Video 2: Identification of Patterns and Crash-Prone Locations
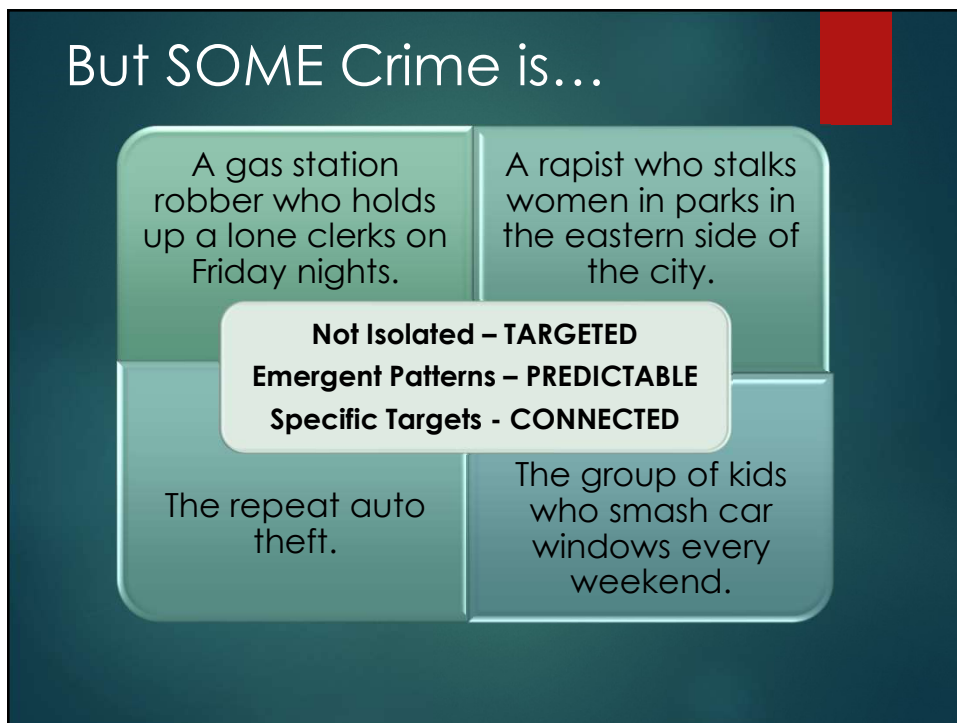
1

Tactical Analysis

1. Defining a crime pattern and crash-prone locations
2. Tools to identify patterns and crash-prone locations
3. Pattern finalization

2

Most Crime Is…

A man seizes the opportunity to steal an unattended laptop.

An argument in a bar erupts into a fight.

Random

Unpredictable

Unconnected

A man is killed in a drug deal gone bad.

A feud between neighbors leads to a rock thrown through a window.

3

But SOME Crime is…

A gas station robber who holds up a lone clerks on Friday nights.

A rapist who stalks women in parks in the eastern side of the city.

Not Isolated – TARGETED

Emergent Patterns – PREDICTABLE

Specific Targets - CONNECTED

The repeat auto theft.

The group of kids who smash car windows every weekend.

