

Smart Policing in Los Angeles: Operation LASER

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Overview

- ❖ Background
- ❖ Results
- ❖ Crime Intelligence Detail (CID)
- ❖ Offender-Based Strategy
- ❖ Location-Based Strategy
- ❖ Implementation
- ❖ Evaluation by JSS
- ❖ More Results

Operation LASER: Los Angeles' Strategic Extraction and Restoration Program

- ◆ **LASER is funded by the Bureau of Justice Assistance, US Dept. of Justice through the Smart Policing Initiative (SPI)**
- ◆ **The purpose of LASER is to reduce gun-and gang- related crime in Newton Division (one of 21 Divisions in the LAPD)**
- ◆ **LASER is focused on:**
 - ◆ **Chronic offenders and**
 - ◆ **Chronic locations**

Results

- ❖ Newton Division ended 2012 with an all-time low of 16 homicides –
 - ❖ A 56% decrease in homicides compared to 2011 and 59% decrease compared to 2010.
- ❖ Overall violent crime dropped 19% in Newton (from 2011 to 2012).
- ❖ Newton ranked number one in violent crime reduction in the entire LAPD for 2012

Why Did LASER Succeed?

- ❖ LASER relies on data and intelligence from the Crime Intelligence Detail (CID)
- ❖ LASER is focused on:
 - ❖ Chronic offenders and
 - ❖ Chronic locations
- ❖ LASER stays on mission, measures dosage, uses Palantir



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Welcome, Jeanine Lopez



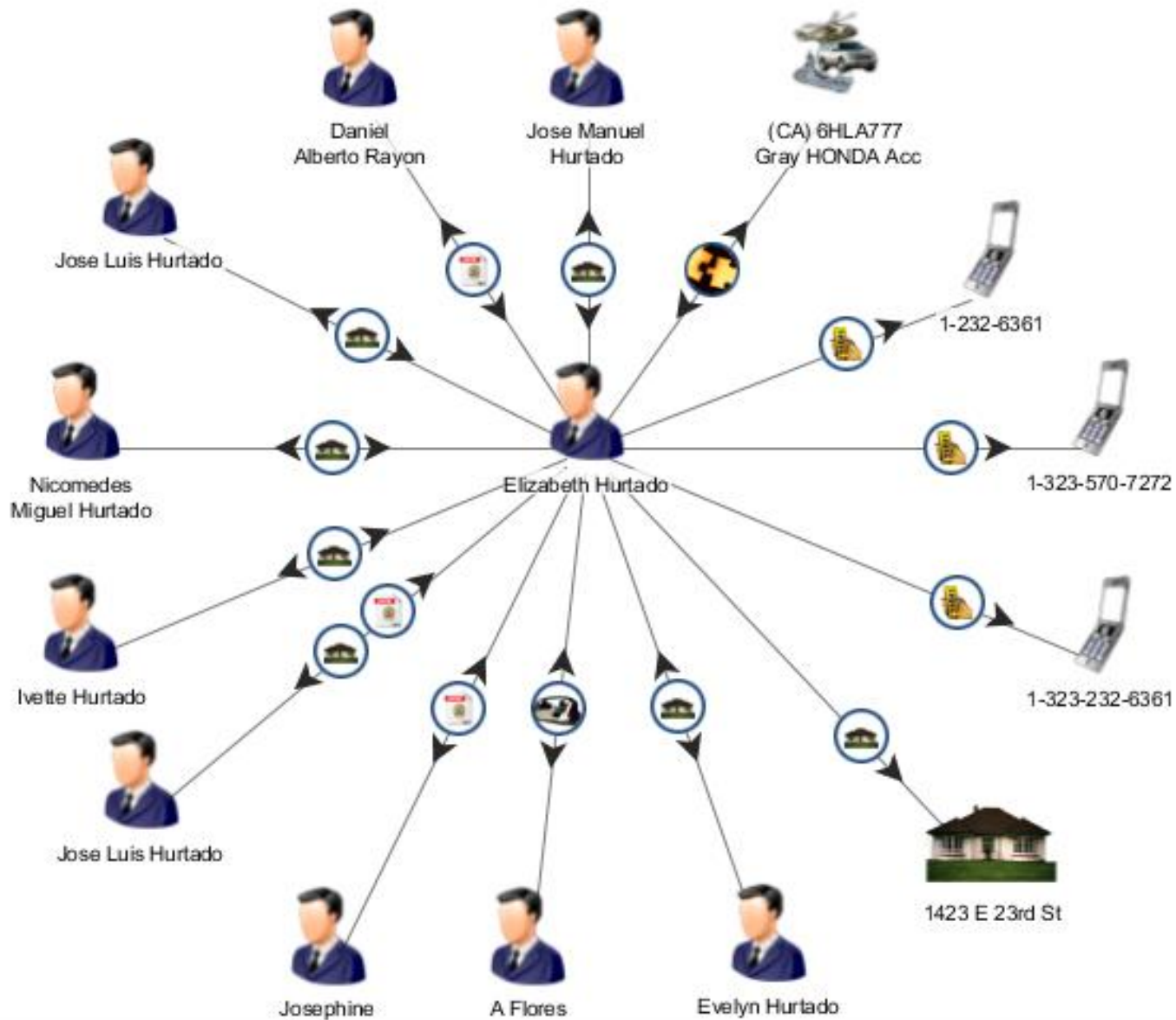
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PALANTIR MAPPING SYSTEM



PALANTIR AUTOMATIC LICENSE PLATE READER (ALPR)



