Project Background

Drawing from a substantial body of research on the positive impact that hot spots policing can have on reducing violence, this plan includes three components:

1. A near term strategy meant to substantially increase police visibility at addresses where violent crime is concentrated and prioritizing street-level deterrence in these areas.

2. A mid term strategy focused on violent places within the city using a Problem-Oriented, Place-Based Policing approach.

3. A longer term strategy that will utilize a Focused Deterrence strategy to help break the cycle of violence among the small number of repeat and high-risk offenders who are responsible for committing most of the violent crime in Tacoma.
Hot Spots Policing Strategy

Beginning in early July, TPD began executing its near-term, hot spots policing strategy:

- Focused on violence-prone addresses by increasing police visibility at or near those locations to deter violent offenders.

- Goal: Drive down violent crime in and around these areas thereby impacting crime levels within larger geographical areas (e.g., patrol sectors)
Treatment Methodology

• Violent street crime analysis to identify hot spots in the previous 90 days and/or 12 months:
  • Murder/non-negligent manslaughter
  • Robbery (individual or business)
  • Aggravated assault (not including family violence)

• Unit of analysis is violent *incidents*

• Officers are dispatched to recommended hot spots during high-risk hours
  • Officers are instructed to be within sight of the hot spot address for least 15 minutes with all vehicle lights illuminated
    • Otherwise, addresses received normal patrol and/or response to calls for service
Period 1 Hot Spots Recap

• Period 1 hot spot treatment: **July 6-October 5, 2022**
  • 16 treated addresses based on crime patterns during the 90 days and/or 12 months leading up to treatment
  • Violent crime fell 37% in the treated locations compared to the previous 3 months and was 12% lower than last year during the same time period
  • Violent crime levels dropped from 10-78% at treatment locations depending upon sector when compared to prior year monthly averages
    • Crime fell in every sector of the city at the treated addresses, in the surrounding catchment areas, and in all other areas of the sectors
    • Violent crime dropped 45-56% in catchment areas - No evidence of displacement
  • TPD officers achieved a fidelity rate of 92%
Period 2 Hot Spots Treatment

• Period 2 hot spot treatment timeline: **October 6 - December 5, 2022**

• As in Period 1, all locations in the city were analyzed for patterns of violent crime

• Based on the analysis, 15 addresses were identified for treatment based on crime patterns over the previous 90 days and/or 12 months
  • Peak crime hours/days of the week were identified for each location
Analyses Plan

1. Fidelity: Alignment between expected and actual treatment


3. Year-to-year violent crime comparison during pre-treatment and treatment periods

4. P2 violent crime activity vs. previous 12 month average
   - Treatment locations, catchment areas, and city-wide; also by police sector
   - Catchment areas: 1,000 ft buffer zones around the treatment location used to check for crime displacement or diffusion of benefits
Results

• Fidelity: Alignment between expected and actual treatment

• At least one officer was present at the treatment location within the hour expected 97% of the time
  
  • TPD’s fidelity rate improved 5% from P1 while excessive dispatches were reduced by over 8%

<table>
<thead>
<tr>
<th></th>
<th>Expected Treatment</th>
<th>Single Officer Dispatches</th>
<th>Single Officer Treatment</th>
<th>% Missing Dispatches</th>
<th>Excessive Officer Treatment</th>
<th>Average Time On Scene</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2 Fidelity Totals</td>
<td>3,894</td>
<td>3,773</td>
<td>96.9%</td>
<td>-3.1%</td>
<td>2.7%</td>
<td>0:18:39</td>
</tr>
</tbody>
</table>
Results

Year to Year Comparison of Average Monthly Violent Crime Incidents
(August 6, 2021-December 5, 2021 vs. August 6, 2022-December 5, 2022)

Aug 6 - Oct 5 2021 Monthly Average: 12.5
Oct 6 - Dec 5 2021 Monthly Average: 13.0
Aug 6 - Oct 5 2022 Monthly Average: 18.5
Oct 6 - Dec 5 2022 Monthly Average: 10.5

48.0% higher
19.2% lower
Violent Crime Incidents Per Month (Oct 6 2021 - Dec 5 2022):
Treatment & Catchment Locations

