

NOTICE OF JOINT STUDY SESSION

OF THE
UNIVERSITY CITY CITY COUNCIL AND WASHINGTON UNIVERSITY

Public Notice is hereby given that a Joint Study Session of the City Council of University City and Washington University will be held on **Monday, November 25, 2019, at 5:30 p.m. at City Hall, fifth floor, 6801 Delmar, University City, MO.**

AGENDA

Requested by the City Manager

1. Meeting called to order
2. Changes to Regular Council Agenda
3. Community Policing with Washington University
4. Adjournment

This meeting is OPEN to the public.

Dated this 22nd day of November, 2019

LaRette Reese
City Clerk



2019 – 2020
Community Outreach Efforts
&
Public Safety Update

UCPD

Presented By Chief Larry Hampton

UCPD Technology & Equipment

- **Car Cameras and One Step GPS devices added to UCPD Fleet cars.**
- New Mobile Data Terminals (MDTs or computers) are currently being updated for 90% of fleet vehicles.
- New Mobile Ticketing Printers added to UCPD Fleet cars. This enables computerized generated tickets.
- All Supervisors and FTOs trained and certified with use of department A.R. 15 Rifles and TASERS (30 new).
- Approximately 30 tactical rifle vests added to our daily fleets.
- Several Combat Armored Shields purchased and added to daily fleets.
- 3 Drones (U.A.V.) housed here at UCPD with access to 3 more at will. This Includes 4 UCPD trained Drone Pilots / Operators.
- Combat conditions ROBOT with video and audio specs housed at UCPD.

Technology & Equipment (cont.)

- New Patrol Bikes purchased and being utilized for Bike Patrol Units.
- Riot Mace containers for enclosed structures (ie. Jail cells, apartments, etc...)
- Fully equipped combat ready riot control suits at UCPD.
- Two multi-purpose police canines fully trained and in use.
- UCPD is currently working on a **RING Camera** program for dissemination in trendy areas. NEIGHBORS by RING is a nationwide program that RING and other companies have created to enhance public safety in communities around the country by creating a virtual neighborhood watch.



RING & UCPD Community Camera Programs

- **Neighbors Portal is Law Enforcement's access to our platform. Portal highlights include:**

- **1. No Cost - Neighbors Portal by Ring is a free service offered to Law Enforcement.**
- **2. Community Engagement - Law Enforcement's ability to join the conversation on the Neighbors app (in response to videos or comments posted by the Neighbors community).**
- **3. Alerts - Ability to post alerts based on proximity to the recipient, in the Neighbors app.**
- **4. Video Request - Ability to request videos from Ring device owners who may have captured footage, that may be of help to you for new or active investigations.**





Security Solution Offerings that work together to assist First Responders

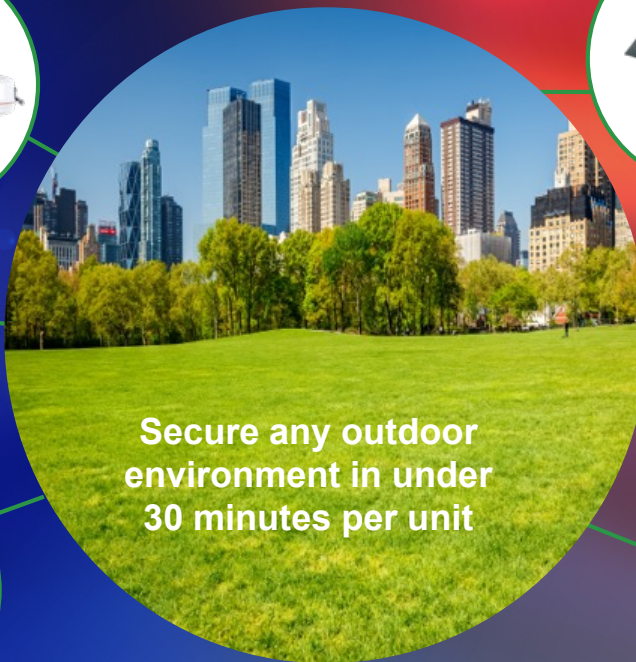
OnSight+ Portable Video Surveillance with Analytics



OnSight Portable Video Surveillance



OnSight Portable PTZ (Pan, Tilt Zoom Camera)



Secure any outdoor environment in under 30 minutes per unit



OnSound Acoustic Gunshot Detection



OnSight Portable Camera Adaptive Platform (power source for third-party cameras)



OnSight Portable License Plate Reader



In an effort to continue to provide effective and innovative methods to protect the citizens of University City, the University City Police Department is currently in process of evaluating gunshot detection system software. The software and cameras include 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 Systems program for 120 days.

