



Smart Policing in Action 2: Findings and Accomplishments from the Smart Policing Initiative (SPI)

New Haven SPI, Pharr SPI, Chula Vista SPI, and CNA

March 4, 2015

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The New Haven Smart Policing Initiative Experience



Christopher M. Sedelmaier
University of New Haven

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Project Background

- SEP 2011 – NHPD and UNH in partnership receive USDOJ Smart Policing Initiative (SPI) grant.
- GOAL - Sustain and support evidence-based policing at all department levels and seek to use research findings to inform police leadership and improve decision making throughout the department.

Initial Challenges

- One month after the grant award, NHPD chief resigns; new chief calls for return to foot patrol and community policing.
 - NHPD also severely understaffed.
- “How do we instill lasting change in organizational culture, when the organization is constantly changing?”
- “How do we do more with fewer officers?”

Four-Legged Plan

- Foot patrol officers would use POP techniques to engage the public and involve them in identifying neighborhood problems.
- Application of SARA model:
 - Officers ID problems
 - CAU supplies “flash sheets” – neighborhood-level analysis products that the officers could take with them into the field.
- Treatment area selection by risk terrain modeling (RTM) to identify areas most at risk for future violent crime.
- Leadership stability in the form of a district manager and sergeant team assigned for the duration of the project.

