

PUBLIC SAFETY FORUM



CUPERTINO

Annually in
October

COORDINATED BY THE CITY OF CUPERTINO'S PUBLIC SAFETY COMMISSION

PUBLIC SAFETY FORUM



CUPERTINO

October 19, 2023

Event begins at 5:00 PM

Quinlan Community Center

COORDINATED BY THE CITY OF CUPERTINO'S PUBLIC SAFETY COMMISSION

Mayor Hung Wei

Public Safety Priorities



CUPERTINO

A Novel Approach to Cybersecurity Education



A Novel Approach to Cybersecurity Education



Table Presentations



Text to 911

Deputy Chief Hector Estrada





Cupertino Public Safety Forum

Text to 9-1-1

October 19, 2023

Hector Estrada, Deputy Chief of Fire Prevention

Text-to-911 is an option to help those who are:

- Hearing or speech impaired...
Evolution of TTY
- In a situation where it's not safe to call 9-1-1
- Having a medical emergency and cannot speak on the phone



Need 9-1-1?

**Call if you can.
Text if you can't.**

Text to 9-1-1 is now available in Santa Clara County. If you need help, but can't safely speak on the phone or are unable to speak, use your mobile phone to send a text message to **911** (no dashes or spaces).

When to use it
Calling is the best and fastest way to reach 9-1-1. But you should text if:

-  You're deaf, hard of hearing, or have a speech disability.
-  You're in a situation where it's not safe to call 9-1-1 for help.
-  You're having a medical emergency and cannot speak on the phone.

A hand is shown holding a white smartphone with a yellow screen displaying "9-1-1" and a text box that says "Call If You Can. Text If You Can't."

Text-to-911

DOES NOT replace calling 9-1-1 under most circumstances.

- Dispatchers handle texting emergencies slightly different than calling 911
- Communication between dispatcher and texter will be slower
- May be more difficult to determine location of texter

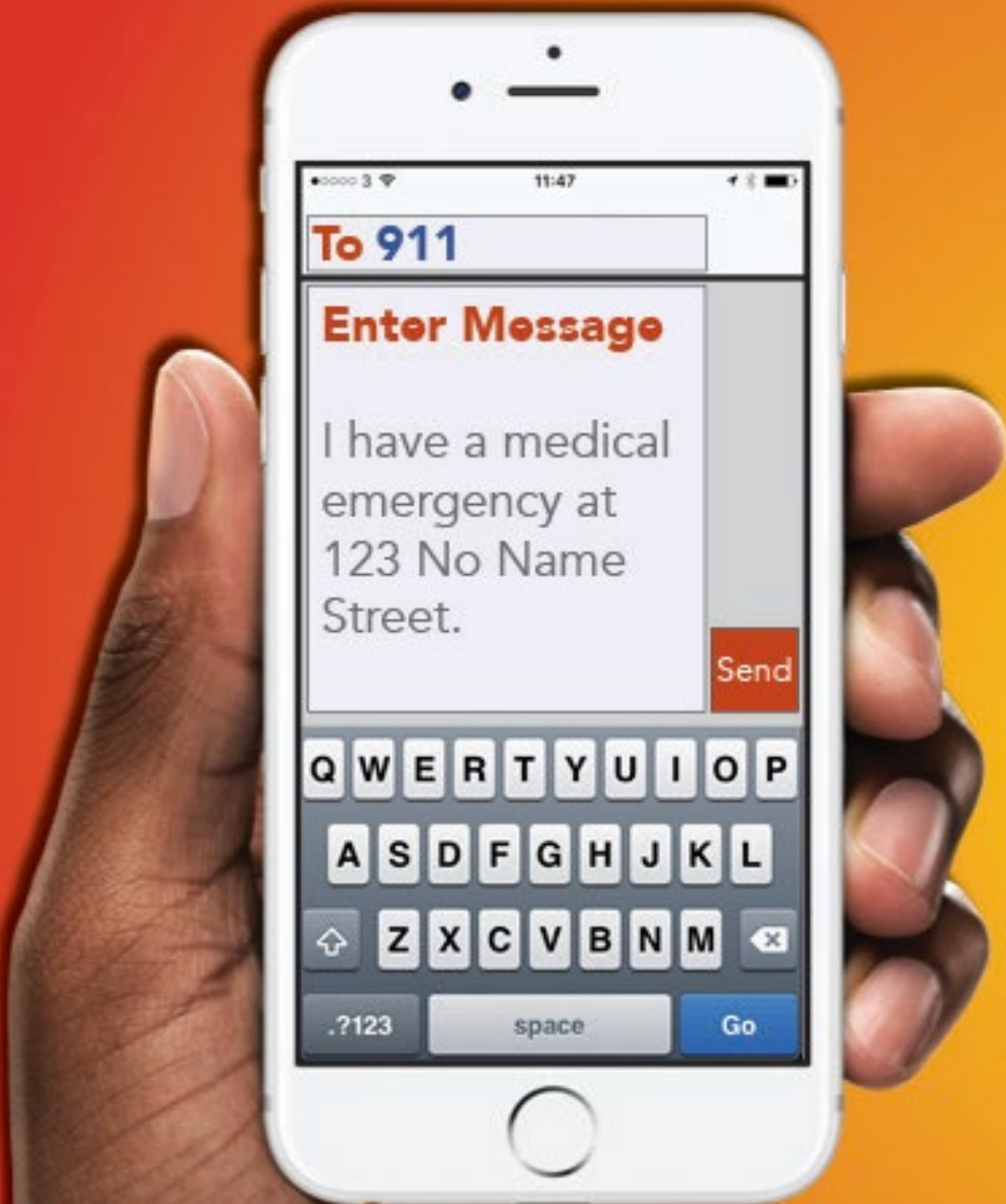


County Communications Text-to-9-1-1



- Live for 3 years
- Processed 25 Text-to-911 emergencies in August 2023
- Launched an updated CAD system and received additional training in September 2023