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. Connect investigators to the location of shell casings and other forensic evidence, while also improving police-community relations.



Number of gunshots within U City and hot-spots

There were a total of 67 shots fired incident reports written between January 1, 2019 to November 10, 2019.

The top three hot-spots by Patrol Area:

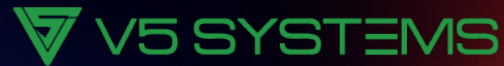
2030 – District 1 – Ward 3

2080 – District 1 – Ward 3

2083 – District 5 – Ward 3*

2142 – District 6 – Ward 3*

*tied



Our Solution

1

Accurate and Reliable Investigative Evidence

V5 systems technology is reducing gun violence with more than just gunshot detection technology. The multi-sensor platform increases the quality and type of information to see the full picture of an event including acoustic gunshot detection/location, video surveillance with analytics, and license plate reading.

2

Below 0.1% False Positive Rate

AI technology combined with the multi-sensor secured operating center (MSOC) team, trained by ex-law enforcement commanders gives us the most accurate gunshot detection alert information within seconds.

3

Targeted Coverage Area

The V5 Systems units can easily be deployed and moved as needed to narrow down the investigative hotspots. V5 Systems technology is 100% self-powered through hail and bullet-resistant solar panels combined with proprietary battery and a power management system. The system can also be connected to AC power



Gunshot Detection Highlights

Multi-Sensor Approach: V5 Systems multi-sensor approach allows intelligent video surveillance, license plate recognition, 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.





FAQs

- 1. How close do multiple units need to be to detect and triangulate the sound of gunfire?** For triangulation, the units need to be approximately within 1000' feet from one another. This depends heavily on the environment in which the units are placed and what type of deployment the customer requires; V5 performed a survey of our chosen POC to determine the optimal locations for the units.
- 2. What is the average time between the time of the shooting and the time of alert?** Alerts are pushed within seconds (near real-time).
- 3. Does your system use AI-based software to filter impulsive sounds?** Yes. All impulsive sounds are detected and fed into our Artificial Intelligence framework which determines the likelihood that the sound was a gunshot.
- 4. What is the rate of false positives?** The rate of false positives is based on the V5 systems being able to learn the ambient sounds of the environment where they are deployed, meaning false positives dramatically decrease over time. Additionally, V5 periodically updates the entire system using data from all the employments, so that the baseline false positives rates has continued to dramatically decrease since our early deployments. Presently, V5's false rate is less than one unit per month worldwide.
- 5. How many units are needed per square mile of coverage?** This varies dramatically based on the environment. For suburbs, it takes between 20-30 units per square mile. For highly obstructed, noisy environments, this number could be higher as the density will have to be expanded to achieve accurate localization/triangulation.

Community Programs

- Volunteers In Police Service (VIPS) is now activated with our first two University City citizens on board and assisting UCPD in Community Policing. Mr. Cohen and Mr. Zelenovich

We are proud to introduce them to our community and you should expect to see them participating in various community policing events.



Community Programs

- [Juvenile Diversion programs here in University City:](#)

Juvenile Conference Committee since 2014

- consists of St. Louis County Family Court personnel and University City citizens along with UCPD Chaplain Smith and School Resource Officers providing restorative justice practices and family resources to reduce juvenile offender behaviors.

Juvenile Detention Alternatives Initiative (JDAI) in a pilot program

-consists of first time juvenile offenders ages 9 -17 being offered programs and resources to curb repeat social norm deviation.



Juvenile Diversion Program
The Front Porch – Savannah, GA.



Where Youth & Families Gather

M.A.R.C. – Lake Charles, LA.



