# **Networks of Criminals**

### Milwaukee's Offender-Based Policing Initiative



Presented By:

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An Offender-Based Policing Strategy



### Agenda Networks of Criminals (NOC)

- Offender-Based Policing and the NOC Method
- □ Milwaukee Case Study
- □ Implementing the NOC Method
- Measuring Results

An Offender-Based Policing Strategy



### What is Offender-Based Policing?

- Prioritizing and intervening with offenders identified as being responsible for or impacting specific crime trends
- □ "Hot Spot" Policing and "Hot People" Policing
- □ Intervention Strategies



The NOC Method



### The NOC Method

### □ Formula-Based Candidate Evaluation

- 1) Criminal History
- 2) Threat Assessment
- 3) Social Network Analysis (SNA)
- The Product
  - The NOC Offender List
- □ The Program
  - Completing the Intelligence Cycle



The NOC Method



**Social Network Analysis** 

*"It is common wisdom that one of the strongest predictors of delinquency is whether an individual's peers engage in delinquent acts..."* (Akers, 2000)

The NOC Method



### **Social Network Analysis**

- "A collection of theories and methods that assumes that the behavior of actors (whether individuals, groups, or organizations) is profoundly affected by their ties to others and the networks in which they are embedded." (Sean F. Everton, 2012)
- □ Common centrality metrics:
  - Degree centrality
  - Eigenvector centrality
  - Betweenness centrality
  - Closeness centrality



The NOC Method

# Social Network Analysis Support from the Bureau of Justice Assistance (BJA)

- □ SNA is a core component of MPD's NOC approach
- Milwaukee is a participant in BJA's National Public Safety Partnership Initiative
- Through BJA's National Training and Technical Assistance Center, MPD received full support for:
  - Training in Advanced Social Network Analysis for Law Enforcement through the Naval Post Graduate School
  - Direct training and technical assistance by Andrew Fox, Ph.D., and Chief Joseph McHale
  - Other agencies receiving similar assistance with SNA through BJA include Flint, Michigan; Little Rock, Arkansas; Nashville, Tennessee; and Newark, New Jersey
     UNCLASSIFIED // LAW ENFORCEMENT SENSITIVE (ULES)











The NOC Method



### The NOC Program

- □ SNA as an intelligence gathering function
- Developing SNA for community-based outreach
- The NOC Program combines traditional policing methods with innovative analysis
- MPD's most successful analytical program
- A dynamic law enforcement program that is highly adaptable
  - Looking to expand the "NOC Method" within MPD for other crime types such as nonfatal shooting and homicides

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Networks of Criminals (NOC) Youth Offender Program



Networks of Criminals (NOC) Youth Offender Program



City of Milwaukee, Wisconsin Milwaukee Police Department *Chief of Police Alfonso Morales* 

- Population approximately 600,000 citizens
- Approximately 1,865 sworn officers
- 7 policing districts covering 96.6 square miles
- Fusion Division Tactical Analysis Unit 10 Analysts



http://city.milwaukee.gov

Networks of Criminals (NOC) Youth Offender Program

### Overview

Networks of Criminals Youth Offenders are out of custody subjects, ages 19 and younger, that are believed to be substantially impacting current **motor vehicle theft and robbery trends** in Milwaukee. These targets were developed using a comparison of 500 emerging or perpetual like-offenders based on the **analysis** of their **criminal history**, **threat intelligence**, and their **social networks**.

### Objective

To disrupt the criminal activity of these large and evolving networks using the rapid apprehension of wanted targets, targeted police contacts, thorough prosecution, and intelligence collection and sharing.

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Networks of Criminals (NOC) Youth Offender Program



Networks of Criminals (NOC) Youth Offender Program

### The Problem

### Motor Vehicle Theft Statistics

2009-2013 Average of 4,611 vehicle thefts per year

	2014	2015
Vehicle Thefts	6669	7428
% Change from Prior Year	<b>50%</b>	11%

### Robbery Statistics

2009-2013 Average of 3,169 robberies per year

	2014	2015
Robberies	3598	3797
% Change from Prior Year	7%	<b>6%</b>

\* Data obtained from the Milwaukee Police Department Automated Reporting System (ARS) on 1/4/2018



Networks of Criminals (NOC) Youth Offender Program

### **Understanding the Problem**

Debriefs, intelligence, and data indicate an increasing trend of juveniles stealing motor vehicles. Motivations for motor vehicle theft include:

#### Profit

Selling vehicles to drug dealers to use as mobile drug houses, newer models with keys are preferred

#### □ Street "Cred"

Impress girls/friends with the quality of steal, the quantity of steals, and the ability to get in a chase and elude police

### □ Joyriding

Transportation to and from friends homes or schools to parks, restaurants, shopping malls, parties, or events

#### □ Mobile Robbery Platforms

The use of stolen vehicles to commit street robberies



Networks of Criminals (NOC) Youth Offender Program

### **A Crime Series Emerges**

- □ Late summer/early fall 2014
- 74 percent increase in motor vehicle thefts

Citywide Robbery Task Force formed
 34 subjects arrested from 8 "crews"





Networks of Criminals (NOC) Youth Offender Program

### **NOC Candidate Selection**

Offenders are selected for the **Candidate Analysis Pool** from:

- □ Arrests ("crews" of three or more people)
- Detective/officer referrals
- Debriefs
- Latent print identifications
- □ Custody releases (state and county)
- Social media

Criminal predicate is required for consideration

Candidates are 19 years of age or younger

No consideration for sex, race, religion, or community

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### **NOC Candidate Evaluation**

### 1) Criminal History

 Weighted quantity of vehicle theft, robbery, and firearm-related incident involvements (arrest, suspect, or print identification) within five years. Scores are decreased for subjects who are criminally inactive for 90 days (based on crime involvement types above)

#### 2) Threat Assessment

 Assessment of the recency of incident involvements, investigative leads, intelligence from debriefs, real-time open source intelligence, AWOL status, etc.

#### 3) Social Network Analysis

 Analysis of candidates connections with other candidates, i.e., like-offenders (vehicle theft, robbery, and firearm-related)

Networks of Criminals (NOC) Youth Offender Program



### **NOC Candidate Evaluation**



 $\Lambda v$  = Eigenvector Centrality measures how well-connected an entity is and how much direct influence it may have over the most active entities in the network

I = Historical criminal incidents (five-year) for carjackings ( $I_c$ ), vehicle-related theft/fleeing/recklessly endangering safety (RES)/burglaries ( $I_V$ ), theft from auto/person, ( $I_T$ ), strong-arm robbery ( $I_s$ ), armed robbery ( $I_A$ ), or firearm-related incidents ( $I_F$ ). Outside jurisdiction incidents are also included, if known

i = A negative value for each 90-day period with no criminal activity

 $T_x$  = Intel indicating an imminent, critical, high, moderate, or minor threat based on recency of criminal activity and/or intelligence indicating the offender is currently criminally active

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### **Criminal History**

- □ Five years of offense data from MPD's Automated Reporting System
- Offense types include Carjacking, Motor Vehicle Theft, Fleeing, RES-Vehicle, Burglary-Vehicle, Theft from Person, Theft from Vehicle, Strong-Arm Robbery, Armed Robbery, or Firearm-related violations
- Offense involvement includes Arrestee, Suspect, Person of Interest, or Latent Print Identification
- □ Inactivity is a negative score for each 90-day period of no offense involvement or intel. An inactivity score of 4 (12 months), regardless of incarceration, moves the offender to an inactive spreadsheet for comparative analysis purposes









Strong-Arm Robbery

Firearms Violation/Possession



Carjacking

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### **Threat Assessment**

MINOR = 0

#### **MODERATE = 25**

**Baseline**: 4 offenses within 5 years OR 2 within the last year OR 1 within 90 days

#### HIGH = 50

**Baseline**: 8 offenses within 5 years OR 4 within the past year OR 2 within 90 days

#### CRITICAL = 75

**Baseline**: 12 offenses within 5 years OR 6 within the past year OR 3 within 90 days

#### $\mathbf{IMMINENT} = 100$

**Baseline**: 4 offense involvements within 90 days or intelligence indicating the offender is currently criminally active through real-time open source intelligence, jail calls, debriefs, surveillance videos, POs, corrections intel, or AWOL status



An imminent threat level is maintained for a minimum of 90 days. After 90 days, the candidate is reevaluated and assigned a threat level score based on the scoring system.