Ex. Photograph taken
by license plate reader

6PFV921 scanned at August 20, 2011 01:06:05 -07:00

2011/08/20 01:06:05 -07:00

4HFM646 scanned at August 24, 2011 16:17:07 -07:00

2011/08/24 16:17:07 -07:00

4HFM646 scanned at January 23, 2011 21:58:40 -08:00

2011/01/23 21:58:40 -08:00

6GUG231 scanned at September 13, 2010 15:28:06 -07:00

2010/09/13 15:28:06 -07:00

6GUG231 scanned at October 5, 2010 00:29:39 -07:00

2010/10/05 00:29:39 -07:00

4HFM646 scanned at January 21, 2010 09:23:19 -08:00

2010/01/21 09:23:19 -08:00

6GUG231 scanned at August 7, 2009 02:21:13 -07:00

2009/08/07 02:21:13 -07:00

The Crime Intell Detail (CID)

- ◆ Two officers and a Crime Analyst form the CID
- ◆ CID gathers intelligence daily from Patrol (Watch 2, Watch 5 and Watch 3), the Bicycle Unit, and the Parole Compliance Unit at Newton Division
- ◆ CID focuses on Robberies, Weapons Violations, and Aggravated Assaults related to gun and gang violence
- ◆ CID creates “Chronic Offender Bulletins”

Implementation: CID Selection Process

CID reviews:

- ◆ Field Identification Cards (FIs)
- ◆ Traffic Citations
- ◆ Release From Custody Forms (RFCs)
- ◆ Crime and Arrest Reports
- ◆ Criminal Histories
- ◆ CID selects the appropriate individuals based on pre-determined criteria:
 - Robberies, Weapons Violations, and Aggravated Assaults related to gun and gang violence

Chronic Offender Bulletin

- ◆ Physical descriptors
- ◆ Physical oddities
- ◆ Gang affiliation
- ◆ Prior crimes committed
- ◆ Parole or Probation Status
- ◆ Vehicles
- ◆ Areas they frequent
- ◆ Contact with law enforcement



DIAGRAM OF CRIME INTELLIGENCE DETAIL – OPERATION LASER

FIELD INTERVIEW
CARDS (PATROL,
SPU, GANGS &
BIKES)

CITATIONS

RELEASE FROM
CUSTODY (RFC)

CRIME REPORTS

ARREST REPORTS

CRIME TRENDS &
PATTERNS

SMARTBOARD &
CAD UNIT

CRIME INTELLIGENCE
DETAIL (C.I.D.) -
SELECTION PROCESS

F.I.'S (211, AGG
ASSAULTS,
WEAPONS
VIOLATIONS, ALL
GANG MEMBERS,
RAP SHEETS, CRIME
REPORTS, CRIME
TRENDS AND CRIME
PATTERNS

WORK-UPS
(EXEMPLAR)

M DRIVE &
PATROL VEHICLES


PATROL
OFFICERS,
SPECIALIZED
UNITS,
DETECTIVES, &
COMMAND
STAFF

INFORMATION ONLY
Notification
LOS ANGELES POLICE DEPARTMENT
OFFICIAL PUBLICATION OF THE LAPD NEWTON CRIME INTELLIGENCE DETAIL

THE BELOW LISTED INDIVIDUAL IS **NOT WANTED AT THIS TIME**. THIS PUBLICATION IS DESIGNED TO PROVIDE INFORMATION ON PROMINENT KNOWN OFFENDERS, PAROLEES AT LARGE, CAREER CRIMINALS, ETC AND IS **NOT TO BE USED AS THE SOLE BASIS FOR YOUR PROBABLE CAUSE TO DETAIN THE INDIVIDUAL LISTED BELOW FOR ANY FUTURE CONTACTS**. IF YOU BECOME AWARE OF AN INDIVIDUAL THAT MATCHES THE SUBJECT DESCRIPTION ON A CRIME REPORT, PRIOR TO ANY FURTHER INVESTIGATION YOU SHALL CONTACT THE APPROPRIATE DETECTIVE COORDINATOR FOR THAT CRIME.

OFFENSE: BRGK/MSB/PRNCE/MSB

NAME: SUTTON, DANAWAY
DOB: 08/07/79
CRP: 4234464
C.I.D.#: BRGK238



1310 1/2 WEST 82ND ST LOS ANGELES, CA 90044
DOB: 08/07/1984
SEX: M
HAIR: BLK HEIGHT: 5'07"
EYES: BRN HEIGHT: 48

PHYSICAL COUNTRIES:
TATTOO ON BACK "COAST TO COAST 50"
TATTOO ON BACK "EAST COAST CRIP" WITH THE LETTERS "50"
TATTOO ON CHEST "EAST COAST CRIP"

None
07/04/2014

ARREST: 211, EVADING, NARCOTICS VIOL, POSS OF FIREARM BY A FELON
08/15/2009 AND BUREAU

CAL GANER:
42 EAST COAST CRIP WITH MEMBER OF "D, DAY DAY, BIV, SUTTY"

PAROLE:
ACTIVE PAROLE ENTER 01/01/2011 FOR POSS OF NARCOTICS FOR SALE, FELONY POSS OF A FIREARM AND 49 PC

PROBATION:
NONE

WARRANTS:
NONE

VEHICLE:
2008 MERZ ML 4 DO WH CA 0214219
PASSENGER 02/24/2011
1994 OLDS ATR 40 CRN CA-HEN2099
PASSENGER 02/24/2011
1994 OLDS ATR 40 CRN CA-HEN2099
DRIVER 04/28/2011
1994 OLDS ATR 40 CRN CA-HEN2099
DRIVER 04/28/2011