M.A.R.C. -- purpose

- The purpose of the Multi-Agency Resource Center (MARC) is for area agencies and organizations to provide services, and referral to these services, currently available to area juveniles in the community, all under one roof. The facility and overall project is a collaborative effort with the Calcasieu Parish Police Jury and the Calcasieu Parish Children and Youth Planning Board.
- The **pooling of resources** in the MARC facility doesn't introduce new programs or services. Rather, it reduces the length of time a juvenile must wait to have access to current community services, from several weeks to a matter of hours. For Juveniles involved in criminal activity, the MARC features a secure intake area staffed by MARC personnel, which will also reduce the time a law enforcement officer spends holding custody over the subject.
- Once at the MARC, **needs are addressed and determined with each Juvenile based on data collected from an assessment process of testing and interviews.** Information collected through this process assists staff in identifying the best approach to take with the juvenile. The MARC Process also makes every attempt to direct juveniles away from the juvenile justice system whenever possible, resulting in more productive outcomes for the youth and their families.

DELMAR LOOP - DAY



DELMAR LOOP - AT NIGHT



DELMAR LOOP



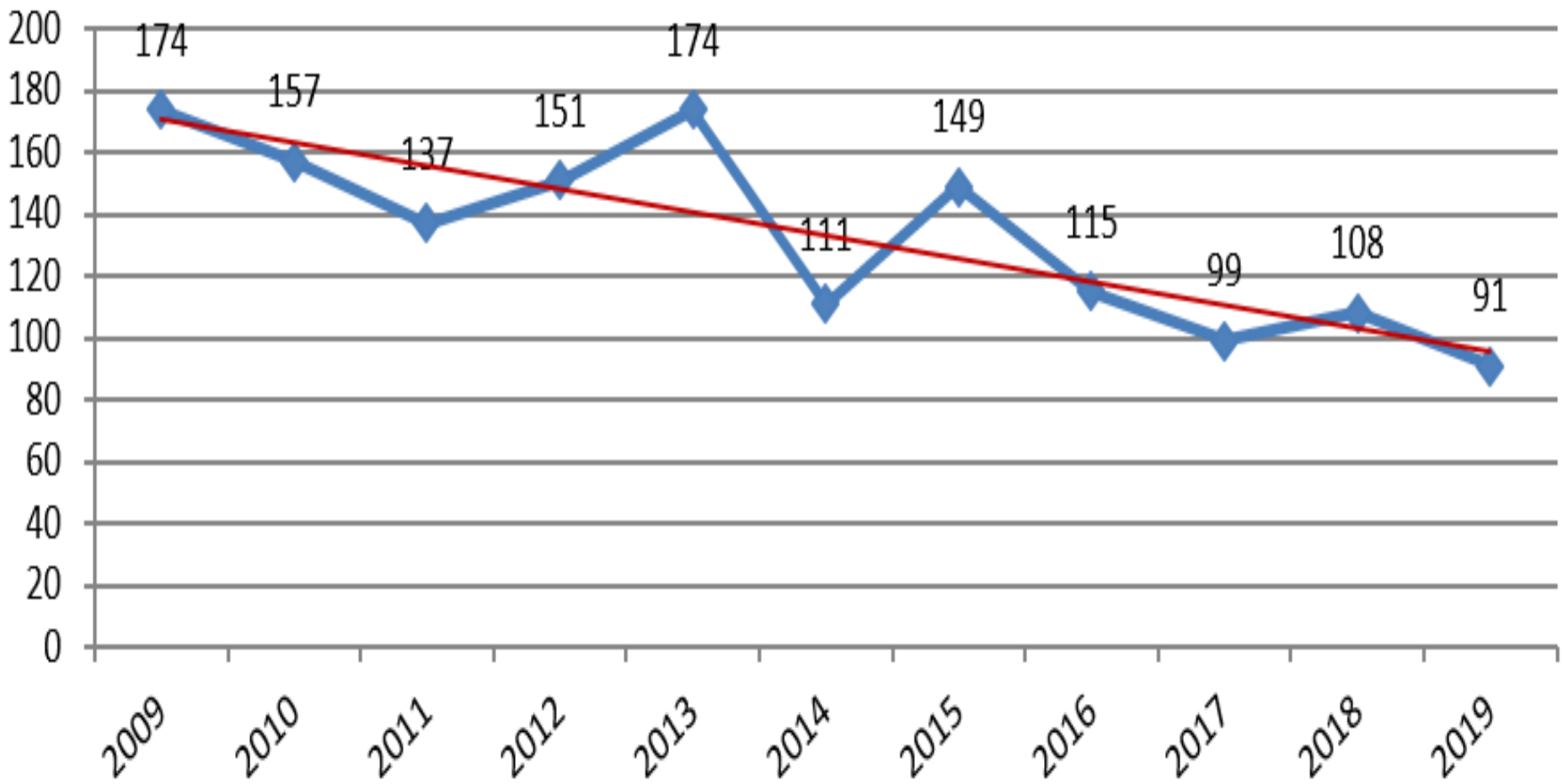


Loop Special Business District Part I Crimes 2009-2019

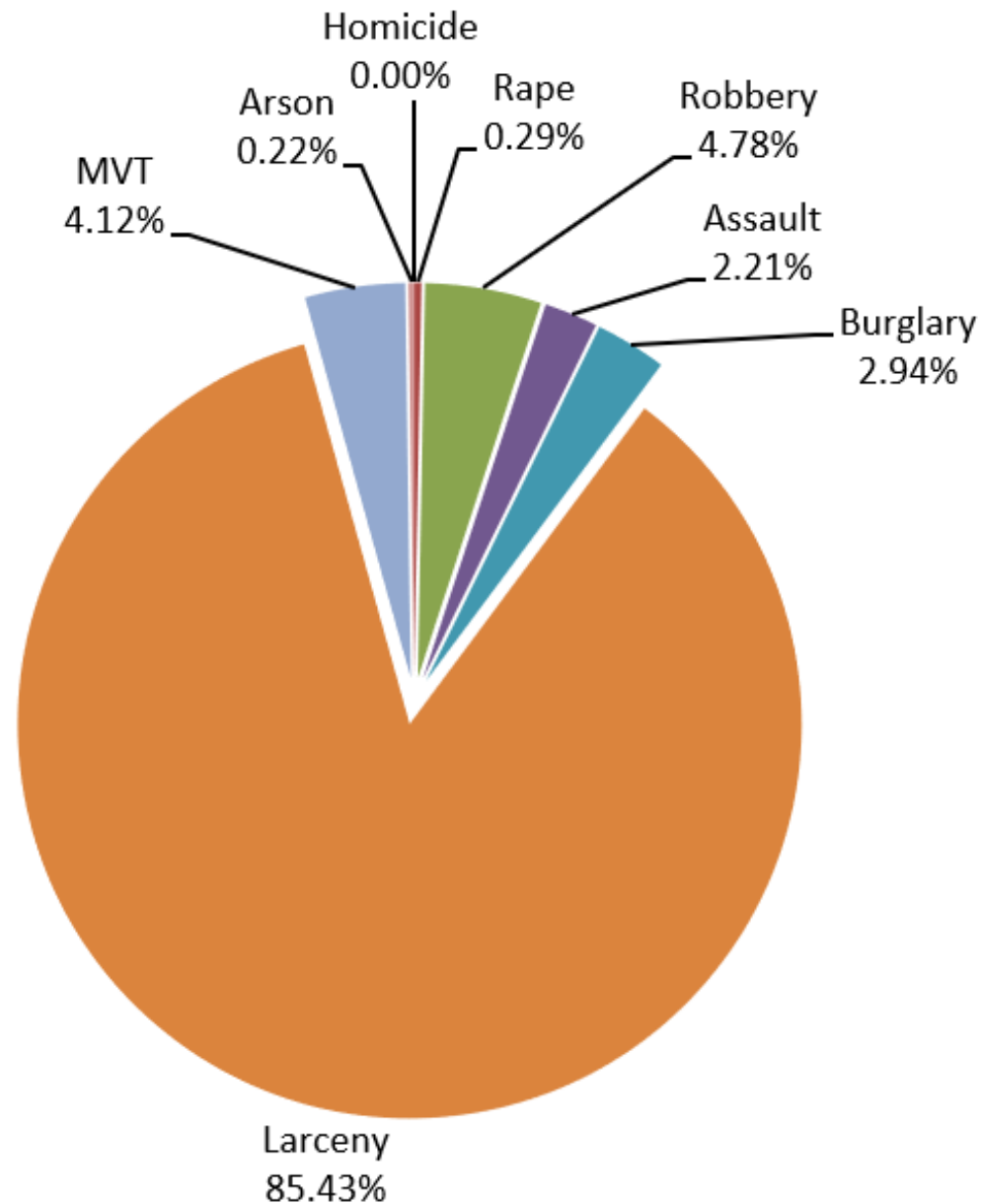
| Incident Type | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | Total |
|---------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|-----------|-------------|
| Homicide | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rape | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 4 |
| Robbery | 4 | 9 | 10 | 8 | 1 | 4 | 11 | 8 | 6 | 3 | 1 | 65 |
| Assault | 1 | 4 | 0 | 3 | 1 | 2 | 7 | 3 | 3 | 4 | 2 | 30 |
| Burglary | 7 | 2 | 5 | 1 | 8 | 2 | 0 | 5 | 4 | 5 | 1 | 40 |
| Larceny | 137 | 131 | 109 | 124 | 148 | 91 | 110 | 82 | 75 | 80 | 74 | 1161 |
| MVT | 8 | 3 | 5 | 4 | 3 | 1 | 9 | 10 | 3 | 4 | 6 | 56 |
| Arson | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Drugs | 16 | 8 | 8 | 11 | 12 | 10 | 10 | 6 | 8 | 11 | 7 | 107 |
| Total | 174 | 157 | 137 | 151 | 174 | 111 | 149 | 115 | 99 | 108 | 91 | 1466 |