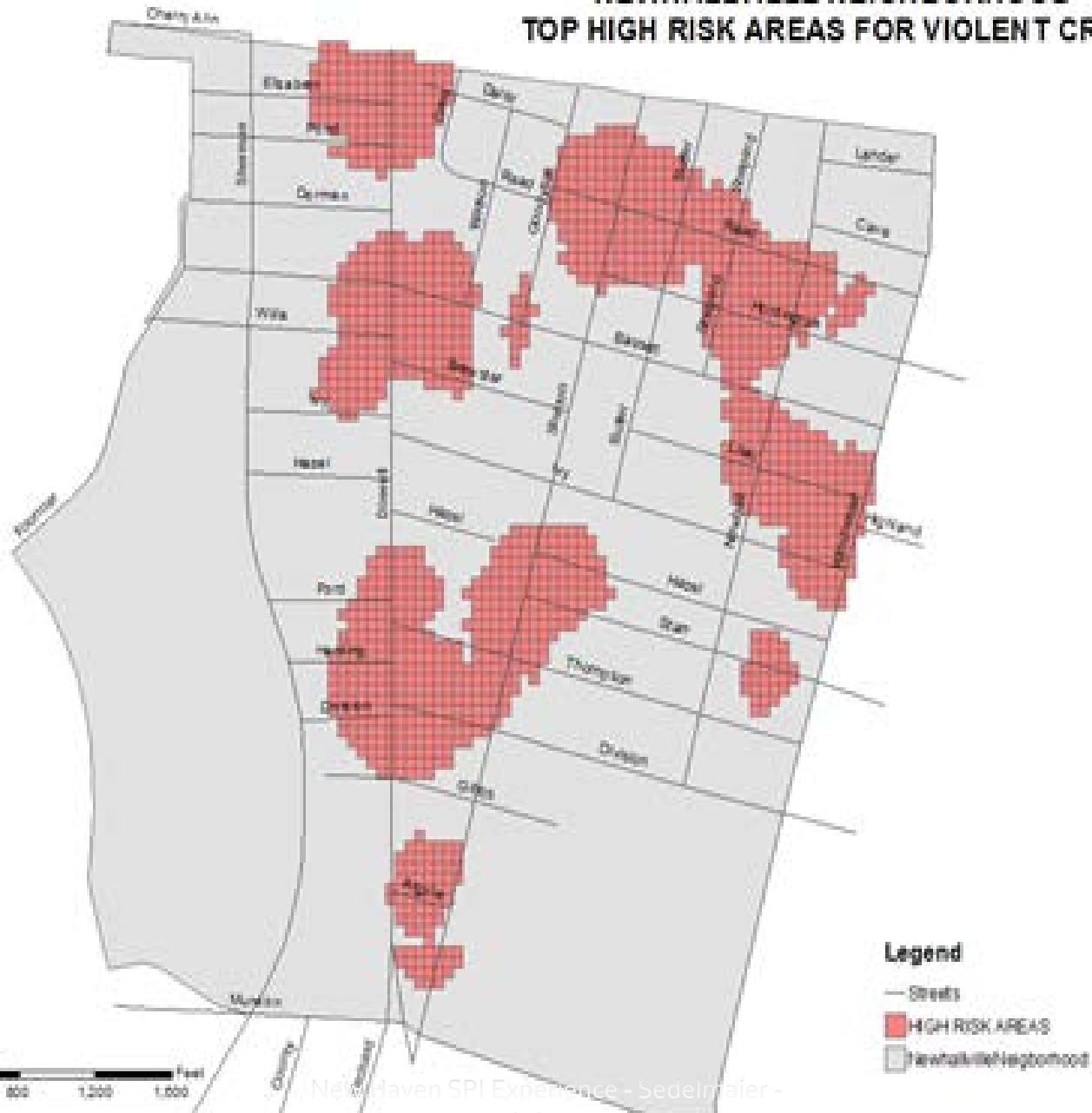
The New Haven Project

- FEB 2013: New class of 19 sergeants received two-week training in problem-oriented policing techniques, the SARA model, and basic leadership issues.
- MAR 2013: New recruit class receives lesson on basic principles of problem-oriented policing and the SARA model.
- MAY - JUN 2013: NHPD CAU identifies high-risk violent crime areas in Newhallville neighborhood using location quotient, risk terrain modeling.
- JUL 2013: Walking beats begin in Newhallville neighborhood with specific directive to use SARA techniques to address violent crime, reach out to local community.

Site Selection

- Newhallville – highest location quotient of crime in New Haven.
- NHPD CAU then created risk terrain models to identify risky areas in a manner more complete than relying on any single variable.
- The same criteria used to create the Newhallville risk areas were used to generate risk areas in other parts of New Haven.
 - Comparison neighborhoods chosen based on location quotient calculation for violent crime. The selected neighborhoods scored higher than the rest of the city.
 - Fair Haven
 - West River
 - Hill
 - Edgewood

NEWHALLVILLE NEIGHBORHOOD - TOP HIGH RISK AREAS FOR VIOLENT CRIMES



**EDGEWOOD NEIGHBORHOOD -
TOP HIGH RISK AREAS**

Walnut
Park
Harkness
Edgewood
Broadway
Elm
Maple
Myrtle
Winterberry
Fritchies
Elm T. Carver
Skidman

— STREETS
 TOP HIGH RISK AREAS
 EDGEWOOD NEIGHBORHOOD

[illegible]

— STREETS
 TOP HIGH RISK AREAS
 FAIR HAVEN NEIGHBORHOOD

WEST RIVER TOPOGRAPHY

Legend:

- ST (State)
- TO (Topography)
- WE (West River)

Townships shown: Livingston, Dutchess, Westbury, Putnam, Sullivan, Ulster, and others.

Roads shown: Tappan Zee Bridge, New York State Thruway, and others.

— STREETS
 TOP HIGH RISK AREAS
 WEST RIVER NEIGHBORHOOD

— STREETS
 TOP HIGH RISK AREAS
 HILL NEIGHBORHOOD

Data Collection – Violent Crime

- NHPD CAU produced weekly reports on Newhallville neighborhood.
 - Major Crimes (of which violent crimes are a subset)
 - CFS – Police-Initiated Calls vs Public-Initiated Calls
 - Comparison between RTM identified risk-areas, other areas
 - Major Crimes & CFS by TOD/DOW
- Measuring Change: A-B-A
 - 13 Weeks Prior, 13 Weeks Intervention, 13 Weeks Post.
 - Comparisons: 2012, comparison neighborhoods.
 - Seeking impacts on violent crimes, CFS

What Happened? (Neighborhood Level)

