







## **TTA Team Support**

This project was supported by Grant No. 2020-YX-BX-K001 awarded by the Bureau of Justice Assistance. The Bureau of Justice Assistance is a component of the Department of Justice's Office of Justice Programs, which also includes the Bureau of Justice's Statistics, the National Institute of Justice, the Office of Juvenile Justice and Delinquency Prevention, the Office for Victims of Crime, and the SMART Office. Points of view or opinions in this document are those of the author and do not necessarily represent the official position or policies of the U.S. Department of Justice.

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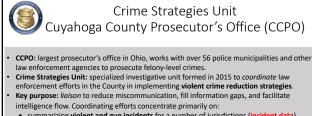


## Learning Objectives

- · Understand the process of identifying prolific offenders through an incident database and social network analyses;
- Develop and implement a standardized, data-driven set of criteria to prioritize investigations and prosecutions; and
- Utilize technology to map violent offenders and incident locations to better inform the response to violent crime.

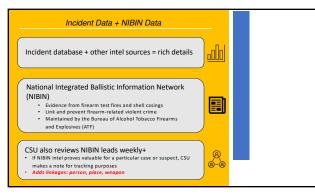
Hopefully, get you started, or at least thinking about, how to leverage data you have or could have for data-driven prioritization of cases.

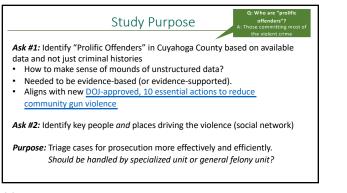
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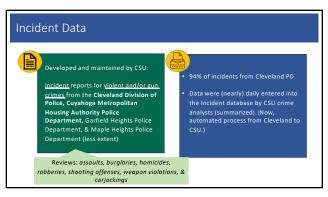


- summarizing violent and gun incidents for a number of jurisdictions (incident data), disseminating summaries to various agencies,
- analyzing the incidents for connections, leads, and crime patterns,
  hosting regular meetings with local, state, and federal law enforcement representatives to share information on violent crimes and offenders, and
- coordinating multiple agencies' investigations into violent and/or gun crimes.









## Data Collection

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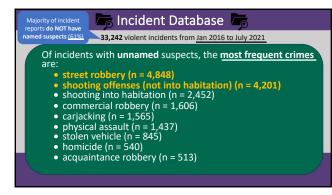
Incident reports vary greatly from report to report.

Coding scheme and codebook developed specifically for the database by CSU.

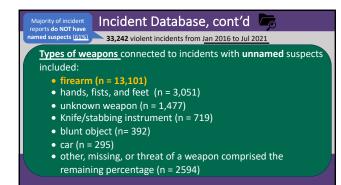
Results: recategorization of crime classification for consistency.

(if known), type of weapon involved, and summary narrative written by CSU crime analysts

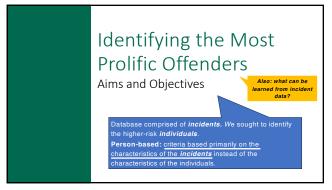
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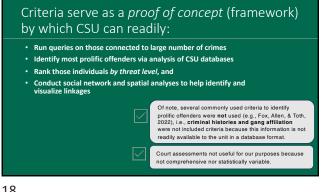
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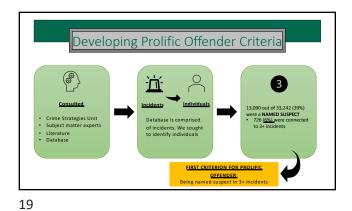














 Remaining Criteria

 Ranking or assigning a threat level to incidents connected to named suspects with 3+ incidents. Threat level was based on:

 Threat level was based on:

 Top Offender

 Threat Level 1: Listed as a suspect in 3 or more incidents.

