NOTICE OF STUDY SESSION
OF THE
UNIVERSITY CITY COUNCIL

Public Notice is hereby given that a Study Session of the City Council of University City will be held on **Monday, December 13, 2021, at 6:00 p.m.,** at City Hall, fifth floor, 6801 Delmar, University City, MO.

On March 20, 2020, City Manager Gregory Rose declared a State of Emergency for the City of University City due to the COVID-19 Pandemic. Due to the ongoing efforts to limit the spread of the COVID-19 virus, we encourage everyone in City facilities to wear a mask. To provide for social distancing during Council meetings **in-person public attendance will be limited to the first 25 people.**

Citizen may also observe the Meeting via Live Stream on YouTube:
    https://www.youtube.com/channel/UCyN1EJ_-Q22918E9EZimWoQ

AGENDA
Requested by the City Manager

1.   Meeting called to order

2.   Changes to Regular Agenda

3.   Public Safety Notification on Property Crimes and Gunshot Detection V5 Systems

4.   Adjournment

Posted this 10th day December 2021.

LaRette Reese
City Clerk

U.C. CALLS FOR SERVICE 2020

Calls for Service			
	Non-Emergency	**Emergency**	**Total**
2019	**59,684**	**21,997**	**81,681**
2020	**62,894**	**20,155**	**83,049**
Total	122,578	42,152	164,730

OTHER L.E. AGENCIES IN ST. L. COUNTY

Florissant P.D. for 2020 totaled 68,741 calls for service

(Florissant pop. 55,xxx people**)**

Maryland Heights P.D. for 2020 totaled 61,112 calls for service

(M.H. pop. 30,xxx people**)**

Clayton P.D. for 2020 totaled 16,530 calls for service

(Clayton pop. 20,xxx people**)**

UCPD STRATEGIC METHODS ADDRESSING CRIME

- UCPD addresses **CRIME TRENDS** on a <mark>daily, weekly and routine basis</mark> (not seasonal). UCPD daily Patrol Plans are actual Strategic ACTION PLANS & they specify how to combat trending issues or crime problems (ie. Catalytic Converters, park vagrants, shots fired in specific areas and times) per shift and watch.

- Roll Calls are daily training sessions & UCPD gets the most of those daily meetings via of videos, Q & A sessions, and outside trainers making presentations.

- COVID brought about new innovative criminal tactics and trends. Law enforcement agencies everywhere changed strategic deployment methods and criminal intelligence sharing to adapt to persevere with our community mission of public safety.

6 Factors That Slow Down a Law Enforcement Investigation

❖ **Case Loads (**volume of calls for incidents**)**

❖ **Case Screening & Intake (**policy on initiating investigations**)**

❖ **Cross-Unit Collaboration (**cooperation inner agency and outside agencies**)**

❖ **Community Involvement (**centralizing resource effective in your community**)**

❖ **Checklist of Investigation Process (**correct investigative process being used**)**

❖ **Case Review (**case review is an administrative task for reviewing cases**)**

Staged Crime Scenes

- Perpetrator makes the scene look like something it's not
  - Lab results don't match up with testimony of witnesses
  - Common examples:
    - Arson – staging a fire to cover up another crime
    - Suicide/murder
    - Burglary – staging to collect insurance money

FALSE POLICE REPORTS

- If you're a witness or [victim of a crime](#), one of the first steps to justice is filing a police report, which helps prompt an investigation. And while it is imperative to be completely honest and detailed when making a statement to the authorities, sometimes false statements are given, instead. **So, why would someone file a false police report?**

There are a number of reasons – **sometimes it's done to shift the focus of an investigation away from oneself**. On other occasions, **a false police report may be made in order to make an innocent party appear guilty.**

REASONS WHY PEOPLE RISK COMMITTING THIS CRIME

- **<mark>More false reports of property crimes are filed than of person crimes.</mark>** A property crime is one involving the loss of money or property; a person crime is one that usually involve injury to a person, such as battery or rape.

- **People file false property crime reports to:**

- Create a tax deduction. Property losses above a certain threshold are deductible on federal and some state income taxes.

- Defraud an insurance company that insures the property and make a false claim of loss.

- **People file false property crime reports to:**

- Explain the loss or theft of an item, when the theft was made by the person doing the reporting. For example, say that your employer gives you a laptop computer to use for work. You leave the laptop in a bar or hotel room, and when you come back it's gone. You report it as stolen from your locked car to cover your negligence (people will even break out a car window to make it look more convincing, as the cost of replacing the car window is still a lot less than what most laptop computers cost). Or you decide the computer would make a nice addition to your personal inventory. You report a theft and keep the computer for yourself.