- Violent crime decreases in Newhallville
 - 19% reduction from pre-intervention through intervention period
 - 40% further reduction in the 13-week post-intervention period
 - Driven by sharp reduction in shootings
 - Significant difference from Edgewood neighborhood

What Happened? (RTM Area Level)

- Every violent offense decreases in Newhallville RTM areas, period-over-period
 - 36% reduction from pre-intervention through intervention period
 - 56% further reduction in the 13-week post-intervention period
 - Small raw numbers, but important reductions
 - RTM areas accounted for 60% of *all* violent crime in Newhallville before intervention; 47% during intervention
- Significant difference from comparison neighborhoods, but a caveat.
 - Seems due to robbery increase in Fair Haven.

Unforeseen Challenge: Labor Issues vs Treatment Integrity

- Union Contract and Treatment Integrity
 - **THIS ISSUE HAS IMPACTED ALL OTHERS**
 - Could not use static roster of officers for Newhallville walking beats – assignment goes to officer with lowest overtime hours.
- Traditional POP needs stable assignment
 - Individual or small team of officers remains dedicated to “their” problem for the duration of the issue.
 - How to implement with rotational assignment?

Comparing Models

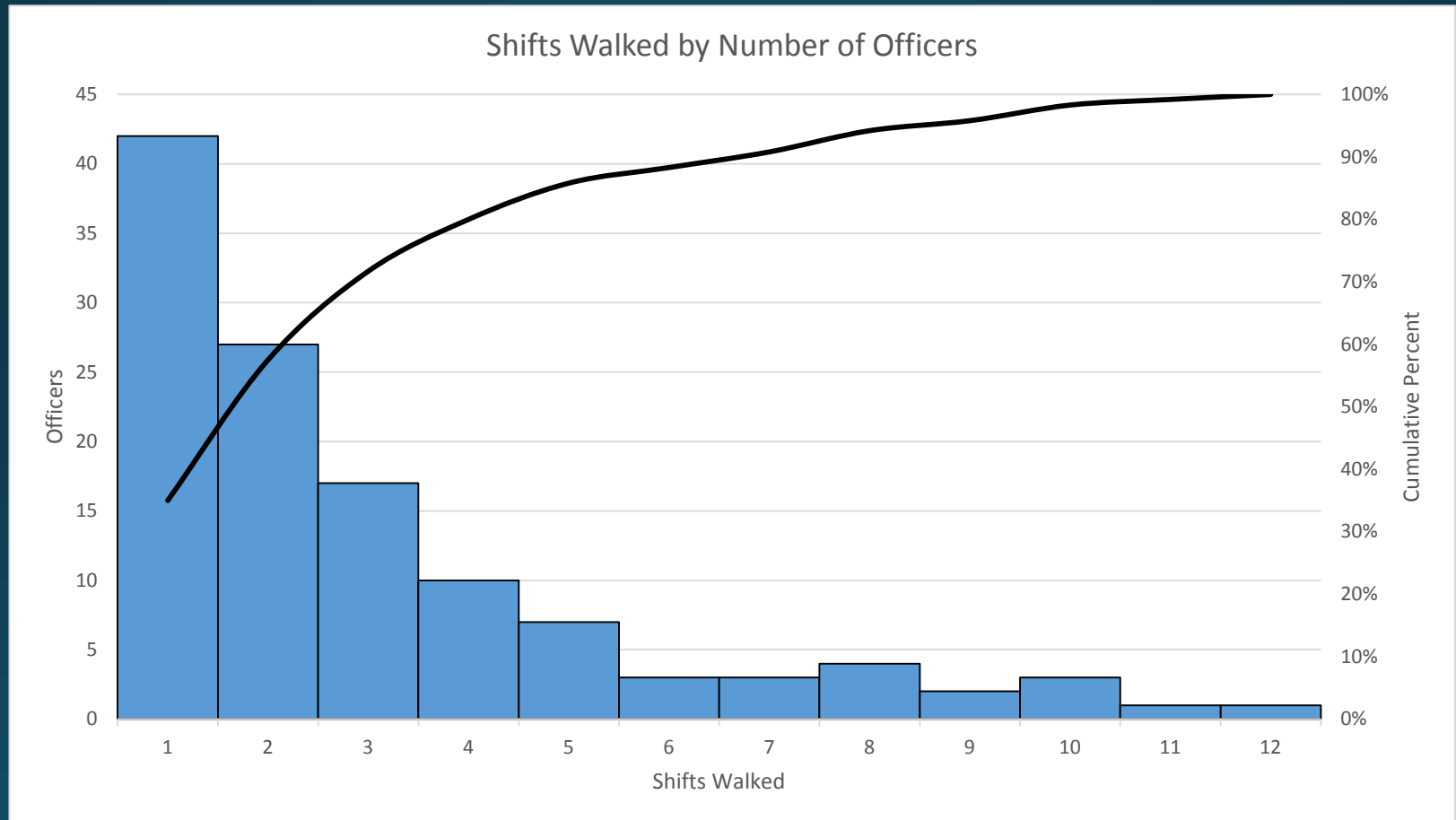
Traditional POP

- Individual officer:
 - Scans
 - Analyzes
 - Responds
 - Assesses

New Haven SPI – “Adaptive POP”

- Patrol officer
 - Scans
- DM/SGT/CAU
 - Analyzes
 - Develops Response to be implemented by Patrol
 - Assesses

Treatment Strength Concern



Comparing Frequent Officer Shifts vs Non-Frequent

- Activity log data
- No practical difference in citizen contacts, response activities
 - Frequent Officer shifts identified more emerging problems
 - May indicate comfort level between officers, community members
- Big Lesson: POP can work, even with rotational assignment!

Smart Policing in the Border City of Pharr, Texas: Lessons and Successes

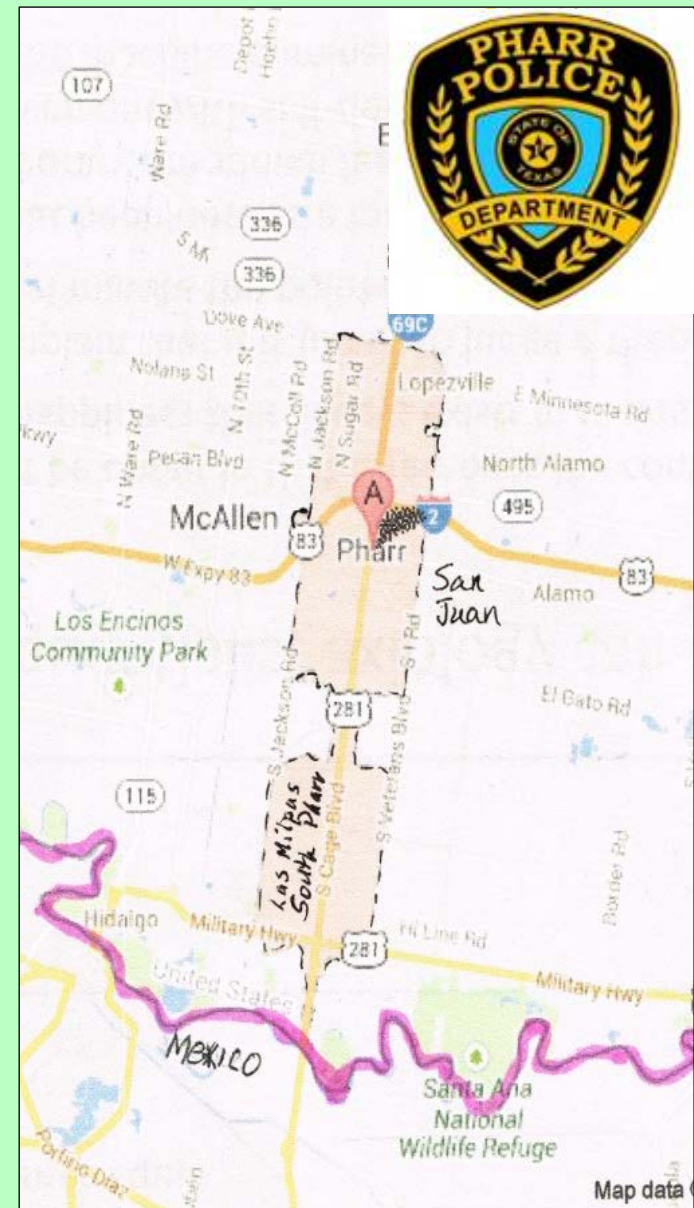
PHARR PD: Assistant Chief Joel Robles, Robert Garcia, and
Officers Chris Hernandez, David Trevino, and Irving Segura