What to Expect

All Dispatch Centers within Santa Clara County have Text to 9-1-1 capabilities

Standard text message functionality

Translation is automatic

Location capabilities

Text-to-911 Enhanced Capabilities

- Ability to translate texts into 68 different languages
- Ability to determine your location – 2 ways



Translation Languages	Abbreviation	Supported
Afrikaans	af	✓
Arabic	ar	✓
Bangla	bn	✓
Bosnian	bs	✓
Bulgarian	bg	✓
Cantonese (Traditional)	yue	✓
Catalan	ca	✓
Chinese Simplified	zh-Hans	✓
Chinese Traditional	zh-Hant	✓
Croatian	hr	✓
Czech	cs	✓
Danish	da	✓
Dutch	nl	✓
English	en	✓
Estonian	et	✓
Fijian	fj	✓
Filipino	fil	✓
Finnish	fi	✓
French	fr	✓
German	de	✓
Greek	el	✓
Haitian Creole	ht	✓
Hebrew	he	✓
Hindi	hi	✓
Hmong Daw	mww	✓
Hungarian	hu	✓
Icelandic	is	✓
Indonesian	id	✓

Irish	ga	✓
Italian	it	✓
Japanese	ja	✓
Kannada	kn	✓
Korean	ko	✓
Latvian	lv	✓
Lithuanian	lt	✓
Malagasy	mg	✓
Malay	ms	✓
Malayalam	ml	✓
Maltese	mt	✓
Maori	mi	✓
Norwegian	nb	✓
Persian	fa	✓
Polish	pl	✓
Portuguese (Brazil)	pt	✓
Portuguese (Portugal)	pt-pt	✓
Punjabi	pa	✓
Queretaro	otq	✓
Otomi	otq	✓
Romanian	ro	✓
Russian	ru	✓
Samoan	sm	✓
Serbian (Cyrillic)	sr-Cyrl	✓
Serbian (Latin)	sr-Latn	✓

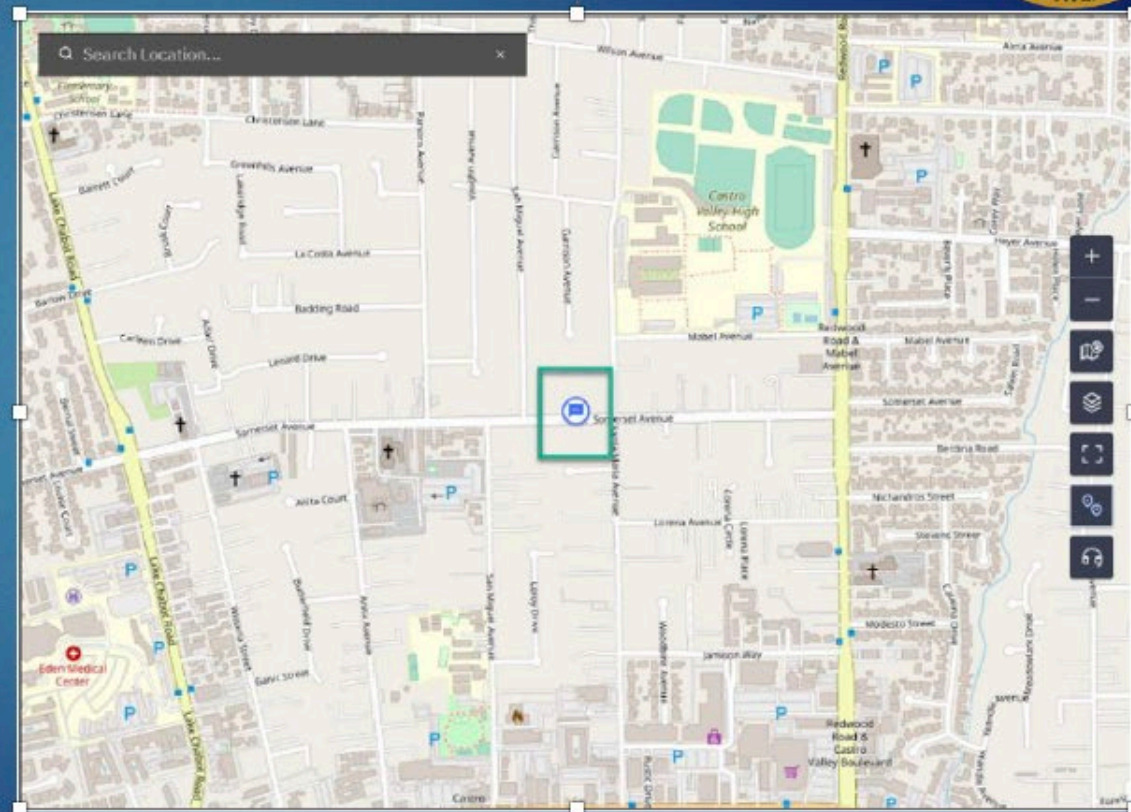
Slovak	sk	✓
Slovenian	sl	✓
Spanish	es	✓
Swahili	sw	✓
Swedish	sv	✓
Tahitian	ty	✓
Tamil	ta	✓
Telugu	te	✓
Thai	th	✓
Tongan	to	✓
Turkish	tr	✓
Ukrainian	uk	✓
Urdu	ur	✓
Vietnamese	vi	✓
Welsh	cy	✓
Yucatec Maya	yua	✓