- Cover their own cash embezzlement (the laptop theft described above is also a form of embezzlement). A retail cashier might take money from the register, then file a report of a "till tap," where a customer reaches into the cash drawer, takes money, and runs.

QUESTIONS?

UNIVERSITY CITY POLICE DEPARTMENT

University Gunshot Detection
V5 Systems

Long-term affect on gun violence victims – Communities pay in treatment, therapy, and disruption

When it comes to how **American children are exposed to gun violence**, gunfire at schools is just the tip of the iceberg–every year, nearly **2,900 children and teens** are shot and killed and nearly **15,600 more are shot and injured**.

An estimated **3 million** **American children** are exposed to shootings per year. Witnessing shootings — whether in their schools, their communities, or their homes–can have a devastating impact. Children exposed to violence, crime, and abuse are **more likely to abuse drugs and alcohol**; suffer from depression, anxiety, and **posttraumatic stress disorder**; fail or have difficulties in school; and engage in criminal activity.

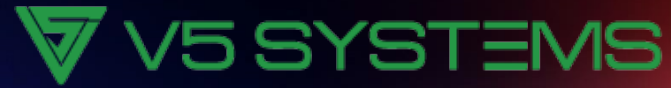https://everytownresearch.org/gunfire-in-school/#13017

In an effort to continue to provide effective and innovative methods to protect the citizens of University City, the University City Police Department evaluated the gunshot detection system software. The software and cameras included license plate reader technology, live streaming cameras and a standalone gunshot detection system.

The police department has been extensively testing the usefulness and effectiveness of the V5 program from 01/2020 until 08/2021.

Gunshot detection software has the ability to protect patrol officers with increased tactical awareness such as number of rounds and shooters as they approach crime scenes. It can connect investigators to the location of shell casings and other forensic evidence, while also improving police-community relations.

V5 SYSTEMS

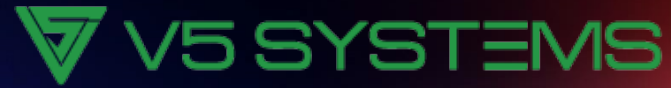# The Challenges of Implementing Gunshot Detection and Surveillance Outdoors

High false positives drives inefficient use of manpower and reducing confidence and utilization of technology

No infrastructure in outdoor areas where security is needed

Cost of trenching for power & connectivity is extremely high

Time to get permits for trenching and implementation can take months or years.*

We have Ameren permission to install our own systems with trained staff.

V5 SYSTEMS

Accurate Acoustic Gunshot Detection and Outdoor Surveillance

Award-winning technology company has created the world's first self-powered edge computing and security platform for the outdoors.

- Founded in 2014
- HQ located in Fremont, CA with offices in Las Vegas, NV, Loves Park IL, Nashville TN, Nizhny Novgorod, Russia and Bangalore, India
- Securing BART, Veterans Affairs facilities, UCLA, San Jose State U, major US oil pipelines, among many other government and enterprise organizations
- First deployment in 2015 with Hayward PD, CA

Detailed Visual Information at Our Fingertips

When at least three OnSound units detect gunfire, they can share data and work together to triangulate the acoustic sound and pinpoint the precise location and direction of the shot.

- Acoustic Evidence
- Video Footage
- Exact Location On A Google Map

OnSound: Gunshot Detection Highlights

Multi-Sensor Approach: V5 Systems multi-sensor approach allows intelligent video surveillance, <u>license plate recognition</u>, and acoustic gunshot detection solutions to gain real-time, quality, and type of crime information and collect critical evidence for investigations.

Real-time information: AI software running at the edge quickly delivers actionable alerts directly to users for faster response.

Customizable coverage: Allows the flexibility to cover small areas like city parks or entire cities through the deployment of compact and portable units.

Information at Our Fingertips

Customizable Notifications can be sent:

1. Directly to end-user
2. Dispatcher
3. V5 multi-sensor monitoring center
4. Combination of all three

Are sent via:

