Population: 298,800
1000 sworn – 125 civilian personnel

2016 Violent Crime Rates
Per 100,000

<table>
<thead>
<tr>
<th>City</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
<td>386.3</td>
</tr>
<tr>
<td>Columbus</td>
<td>521.7</td>
</tr>
<tr>
<td>Louisville</td>
<td>675.8</td>
</tr>
<tr>
<td><strong>Cincinnati</strong></td>
<td><strong>910.1</strong></td>
</tr>
</tbody>
</table>

Cincinnati, Ohio
Cincinnati Shootings

Average 410

+2 StDev 459
CINCINNATI INITIATIVE TO REDUCE VIOLENCE

New Violence Reduction Strategy
1. Grounded in crime-place theory
2. Evidence-based
3. City-wide response
P.I.V.O.T.
Place-based Investigations of Violent Offender Territories

East Westwood

Westwood

Hyde Park
Violence Clustering

- Violence is concentrated across places, offenders, victims
  - 80-20 Rule
- Most violent crime, across any city, occurs in small, identifiable micro-locations

![Graph showing frequency of crime distribution across places, rank ordered from most crime to no crime.]

- A few have most of the crime
- Some have a modest amount of crime
- Most places have little or no crime

Places, rank ordered

Frequency of Crime
Systemically Violent Locations: Identified 29Dec15

**Systemically violent locations identified using shooting, robbery, gun offense, and weapons-related calls-for-service data**

- SVLs
- Districts
- Neighborhoods
- Gun Violence Level

23 total locations were identified using 1/3/5 yr periods of shootings, robberies, offenses committed with a gun, and weapons-related CFS.

SVLs were identified using a 400 ft buffer around clusters of 8+ adjacent cells (100'x100') of concentrated gun violence.

Data prepared on: 5/26/2017

Prepared by: SCRM B. Christenson
of residents that…
[372x457] Planned to move out of their community in the next year

| % | 25.1 |
| Felt their neighborhood was unsafe | 46.7 |
| Worried about becoming a robbery victim | 70.0 |
| Worried about becoming an assault victim | 67.0 |
| Worried about the safety of neighborhood children | 80.7 |

Gave specific examples of what they thought police should do | 73.3 |

n = 412
Officer Safety

Micro Hotspots 2012-2015

• 67 of 460 officer injuries
• 1,516 of 6,315 non-compliant behaviors
  - obstruction of official business
  - resisting arrest
  - assaults on police officers
Analysis
Why do almost all persistent hotspots eventually reappear, even after targeted police interventions?
4 Types of Crime Places
(Madensen & Eck, 2013)

- **Comfort Spaces**
  - Hammer, 2011

- **Corrupting Spots**

- **Convergent Settings**
  - Felson, 2013

- **Crime Sites**

What we see on crime maps

What is unseen without systematic investigations
Can we develop a systematic problem-solving process that will sustain crime reductions in persistent hotspots?
P.I.V.O.T.
Place-based Investigations of Violent Offender Territories

Identify Locations → SCANNING

Places → Offenders → ANALYSIS

Disrupt Networks → RESPONSE / ASSESSMENT

Sustain Reductions
All-City P.I.V.O.T. Team

City Planning  Buildings & Inspections  Community & Economic Development  Health Department

Fire Department  Law Department  Environment & Sustainability  Public Services

Transportation & Engineering  Keep Cincinnati Beautiful  Cincinnati Recreation Commission  Parks Department

Community Partnering Center  Port Authority  Community Development Corporations  Local Community Councils

Neighborhood Enhancement Program
How can we more effectively monitor real-time changes in violent hotspots (when gun violence is a relatively rare event)?

Weekly Shooting Offenses
Gun Violence Metric
Weighted by incident type and data source

- Shooting Incidents: 20 pts
- Robberies: 10 pts
- Gun Offenses: 5 pts
- Shots Fired Calls-for-Service: 1 pt
Gun Violence Metric
Weighted by distance and time

0 – 27.9 days ago = **1.0** x weight
28 – 55.9 days ago = **0.8** x weight
56 – 111.9 days ago = **0.6** x weight
112 – 167.9 days ago = **0.4** x weight
168 – 224 days ago = **0.2** x weight
Will police investigations uncover the crime-place networks that theory and research suggest drive these chronic hotspots?

Analysis Question #4
Site #1: East Westwood
East Westwood
East Westwood: Place Network

- Crime Site
- Convergent Setting
- Corrupting Spot
- Comfort Space
Site #2: Westwood
Violence Score Chart Goes Here

Westwood

Harrison/McHenry Violence Scores
June 1, 2015

 Violence score is a composite metric derived from shootings, robberies, gun offenses, and weapon-related calls for service.