RESEARCHERS: S. George Vincentnathan & Lynn Vincentnathan

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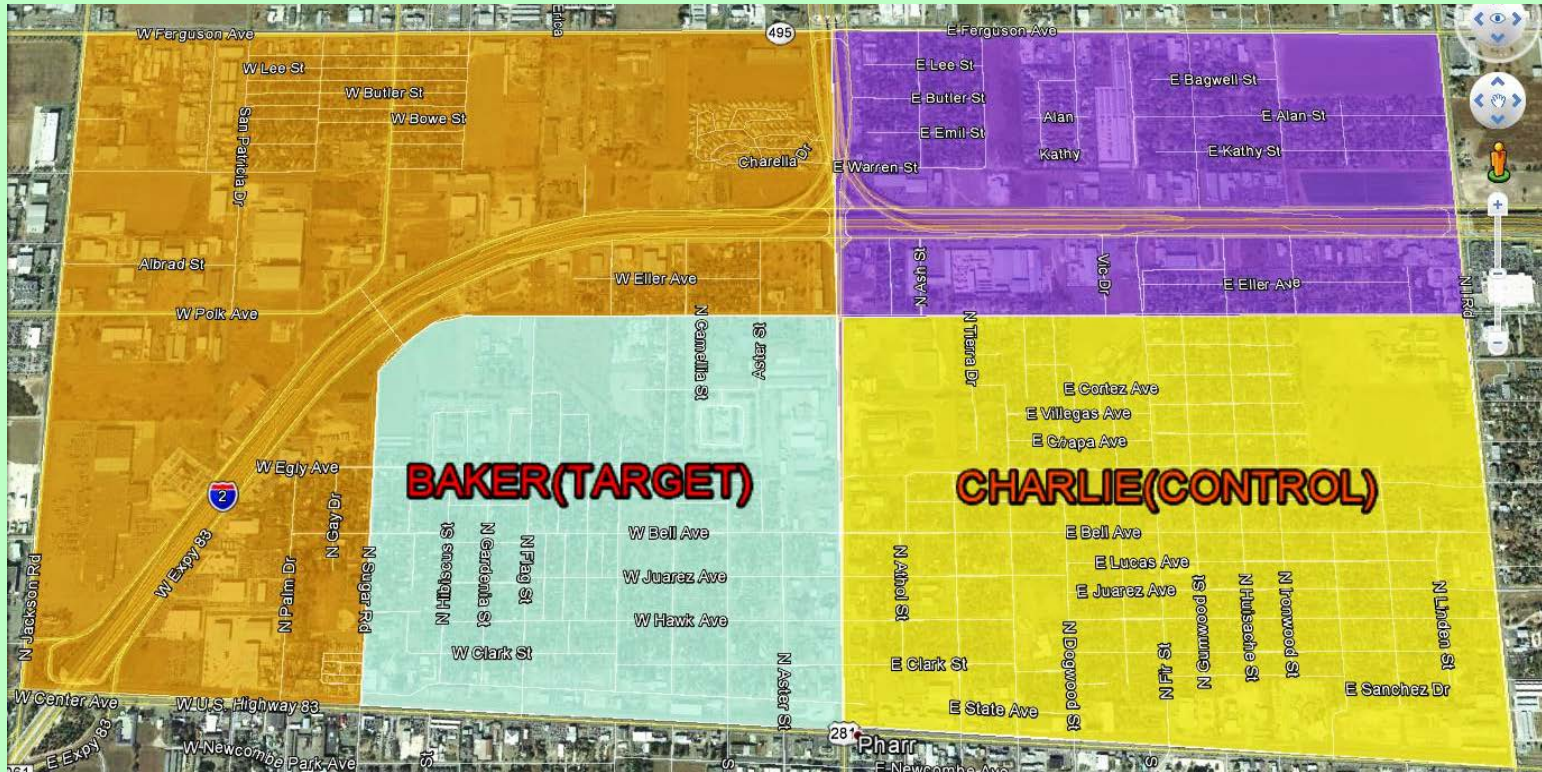