RECENT STOP:
OFFENSE: BRGK/MSB/PRNCE/MSB
DATE: 02/17/2011
LOCATION: 151 WEST 44TH ST
RD: 191

NARRATIVE: CONSENSUAL ENCOUNTER. ADMITTED PAROLE FOR 49 PC. WANT AND WARRANT CHECK. SELF ADMITTED 42 EAST COAST CRIP WITH MEMBER OF "D, DAY DAY, BIV, SUTTY"

PLACE & CONTACTS (INFORMAL NEWTON):

DATE	LOCATION	CONTACT
02/24/2011	SAN PEBROS VILLOS	1310 1/2 WEST ST. LOS
02/24/2011	CHENDEMAN BL. 17TH ST.	1310 W. 10TH STREET
02/24/2011	07TH MAN.	
02/24/2011	SAN PEBROS VILLOS	
02/24/2011	BROADWAY AT 7E	
02/24/2011	8101 S. WESTERN AVE. LOS	
02/24/2011	VERNON CENTRAL	
02/24/2011	CHENDEMAN BL. 17TH ST.	
02/24/2011	MANUEL VILLOS	

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Prepared by: C. J. LOPEZ, SERIAL # 37481 - Crime Intelligence Detail (323) 846-6524 Date: 02/21/11 CID# A-001

**SMART
POLICING**
Data. Analysis. Solutions.

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

Chronic Offenders

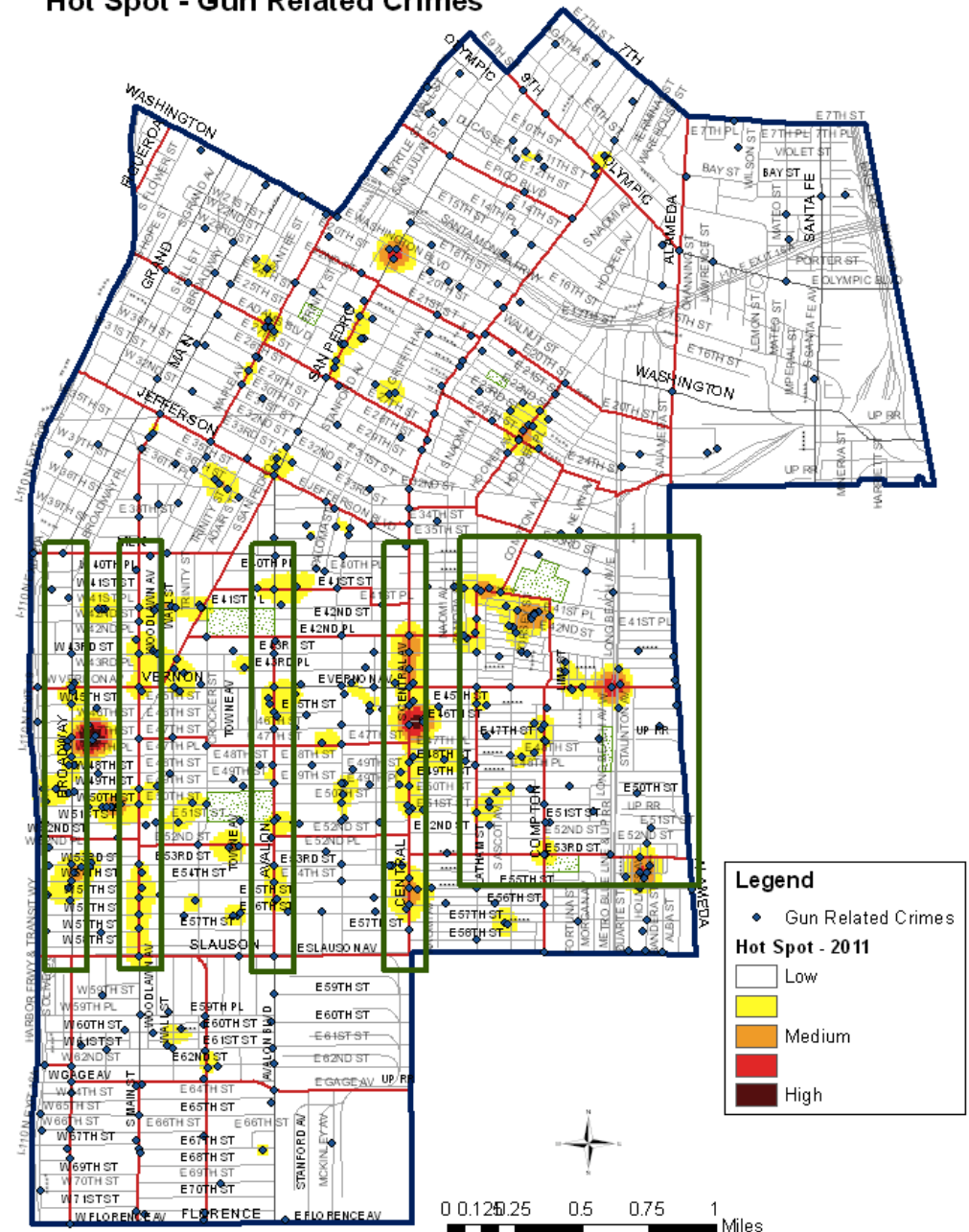
- ❖ 125 Chronic Offenders identified and rank-ordered from August 2011 to January 2012
- ❖ 87 of the 125 (69.6%) have been arrested at least once from Aug 2011 to June 2012
 - ❖ 88 offenders scored 15 points or higher – 60 (68.1%) arrested
 - ❖ 37 offenders scored 0-15 points – 27 (72.9%) arrested
- ❖ New list created in May 2012 – 65 new offenders
 - ❖ 25 (38.5%) arrested
- ❖ Of 189 total offenders, 112 arrested at least once (59%)