 Threat Level 2: Presence of a firearm(s) at the incident

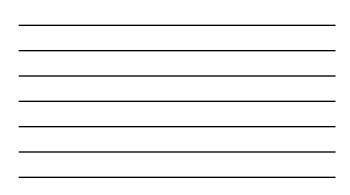
 Threat Level 3: Firearm fired or used as a threat during the incident

 Threat Level 4: Multiple suspects at the incident

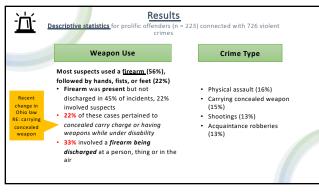
 Highest Threat Level: Multiple suspects and multiple firearms at the incident

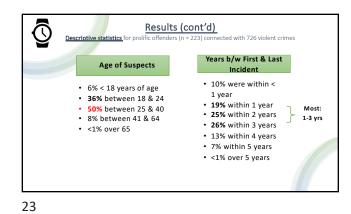
 Highest Threat Level: Multiple suspects and multiple firearms at the incident



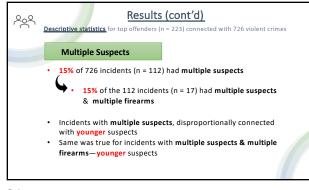


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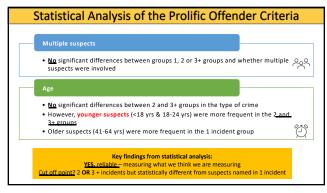


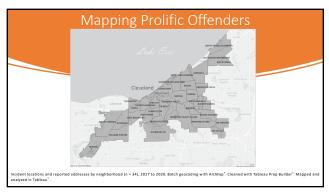


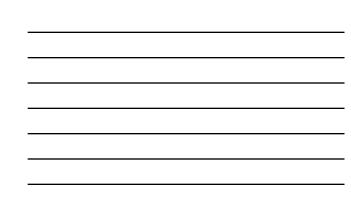


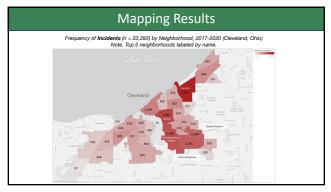


Sta	tistical Analysis of the Prolific Offende	er Criteria
To assess:	Multiple firearms	
criteria functioning as expected	<ul> <li><u>2 and 3+ incident group</u>: more frequently had multiple firearms</li> <li>1 incident group: less frequently had multiple firearms</li> </ul>	s - <u> </u>
	Weapons	
	<ul> <li>2 and 3+ incident group: firearms</li> <li>1 incident group: blunt objects or car/auto</li> </ul>	
No significant	Types of crimes	
differences between 2 & 3+ groups in	<ul> <li><u>2 and 3+ incident group</u>: more frequently associated with carjac commercial/bank robberies, shootings into habitations and str robberies (more serious, weapons)</li> </ul>	
types of crime	<ul> <li>1 incident group: more frequently associated with assaults, physistabbings, and vehicle assaults</li> </ul>	sical assaults,