Data prepared on 9/22/2017
Prepared by: SCRM S. Christenson
Westwood: Place Network
Response/Assessment
Site #1: East Westwood Responses

1) Parking Restrictions (6/24/16)
2) Control asserted* at 2323 Baltimore (7/19/16)
   - Property transferred
3) Control asserted* at 2321 Baltimore (8/26/16)
4) Control asserted* at 2315 Baltimore (11/16)
5) Directed Patrols (Phase I & II – 8/22, 10/24/16)
6) Light Tower Intervention (12/21/16)
7) Ongoing Intervention with 2311 Baltimore (7/16-current)
8) 2347 Baltimore (Condemned/Demolition 11/30/16)
9) 1875 Hawkins – Demolition
   * Based on observations/facts-to-date
Site #2: Westwood Responses

1) Problem Solving Project, Shell Station (7/6/16-12/29/16)
2) U.S. Market Search Warrant (7/15/16)
3) Bus Stop Closure (8/14/16)
4) U.S. Market Closure (9/6/16)
5) Directed Patrols (Phase I & II – 8/22/16, 10/24/16)
6) 3014 McHenry Intervention (12/14)
7) High Profile Camera/Signs (12/2/16)
8) Bracken Woods Problem Solving Project (12/16)

* Based on observations/facts-to-date
Neighborhood Enhancement Program (NEP) 2017 – New Partnership with P.I.V.O.T.

- Collaborative effort to improve quality of life in a focused community area
- Community members commit to work with the City, nonprofit agencies, and corporate partners to utilize strategies and focus stakeholders to improve identified areas
- 4-month pre-planning; 90-day blitz focused on “signature projects”
- Progress measured 30, 60, 90 days, & 1 year after
COMING SOON
BASKETBALL IN FIELD
Home of the Praise
At Third Presbyterian Church

COMING SOON
CHILDREN'S PLAYGROUND
At Third Presbyterian Church
Welcome
East Westwood/Westwood
NEP Kickoff
WE CARE

BLOCKWATCH AREA

WE CALL POLICE

East Westwood Improvement Association, Inc.
Continued Assessment
Site #1: East Westwood

Overall Trends

Rest of city = -8.7%
E. Westwood = -88.9%

*Weighted Displacement Quotient* = -0.139

Target area improved; slight increase in the buffer area
Site #2: Westwood

Overall Trends
Rest of city = - 7.9%
Westwood = - 71.4%

Weighted Displacement Quotient = 0.811
Buffer area improved; strong evidence of diffusion of benefits
Westwood
Neighborhood Shootings Per Month: Pre v. Post PIVOT

*Pre-PIVOT shootings/month calculated using shootings 8/1/2014 - 7/31/2016; Post-PIVOT shootings/month calculated using shootings 8/1/2016 - 9/30/2017

Data prepared on: 9/26/2017
Prepared by: SCRM B. Christenson
Weekly Shooting Offenses: Baltimore / McHenry (East Westwood)

- Pre-PIVOT Avg = 24.5
- StDev = 20.6
- 109 days without a shooting
- 121 days without a shooting
- 140 days without a shooting
- 246 days without a shooting

Weekly Shooting Offenses: Harrison / McHenry (Westwood)

- Pre-PIVOT Avg = 28
- StDev = 13.2
- 271 days without a shooting
# Post-Project Community Surveys

**East Westwood/Westwood**

<table>
<thead>
<tr>
<th>% of residents that...</th>
<th>Pre</th>
<th>Post</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned to move out of their community in the next year</td>
<td>25.1</td>
<td>10.9</td>
</tr>
<tr>
<td>Felt their neighborhood was unsafe</td>
<td>46.7</td>
<td>32.7</td>
</tr>
<tr>
<td>Worried about becoming a robbery victim</td>
<td>70.0</td>
<td>66.0</td>
</tr>
<tr>
<td>Worried about becoming an assault victim</td>
<td>67.0</td>
<td>56.2</td>
</tr>
<tr>
<td>Worried about the safety of neighborhood children</td>
<td>80.7</td>
<td>83.7</td>
</tr>
<tr>
<td>Gave specific examples of what they thought police should do better</td>
<td>73.3</td>
<td>27.3</td>
</tr>
</tbody>
</table>
Implementation Challenges

• Staffing
• Buy-in from All-City P.I.V.O.T. Team members
• Length of investigations and responses

Future Directions

• Current P.I.V.O.T. location
  – Avondale
• Continued NEP partnership
Key

“Takeaways”
Place-Based Investigations of Violent Offender Territories

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Cincinnati Police Department

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Cincinnati Police Department

NEP Manager – Ethel Cogen, B.U.P.
City of Cincinnati – Department of Community and Economic Development

Dr. Tamara D. Madensen
University of Nevada, Las Vegas

For more information:
http://www.cpdpivot.com