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### Social Network Analysis NOC Candidate Sphere of Influence Networks



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### **Social Network Analysis**



degree centrality

[dih•gree] [sen•tral•i•tee]

- 1. Represents the entities who may be the most active in the network based on the number of direct links to other entities<sup>1</sup>
- 2. Measures the number of connections an entity has



#### eigenvector centrality

[ahy•guh n•vek•ter] [sen•tral•i•tee]

- 1. Represents the entities that may have strong influence in the network due to their direct links to other highly active or well connected entities<sup>1</sup>
- 2. Measures how connected an entity is to other well connected entities

<sup>1</sup> IBM i2 Analyst's Notebook 8

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### **Social Network Analysis**



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### **Social Network Analysis**



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### **The Candidate Analysis Pool**

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90.41	35.00	29.31	26.10	87.00	26	3		2	1	2	N	34	181	84	0	6	6	100	100	6/11/2018	54	RMS
87.30	35.00	35.00	17.30	57.67	35	2	1				N	38	215	100	0	1	1	100	100	7/3/2018	76	Investigation
78.61	35.00	26.12	17.49	58.29	22	1	1	4	1		Y	29	162	75	0	3	6	100	100	7/6/2018	79	Investigation
61.54	26.25	16.24	19.05	63.49	15	4	3	2			Y	22	103	46	0	1	4		75			
63.73	35.00	16.00	11.00	30.06	10		2	2		3	v	20	125	48	2	11	18	100	100	5/13/2018	25	PMS
61.40	35.00	23.95	2 45	8 18	23	1	2	4		3	N	22	149	68	0	7	14	100	100	5/13/2018	25	RMS
60.96	26.25	20.23	14.48	48.27	19		1	3		1	N	24	131	60	1		2		75			
60.43	26.25	21.38	12.81	42.69	18	1	3	6			Y	28	142	65	2		2		75			
57.98	26.25	24.25	7.48	24.93	22		1		2		Y	25	155	71	1		2		75			
57.32	35.00	18.42	3.90	13.00	13	30		1		2	Y	46	116	53	0	5	9	100	100	6/12/2018	55	RMS
57.24	35.00	9.38	12.86	42.86	9			2			Y	11	62	27	0	1	2	100	100	7/10/2018	83	Arrest
56.65	26.25	17.55	12.85	42.83	17		1		1		Y	19	115	52	1		3		75			
56.28	35.00	16.58	4.70	15.68	15	2	1		1		Y	19	105	47	0	1	11	100	100	7/9/2018	82	AWOL
56.10	26.25	16.24	13.60	45.34	16	1	2				N	19	103	46	0				75			
55.58	35.00	17.42	3.17	10.55	17			1		2	N	20	110	50	0	3	3	100	100	5/17/2018	29	Investigation
55.40	35.00	4.69	15.71	52.37	5			1			N	6	34	13	0			100	100	4/22/2018	4	PO Intel
55.39	35.00	10.72	9.67	32.25	11			1			Y	12	70	31	0	1	2	100	100	4/22/2018	4	Arrest
55.16	35.00	12.22	7.93	26.44	10		1	4			N	15	79	35	0	1	1	100	100	6/22/2018	65	Arrest
54.87	35.00	8.71	11.16	37.19	9	1	1				Y	11	58	25	0	1	5	100	100	6/24/2018	67	Brown Deer Inv.
54.42	35.00	17.75	1.67	5.56	14			4	1	1	N	20	112	51	0	15	20	100	100	6/25/2018	68	Arrest
54.01	26.25	13.00	14.76	49.20	12		2	2		3	N	19	92	41	2		6		75		<u> </u>	<b> </b>
53.94	26.25	8.68	19.02	63.38	9		2			1	Y	12	62	27	1		8		75		<u> </u>	<b>├</b> ──── <b> </b>
53.69	26.25	14.74	12.70	42.34	15					2	Y	17	94	42	0	1	3		75			
53.30	35.00	8.88	9.43	31.43	8	4	1			2	N	15	59	25	0	<u> </u>	1	100	100	6/12/2018	55	DOC Intel
53.05	26.25	17.42	9.38	31.28	1/		2	6		1	N	20	110	50	U	1	1	400	/5	4/07/0010		Immediantic
52.68	35.00	7.54	1.44	4.79	0		1	0	1		Y V	19	103	40	0	1	2	100	100	4/2//2018	27	Firearm
52.56	35.00	7.54	10.03	33.42	8		1		1		Ý	9	51	22	0	1	3	100	100	5/15/2018	27	Firearm

Networks of Criminals (NOC) Youth Offender Program

### **NOC Youth Offender List**



Last check, to include LNA vehicle plate checks, surveillance, canvasses, and/or wanted checks, is current as of 1/1/2/18 <sup>6</sup> Person information has been obtained from multiple sources and not all sources have been fully vetted. All status information is fluid and subject to change at any time. Source details for all information is available by request to the Fusion Division.