Treatment period appears in BOLD

Violent Crime Incidents

- All Treatment Locations
- Catchment Locations
<table>
<thead>
<tr>
<th>Category</th>
<th>% Crime Increase (Previous 12 months vs. treatment)</th>
<th>% Crime Decrease (Previous 12 months vs. treatment)</th>
</tr>
</thead>
<tbody>
<tr>
<td>City-Wide</td>
<td>0.7%</td>
<td>10.9%</td>
</tr>
<tr>
<td>Non-Treat/Catchment</td>
<td>4.4%</td>
<td>-36.0%</td>
</tr>
<tr>
<td>Locations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Treatment</td>
<td>3.7%</td>
<td>-76.0%</td>
</tr>
<tr>
<td>Locations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catchment Locations</td>
<td></td>
<td>-77.8%</td>
</tr>
<tr>
<td>Treatment: Murder</td>
<td></td>
<td>-100.0%</td>
</tr>
<tr>
<td>Treatment: Robbery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Ind.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment: Robbery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Bus.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment: AA-NFV</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Average Monthly Violent Crime Changes:
% Change Previous 12 Months vs. Treatment Months
Sector Average Monthly Violent Crime Changes in Treatment and Catchment Locations:
Incident & % Change Previous 12 Months vs. Treatment Months

<table>
<thead>
<tr>
<th>Sector 1</th>
<th>Sector 2</th>
<th>Sector 3</th>
<th>Sector 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treat (N=4)</td>
<td>Catch (N=1)</td>
<td>Treat (N=5)</td>
<td>Catch (N=4)</td>
</tr>
<tr>
<td>Treatment Locations Crime Incident Decrease</td>
<td>Catchment Locations Crime Incident Increase</td>
<td>Treatment Location % Crime Decrease</td>
<td>Catchment Locations % Crime Increase</td>
</tr>
<tr>
<td>-0.3</td>
<td>0.3</td>
<td>-4.0</td>
<td>-1.3</td>
</tr>
<tr>
<td>5.3%</td>
<td>-34.9%</td>
<td>60.0%</td>
<td>-29.4%</td>
</tr>
</tbody>
</table>

% Incident Change

Treat | Catch | Treat | Catch | Treat | Catch | Treat | Catch

Crime incidents

-8 -6 -4 -2 0 2 4 6 8

% Incident Change

-100% -80% -60% -40% -20% 0% 20% 40% 60% 80% 100%
Period 2 Summary

- Violent crime levels continue to flatten since spike in late 2021

- Across all treated locations during Period 2, average monthly violent crime incidents fell 36% compared to the 12 months prior to treatment
  - Catchment areas experienced a slight (3.7%) increase in crime

- Compared with the same period in 2021 (October 6-December 5), violent crime levels were down 19% in treated locations

- Fidelity to the treatment plan improved to 97%

- Next steps
  - Period 3 hot spots is underway
  - Preparation for POPBP is set to begin in Period 4
Next Steps

• Mid-Term Strategy (POPBP) Problem-Oriented, Place-Based Policing

• POPBP strategies are carefully tailored to address underlying conditions that contribute to recurring problems in crime-prone locations and can be more effective at reducing crime than merely increasing or intensifying traditional police activities.

• POPBP involves city stakeholders (in addition to the TPD) who can help address the underlying conditions that make a particular location attractive for crime

• The POPBP strategy in the City of Tacoma is tentatively scheduled to begin in March 2023
Mid-Term Strategy (POPBP)

• An initial POPBP site has been identified via analysis of city-wide crime, arrest, and calls for service data

• UTSA researchers have provided the initial training to the POPBP Advisory Group:
  • Department heads from within the City of Tacoma

• During the next 4-8 weeks, the Advisory Group will:
  • Recommend mid-level members from their departments to serve on a POPBP working group; identify community stakeholders
  • Working group will collect and analyze data to identify underlying problems at the site and develop evidence-based solutions
Mid-Term Strategy (POPBP)

• UTSA researchers will:
  • Advise on the development of a site-specific operations plan
    • Process and impact metrics for each problem/solution
  • Conduct process & impact evaluation of the POPBP
  • Follow key outcome metrics over time (e.g., 24-36 months) to track long-term impacts
  • Provide semi-annual reports after POPBP implementation and suggest adjustments as needed
Questions?

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