1. SMS text message
2. Email
3. V5 dispatch call

Can be viewed via:
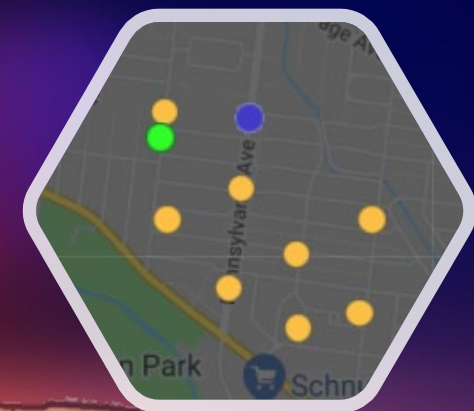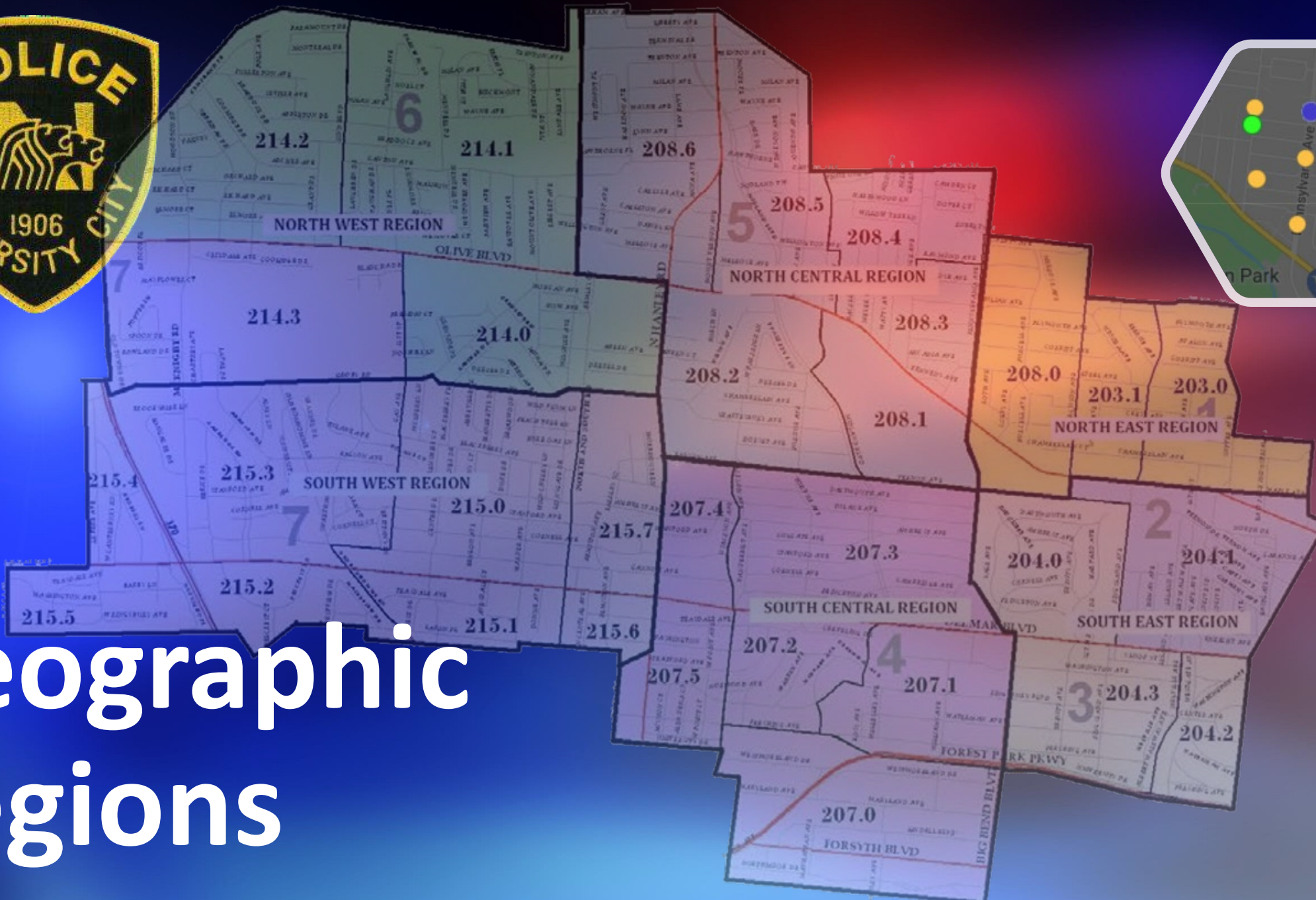
1. Web-based user interface
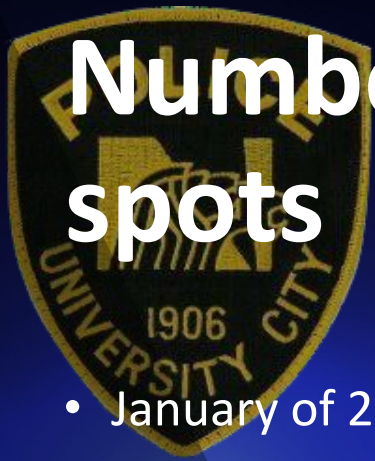2. Android or iOS app

OnSound: How it Works

Gunshot is Detected and Classified: When the AI software coupled with edge computing detects and classifies a gunshot, the validated alert is pushed out in "real-time."