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The NOC Youth Offender List is published to Roll Call every Wednesday, A copy can be emailed directly to any LE partner by request. A mobile version of this product for convenient viewing on a phone or tablet is also available by request.<sup>6</sup> The Fusion Division disseminates frequent communications to MPD personnel regarding threats, areas, releases, or involvement in active investigations for all NOCs in the form of NOC Offender Alert emails. To be added to any, or all of these distribution lists, contact the Fusion Division at <u>Inf@minvalues.org</u> or call (41) 555-1234 or (41) 555-1237.

Report all contacts or information regarding NGC offenders to the Fusion Division at (414) 555-0000 or informitwakee gov. Type NGC Infel in the subject line when sending information. Information can also be entered directly into the Share/Point NGC Activity Log, which is available by clicking on the folder icon, or by clicking <u>here</u>. The following intelligence is needed when making contact with these offenders:

	Nature of the contact	Contact location
	Current home address	Current school/work
	Vehicle(s)	Subject demeanor/cooperation
	Gang affiliations/activity	Associates
	Nickname(s)	Other known auto thieves/robbers
	Stolen auto dump locations	or other relevant observations

The Fusion Division can provide additional NOC information including current threats, gang/group involvement, known associates, current investigations, or other possible whereabouts. This type of information is beneficial for investigations, interviews, QPs, or debriefs. NOC Investigative Alerts (Ais) for intel collection will be entered by the Fusion Division.<sup>7</sup>

During contacts, any observed supervision infractions or inquiries need to be reported to the target's respective County or State probation agency. Points of contact are below:

name | Probation Agent 1 agency | WI DOC Division of Juvenile Corrections title | Corrections Field Supervisor e-mail | <u>probation@wisconsin.gov</u> p | 414-555-0101 mme | Probation Agent 2 agency | Milwaukee Co. Department of Youth & Family Services title | Admin Coordinator e-mail | <u>probation@milwaukeecountvwi.gov</u> p | 414-655-0202 name | Probation Agent 3 agency | Milwaukee Co. Aftercare Supervision title | Section Manager e-mail | <u>probation@milwaukeecountvwi.gov</u> p | 414-655-3003

<sup>6</sup> The mobile version of the NOC List product will be a very large file. It is recommended recipients delete the previous week's mobile NOC List when receiving the new, updated weekly mobile version to avoid unnecessarily taking up file space in their email and on the server. If needed, all previous its can be archived by the Fusion Division.

NOC Investigative Alerts (IAs) are not to be cancelled except with the approval of a Fusion Division supervisor

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01 January 2018 UNCLASSIFIED//LAW ENFORCEMENT SENSITIVE Page 2 of 3

Networks of Criminals (NOC) Youth Offender Program



#### Networks of Criminals (NOC) Youth Offender LIST

#### **Document Elements and Definitions Key**

Networks of Criminals (NOC) Youth Offenders are *out of custody* subjects, ages 19 & under, that are believed to be substantially impacting current motor vehicle theft and robbery trends in the Milwaukee area. Targets were developed using a comparison of **500** emerging or perpetual like-offenders based on the analysis of their criminal history, threat intelligence, and connections amid criminal social networks. On **1/1/18**, the NOC formula calculated that **150** of these 500 subjects scored statistically higher than other like-offenders and the following **50** of these 500 subjects were found to have access to the community. The objective of this product is to disrupt the criminal activity of these large and evolving networks using the rapid apprehension of wanted targets, targeted police contacts, thorough prosecution, & intelligence collection & sharing. Candidate referrals are necessary; please refer names to <u>ifc@milwaukee.gov</u> for evaluation.