4

Types of Patterns

1. Series
2. Spree
3. Crash-Prone Locations

5

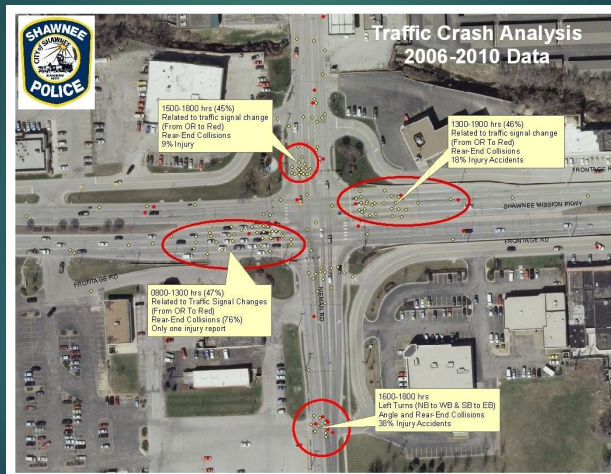# Types of Patterns: Series

6

Types of Patterns: Spree

7

Types of Patterns: Crash-Prone Locations

8

Tools to Identify Patterns

1. MO Commonalities
2. Exceptional Volume
3. Geographic Proximity
4. Intelligence-Based Patterns

9

Modus Operandi

1. Review reports daily
2. Scan for patterns (pattern identification)
3. Focus in on MO
4. Identify past reports
5. Use experience, knowledge, intuition, & creativity

IncidentType	Date	Time	AddressNuml	StreetName1	Business	PremisesTyp
Larceny from MV	6/22/2002	2:19:00 AM	100	Independence Way	LIBERTY TREE MALL	Shopping Mall
Larceny from MV	6/21/2002	2:07:00 AM	199	Newbury St		Amusements &
Larceny from MV	6/23/2002	9:33:00 AM	301	Newbury St	STOP AND SHOP SUPRM	Grocery
Larceny from MV	6/23/2002	10:00:00 PM	7	Hutchinson Dr	HOLLYWOOD HITS	Cinema
Larceny from MV	6/24/2002	11:14:00 AM	139	Endicott St	ENDICOTT PLAZA	Shopping Mall
Larceny from MV	6/24/2002	12:01:00 PM	22	School St	DANVERS AUTO BODY	Auto Service
Larceny from MV	6/24/2002		100	Independence Way	LIBERTY TREE MALL	Shopping Mall
Larceny from MV	6/27/2002	11:05:00 PM	100	Independence Way	LOEWS LIBERTY TREE	Shopping Mall
Larceny from MV	6/29/2002	4:54:00 AM	8	Maple St	CUSTOM CUP CAFE	Street
Larceny from MV	6/28/2002		7	West St		Street
Larceny from MV	7/3/2002	4:00:00 AM	9	River Dr		Street
Larceny from MV	7/6/2002	9:15:00 PM	161	Elliott St	DANVERSPORT YACHT C	Marina
Larceny from MV	7/7/2002		181	Newbury St	HONDA NORTH	Auto Sales
Larceny from MV	7/8/2002	9:18:00 AM	80	Andover St	DANVERS MITSUBISHI	Auto Sales
Larceny from MV	7/8/2002	3:17:00 PM	11	Newbury St	COSTCO WHOLESALE	Department Sto
Larceny from MV	7/9/2002	8:13:00 PM	100	Independence Way	LIBERTY TREE MALL	Shopping Mall
Larceny from MV	7/11/2002	9:30:00 PM	95	Liberty St	RIVERSIDE SCHOOL	School
Larceny from MV	7/12/2002	10:28:00 PM	100	Independence Way	LOEWS LIBERTY TREE	Cinema

10

Exceptional Volume

1. Threshold Analysis
2. Repeat Locations
3. Escalating Activities

11

Exceptional Volume

Threshold
- Crimes
- Crash
- Engagement

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	IncidentType	2015	2016	2017	2018	2019	2020	Avg	Wtd. Avg.	St Dev	Normal Range	Change	Z Score
2	Rape	2	1	2	1	2	1	1.6	1.60	0.4899	1-2	-38%	-1.22
3	Indecent Assault	6	1	1	4	5	1	3.4	3.47	2.05913	1-5	-71%	-1.17
4	Peeping & Spying	0	0	1	0	0	2	0.2	0.20	0.4	0-1	900%	4.50
5	Aggravated Assault	11	14	6	5	8	11	8.8	7.80	3.31059	5-12	25%	0.66
6	Simple Assault	44	41	40	33	33	49	38.2	36.20	4.44522	34-43	28%	2.43
7	Robbery	5	0	3	2	3	2	2.6	2.47	1.62481	1-4	-23%	-0.37
8	Threats	32	23	26	12	16	31	21.8	18.93	7.11056	15-29	42%	1.29
9	Violation of RO	15	14	9	14	9	4	12.2	11.40	2.63818	10-15	-67%	-3.11
10	Housebreak	11	12	16	16	18	18	14.6	15.80	2.6533	12-17	23%	1.28
11	Commercial Break	15	11	12	14	12	8	12.8	12.60	1.46969	11-14	-38%	-3.27