- ▶ Population 74,000
- ▶ 93% Latino
- ▶ Demographically young
- ▶ 36% below poverty line
 - crime
 - gangs
 - drug trafficking



3 Projects:

1. COP-POP (SARA) Place-Based Strategy



2. Offender-based Domestic Violence project
3. False alarm reduction project

C.A.P.E. STRATEGIES & EXPERIENCES

- ▶ The CAPE-trained officers became agents of change, implementing COP & SARA
 - Increase community trust
 - Obtain more tips and information
 - Facilitate community organization



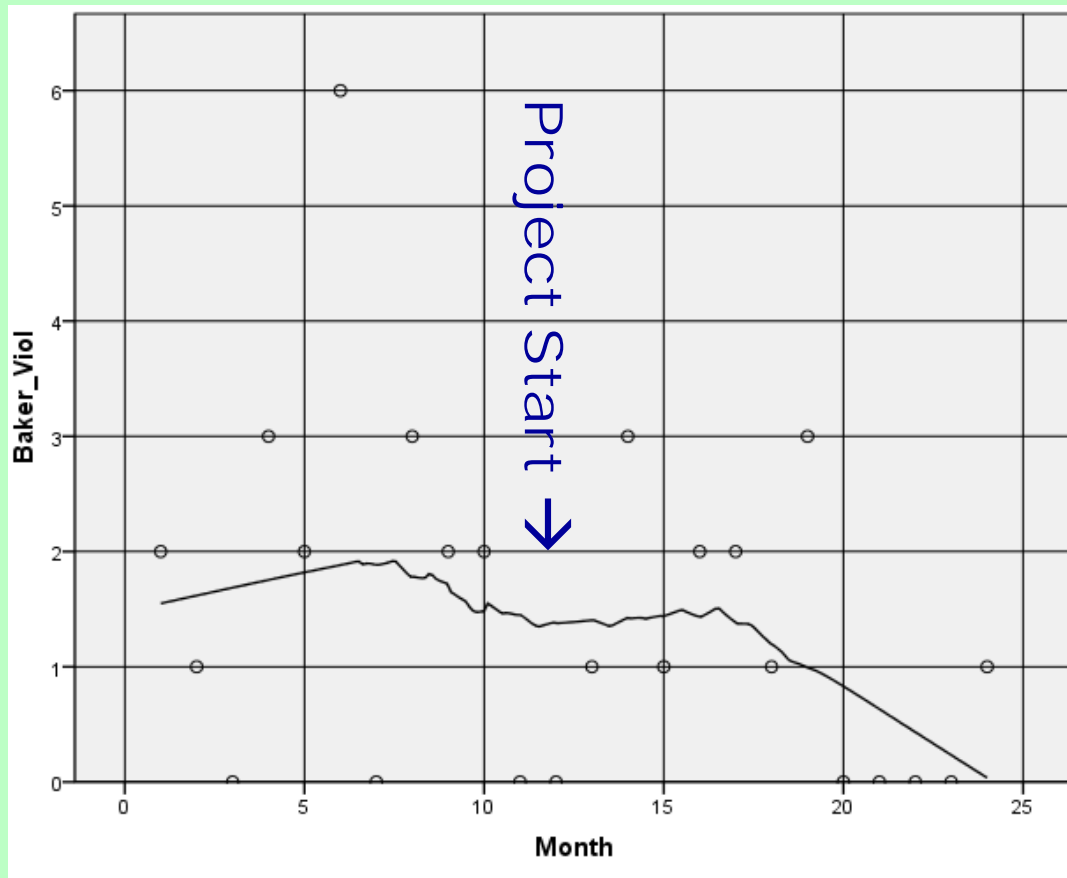
Proactive Patrol Tactics

- Operation Phoenix
- CARE Contacts
- Cruise Lights



SUCSESSES:

- ▶ Reduced UCR Agg. Assaults ($t = -2.6, p < .05$)
- ▶ UCR property crime seemed to increase
 - reporting of it increased (a success)



Loess curve for
violent crime over
2 years

IMPACT ON COMMUNITY – Baker area

- ▶ Pre-project community survey
- ▶ Residents and businessmen
- ▶ Post-project focus groups

SUSTAINABILITY of C.A.P.E.

- ▶ The Pharr PD administration is making sure the program continues by supplying officer time and equipment, such as UTVs
- ▶ New and enthusiastic C.A.P.E. officers are being trained by “veteran” C.A.P.E. officers
- ▶ Residents and businesses want and ask for the program

New UTV, Officer Hernandez & New CAPE-trained Officer



New CAPE-Trained Officer & Officer Segura At Red-Ribbon Event at an Elementary School





Non-significant research findings in police research

Lessons to be learned

Ashley Miller

March 4, 2015

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Overview

- Many SPI sites have documented significant crime decreases in their targeted areas, while others have been less successful.
- Reasons for this variation in success include:
 - Implementation problems,
 - Data analysis issues, and
 - Leadership turnover.

Findings

- Of the 38 SPI projects to date, the sites that did not experience statistically significant crime reductions that could be tied to their project were:
 - Cincinnati, OH
 - Joliet, IL
 - Lansing, MI

Cincinnati, OH

- Problem
 - Persistent robbery problem in the city's District 3
- Proposed SPI Solution