#### <sup>1</sup>This list is not to be used as a basis for arrest or detention. Verify any wants/warrants before making an arrest

<sup>2</sup> School enrollment is not indicative of attendance

<sup>3</sup> Supervision and custody status is current as of 1/1/2018 (Adult) and 1/1/2018 (Juvenile)

<sup>4</sup> Last check, to include LKA vehicle plate checks, surveillance, canvasses, and/or wanted checks, is current as of 1/1/2018

<sup>5</sup> Person information has been obtained from multiple sources and not all sources have been fully vetted. All status information is fluid and subject to change at any time. Source details for all information is available by request to the Fusion Division.

The banner at the top of each box refers to the target's handling instruction designation:

#### WANTED

This target is arrestable.<sup>1</sup> Immediate apprehension is recommended to prevent imminent motor vehicle thefts and/or robberies.

#### ACTIVE INTEL

The Fusion Division has intel suggesting this target has been criminally active within the last 90 days. Follow-up on current intel & consideration as persons of interest in active investigations is recommended. Routine NOC Checks. to include stolen vehicle sweeps near LKAs. surveillance, neighborhood canvasses, home visits, or search warrants for intel collection & to deter re-offending are also recommended.

#### HIGH RISK OFFENDER

This target is not wanted or known to be criminally active, but considered a high risk based on their criminal history and/or social networks. Periodic NOC Checks (detailed above) to deter potential re-offending is recommended.

**Q D**This icon indicates a target is highly socially connected to other MVT and robbery offenders. Social connectivity helps the department focus on targets in which a home visit, arrest, or sentencing will resonate to other like-offenders on a much greater scale. It also more effectively identifies intel sources and points of dissemination for deterrent messaging or counter-intel. NOC Checks as needed based on connections, is advised. A snapshot of a target's social network is available by request to the Fusion Division.



girlfriends/boyfriends (G-F/B-F), or other relevant investigative information.

#### NOTES

This section shares information regarding warrants, suspect alerts, investigative alerts (IA), court dates, weekend passes (W/P), curfew, missing status, & identifies intelligence gaps. F/U ITEMS: This section suggests handling instructions that are unique for each subject. This section also provides actionable follow-up (F/U) items regarding open investigations.5

Each icon represents an offense type the target has been known to commit. Icons highlighted in orange illustrate that the Fusion Division has intel within the past 90 days suggesting the target is actively committing the identified offense type.



Motor Vehicle Theft (MVT)

Armed Robbery (A/R)

Strong-Arm Robbery

Firearms Violation/Possession

Carjacking

The folder icon is a MPD network link to the NOC Activity Log which provides a running history of contacts, intel, alerts, and other relevant information. The NAME of the NOC is a hyperlink to the target's Tiburon/RMS browser record.

The "D1" indicates the MPD district of their last known address (LKA).

Note: Every target serves a minimum of 90 days on the list before being re-evaluated.

Networks of Criminals (NOC) Youth Offender Program



### NOC Checks

- Stolen Vehicle Sweep (License plate checks/ALPRS sweep of the 1,000 ft. area about 3 standard blocks – surrounding the NOC's address)
- Surveillance of the address
- Neighbor Canvass to validate addresses or identify other potential sources of intelligence
- Subject Wanted Check
- Home Visit (The frequency of "knock and talk" visits should be determined by the POs and the context of these types of visits on a NOC-by-NOC basis)
- School Visit by MPD's Office of Community Outreach and Education (OCOE)
- Search Warrant (Labor-intensive and evidence-based, but should be considered an opportunity when available. The Fusion Division has a Search Warrant template for prolific offenders that can be used for NOCs)

Networks of Criminals (NOC) Youth Offender Program

### **Program Implementation**

#### NOC List Dissemination

The NOC List is updated every Wednesday and shared across the department and surrounding jurisdictions

#### NOC List Mobile Version

Same information as the NOC Youth Offender List, but formatted for convenient viewing on a phone or tablet

- District Presentation
- Weekly .kml Maps
- □ NOC Patrol Maps
- Trend Analysis
- **GPS MOU** with County Probation
- □ NOC Enforcement Operations





Networks of Criminals (NOC) Youth Offender Program

### **Facilitate Information Sharing**

#### Juvenile Offender Group Meeting

MPD Fusion Division, MPD District Officers, Milwaukee County Children's Court, Wisconsin Department of Corrections, MPD OCOE School Resource Officers, Milwaukee County, Wisconsin District Attorney's Office, Outside Jurisdictions

### **NOC Offender Alerts**

- Releases
- □ Arrests
- Contacts
- □ Wants/Warrants
- □ Latent Print IDs
- □ AWOL Statuses
- □ Intel Threats
- Investigations



(WI 123-ABC) that crashed into a tree. Two other juvenile subjects were observed fleeing from the stolen vehicle and entered an early 2000's black Chevy Impala with no plates. Case # 123456789.