LASER: Location-based efforts

Gun-Related Crimes Newton Division 2006-2011

Five Hotspot Corridors (in green)

Newton Area - 2011 Gun Related Crimes Hot Spot - Gun Related Crimes



Interventions: Locations

Weekly Missions in Hot Spot Corridors

Use Existing Resources:

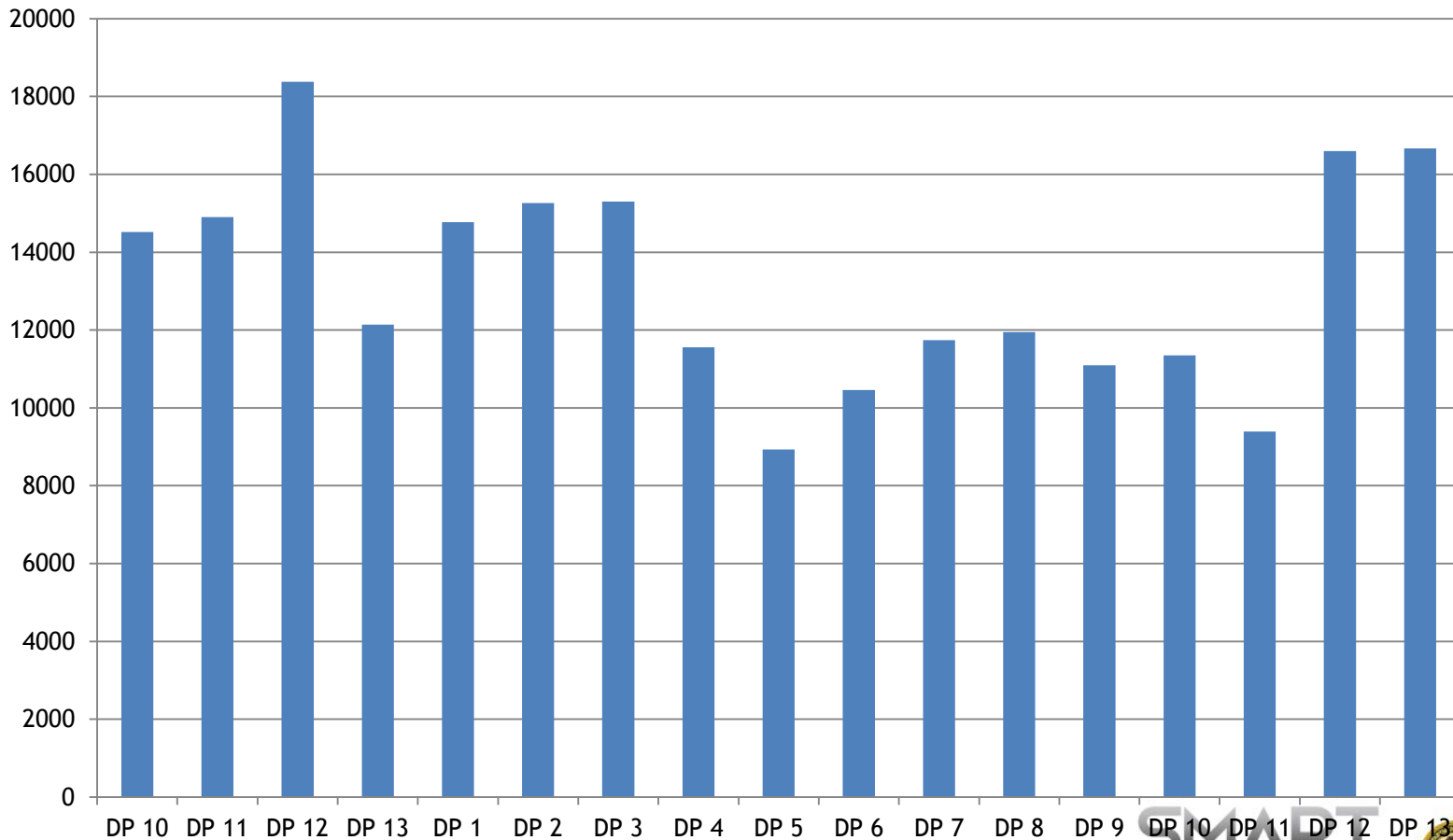
- ❖ Patrol Units (watches 2, 3 and 5)
- ❖ Bikes
- ❖ Foot Patrol
- ❖ Parole Compliance Unit
- ❖ HIDE

Measures

- ❖ **Dosage = Extra minutes/month in hot spot corridors**
- ❖ **Crime Count by Deployment Period (DP) and by month**
 - ❖ **Gun-Related Crime (Part 1 and 2 incidents with a gun) since 2006**
 - ❖ **All Part 1 Crimes – Violent and Property since 2006**

Measures: Dosage

TOTAL MINUTES IN NEWTON CORRIDORS



Dosage In Newton Corridors

- ❖ On average, patrol, bikes, foot, and PCU spent 13,326 extra minutes per DP in the hot spot corridors
- ❖ Range: low of 8,935 minutes (DP 5 in 2012) to high of 18,380 minutes (DP 12 in 2011)
- ❖ 13,326 equates to 222 hours per DP or 55.5 hours per week
- ❖ 7.9 hours extra time per day in the five corridors