Texter's Location

Texter's location

Upon clicking
"Answer" the
texter's location will
be displayed on the
map.



Please click the following link on your mobile device to share your current location with your 911 center. <https://13.rdlo8.com/x/bwgua>

Reminder – What Text-to-911 is

- Ability to Text for emergency response if you can't Call 9-1-1 in most situations
- Able to translate supported languages *
- Effective but requires more time/attention from texter



Call if you can, Text if you can't

Questions?

Hector R. Estrada

Deputy Chief

Santa Clara County Fire Department

408.378.4010



Table Presentations



SCC FireSafe Council

Using AI to detect wildfires – San Jose Water Installation





**CUPERTINO PUBLIC SAFETY FORUM-
OCTOBER 19, 2023**

Using AI to detect wildfires – San Jose Water Installation

Presenters:

- Debra Deininger, N5 Sensors, Chief Revenue Officer
- Jared Lewis, San Jose Water, Manager, Environmental Planning and Natural Resources
- David Fernandez, San Jose Water, Director of Emergency Management, Security, and Business Resiliency
- Seth Schalet, CEO, Santa Clara County FireSafe Council



Agenda

- **Santa Clara County FireSafe Council-Quick Snapshot**
 - **Community Wildfire Protection Plan (CWPP)**
 - **County Coordinator Role**
 - **Discuss San Jose Water Project Genesis:**
 - **Early wildfire detection network concept: FireSafe & San Jose Water**
 - **SCCFSC Role**
- **N5 Sensors—Their Story (Deb)**
- **San Jose Water—Goals & Plans**
- **Audience Q&A**