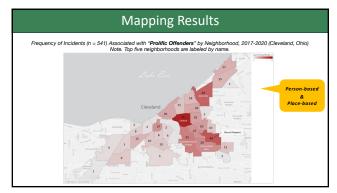




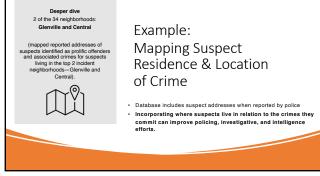






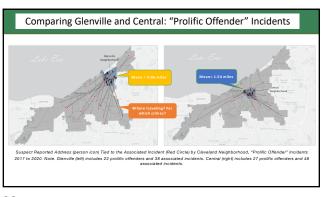


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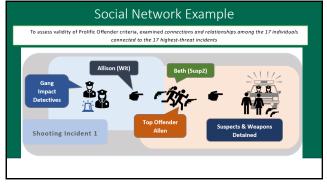
cation information for n = 22 top offenders nortedly living in the <u>Glenville</u> neighborhoo		(Cleveland, 2017-2020) an	
Incident Type	Count of Incidents	Average Distance to Incident (miles)	Average distance "travel by incident type
Shooting	8	2.49	
Acquaintance Robbery	7	2.22	
Commercial Robbery	2	6.62	Most frequent crime
Carrying Concealed Weapon Other	6	2.39	committed by
Carrying Concealed Weapon Traffic Stop	3	5.18	Glenville's prolific
Stolen Vehicle	1	7.04	shootings, with an
Shooting into Habitation	1	6.92	average distance to
Physical Assault	4	1.88	· · · · · · · · · · · · · · · · · · ·
Vehicle Assault	1	4.70	the crime of 2.49
Shots Fired	2	3.06	miles
Assault Other	2	2.66	
Stabbing	1	0.00	
TOTAL	38	3.06	

eportedly living in the Central neighborhoo		its (Cleveland, 2017-2020	
Incident Type	Count of Incidents	Average Distance to Incident (miles)	
Physical Assault	12	1.55	Most frequent crime by
Acquaintance Robbery	6	2.62	Central's prolific
Carrying Concealed Weapon Traffic Stop	5	1.77	offenders was physical
Shooting into Habitation	3	3.47	assault, with an average
Assault Other	5	0.30	distance to the crime of
Street Robbery	3	1.93	1.55 miles
CCW Other	4	0.90	
Homicide	2	2.27	
Shooting	3	0.66	
Stabbing	2	0.84	
Commercial Robbery	1	0.69	
Vehicle Assault	1	0.31	
Dead Body	1	0.00	
Grand Total	48	1.54	

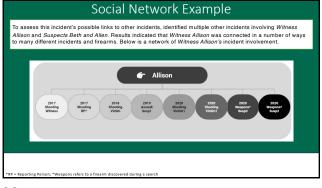


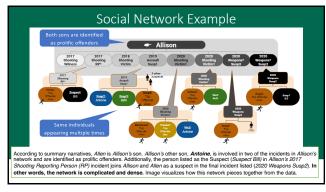


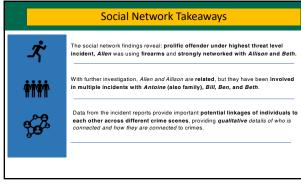
	Central Incident		
Shooting	291	433 <	Glenville did experience much
Physical Assault	259	247	higher numbers of violent crimes
Street Robbery	214	256	from 2017-2020. (But Glenville has
Carrying Concealed Weapon Other	153	121	2x the population of Central).
Shooting into Habitation	137	270	
Acquaintance Robbery	104	126	
CCW Traffic Stop	101	83	
Stabbing	79	74	RE: shooting, shooting into a
Commercial Robbery	61	107	habitation, shots fired
Carjacking	60	113	
Assault Other	53	74	Glenville, n = 759
Vehicle Assault	43	72	Central, n = 461
Shots Fired	33	56	
Homicide	27	57	~40% lower shooting
Other Weapons	26	32	incidents in Central
Stolen Vehicle	22	41	
Delivery Robbery	9	9	
Home Invasion	4	14	Preliminary findings emphasize the
Weapon at School	2	1	need to further "dig in"
Sexual Assault	2	3	
Dead Body	2	3	
Grand Total	1682	2192	









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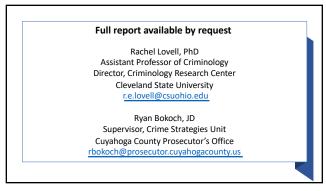


## Limitations

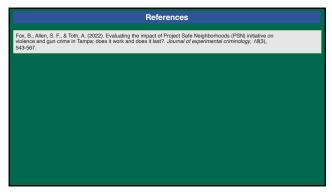
Prolific offender criteria are based on *identified* suspects

Original software platform for database, not ideal; with IPS funds, now tracking SQL server

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