Delmar Loop stats – through present Nov. 2019

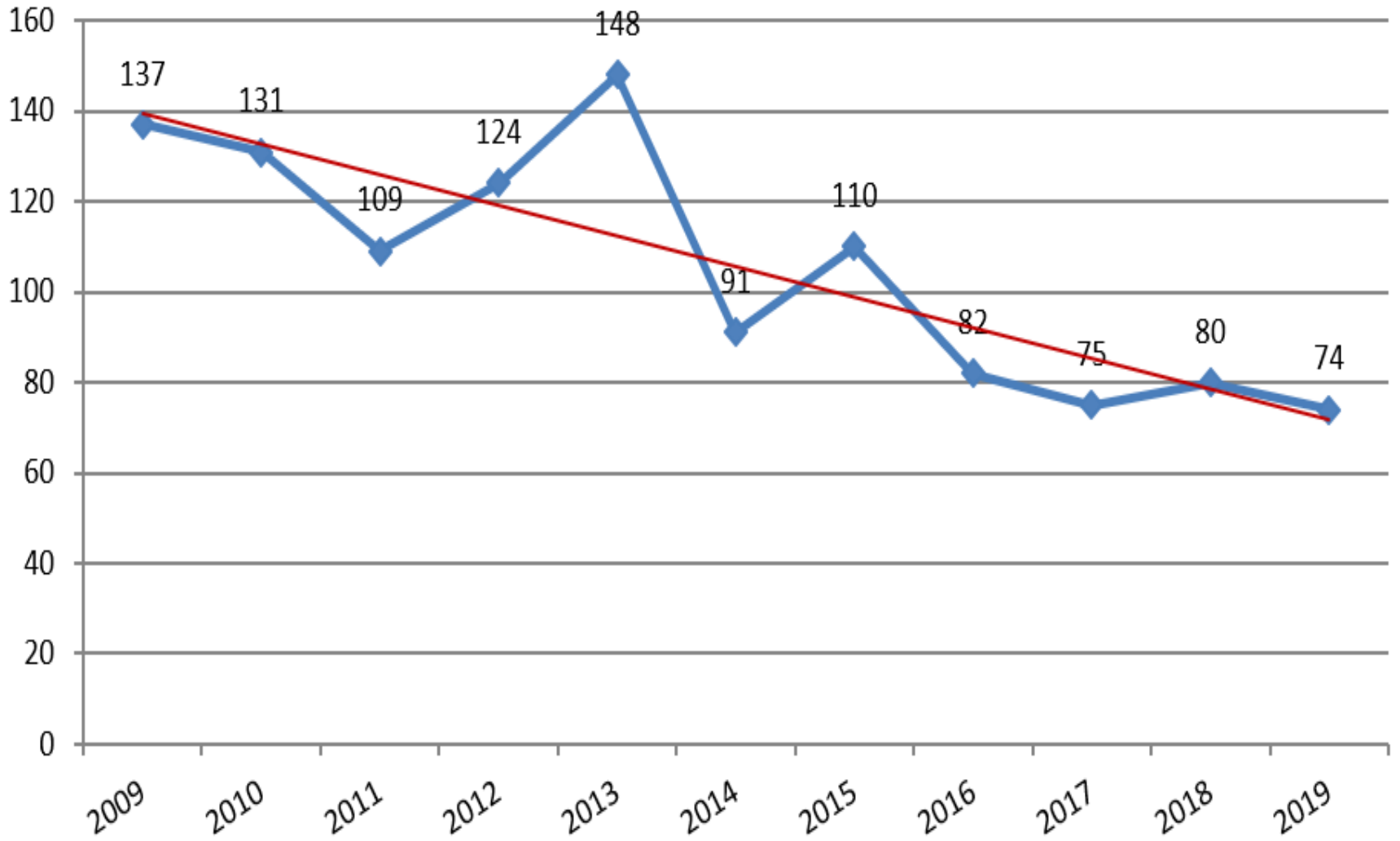
Total Part I Crimes in Loop Special Business District