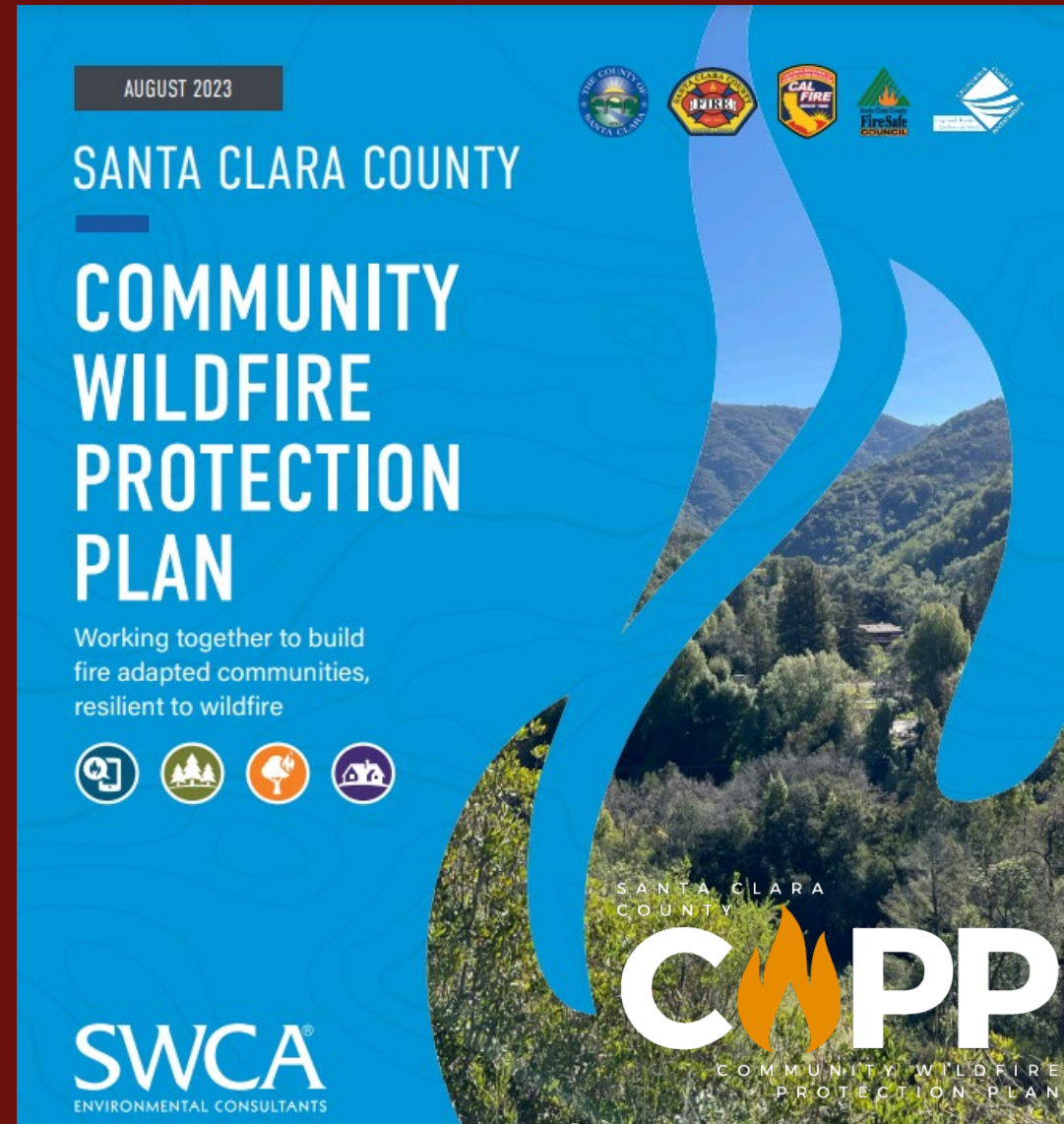


County Wildfire Coordinator

Create, Maintain & Update CWPP

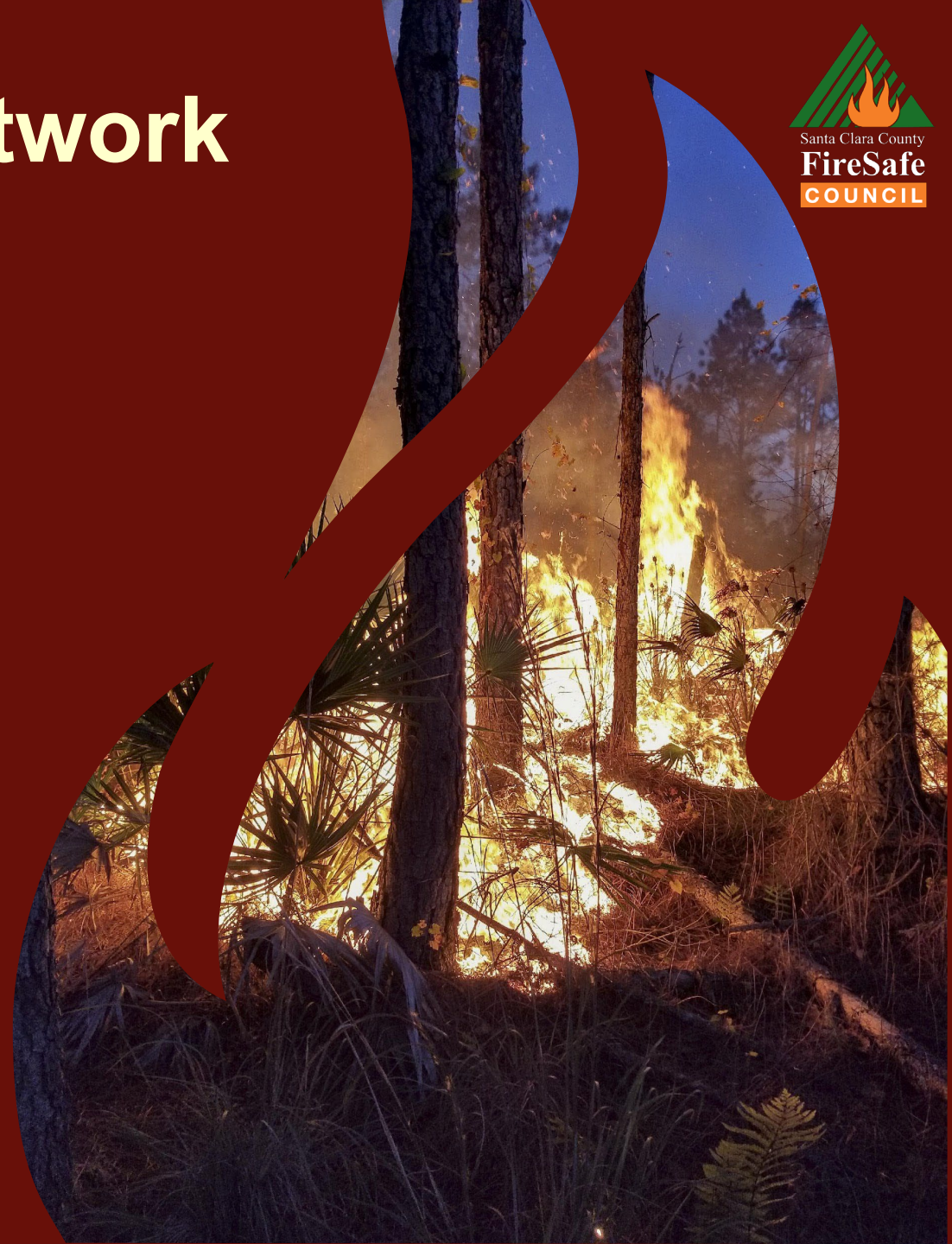
As the County Coordinator, the FireSafe Council will

- Incorporate Annexes when complete
- Continue to engage with partners to evaluate and update when appropriate
- Present County CWPP to Board of Supervisors for adoption