MSOC Verifies Non-Gunshot Sounds: If a sound is not classified as a gunshot, V5 MSOC personnel will verify the sound and if it is then classified as a gunshot, the alert will be pushed out at near real-time.

AI Continues to Learn Ambient Environment: AI technology will continue to learn its environment over time enhancing accuracy and further sharpening performance.
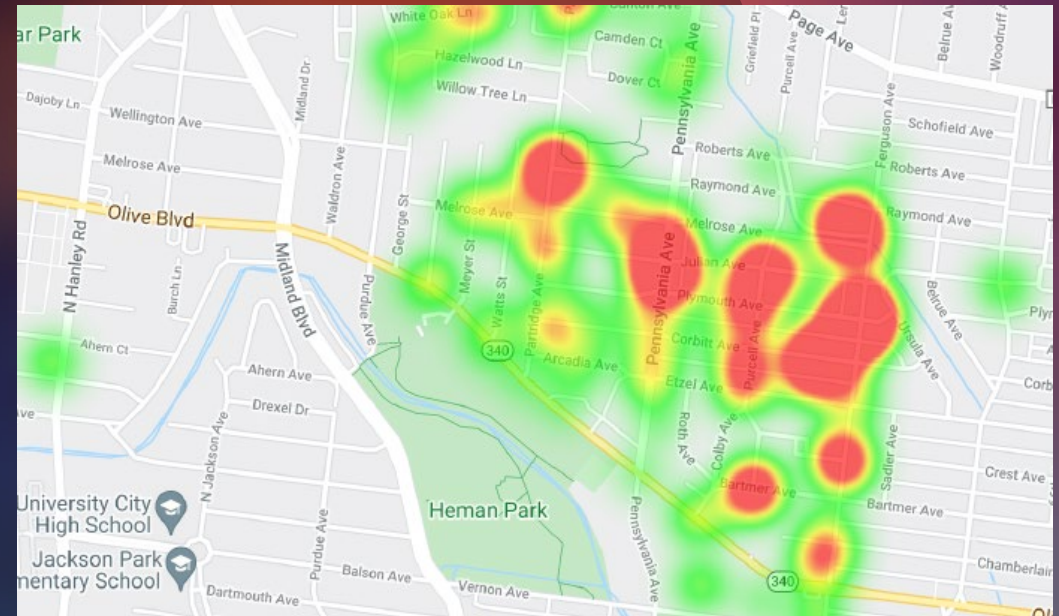
Geographic Regions

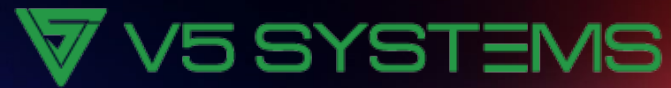# Number of gunshots within U City and hot-spots

- January of 2020 thru August of 2021

    - Calls for Shots Fired = 163
    - V5 detection = 65
        - V5 detections, 51 corresponded with a call for service, resulting in 3 arrests.

Response Times

- January of 2020 thru August of 2021

  - Avg Response Time -
  - V5 Detection Response Time -

V5 SYSTEMS

UCPD Evaluation PRO's

1 **Highly accurate, real-time alerts**
AI-driven platform yields its outstanding accuracy because it continuously learns ambient sounds in its specific environment. Coupled with edge computing enables alerts to be sent in real-time.
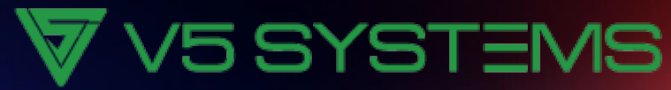
2 **Self-powered and Portable**
Free from the electric grid via proprietary solar technology, battery, and power management system. Allows the ability to move the units as crime "hot spots" move or for special events (fair, celebration, presidential debate, etc.). UCPD owns the equipment.

3 **Savings on time & money on deployment**
We can rapidly deploy units in under 30 minutes per unit vs. months to years (when permitting and trenching are involved. Trenching, on average, costs ~$750K per ½ mile.

V5 SYSTEMS

UCPD Evaluation CON's

1 **Inability to link with local cameras and recent technology advances.**
Although the software and interface is user friendly, current technology allows for detections to be linked to cameras in the area.

2 **Service outages and technical support issues**
Throughout the evaluation period there were several outages that occurred. In the beginning, the company was responsive but that subsided during the evaluation period. This may have been in part due to their recent acquisition.

3 **Company acquisition**
Since August of 2021, V5 Systems is in the process of being acquired by an outside this firm. This has limited use of the equipment due to the lack of employees still on staff.

Questions?