

BJA NTTAC Justice Community Webinar: Crime Analysis

May 2, 2017



BJA NTTAC JUSTICE COMMUNITY WEBINAR AGENDA

Time	Agenda Item
1:00 p.m. – 1:05 p.m.	Introduction <i>Rebecca Rose, Bureau of Justice Assistance (BJA) Senior Policy Advisor & BJA National Training and Technical Assistance Center (NTTAC) Director</i>
1:05 p.m. – 1:40 p.m.	Enhancing Crime Analytics: An Overview of the Nationwide Crime Analysis Capability Building Project <i>Jamie Roush, CRH Crime Analysis Consulting Partner</i> <i>Rachel Santos, Ph.D., Radford University Department of Criminal Justice Professor</i>
1:40 p.m. – 1:55 p.m.	Questions and Answers
1:55 p.m. – 2:00 p.m.	Resources and Closing <i>Rebecca Rose, BJA Senior Policy Advisor & BJA NTTAC Director</i>

BJA CRIME ANALYSIS INITIATIVES

BJA NTTAC Crime Analysis on Demand

Experts available to provide high-quality, on-demand technical assistance services that address analytical gaps and needs for crime analysts and law enforcement personnel.

Crime Analysis for Chief Executives

Training for agency teams, including executives, commanders, and analysts, to identify how to support actionable analysis within their own departments and use that analysis to drive operations.

Building a Nationwide Crime Analysis Capacity

Leveraging best practices and lessons learned from Crime Analysis Centers; support to three pilot sites.

Enhancing Crime Analytics: An Overview of the Nationwide Crime Analysis Capability Building Project



BJA
Bureau of Justice Assistance
U.S. Department of Justice

Project Objectives

- Crime Analysis Capabilities Toolkit
- Advance the crime analysis capacity
- Identify promising practices and technology solutions
- Three project sites to help develop the toolkit

Pilot Project Selections

- Project sites:
 - Tempe, Arizona Police Department: Midsize agency
 - Charlotte-Mecklenburg, North Carolina Police Department: Real Time Crime Center (RTCC)
 - Northern Ohio Violent Crime Consortium (NOVCC): Regional partnership

Tempe Police Department

- Crime analysis data warehouse and spatial data engine
- Prolific offender database with activity space features
- Example products and databases
- Suggestions for crime analysis metrics

Prolific Offender Tracking System

Repeat Offender Prioritization and Tracking

Offender
Management

QUIT

Step 1: Set Weights for Offenses and Roles

Offense Weights			
Offense	Weight	ucr	
HOMICIDE	10	0901	C
DRIVE BY SHOOTING	9	1314	1
HOMICIDE-NEGLIGENT	9	0910	C
MANSLAUGHTER	9	0910	1
SEXUAL ASSAULT	9	1199	C
ARSON-STRUCTURE	8	2099	1
KIDNAPPING	8	1099	C
ROBBERY-ARMED	8	1299	C
ROBBERY-STRONG ARM	8	1206	C
TERRORISM	8	1602	C
AGGRAVATED ASSAULT	7	1315	C
AGGRAVATED ASSAULT DV	7	1315	1
AGGRAVATED ASSAULT-POLICE C	7	1311	C
ARSON-MOBILE	7	2099	C
ARSON-OTHER PROPERTY	7	2099	2
BURGLARY FORCE	7	2202	C
BURGLARY NO FORCE	7	2204	C
UNLAWFUL IMPRISONMENT	7	1099	1
ASSAULT	6	1313	C
CHILD PROSTITUTION	6	4004	1

