



# Crime Prevention Technology Update

11/10/2020

# Police Department: Crime Prevention Investments

• <b>Dedicated Crime Prevention Programs</b>	<b>\$1,364,783</b>
• Community Outreach Events	\$5,000
• Outreach Brochures	\$7,000
• Crime Analysis Software	\$55,000
• Homeless Outreach Team	\$255,000
• 3 Analysts & Crime Prevention Coordinator	\$432,193
• 2 Clear and 3 Boys and Girls Club officers	\$610,590
• <b>Officer Personnel (Hillard Heintze)</b>	<b>\$16,492,857</b>
• Officers' time outside of crime response (40%)	
• <b>TOTAL</b>	<b>\$17,857,640</b>



# Total Citywide: Crime Prevention Investments

Investment	Amount
Comm. Dev. Neighborhood CP	\$ 329,491
Crime Prev. Through Env. Design	\$ 95,000
Econ. Recovery Investments (ERRIS)	\$ 194,000
SAFE Task Force	\$ 100,000
Police Crime Prevention Programs	\$ 1,364,783
Officer Time for Crime Prevention	\$ 16,492,857
<b>Total</b>	<b>\$ 18,576,131</b>



Police Strategic Plan strategy to shift to neighborhood policing, which will increase crime prevention activities and investment for officers.

# Gun Crime Increase: 2019-2020

	Jan-Oct 2019	Jan-Oct 2020	% Increase
Shots Fired	371	851	129%
Weapon Firing	171	530	210%
Gun-related Agg Assault	110	174	58%
Murder Attempt	22	65	195%
Willful Killing - Gun	10	18	80%

# Operation Safe Neighborhoods

**Strategy:**

Placed high-visibility uniform and plainclothes patrols in patrol beats identified by data. Using foot, bike, cruiser and plainclothes patrols as directed by the Incident Commander, GRPD was able to decrease response times to violent acts, remove several firearms, and make several misdemeanor and felony arrests.

**Outcomes:**

Date	Citizen Contacts	Misd. Arrests	Felony Arrests	Guns Recovered	Overtime Costs
Sept 18	57	8	9	9	-
Sept 19	58	5	2	1	-
Sept 20	40	5	5	0	-
					\$87,308
Oct 10	26	4	3	1	-
Oct 11	5	5	6	4	-
Oct 30	1	3	2	0	-
					\$35,475
<b>TOTALS</b>	<b>187</b>	<b>30</b>	<b>27</b>	<b>15</b>	<b>\$122,783</b>



# Crime Prevention Technology Opportunities: Why invest?

- Recent increase in violence, especially gun crime, is unacceptable
- Crime prevention technology has the potential to disrupt current trends
- Crime prevention technology can be deployed quickly
- Crime prevention technology is cost effective
- Other crime prevention strategies also are important
  - Not an either/or situation
  - Technology can help officers to respond more quickly and effectively
  - Technology can help bring down the level of violence so other strategies can take root

# Crime Prevention Technology Opportunities: Gunshot Detection (ShotSpotter)

- Series of sensors positioned within a defined area that detect gunfire
- Expert review confirms and pinpoints location within 8 feet
- Used by more than 100 cities across the country
- Human voices and street noise will never trigger a sensor because they do not produce an instantaneous sharp sound and they are not loud enough to be picked up by at least 3 sensors
- Only when at least 3 sensors detect a gunshot-like sound at same time do they send a short audio snippet to the review center

# Crime Prevention Technology Opportunities: Gunshot Detection (ShotSpotter) - Privacy

- All sensor audio is permanently deleted after 30 hours and never heard by a human unless it was accompanied by a loud, impulse sound thought to be a gunshot.
- Livestreaming of audio is not possible
- Policing Project at NYU Law School conducted an independent privacy audit and concluded that ShotSpotter presents an “extremely low risk of audio surveillance.”





# Crime Prevention Technology Opportunities: Gunshot Detection (ShotSpotter) – Proposed Deployment

- 4 square miles – 2 years - \$500,000
- Coverage based on data from Jan 2018 through October 2020:
  - 3 square miles on southeast side
  - 1 square mile on northwest side
- Percentage of all gun-related crime within 4-square mile area (2018 – 2020 YTD)

• Gun-related Willful Killing	43%
• Attempted Murder	58%
• Gun-related Agg Assaults	43%
• Weapon Firing	53%
• Sound of Gunshots	43%

# Crime Prevention Technology Opportunities: Gunshot Detection (ShotSpotter) - Engagement

- Prior Discussions (2013, 2014, 2015, 2019, 2020)
- Police Chief's Advisory Team (Oct. 22) – Support ShotSpotter
- Public Safety Committee (Oct. 27) – Support additional funding for crime prevention and ShotSpotter
- ACLU Response (Nov. 8) – Policy Recommendations
  - Publicly commit to any changes/expansion
  - Develop specific performance measures for evaluation
  - Establish vigorous audit protocols and make available to public

# Crime Prevention Technology Opportunities: Gunshot Detection (ShotSpotter) - Engagement

- Virtual Townhalls (Nov 2 & 5) – Multiple Community Perspectives
  - The events attracted 7,067 unique viewers across multiple channels
  - Those opposed believed funding would be better spent on social programs
  - Those in favor expressed frustration with gun violence in their neighborhood

	November 2		November 5		
	Facebook	YouTube	Facebook	YouTube	Total
Peak Live Viewers	67	36	56	28	163
Minutes Viewed	4,887	408	4,422	354	10,071
Estimated Reach	11,000	-	8,600	-	19,600
10-second Views	1,276	-	1,004	-	2,280
Post Engagement*	160		179		339
*Average post engagement for the last 50 videos the City has posted is 21					
Impression Click-through rate**	-	5.2%	-	8.1%	
**Avg YouTube video has 2-10% impression click-through rate					



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# Crime Prevention Technology Opportunities: Gunshot Detection (ShotSpotter) – Next Steps

Recommendation: Enter into a 2-year contract with ShotSpotter for 4 square miles of coverage as a pilot program to reduce gun violence in Grand Rapids.

- November 17 City Commission
  - **Fiscal Committee** – Procurement Review
    - 4 Square Miles
    - 2 years
    - \$500,000
  - **Committee of the Whole** – Surveillance Policy Review
    - Will address operational and data management protocols as required

# Crime Prevention Technology Opportunities: Unmanned Aerial Systems (UAS)

- Technology overview
  - First Responder (prepared to respond immediately to calls for service for both Police and Fire)
  - Vehicle Crash Investigation
  - Crime Scene Investigation
  - Critical Incidents
  - Searches for Fleeing Suspects
  - Training Exercises
- Costs (excluding personnel)
  - \$155,000 Start up
    - Equipment (\$100,000)
    - Training/Software/Licenses (\$55,000)
  - \$25,000 Annual operating cost



*Safer Communities*  
*Safer Public Safety Personnel*  
*Safer Suspects*  
*Better Outcomes*

Thank you