



# Aurora Police Department



Sound Thinking Contract Renewal



We are seeking to renew our contract with Soundthinking, Inc. for their ShotSpotter product for a period of 3 years.

# How it works:



1

## Gun is fired

When a gun is fired, the sound of a muzzle blast radiates outward.

2

## Gunshot is Detected and Located

Acoustic sensors are triggered by the impulsive sound. The sound is classified as a gunshot using artificial intelligence and triangulation determines the precise location.

3

## Gunshot is Reviewed

The data is relayed to the ShotSpotter Incident Review Center where analysts quickly audit the data and publish confirmed gunshots to police.


4

## Police Response

Alerts are sent to dispatch centers and patrol officers' smartphones and MDTs for immediate response. The entire process takes less than 60 seconds.



# What our officers and dispatchers see



2255 Clarke Ave  
MetropolisWest

today 03/28/2023 @ 07:00:00

AREA: /Beat 3 CAD: SHOTSPOTTER ID: 9751-aYRBAkHC

REPORT AUDIO

ACTIVITY

reviewer@shotspotter.com: 16 minutes ago  
Modified CAD to 23-1234

reviewer@shotspotter.com: 16 minutes ago  
Acknowledged

system: 3 hours ago  
Published

[Chat](#) or email [support@soundthinking.com](mailto:support@soundthinking.com)

Search

2255 Clarke Ave  
MetropolisWest  
07:00:00 - 3 hours ago

Clarke Ave

Schembri Ln

Garden St

4 82

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# Advantages of system

- Decreased response time
- Decreased delays in getting gunshot wound victim's medical treatment
- Increased apprehension of shooting offenders
- Improved evidence collection and recovery of firearms
- Notification of events with no 911 calls

# Our experience:

## **Shootings that occurred in the 2 square mile area that has ShotSpotter coverage**

2022 (7/28-12/31) – 22 of 59 shootings occurred in the SS area (37%) 127 total shootings in 2022

2023 – 53 of 132 shootings occurred in the SS area (40%)

2024 – 34 of 65 shootings occurred in the SS area (52%)

2025(YTD) – 14 of 42 shootings occurred in SS area (33.3%)

## **Confirmed Shootings with No 911 call, where we received alerts from ShotSpotter:**

2022 (7/28-12/31) – 10

2023 – 24

2024 – 14

2025(YTD) – 7

## **On-scene arrests resulting from ShotSpotter incidents:**

2022 (7/28-12/31) – 11

2023 – 7

2024 – 5

2025(YTD) – 2



# Our experience (cont'd):

## **Recovered the following from ShotSpotter incidents:**

2022 (7/28-12/31) – 7 firearms/ 180 shell casings from 21 incidents

2023 – 7 firearms/ 271 shell casings from 40 incidents

2024 – 5 firearms/ 239 shell casings from 29 incidents

2025(YTD) – 3 firearms/59 shell casings from 11 Incidents

## **ShotSpotter success stories**

# Renewal cost:

Year One (7/25-7/26): \$70,000 per sq. mile x 2 sq miles = \$140,000

Year Two (7/26-7/27): \$70,000 per sq. mile x 2 sq miles = \$140,000

Year Three (7/27-7/28): \$70,000 per sq. mile x 2 sq miles = \$140,000

Total three-year cost: \$420,000

2025 budget included \$147,000 a year (for 3 years) in funding for this renewal. However, we were able to negotiate the original quoted price down by \$7,000 a year. This maintains the price we have been paying since 2022. Saving \$21,000 over the course of the 3 years, from what was quoted and budgeted.



# Funding source

- Costs for 2025-2028 have been budgeted through a decision package approved last fall.

# Shotspotter customers

## Illinois Cities using ShotSpotter:

- North Chicago
- Calumet City
- Rockford
- Freeport
- Kankakee
- Peoria
- Chicago Heights
- Springfield
- Elmwood Park

## Major cities using ShotSpotter:

- New York City
- Oakland, CA
- San Francisco, CA
- Baltimore, MA
- Las Vegas, NV
- Miami/Dade, FL
- Minneapolis, MN
- Boston, MA
- Detroit, MI
- Kansas City, MO
- Denver, CO
- Milwaukee, WI



Thank  
You