Role Weights		
Role	Weight	Include
ARRESTEE	1	<input checked="" type="checkbox"/>
JUV-ARRESTE	1	<input checked="" type="checkbox"/>
SUSPECT	0.9	<input checked="" type="checkbox"/>
JUV-SUSPECT	0.9	<input checked="" type="checkbox"/>
SUMMONS	0.9	<input checked="" type="checkbox"/>
JUV-SUMMONS	0.9	<input checked="" type="checkbox"/>
VICTIM/ARRE	0.8	<input checked="" type="checkbox"/>
JUV-VIC/ARR	0.8	<input checked="" type="checkbox"/>
JUV-VIC/SUS	0.7	<input checked="" type="checkbox"/>
VICTIM/SUSP	0.7	<input checked="" type="checkbox"/>
JUV-SUBJECT	0.5	<input checked="" type="checkbox"/>
JUV-INVOLVE	0.5	<input checked="" type="checkbox"/>
INVOLVED/IL	0.5	<input checked="" type="checkbox"/>
SUBJECT	0.5	<input checked="" type="checkbox"/>
RUNAWAY	0.4	<input checked="" type="checkbox"/>

☐ Include Categorization Weights

Pull Latest RMS
Data

Compute and
Store Values

Step 2: Filter and Search

Only these types of offenses

Only those with activity since 01/01/2013

Only consider incidents since 01/01/2013

Exclude Incapacitated ☒

Offender age between:

0 and 99

Only offenders with at least one...

...in their histories

Identify Top People

Clear

Tempe Police prototype version 0.70, 16 July 2015

Questions or feedback to Noah Fritz or Christopher Bruce (cwbruce@gmail.com)

Serious Offender Prioritization and Tracking

[Offender Search](#)[QUIT](#)

Filter by Name, Address, or Notes:

[Filter](#)[See All](#)

PersonID DOB
Last SSN
First Middle

StNo Street Unit
City State
Add. History in: ☐ Cambridge ☐ Everett ☐ Somerville

Incarceration Date Location Rel.

[Related Incidents](#) [Address History](#) [Offender Notes](#) [Response Notes](#) [Tweaking](#)

Categorizations

General Notes

Street person accused numerous times of physically accosting passers-by and demanding cash. Considered "obnoxious" by fellow homeless people, frequent victim of assaults himself. Suspected schizophrenic, stays at the YMCA with panhandled money.

Photo:



Status: Incapacitated

Related Incidents

IncNum	RecordType	Date	Agency	Location	Role	Offense
13843	Incident	11/07/2013	CAM-PD		Suspect	Other Theft
12188	Incident	09/17/2013	CAM-PD		Suspect	Vandalism
12188	Incident	09/17/2013	CAM-PD		Suspect	Vandalism
11885	Incident	08/15/2013	CAM-PD		Defendant	Other
11885	Incident	08/15/2013	CAM-PD		Defendant	Other
11507	Incident	07/05/2013	CAM-PD		Suspect	Other Theft
11507	Incident	07/05/2013	CAM-PD		Suspect	Other Theft
11309	Incident	06/14/2013	CAM-PD		Involved	Simple Assault
11309	Incident	06/14/2013	CAM-PD		Involved	Simple Assault
11096	Incident	05/24/2013	CAM-PD		Victim	Simple Assault
11096	Incident	05/24/2013	CAM-PD		Victim	Simple Assault
10790	Incident	04/26/2013	CAM-PD		Defendant	Simple Assault