Early Wildfire Detection Network

- Detect Wildfire at earliest opportunity
- Utilize Deep Learning ML/AI technologies
- Start with Wildfire Sensors (Earliest Detection)
- Integrate (bundle) Other Solutions via API:
 - ▶ Wildfire cameras from ALERTCA & Pano
 - ▶ Lightning Detection Sensors (FNN)
 - ▶ Drone Based First Response
- SCCFSC Role: VAR
 - ▶ System Specification Design With Client
 - ▶ Matrix Weighted Evaluation Criteria
 - ▶ Pilot Testing & Scaling
 - ▶ Solutions Procurement
 - ▶ Installation & Maintenance of Solutions



Weighted Matrix Evaluation Criteria



Cost-TCO

Upfront purchase, maintenance, upgrades



Battery Life & Charge Time

Low light time, recharge time, solar panel, average life & replacement plan



Delivery Time

How fast from PO to onsite shipment



Sensor Specifications

8 Various Parameters



Implementation

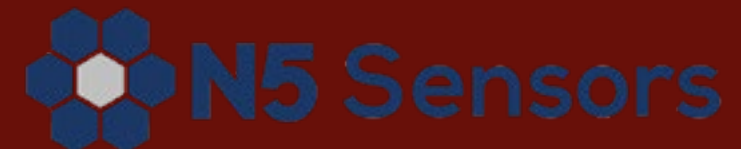
Ease of training/Time to install/Ease of setup & system calibration/Standard report pkg

N5 Sensors, Inc.

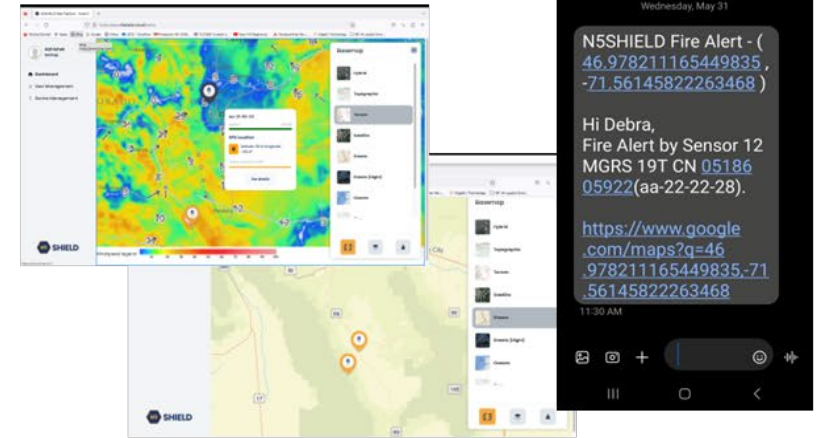
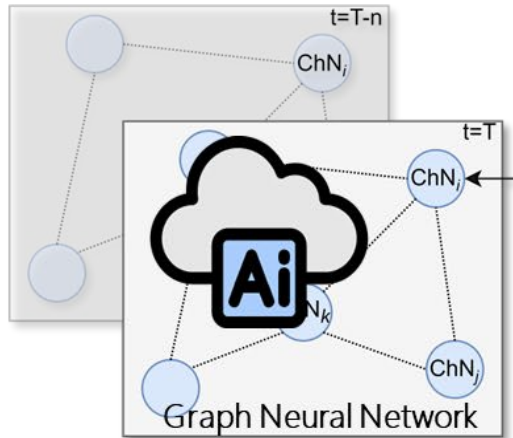
- Founded 2012
- Commercial & Government Sales
- Invited to DHS S&T Smart Cities Internet of Things Innovation (SCITI) Labs Wildfire Program
- 2 years of wildfire detection in field, proven performance
- Sole source contract with DHS for 2024 deployments



Sensors + AI → Environmental Intelligence Platform



Solution – N5SHIELD™



Multimodal Sensor Network

- ❑ Orthogonal Sensor Fusion
- ❑ Massive Environmental Data
- ❑ Minimal Infrastructure Requirement

Powerful Edge and Cloud AI

- ❑ Fast Detection, Day/Night
- ❑ Low False Alarm
- ❑ Network Based Detection

Human-Centric Data and Alert Management

- ❑ 24/7 Text, Email Alert Notification
- ❑ AI+ Human Intelligence for Alert Processing
- ❑ API Based Real-time Data Access