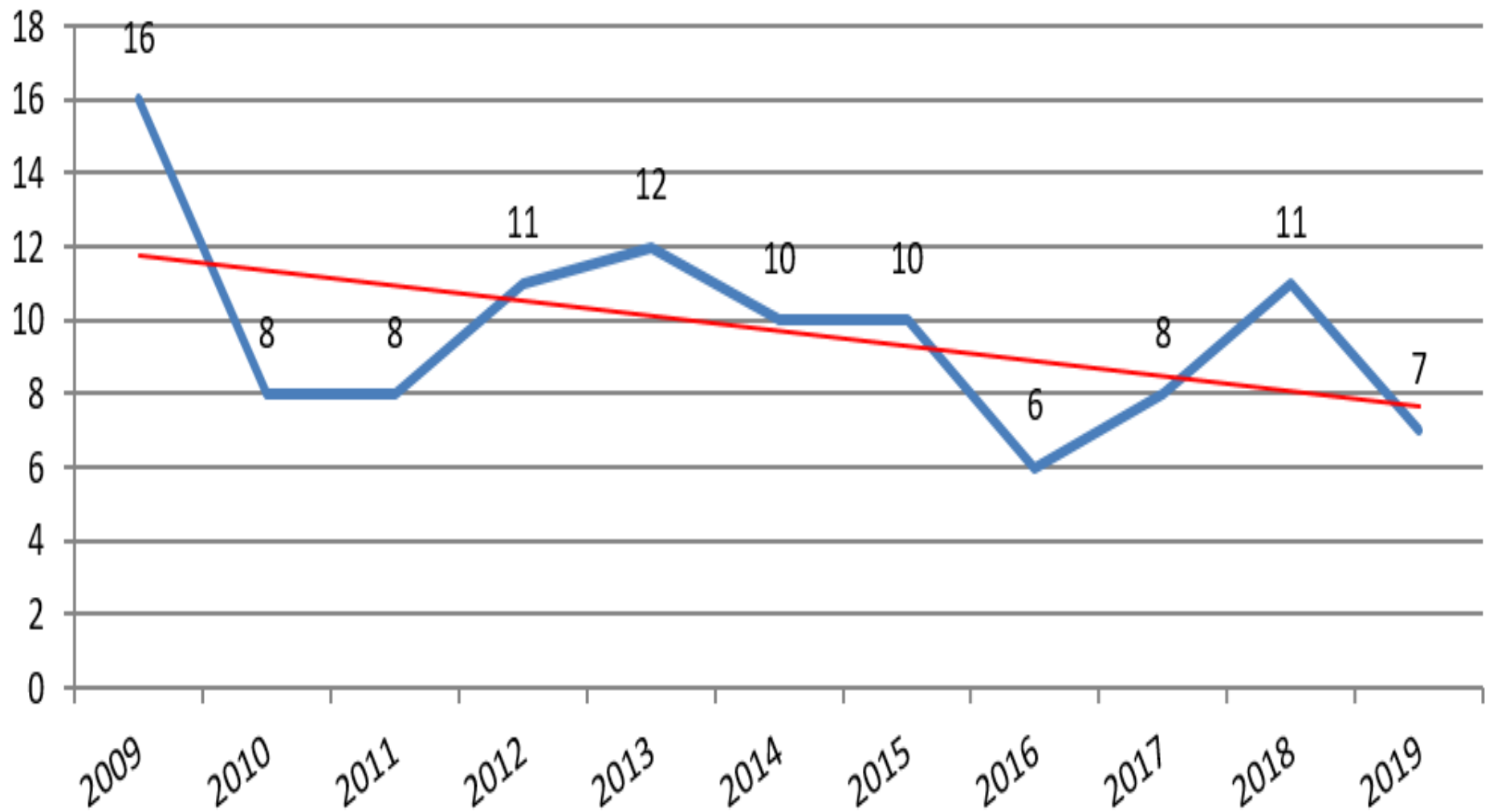
Incident Type as a Percentage of Overall Crime in Loop Special Business District