Impact Analysis: Interrupted Time-Series Design

- ❖ One of the most powerful quasi-experimental designs
- ❖ Compare pre-existing trend before the intervention to the trend during/after the intervention
 - ❖ Change in level
 - ❖ Change in trend

Time Series Analysis for Newton

- Examined:
 - Gun-Related Crime –
 - Crime incidents (Part I and II) with a firearm
 - Includes: Homicides, Robberies, Aggravated Assaults, Drive-by shootings, Misdemeanors with weapons (drugs, vandalism, etc.)
 - All Part 1 Crimes
- From Jan. 1, 2006 to June 30, 2012 (78 month period) and 1/1/06 to 12/31/2012 (88 months)
- Intervention began Sept 2011
 - ❖ Arrests of chronic offenders started in Aug 2011, but increased patrol of corridors began Sept 2011
 - ❖ 10 post-intervention time periods

Time Series

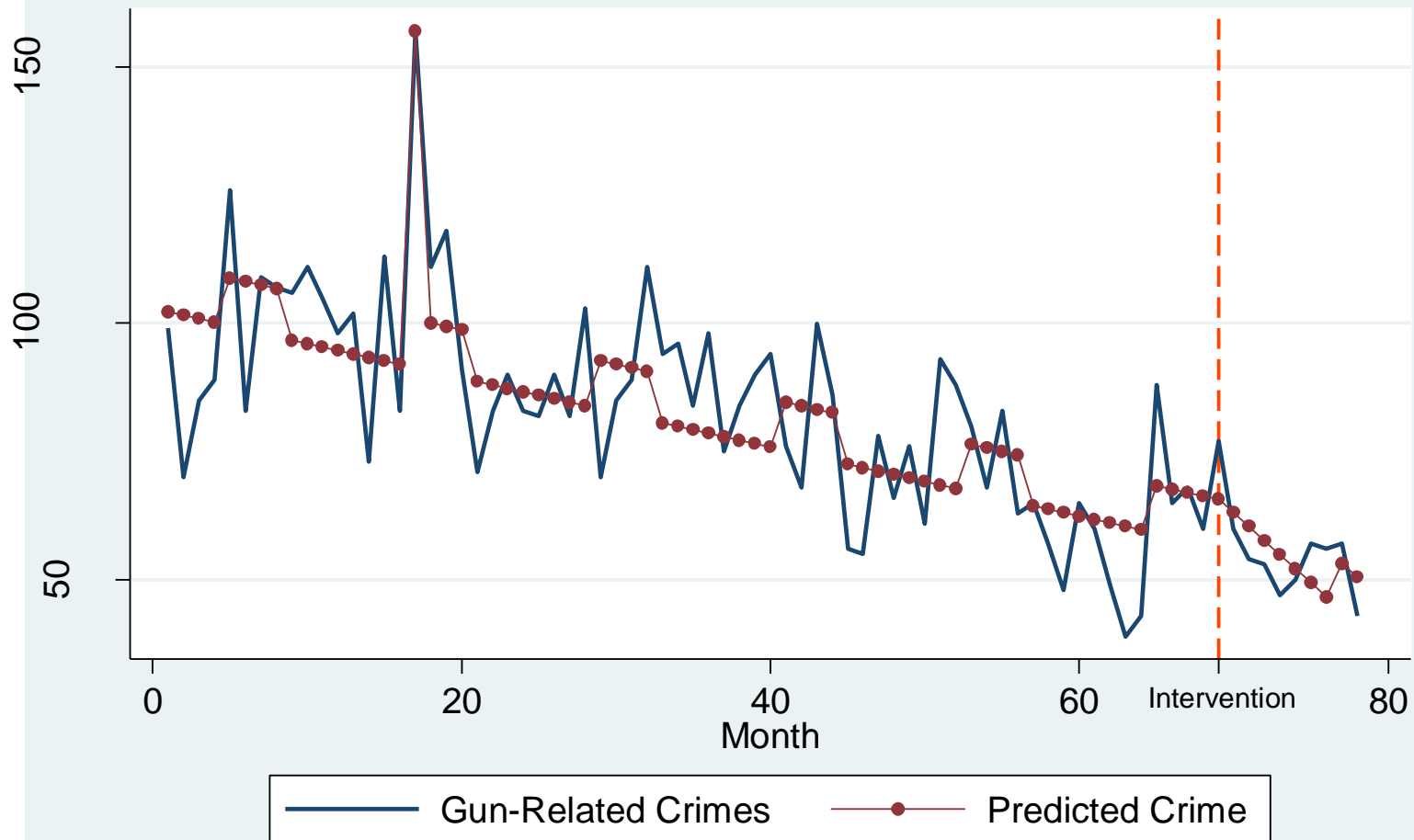
- ❖ From January 06 to June 2012
- ❖ Results indicate that Operation LASER had *significant and tangible reductions in:*
- ❖ *Gun-related crime (Part 1 and 2)*
- ❖ *Homicides*
- ❖ *Robberies*
- ❖ *Violent Crime (Part 1)*

Time Series: Bottom Line

- ❖ Results suggest that gun-related crime is falling nearly four (4) times faster in Newton after LASER was implemented in Sept 2011
- ❖ Differences are statistically significant at the .10 level

