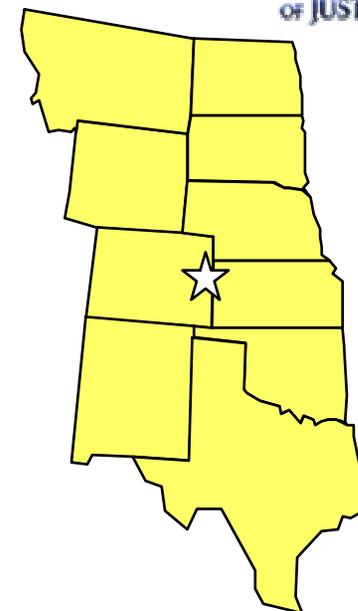


- Lead role in working with Federal Property Program
- Expanded the Crime Mapping and Analysis Program to SE Center. Program includes Geographic Profiling and crime mapping for corrections
- Completed “Guidelines for Implementing Information Technology”
- Continuing field tests on VPN to exchange information between schools, law enforcement, courts, and social service agencies
- Adapting a Navy training tool, LECATS, for law enforcement simulation training exercises

# NLECTC - Rocky Mountain



- **Communications Interoperability**
- **Bomb Identification and Render Safe Technologies**
- **Crime Mapping & Analysis Program**
  - Technical assistance, demonstrations, and training of crime and intelligence analysis and geographic information systems



**Technology Partners:**

- University of Denver
- Denver Research Inst.
- Sandia National Labs

**On the Web:**

[www.nlectc.org/nlectcrm](http://www.nlectc.org/nlectcrm)

**By Phone:**

800-416-8086

**E-mail:**

[nlectc@du.edu](mailto:nlectc@du.edu)

# NLECTC-RM Activities

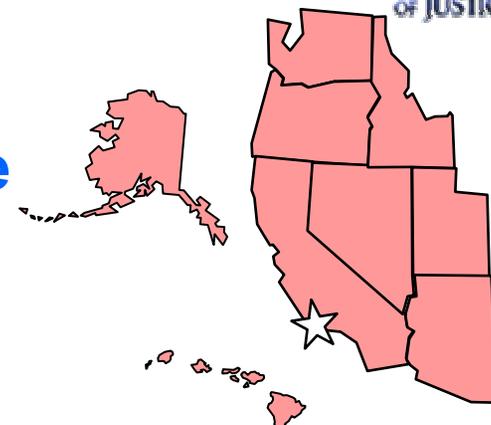


- Located and transferred working parts to outdated radio dispatch equipment for Val Verde County, TX Sheriff's Office
- Provided crime mapping training to more than 300 Students from over 38 States
- Continue support of AGILE and interoperability issues including allocation of additional radio spectrum
- Hosted Innovative Technologies for Community Corrections Conference in Dallas, TX on May 21-22, 2001; planning Third Annual Conference for May 20-22, 2002 in San Diego

# NLECTC - Western Region



- Video and photographic evidence analysis
- Trace evidence analysis
- Computer forensics
- Vehicle stopping technologies
- Critical incident management technologies



**Technology Partner:**

- The Aerospace Corporation

**On the Web:**

[www.nlectc.org/nlectcwr](http://www.nlectc.org/nlectcwr)

**By Phone:**

888-548-1618

**E-mail:**

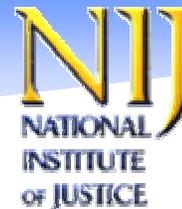
[nlectc@law-west.org](mailto:nlectc@law-west.org)

# NLECTC-WR Activities



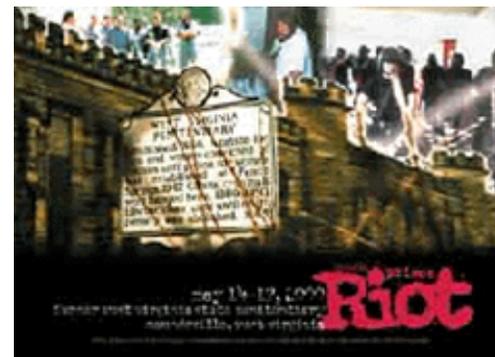
- Evidence analysis assistance on more than 100 cases to date in 2001
- Helped solve a rape case for the Los Angeles Police Department using video enhancement technology available at the center's host organization
- Assisted the California Highway Patrol in a double-fatality accident utilizing high powered optical microscopes and a scanning electron microscope
- 40 surplus computers from the host organization given to Native American policing agencies in Alaska

# Office of Law Enforcement Technology Commercialization (OLETC)



- Identification and commercialization of innovative technologies based on LEC requirements
- Commercialization Planning Workshops
- National Commercialization Conference
- Showcase of corrections technologies at the annual Mock Prison Riot

**On the Web:**  
[www.oletc.org](http://www.oletc.org)  
**By Phone:**  
888-306-5382



# OLETC Commercialization Efforts

- Assisted in 107 technology commercializations, to date
- Mock Prison Riot team participation is filled at double previous year's capacity
- Noted technologies commercialized:
  - CruiseCam™
  - Tranzport Hood™
  - Gimble Glove™
  - EyeCheck™
  - Code-3 Squeeze™



# Border Research & Technology Center (BRTC)



- Border Crossing and Interdiction
- Contraband Detection
- Communications Interoperability
- Night Vision and Surveillance
- Support and coordinate activities:
  - INS, USBP, U.S. Customs
  - DoD Counterdrug Program
  - White House ONDCP



**Technology Partners:**

- Sandia Nat'l Labs
- SPAWAR - San Diego

**On the Web:**

[www.nlectc.org/brtc](http://www.nlectc.org/brtc)

**By Phone:**

888-656-BRTC

# BRTC Activities

- 
- BORTAC awareness video completed
  - Enhanced surveillance capability at El Paso, TX PD
  - Assisted the Sheriff's Association of Texas with a statewide communications system feasibility study
  - Hosted "Technology, Resource Assistance and Investigative Strategies for Tribal and Rural Law Enforcement" at the request of the U.S. Attorney, New Mexico District



# Rural Law Enforcement Technology Center (RULETC)



- Establish a Solutions Center to obtain objective technology information and assistance
- Establish a Technology Mentoring Program to exchange information about lessons learned
- Help identify rural law enforcement technology needs

**Host Organization:**

- Eastern Kentucky Univ.

# NLECTC-Northwest



- Equipment performance evaluation in adverse conditions
- Performance evaluation of safety and survival equipment
- Communication systems to reduce travel and transport requirements
- Distance learning and training
- Evaluation, expansion and improved operation of emergency communications centers

**Host Organization:**

- Chenega Technology Services Corporation