Larceny



Drug Violations Related Incidents



Public Safety

- Partnership with Washington University helps enable law enforcement, fire and EMS to quickly connect with valuable resources, intel information and the ability to respond effectively and efficiently based on the specific situation(s). This can potentially prevent misuse of manpower, resources and it can enhance time management.
- Clever use of public and private video cameras can reduce the number of victims of crimes. Efficiently integrating technology in law enforcement can prevent disaster while ensuring the safety of police officers and first responders. UCPD Community Camera Program is an example of this smart and effective use of camera systems.
- It is important for the general public to be well-informed about recognizing and reporting persons demonstrating suspicious behavior, and to have confidence in public safety's response and intervention process.

Ways of Public Safety Enhancing with Data

- **INCREASING REAL-TIME SITUATIONAL AWARENESS:** Situational awareness is a key component of keeping officers safe on the streets and managing situations more commendably. In order to accomplish this, public safety agencies should be integrating and layering data from different sources. (ie. Analytics, partnerships and collaborations, etc..)
- **PREDICTING CRIME:** Predictive crime involves leveraging data (for multiple sources) and the ability to identify patterns or trends that can be used to respond more efficiently. Many law enforcement agencies use predictive policing strategies to identify *hotspots of crime*.
- **USING SOCIAL MEDIA TO ENGAGE & COMMUNITY POLICE:** To proactively identify online threats and criminal behavior. Law enforcement has begun using social media as a vital aspect of community policing strategies to increase citizen engagement.

Lights to Curb Crime

- **Enhanced Street Lighting Project**
 - UCPD and Public Works conducted research study on crime statistics and operability status of University City's current lighting structures. Many are being replaced and updated.
 - Studies have shown improved lights in high crime trendy areas assist in deterrence.



UCPD & WUPD Joint Operations

- Regularly scheduled criminal intelligence meetings amongst UCPD, WUPD, SLMPD, Metro Transit, Clayton & St. L. Co. PD all exchange current criminal trend information with each other for better strategic planning.
- UCPD & WUPD joint patrols (Partnership Patrols) is partnering for criminal and code violations in the residential areas adjacent to the Danforth Campus. This patrol initially was started in the early 2000's and has been revamped and updated.
- Bike Patrol Units (UCPD and WUPD) are deployed in teams for many events and community policing issues.
- UCPD trains with WUPD on rifle certifications and annual requalification. This collaboration gives familiarity with procedures and routine deployment policies.

UCPD & WUPD Joint Operations

- High profile events such as presidential debates, WILD, Mardi Gras, St. Patrick's Day, 4th of July celebrations, court verdicts, etc.. Require detailed strategic planning meetings which our command staffs facilitate for smooth joint operations and correct staffing.
- Crime Prevention Through Environmental Design (CPTED) is utilized at UCPD and WUPD for security audits and evaluations of neighborhoods to enhance efficient police and security deployments. Each organization has several trained CPTED personnel.
- WUPD owns and operates a regional hub (5977 Delmar - Loop) for officers assigned to the Metro-Link Police Ops. Intelligence meetings take place in this hub which multiple organizations such as UCPD, SLCOPD and SLMPD get to meet on trending issues for Metro security.

PREVENT VEHICLE BREAK-INS

LOCK YOUR DOORS

DON'T MAKE IT EASY ON THEM



University City Police Department

Questions?



UNIVERSITY CITY POLICE DEPARTMENT