This communication is for your situational awareness only, no response is required. Additional biographical information and intelligence regarding the subject(s) of this alert can be found in the weekly NOC Youth Offender list posted to Roll Call every Wednesday or emailed directly to you by request. A record of police contacts and alerts for this subject as a Networks of Criminals (NOC) Youth Offender is available on the MPD Intranet by clicking the following <u>NOC Activity Log Link</u>.

Garrett J. Knuth Crime Analyst Networks of Criminals (NOC) Youth Offender Program Fusion Division Milwaukee Police Department <u>gknuth@milwaukee.gov</u> Office: (414) 935-3607



Networks of Criminals (NOC) Youth Offender Program



### **Facilitate Information Sharing**

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Networks of Criminals (NOC) Youth Offender Program

### **Implementation Benefits**

- □ Investigative alerts for situational awareness
- Preemptive targeted contacts
- Allocation of fugitive apprehension units
- Proactive monitoring
- □ Focused debriefs, prisoner questioning
- Prioritized investigative follow-up
- Information-sharing management

	Kemont Boyd - he is one of the people that is ALWAYS in stolen ca
+	Kyejaun Bankhead – cars for sure, guns
	Keyshawn Bonds – cars & robberies
ŀ	Mackenzie Burse – if he is out, he is a gun guy
	Macquan Chapman – carries gun/shooter
	Dechanel Couch – "Baby Gummie" stolen cars & armed robbery
	Cameron Crawford – cars
	Deshawn Cross – "Greedy"
	Phillip Daniels – "Nacho" pimp/crazy known to be armed
	Dajon Davis – guns
$\left  \right $	Zacchaues Davis – "Crash" known for crashing cars
ł	Robert Gardner – "Corndog" drugs
t	Marco Hilson – business & street robberies
	Tommie Hines – cars, maybe robberies, but needs to be locked up
	Chyna Ivery – needs to be locked up, cars
	Tyrell Jefferson – robberies
	Eric Johnson – (in custody?) in cars ALL the time



Implementation



# Implementing the NOC Method

Implementation



### Implementing the NOC Method

### Identify the Problem

- Crime series vs. crime trend
- Trend analysis
- Existence of a social network
- □ Identify the Objective
- Focus
  - Avoid mission creep
- □ Scalability
  - Understand resources

# DON'T USE A CANNON TO KILL A FLY.

~ Confucius

Implementation



### Implementing the NOC Method

### **Non-traditional Candidate Selection Process**

- Arrest, suspect, or person of interest data
- Social media
- Detective/officer referrals or street-level intel
- Debriefs and interviews
- Latent print identifications
- Custody releases
- Probation and Parole/Department of Corrections
- Schools
- □ Computer Aided Dispatch (CAD)
- Confidential Informants

### UNCLASSIFIED // LAW ENFORCEMENT SENSITIVE (ULES)



**F/U ITEMS:** This section suggests handling instructions that are unique for each subject. This section also provides actionable follow-up (F/U) items regarding open investigations.

Implementation



### **Criminal History**

□ A count of offense involvements based on the problem identified

- Consider weighted variables
- □ Examples:



- Hypothetical Situation #1: Burglary-related
- Count the number of involvements in residential burglaries, commercial burglaries, loitering/prowling, etc.



- Hypothetical Situation #2: Shooting-related
- Count the number of involvements in nonfatal shootings, homicides, weapon offenses (Carrying a Concealed Weapon, Felon in Possession, etc.). Consider leveraging National Integrated Ballistic Information Network data



- Hypothetical Situation #3: Drug-related
  - Count the number of involvements in possessions, distributing/manufacturing, etc. Potential for strong network data

Implementation



### **Threat Assessment**

- □ Interpretation of shared intelligence
- □ Vehicle Theft Examples:





Implementation



### **Threat Assessment**

- □ Interpretation of shared intelligence
- **Robbery** Examples:

22 hrs - 📀	
bro I'm finna start robbing people .	
🖒 Like 🔗 Share	
😫 🔁 🖸 11	

...