Gun-Related Crimes in Newton

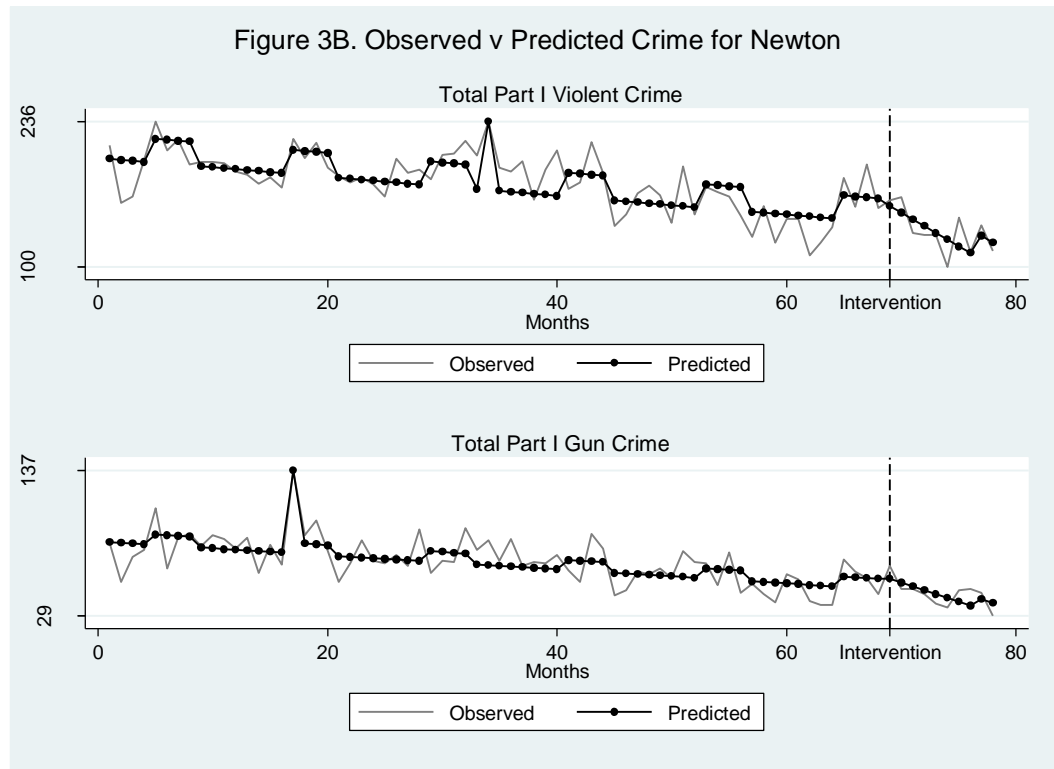
Jan 2006 to Jun 2012



Time Series: Bottom Line

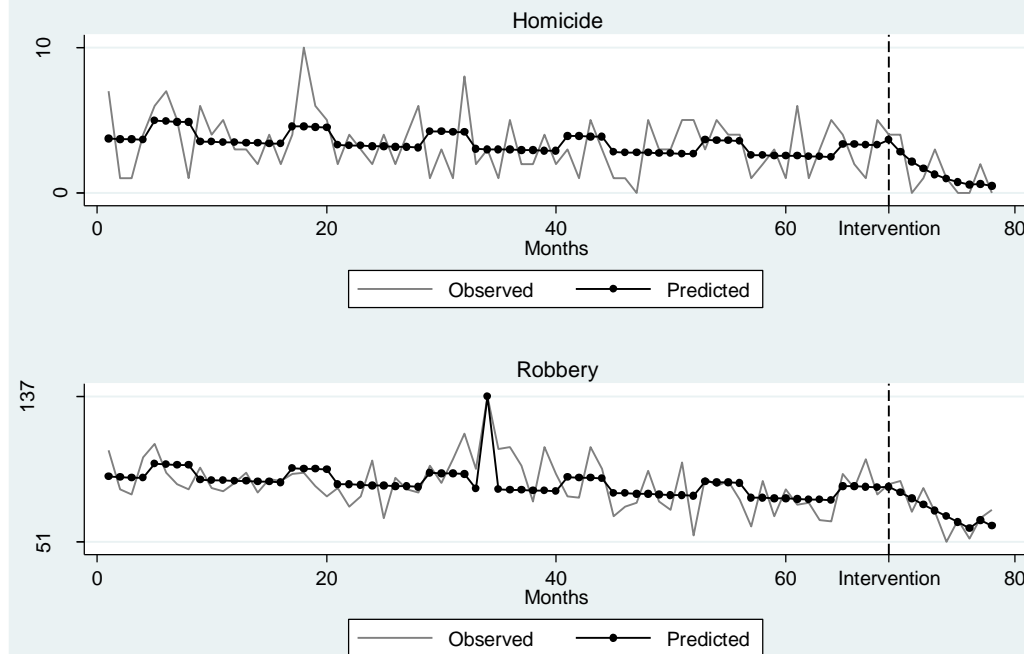
- ❖ Interventions in Newton resulted in a *decrease* of Part I Violent Crimes by an additional 5.393 crimes per month
- ❖ Homicides *decreased* by an additional 22.6 percent per month in Newton after Operation LASER began.
- ❖ Robbery *decreased* by an additional 0.218 robberies per month in Newton after Operation LASER was implemented