Record: 14 1 of 33 No Filter Search

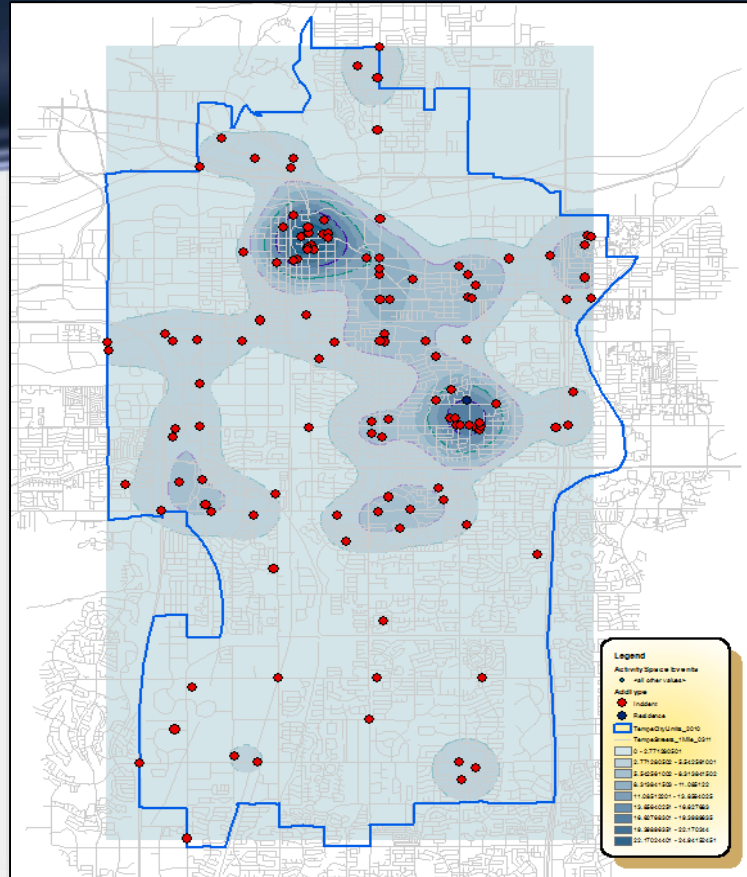
High-Frequency Contact List

TopOffender: Database (Access 2007 - 2010) - Microsoft Access

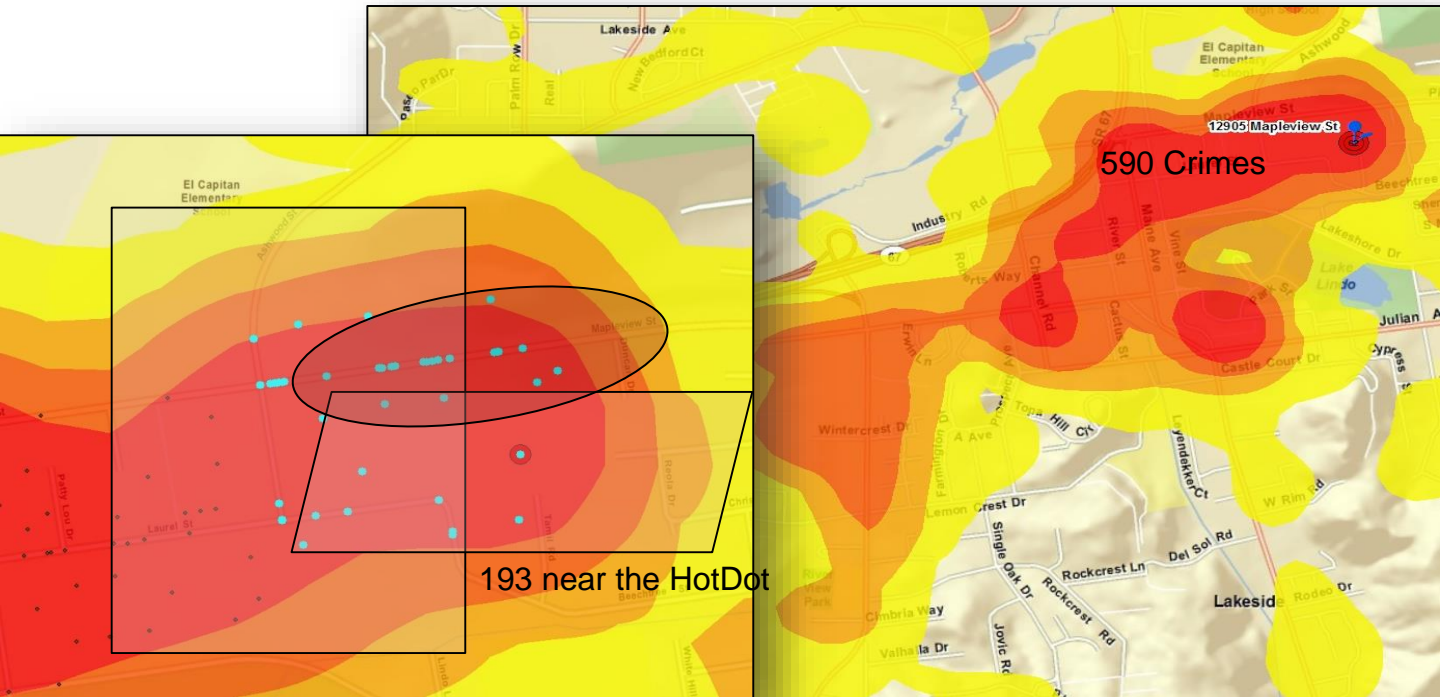
PersonID	Name	DOB	Address	OffWeights	CatWeights	Total	Status
5011691		10/11/1976	1935 E APACHE BLVD #26	68	0	68	
1549		12/13/1979	1415 E APACHE BLVD #220	64	0	64	
5047170		06/18/1984	1225 W MAIN ST #101	62	0	62	
12505		11/23/1984	310 S ALLEN ST #2	58	0	58	
5040088		11/12/1966	508 W COLGATE DR #	48	0	48	
3309		12/31/1985	714 S MYRTLE AVE #	45	0	45	
5036082		07/27/1969	232 S 12TH AVE #	43	0	43	
5055625		01/02/1981	1925 E HAYDEN LN #211	42	0	42	
261		12/24/1985	1415 E APACHE BLVD #220	42	0	42	
5052731		02/14/1994	2022 E DUKE DR #	40	0	40	
5052188		12/27/1986	230 S 12TH AVE #	40	0	40	
7345		01/27/1969	3544 E MONICA AVE #	39	0	39	
5023603		04/29/1970	424 W BROADWAY RD #	39	0	39	
5033132		02/03/1992	5923 W WOOD ST #	38	0	38	
5059039		08/04/1989	1218 S SMITH RD #A	38	0	38	
9816		03/05/1989	1247 S 96TH ST #215	37	0	37	
5022122		08/27/1985	3904 S POTTER DR #1010	37	0	37	
7302		08/22/1964	#12	36	0	36	
5088414		03/26/1965	1516 S PRICE RD SB #106	35	0	35	
428		12/29/1978	8308 E VISTA DR #120	35	0	35	
6377		01/18/1985	504 E LODGE DR #	24	0	24	

Records: 1 of 24368 | No Filter | Search

Offender John Doe's Activity Space



Overlay of Crime Hot Spot/Victimizations and Activity Space of Selected Offenders



Charlotte-Mecklenburg Police Department

- Understanding of RTCC and crime analysis best practices
- Guidance for creating a successful RTCC along with crime analysis
- Video, policies, technology

Developing an RTCC

- Personnel and staffing considerations (sworn versus civilian; integrate with crime analysis or not)
- Integrating other agencies/functions into a law enforcement RTCC (e.g., public transit)
- Operational hours: 24/7 or “on demand”
- Nature of chain of command and supervisory positions

RTCC Personnel Duties

- Background work and identifying and passing along useful information and evidence (including video) that can support active investigations/cases
- Help investigators navigate the video archives and databases for relevant information
- Prepare reports on the activities of the RTCC
- Learn about how new technology operates and evolves
- Exploring the ever-expanding range of data sources that are routinely available
- Other possible responsibilities might include:
 - Assisting with background investigations for new hires
 - Assisting with preparing warrants
 - Helping outside agencies with requests

Future of RTCC

- Body-worn cameras
- Facial recognition software
- Social media applications
- Integrating external public and private video feeds

Northern Ohio Violent Crime Consortium (NOVCC)

