## Shotspotter Report <br> September 2022



Fourth District, Cleveland Division of Police
Commander Brandon Kutz

## Shotspotter Pilot Project

- Funded by the Catherine L\& Edward A. Lozick Foundation with support from the Cleveland Police Foundation
- Intended to be a two year pilot project to test the efficacy and value of the technology to address violent crimes involving gunfire


## Shotspotter Pilot Project

- Three (3) square miles selected in the Fourth District ( $18 \%$ of the Fourth District)
- Three years of crime data analyzed for deployment location (2016-2018)
- $37 \%$ of all calls for shots fired
- $37 \%$ of all felonious assaults
- $45 \%$ of all homicides
- Go Live Date: November 4, 2020


## How It Works and How We Use it



## Alerts!

2020 Total Alerts: 604
Average Daily Alerts: 10.6

Single Gunshot Alerts: 271

Multiple GS Alerts: 384

Average Shots Per Alert: 4.3 Average Shots Per Alert: 3.8 Average Shots Per Alert: 3.6


## Evidence Collected

Incidents with Evidence Collected: 548

Shell Casings Collected: 3272

NIBIN Leads Generated: 415

## Community Outreach

## 4479 <br> Incidents with Community Outreach

Homicides (Year to Date: August 31)


## Robberies with Firearms (YTD: August 31)



## Felonious Assaults with Firearms (YTD 8/31)



## Calls for Shots Fired (Year to Date: August 31)



Shots Fired 2016-2018

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Shots Fired 2021

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Shots Fired 2022

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Fel Asslts 2016-2018

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Fel Asslts 2021

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Fel Asslts 2022

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Homicides 2016-2018

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Homicides 2021

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Homicides 2022

$\square$ Shotspotter Area $\square$ D4 Non-Shotspotter

Weapons Arrests in the Fourth District


## Response Times: 2022 YTD



How Often Does the Public Call for Gunfire?

## 2020

2021
2022
-13\%
-9\%

## CFS Shots Fired Information Matched to ShotSpotter Alerts

3 Minutes | Cleveland PD received 156 Calls For Service out of 7,666 ShotSpotter |
| :--- |
| alerts within 3 minutes that were located within 300 feet of point of the firing |
| location. |
| On average, these calls were 127 feet from the gunfire location. |

## 12.0\%

15 Minutes
Cleveland PD received 675 Calls For Service out of 7,666 ShotSpotter alerts within 15 minutes that were located within 1-Mile of the point of firing.
On average, these calls were 1,201 feet from the gunfire location.

## Officer Behavior and Shotspotter

Uses of Force<br>ONE use of force since launch (Level 1: Pistol Point)

## Citizen Complaints <br> (OPS)

There are ZERO OPS complaints associated with Shotspotter calls for service

Policy Violations
ONE incident with policy violations involved. (bodycamera and evidence mishandling violation)

## Error Rates: November 2020-August 31, 2022


$\square$ No Error $\square$ False Negative $\square$ Missed Incidents $\square$ Mislocated

## U.S. Cost of Gun Violence

The cost of gun violence in the United States was $\$ 280$ Billion in 2020. This is up from $\$ 229$ Billion in prior years. These costs are obtained from Everytown Research Institute, Giffords Law Center and National Institute for Criminal Justice Reform. The annual numbers focus on medical bills, policing and criminal justice, employer costs, work loss and quality of life costs.

The costs of a homicide exceed that of an assault firearm crime. However, the rate of assault firearm cases far exceed that of a homicide at a rate of 5 to 20 times more.

ShotSpotter alerts provide officers with actionable intelligence, to arrive at the scene timely and safely. This will allow them to secure the scene, render aid, locate victims, witnesses and evidence which contributes to a reduction in gun-related homicides and an increase in investigatory information.

Annual Nationwide
Costs

## Sources:

https://maps.everytownresearch.org/everystat\#cost
https://lawcenter.giffords.org/resources/the-economic-cost-of-gun-violence/
https://costofviolence.org

## Cleveland Cost of Gun Violence

The average cost of a homicide in this region is $\$ 1.3 \mathrm{M}$ per person and non-fatal shootings cost $\$ 775 \mathrm{~K}$ per person.

These costs include crime scene, hospital, criminal justice, victim support and lost revenue.

These costs go beyond a monetary loss to affect those living in areas of gun violence and being exposed to it regularly.

This trauma is often invisible yet has long-term effects on the individual, their mental and emotional state as well as those around them and the communities they live in.

Homicide Costs in 2021

Following are reference slides



## Weapons Arrests



## Use of Force Associated with Shotspotter Alerts