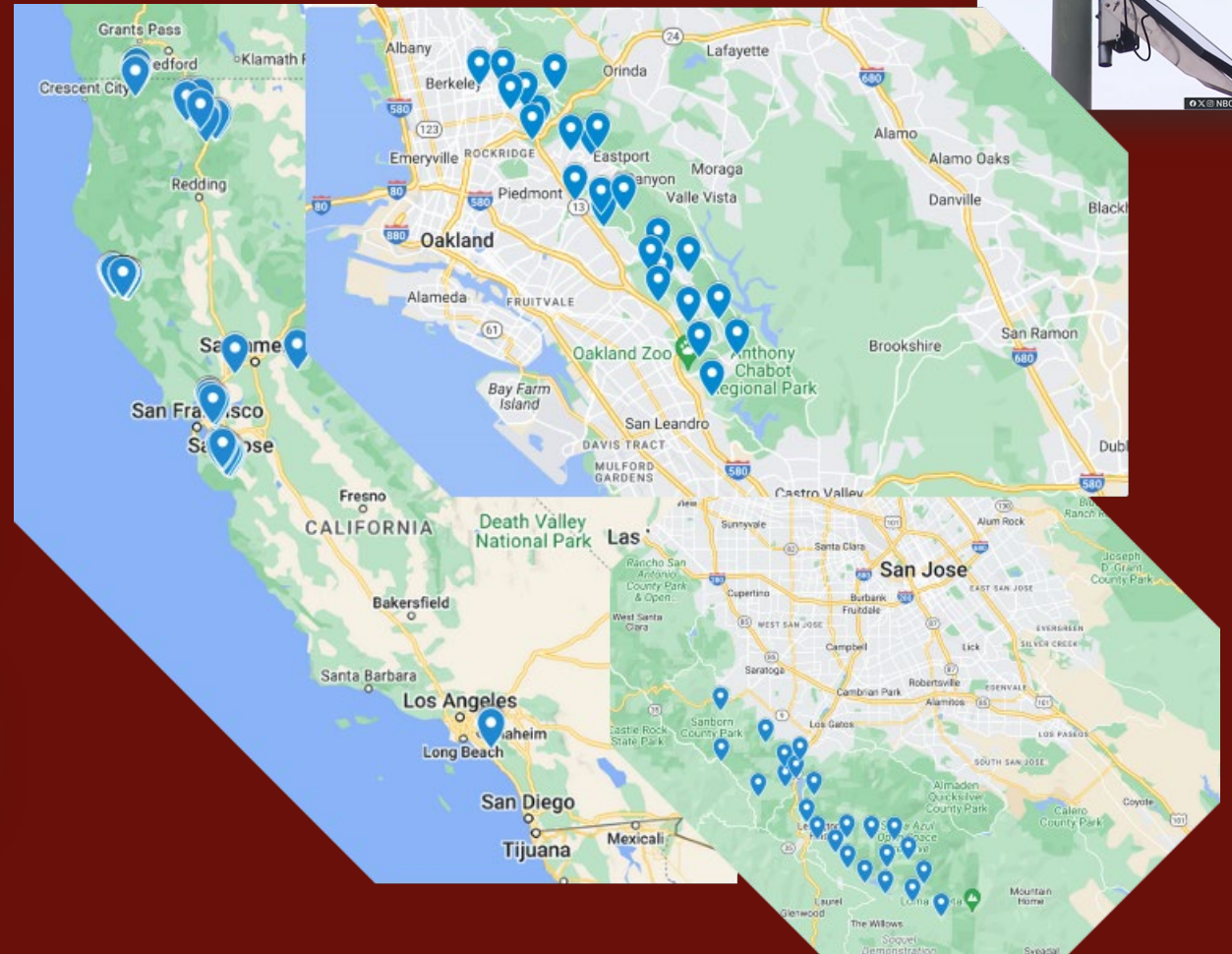
Solution – N5SHIELD™

No Camera

No Microphones

Your privacy is always protected.

Success – N5SHIELD™



Significant Partners and Collaborators

California Existing N5's Network Coverage Map

Deployments



10 US States

Deployed + 4 Provinces Canada

> 1 Million Acres Protection

100+

Number of Events Detected

~2 Terabyte

Environmental Data Logged

Presenter



**Jared Lewis • Manager, Environmental
Planning and Natural Resources**



SAN JOSE WATER

Watersheds and Regional Context



Regional Context

San Jose Water Watersheds
Sanitary Survey | 2021



Focus Areas



CLIMATE ADAPTATION

Reduce vulnerability to climate impacts such as drought, flooding and wildfire.



WILDFIRE RESILIENCY

Protect infrastructure and natural resources, and prevent water supply disruptions during and after wildfires.



ENVIRONMENTAL WATER

Ensure long-term sustainability of water supply and support the health of local ecosystems.



ECOSYSTEM MANAGEMENT

Provide ecological benefits, water quality improvement, carbon sequestration, and recreational opportunities.

Wildfire Resiliency

Building resilient landscapes to ensure water system **reliability and sustainability** of water resources.



SAN JOSE WATER

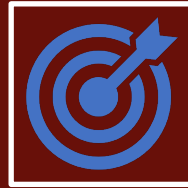
Core Objectives



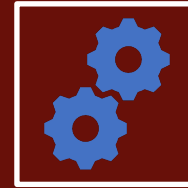
Reduce risk of catastrophic wildfire, protect source of supply and water quality



Provide resources to support existing detection and rapid response efforts



Increase the accuracy and precision of wildfire detection



Streamline allocation of resources for monitoring and suppression



Improve interagency coordination and response



SAN JOSE WATER



Audience Q&A



Residential and Commercial Safety

Captain Neil Valenzuela



Cupertino Public Safety Forum



Santa Clara County Sheriff's Office
Captain Neil Valenzuela

Residential and Commercial Safety

Agenda

- Overall Crime Update
- Residential Burglary Statistics and Prevention Tips
- Commercial Burglary Statistics and Prevention Tips