- Crime analysis capabilities assessment survey and process methodology
- Training plan for regional crime analysis
- Guidelines for data to be shared in regional effort
- Example of regional crime analysis products

Northern Ohio Violent Crime Consortium (NOVCC)

- NOVCC was established in October 2007 through a Byrne Criminal Justice Innovation Program grant
- Purpose: promote data-driven decisionmaking and use of evidence-based practices to prevent and/or reduce violent crime in participating law enforcement jurisdictions in the Northern District of Ohio

The NOVCC Operations

- A clearly defined purpose
- Partnership development and maintenance
- Organizational assessments and change plans
- Training and technical assistance
- Data collection and analysis
- Demonstration projects using evidence-based practices
- Information sharing and evaluation

Crime Analysis Readiness Assessment

- Assessed crime analysis capacity of individual agencies
- Structured interview protocol
- One-hour interview or online
- Covers:
 - Administrative and organizational support for crime analysis
 - Data accuracy, completeness, use, format
 - Resources for staff, software, IT/IS capacity, funding

Training Plan for Regional Crime Analysis

- Regional crime analysis program requires an ongoing training program for analysts, command staff, and line officers
- Cost-effective to conduct regionally and enhances the sharing of information and best practices
- Continuous training is necessary to keep members connected to regional issues and goals

Training Plan for Regional Crime Analysis

- **Step One** – Regional Coordination of Training
- **Step Two** – Stratify Training by Audience
- **Step Three** – Yearly Training Assessment
- **Step Four** – Implement Training Plan
 - The “Boot Camp” Model of Training

Crime Analysis Capabilities Toolkit

- Logic models and timeline methodology used by the project sites
- Case studies describing the work done in each site
- Guideline documents, products, databases, and example policies make up the tools

Crime Analysis Capabilities Toolkit Website

Crime Analysis Toolkit Visual Concept Rendering

Conceptual image rendering representing the Crime Analysis Toolkit, illustration based on the Violence Reduction Network's Clearinghouse.

* Description text and appropriate image / iconography may be added.

Resources filterable by crime analysis category.



Crime Analysis Capabilities Toolkit Website

Resources also filterable by *Agency, Regional, or RTCC* grouping, including count of results per subgroup.

* This grouping could be placed in a drawer attached to the left side of the browser window.

Grouping ▼

Agency

☐ Analytical Products (3)

☐ Resources (2)

Regional

☐ Policies (1)

☐ Data (3)

☐ Training (4)

RTCC

☐ Data (2)

☐ Resources (1)


Clear Toolkit Selections

Clear Resource List

Results: 96

Tool: Policies [✕]

Addressing Crime or Disorder in Housing Webinar



To date, many members of the Smart Policing community are experiencing high-c...

Webinar

Crime Analysis Capabilities Toolkit Website

Additional information for each resource is available through the link title.



BJA National Training and Technical Assistance Center

The mission of the Bureau of Justice Assistance (BJA) is to provide leadershi...

Training / Technical Assistance



BJA Project Safe Neighborhoods

Project Safe Neighborhoods provides funding to hire state and local prosecuto...

Training / Technical Assistance

Resource(s) may be selected for inclusion in a personally named toolkit.



Basic and Advanced Crime Prevention Training Course

The Basic Crime Prevention Course is a three-day course that provides an intr...

Training / Technical Assistance



Best Practices for Using Crime Prevention Through Environmental Design in Weed and Seed Sites

This publication chronicles National Crime Prevention Council's Crime Prevent...

Publication

Saved toolkits may be shared and remain available for a given period.

[VIEW TOOLKIT 0 →](#)

Questions?

Thank you for your participation!



RESOURCES

- Crime Analysis on Demand – www.bjatrain.org
- Crime Analysis for Chief Executives, International Association of Directors of Law Enforcement Standards and Training – www.iadlest.org
- Building a Nationwide Crime Analysis Capability, Institute for Intergovernmental Research – www.iir.com

Contact Us:

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