12

Exceptional Volume

Threshold of Patterns

Pattern Name:	Pattern Description:	This Week:	Year to Date:	Crs	Por	Uni
Beauty Products	Theft of razors/beauty products from a store.	1	1		1	
Catalytic Converter	Theft by removal or cutting of the catalytic converter from a vehicle.	2	92	28	39	25
Construction Site	Burglary of a construction site.	2	31	1	24	6
Copper Theft	Theft of copper piping or wiring.	3	30	1	17	12
Doorstep Package Theft	Theft of package from the doorstep of a residence after it's been delivered by a delivery company.	2	42	9	25	8
Fitness Center Vehicle Burgs	Burglary of a vehicle parked at a fitness center, usually of items left in plain view.	3	43	23	18	2
Garage Burglary	Burglary of a garage, generally within an apartment complex.	2	83	22	37	24
Locker Theft	Burglary or theft of items from a fitness center locker.	1	44	20	13	11
Motorcycle	Stolen motorcycle.	1	21	2	10	9
Office Building Computer Burglary	Burglary of an office building with loss of computers or laptops.	2	36	1	13	22
Roll up door	459 commercial where entry was made via a roll up door to the business.	1	15	1	8	6
Storage Bin Theft	Burglary of items from a storage bin, usually a Conex box type bin that is at a construction site.	1	23	3	10	10

13

Exceptional Volume

Repeat Locations

PORT ST. LUCIE POLICE DEPARTMENT
TOP CALLS FOR SERVICE ADDRESSES

14

7

Exceptional Volume

Escalating Activities

Offender by Year Escalation						
	LastName	FirstName	2012	2013	2014	2015
	STEFANCZAK 5/6/88	SAMANTHA 25 Main St	1	3	4	14
	COUTU 12/25/77	DEVIN 5 Main Dunstable	1	4	10	9
	SIMMONS 11/22/78	JONATHAN 12 Sally Drive	4	15	30	9
	OLIVARES 5/5/65	NICOLE 888 Sara Dr	1	5	10	8
	PENO 6/8/88	ROBERT 125 S Main St	3	5	6	7
	HART	DEVON	3	5	7	6

15

Geographic Proximity

1. Hot Spots
2. Clusters
3. Geographic Progression
4. Cross-Jurisdictional Activity

16
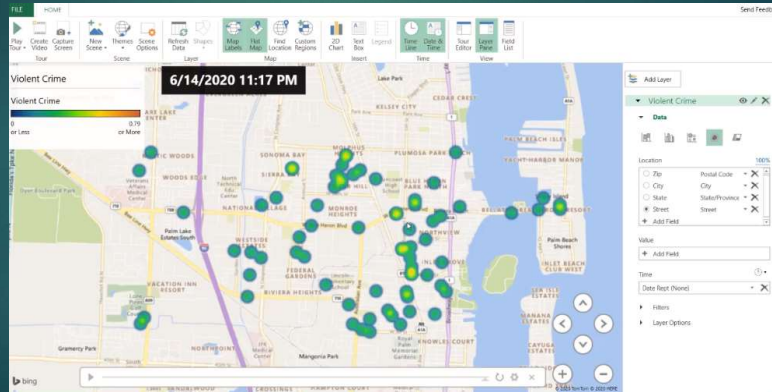
17
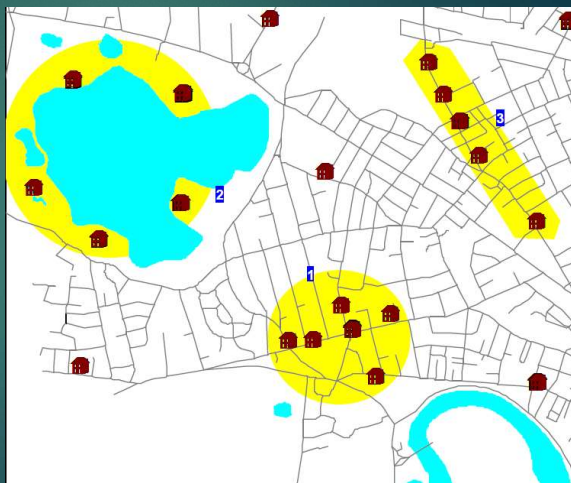
18