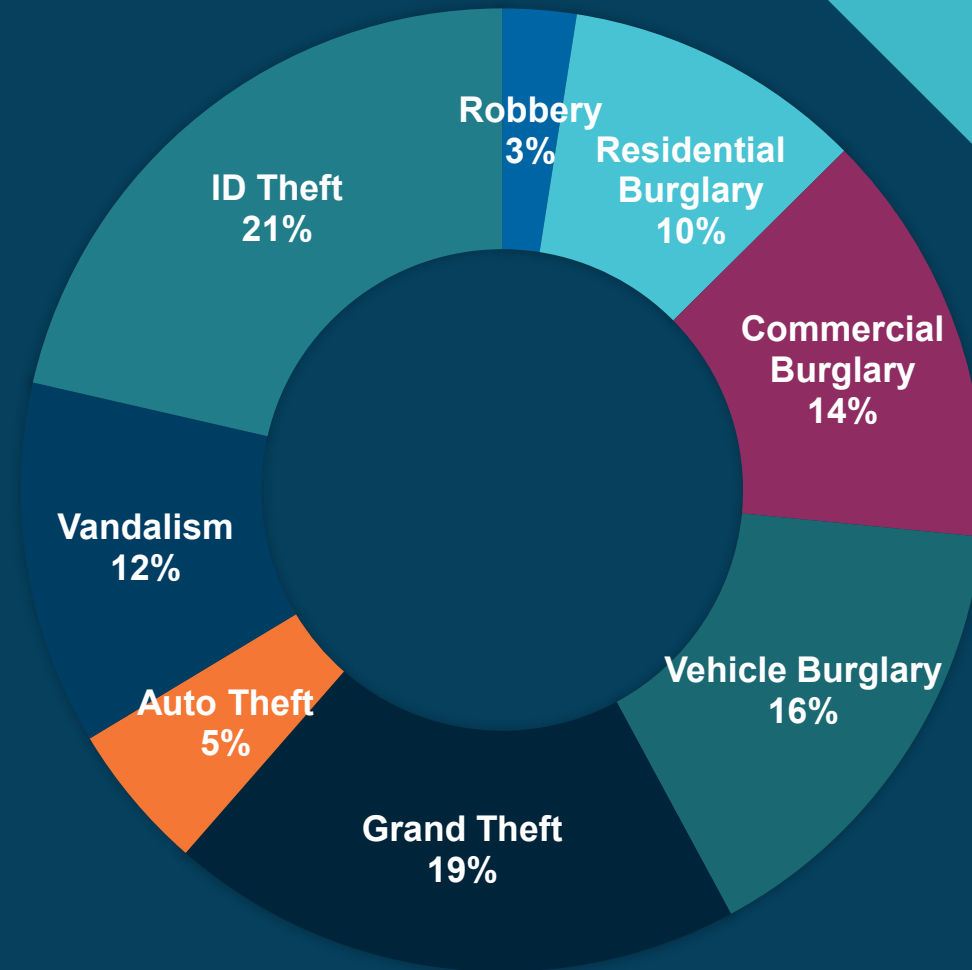
Property Crime Totals

2018-2023

	Robbery	Residential Burglary	Commercial Burglary	Vehicle Burglary	Grand Theft	Auto Theft	Vandalism	ID Theft/ Fraud
2023 Jan-Sep	14	57	79	88	109	28	69	121
2022	20	85	95	153	217	57	102	142
2021	18	79	82	176	167	63	101	130
2020	21	96	114	188	109	55	81	139
2019	11	121	93	464	73	45	79	102
2018	13	122	76	330	85	60	63	127