 - Investigated robbery problem, then implemented a series of prevention and intervention strategies over a period of 18 months
 - Targeted a one-mile corridor along two business thoroughfares that accounted for 28% of all robberies in 2009 in an geographic area less than 4% of the city

Joliet, IL

- Problem

- Gun related crime persistently high despite decreasing crime
- Clearance rate for gun offenses dropped under 20 percent due to residents' unwillingness to provide information to police

- Proposed SPI Solution

- Developed an intelligence-based, rapid response strategy called the Strategic Tactical Deployment (STD) program that involved weekly CompStat-like meetings focused on geographic analysis of gun crime and related offenses
 - The team identified specific hot spots and STD resources were deployed to those areas
 - Representatives from probation and parole attended these meetings and exchanged information on high-risk individuals under their supervision
 - Engaged citizens in crime reduction efforts through the Joliet Community Committee for SMART Policing

Lansing, MI

- Problem
 - Struggled with violent crime, gang-related drug dealing, and neighborhood decay
- Proposed SPI Solution
 - Expanded their Police Enforcement and Community Engagement (PEACE) program as part of the SPI, which conducted ongoing problem analysis and support, proactive targeted enforcement, a focused deterrence Drug Market Intervention, and community engagement

Challenges

- These sites experienced the following challenges to implementation and impact:
 - **Challenge 1:** Utilizing continuous, real-time problem analysis to identify persistent, manageable “hot spots”
 - **Challenge 2:** Program dosage
 - **Challenge 3:** Limitations of key stakeholders
 - **Challenge 4:** Disentangling SPI effects from larger crime trends

Challenge 1: Cincinnati, OH

- Issue:
 - Target area expanded from the initially proposed one mile corridor to a 1.5 mile wide area
- Outcome:
 - Limited effectiveness of program because the area was too large and did not adequately tap the street knowledge and expertise of patrol officers