Geographic Proximity

Cross-Jurisdictional Activity
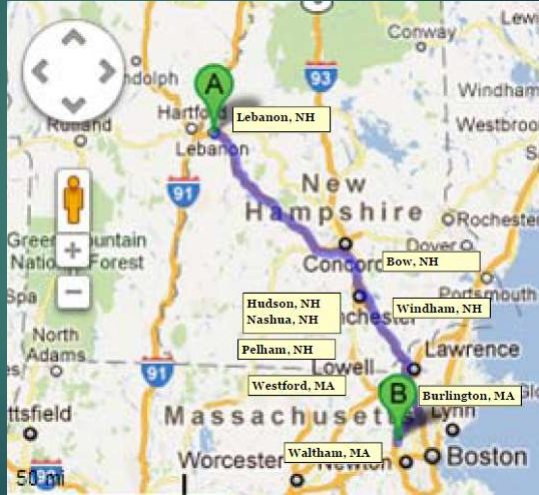
19

Geographic Proximity

Geographic Progression
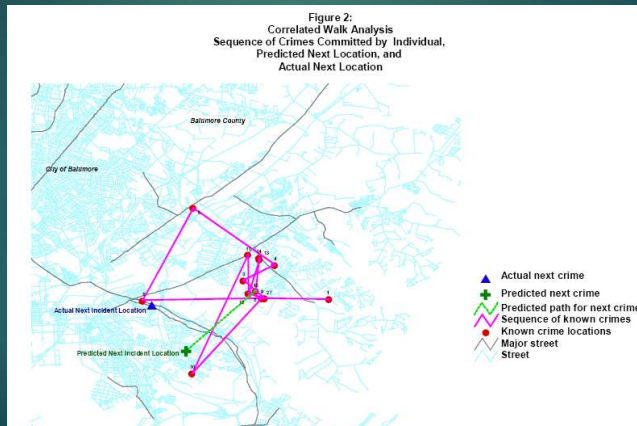
20

Geographic Proximity

Intelligence-Based Pattern ID

21

Pattern Finalization

1. Identify the Principal Case
2. Identify 3 characteristics of the pattern
3. Identify other cases in the pattern
4. Identify investigative leads
5. Summary of pattern

22

Pattern Finalization: Identify Principal Case

Select 1-2 cases from the initial list of cases that best represents the pattern.

23

Pattern Finalization: Identify 3 Characteristics

The characteristics most indicative of the pattern are used to select additional cases related to the principle case.

1. **Suspect's actions against person (e.g., followed, asked for change, demanded money)**

2. **Type of victim and location (e.g., pedestrian on the street)**

3. **Type of weapon (e.g., handgun or simulated weapon)**

24

25

26

Pattern Finalization: Identify Investigative Leads

1. Identify potential suspects
2. Search databases

Harold Jones	Burglary, robbery	668	M	H	5/10/1989	Parole
Barry Webner	Robbery, burglary	918	M	H	6/19/1995	Probation
Samuel Adens	Burglary, robbery	769	M	H	1/7/1987	Parole
John James	Shoplifting, robbery	615	M	H	10/8/1993	NA
Frank Casella	Robbery, burglary	668	M	H	9/14/1993	Parole
George Mason	Burglary, robbery	769	M	H	2/8/1991	NA
Jesus Gonzolaz	Robbery, burglary	918	M	H	6/17/1988	Probation

27