Time Series: Violent Crime & Gun Crime



Time Series: Homicide & Robbery

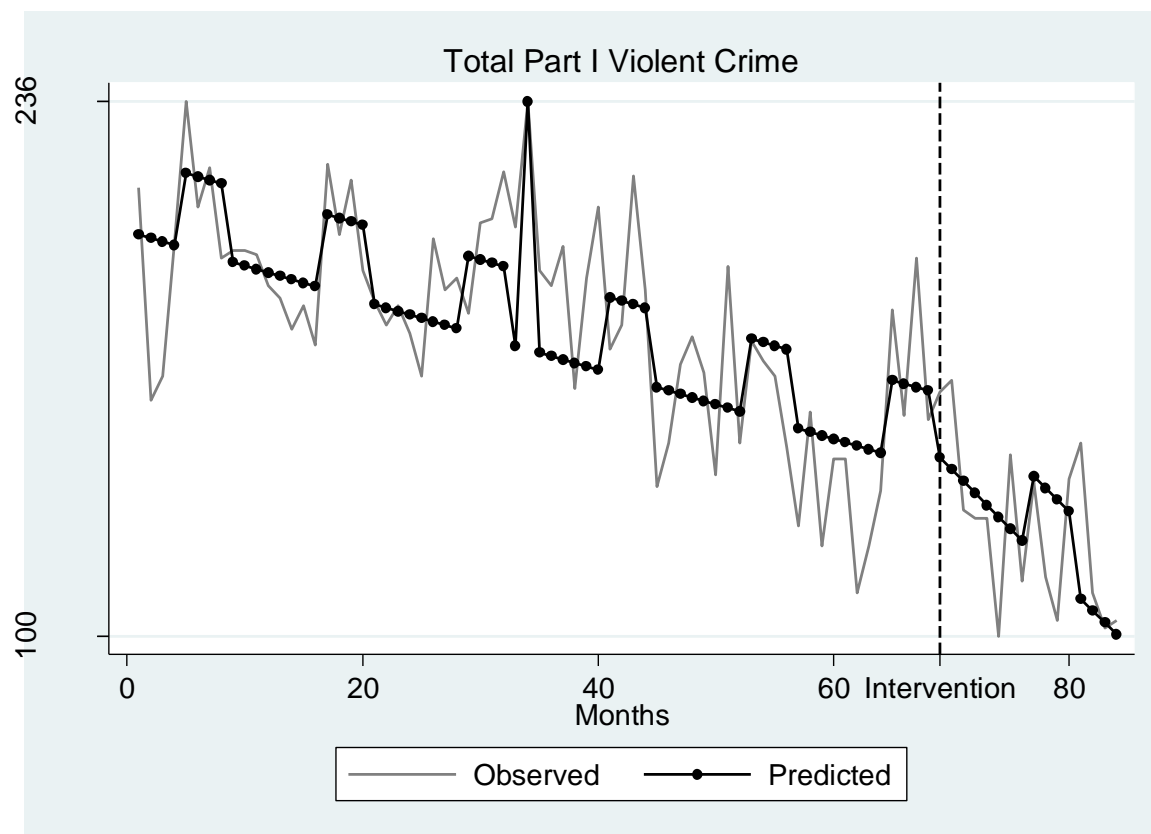
Figure 3D. Observed v Predicted Crime for Newton



Updated Findings

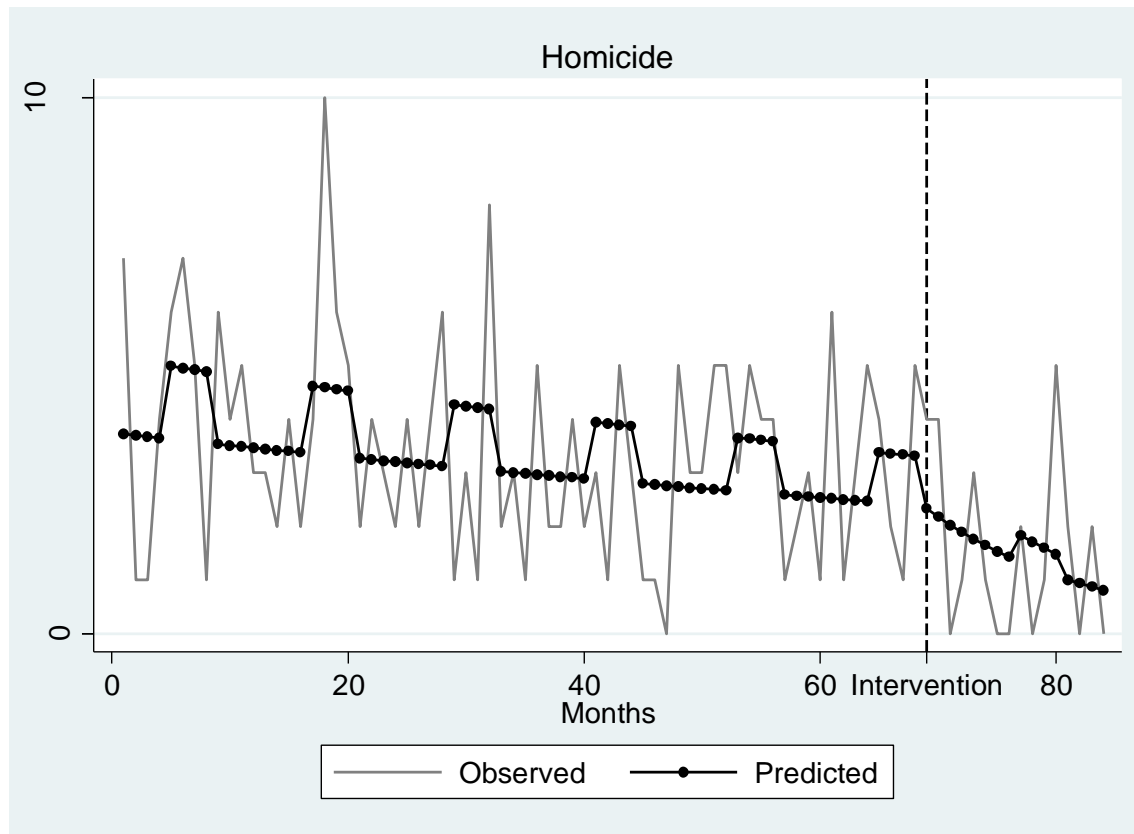
- ❖ Analyzed data from January 2006 to December 31, 2012
- ❖ Intervention period = 16 months
- ❖ Time Series analysis shows different results