, y'all need to be careful out here cuz it's people like me who ah Rob anything moving 1927 3 and a second second

Implementation



### **Threat Assessment**

- □ Interpretation of shared intelligence
- **Drug Dealing** Examples:





Implementation



### **Threat Assessment**

- □ Interpretation of shared intelligence
- □ Violent Crime Examples:

29	mins · 🔗		
Getting m	y revenge on who	shot me before my time up K	now that!
u Like	Comment	A Share	
02			



Implementation

### Threat Assessment

Interpretation of shared intelligence

**Burglary** Examples: 



Move's we gone firs	+ HIL House's
2 Check casher's (Slide	note) (Town House)
bestbuy	MayFair
6 Apple TV'S	Foxes
2All kind Video game's system's	ragland
All we see All games	MacVis
All we see Laptops	buckle
All (Hdmi Cords) (Aux Cords)	The second
All we see Phone 5	grand Avenue mall
15 ROKU	JB'5
Walmart	armantan
10 Air beds	bouchards
undecided TV's (might)	Towers
All we see Phone's	
All we see Laptops	Wavwato Sa
All we see Video games	nene marchas
All we see games System	Sack'S fifth
All we see flat heads	The second second second
All Aux cords	Southside
All Temperary plate's	I can'S
Other Store's	Aun Stare
Foot Locker Furniture Store	H3 ADRAGE
Playmakers 3 cauches	13 greentiera
SUVER STOR & recimens	

**UNCLASSIFIED // LAW ENFORCEMENT SENSITIVE (ULES)** 



Implementation



### **Social Network Analysis**

- Multiple software options
- □ Identify the centrality measure that fits your network/problem
  - Eigenvector centrality
    - The NOC Method
  - Betweenness centrality
    - Milwaukee's Capitol Drive East Corridor SURGE Operation



Implementation



CALORIES

### **Implementing the NOC Method**

#### **Product Development**



#### signature SALADS

meditorranoan salm	on 8 50	270	540
incurrent anean Sam	011 0.00	270	540
obq chopped chicken	7.59	250	500
chopped chicken cobb	7.59	250	500
New! salmon caesar	7.99	240	480
grilled chicken caesar	6.89	250	510
asian sesame chicken	6.99	200	410
fuji apple chicken	6.99	260	520

#### Cafe SALADS

5.69 220	430
5.29 200	390
5.29 80	170
	5.69 220 5.29 200 5.29 80

#### SIDE CHOICES

NITH YOUR SOUP, SALAD, SANDWICH OR YOU PICK TWO

french baguette slice	180
whole grain baguette slice	190
potato chips	160
apple	80

Implementation



### Implementing the NOC Method

### **Product Development**



Implementation





#### Implementation



#### Implementation



#### Implementation



#### Implementation



#### Implementation





#### Implementation





F/U ITEMS: I his section suggests handling instructions that are unique for each subject. This section also provides actionable follow-up (F/U) items regarding open investigations.



Implementation



### **Implementing the NOC Method**



Checks

Officer engagement

Partner engagement

Information facilitation

□ Intelligence cycle

Implementation





An Offender-Based Policing Strategy



# **Measuring Results**

Networks of Criminals (NOC) Youth Offender Program

### **Measuring Results**

In 2017, 67 percent (103 of 154) of NOCs were involved in a vehicle theft, robbery, or firearm-related incident while they were published on the list



Networks of Criminals (NOC) Youth Offender Program

### **Measuring Results**

- Motor Vehicle Theft Statistics
  - 2009-2013 Average of 4,611 vehicle thefts per year

	2014	2015	2016	2017	2018*
Vehicle Thefts	6669	7428	6202	5422	2474**
% Change from Prior Year	50%	11%	-17%	-13%	-7%



Robbery Statistics
2009-2013 Average of 3,169 robberies per year

	2014	2015	2016	2017	2018*
Robberies	3598	3797	3307	2953	1146**
% Change from Prior Year	7%	6%	-13%	-11%	-22%



\* MPD switched to a new RMS on 5/1/2018. Values for 2018 are an estimate and not considered to be official \*\* Data obtained from the Milwaukee Police Department Automated Reporting System on 7/10/2018



**Networks of Criminals (NOC) Youth Offender Program** 



Networks of Criminals (NOC) Youth Offender Program

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**Networks of Criminals (NOC) Youth Offender Program** 



An Offender-Based Policing Strategy



# **QUESTIONS?**

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