Challenge 1: Joliet, IL

- Issue:
 - Information exchanges between police, probation, and parole officers did not play central role in program
 - Analysis generated at STD meetings were not translated into actionable intelligence
- Outcome:
 - All officers assigned to the program attended roll-call training that emphasized the purpose of the program, the need for accurate data collection, and the importance of maintaining the integrity of the identified target areas

Challenge 1: Lansing, MI

- Issue:
 - The nature of street-level drug dealing in Lansing shifted to a technologically-driven model
 - The dynamic nature of the target problem required the SPI team to shift their intervention away from the place-based approach (i.e., hot spots)
- Outcome:
 - Intervention designed and implemented was based on different assumptions
 - Reduced potential effectiveness of their intervention

Challenge 2: Cincinnati, OH

- Issue:
 - Over-relied on traditional, quantitative data from the police department
 - Increased the size of the target area substantially
- Outcome:
 - Responses did not sufficiently address the underlying causes of the problem
 - Expansion may have created a target area that was too large and weakened the intensity of the intervention

Challenge 2: Joliet, IL

- Issue:
 - STD teams continually moved around smaller areas within three sectors
 - Intervention may have lacked sufficient dosage
- Outcome:
 - Limitations regarding the intensiveness of the intervention, and the degree to which the effort was focused on stable “hot spots”
 - Officers’ activities were diffused—and perhaps diluted—across the sectors based on short-term analysis of crime patterns

Challenge 2: Lansing, MI

- Issue:
 - Number of violent crimes in targeted areas was relatively low
 - Concentrate proactive patrols in target areas during summer months over a three-year period
- Outcome:
 - Low number of violent crimes presents challenges for generating significant reductions in crime
 - Unclear whether the temporary nature of these “crackdowns” was sufficient enough to generate crime reductions

Challenge 3: Cincinnati, OH

- Issue:
 - County probation and parole departments were unable to share their records with the SPI team
 - SPI team could not determine how often robbery offenders were on probation or parole
 - Tension between project management and problem management
- Outcome:
 - Different units owned a different portion of the project
 - Disconnect in implementation of the SPI program

Challenge 3: Joliet, IL

- Issue:
 - Probation Department restricts authority of their officers in the field
- Outcome:
 - Limited enforcement options were available to the SPI team

Challenge 3: Lansing, MI

- Issue:
 - Nature of the target problem shifted considerably, away from a geographic-based drug dealing in two areas to a more mobile and dispersed network of activity
- Outcome:
 - Research partners struggled to apply a research design “on the fly” that would sufficiently capture program impact
 - Diffused intervention well outside of the original target areas

Challenge 4: Cincinnati, OH

- Issue:
 - Overly focused on robberies in the target area and gave small consideration to overall trends
- Outcome:
 - Could not fully examine the impact of the interventions during the first year of operation
 - Did not fully modify interventions in the second year that may have led to greater likelihood of crime reduction in the target area

Challenge 4: Joliet, IL

- Issue:
 - Struggled to isolate the effects of the intervention
 - Failed to maintain the integrity of the research design
 - Did not limit parole enforcement to the STD target areas
- Outcome:
 - The parole compliance component of the STD program was diffused through the city of Joliet
 - Diluted program impact reduced likelihood of documenting significant crime reductions in targeted “hot spots”

Challenge 4: Lansing, MI

- Issue:
 - Research design included both treatment and comparison areas
 - Integrity of research design was compromised because of the shifting nature of the crime problem
- Outcome:
 - Research partners were unable to disentangle any SPI-specific effects from larger crime trends

Lessons Learned

- Devise a strong process evaluation
- Important to thoroughly understand why a program did or did not produce the intended crime reduction benefits
- Think broadly about program impact, regardless of statistical significance

Lessons to be Learned

- The lessons learned from statistically non-significant research findings in the SPI should be applied to future police research, such as:
 - Evidence-based policing
 - Body-worn cameras
 - Early Warning Systems/Early Intervention Systems
 - Civilian Oversight

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