Part I Violent Crime



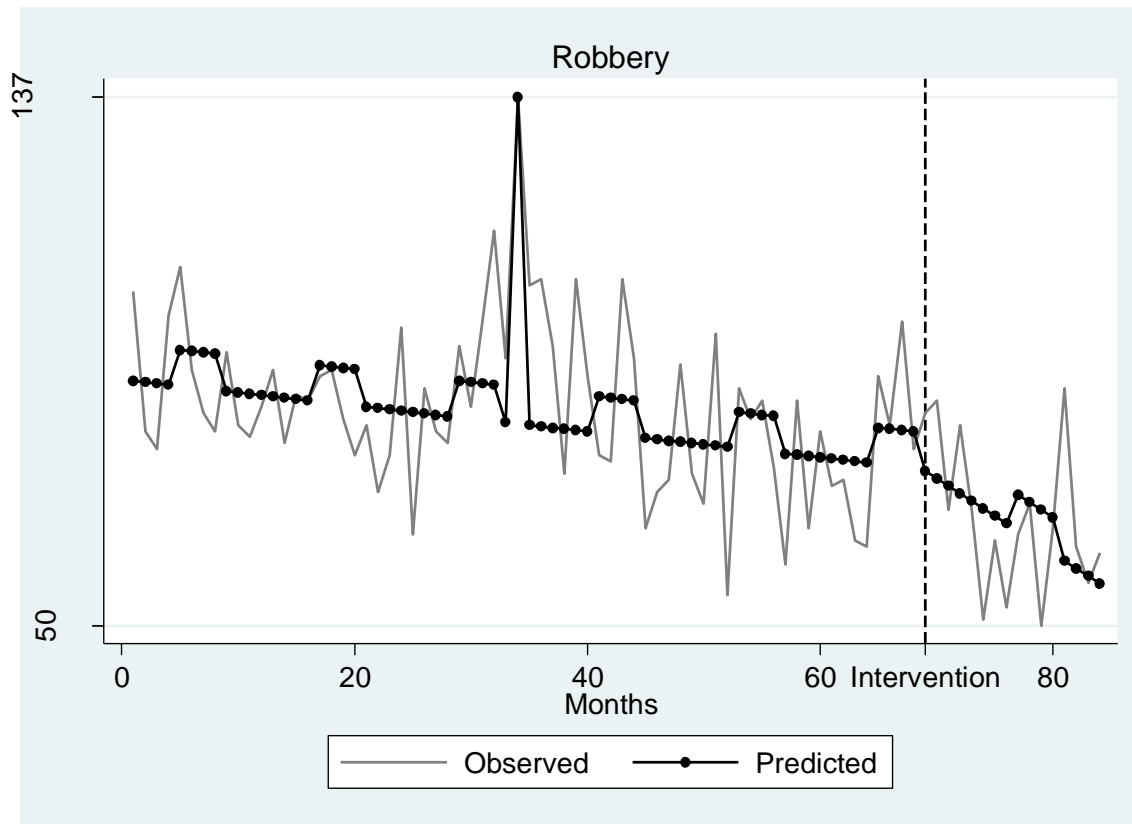
- ❖ There is a significant decrease in Part I Violent Crime after LASER began
- ❖ Reduction of approximately 2 violent crimes per month over the past 16 months

Homicide



- ❖ There is a declining trend after LASER began
- ❖ Decrease is not statistically significant ($p < .125$)
- ❖ Previously significant for 10 months

Robbery



- ❖ There is a declining trend after LASER began
- ❖ Decrease is not statistically significant
- ❖ Previously significant for 10 months

What Happened to Homicide and Robbery?

- ❖ Examining the data, it appears that Homicide reached a post-intervention high point in August, 2012 and Robbery in September, 2012.
 - ❖ Highest numbers since the start of the intervention
- ❖ These data points are substantially influencing the post-intervention trend

Future Directions: Analysis

- ❖ Continue to analyze data (quarterly) and evaluate LASER activities
- ❖ Additional time periods will provide more statistical power to detect an effect
 - ❖ We are analyzing data for all RDs using a ‘panel analysis’
 - ❖ The results may change due to model improvements

Future Directions: LASER

- ❖ LAPD has agreed to expand LASER to four new divisions:
 - ❖ Hollenbeck (violent crime)
 - ❖ Southwest (violent crime)
 - ❖ Foothill (property crime)
 - ❖ Wilshire (property crime)

- ❖ Continue in Newton (violent and property crime)

Future Directions: LASER in other Divisions

- ❖ Create Crime Intelligence Details
- ❖ Create chronic offender bulletins
- ❖ Use location-based strategies
- ❖ Measure dosage – minutes in the RDs and hotspot corridors
- ❖ Use Palantir
- ❖ JSS– continues with real-time evaluation

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Questions?