Composition of Property Crime

Jan-Sep
2023

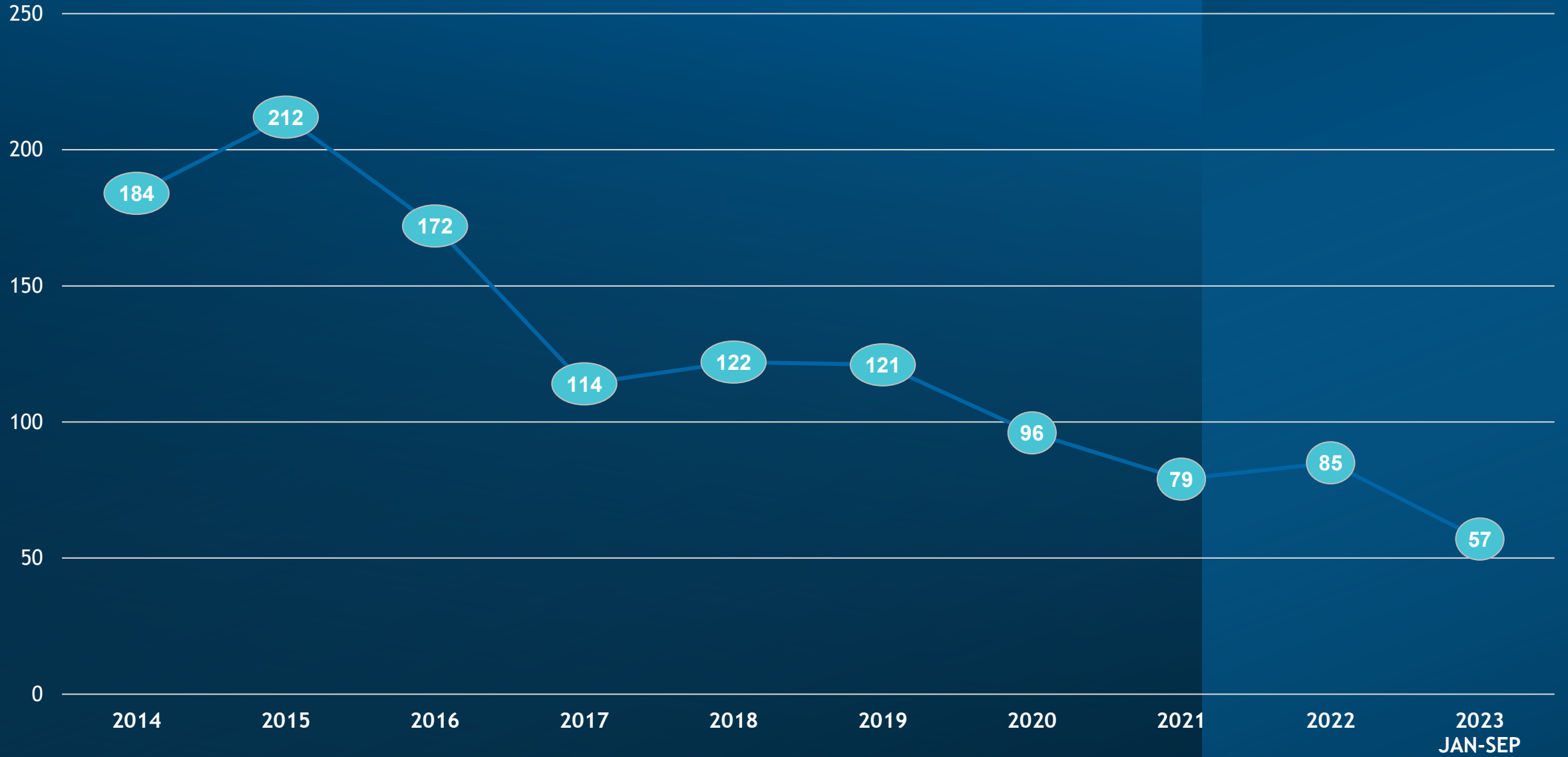


Cupertino Crime Index

2022-2023 VARIANCES

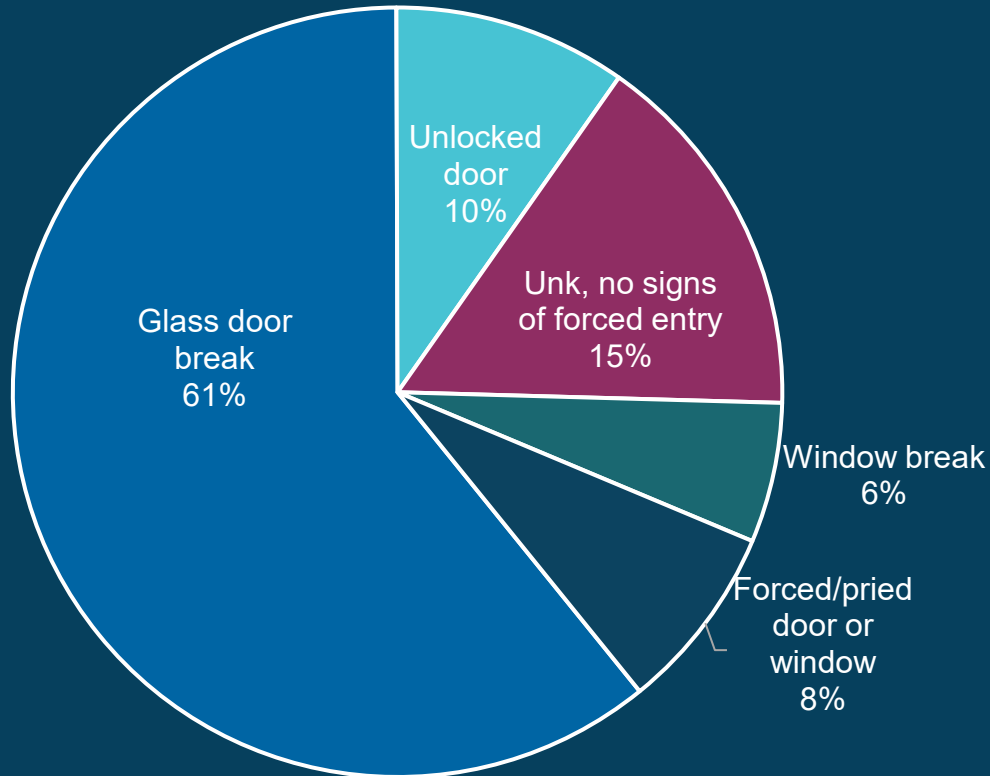
	JAN-SEP 2022	JAN-SEP 2023	% Difference	
Robbery	18	14	-22%	↓
Residential Burglary	56	57	2%	↑
Commercial Burglary	75	79	5%	↑
Vehicle Burglary	129	88	-32%	↓
Grand Theft	168	109	-35%	↓
Auto Theft	50	28	-44%	↓
Vandalism	76	69	-9%	↓
Identity Theft	96	121	26%	↑

Residential Burglaries



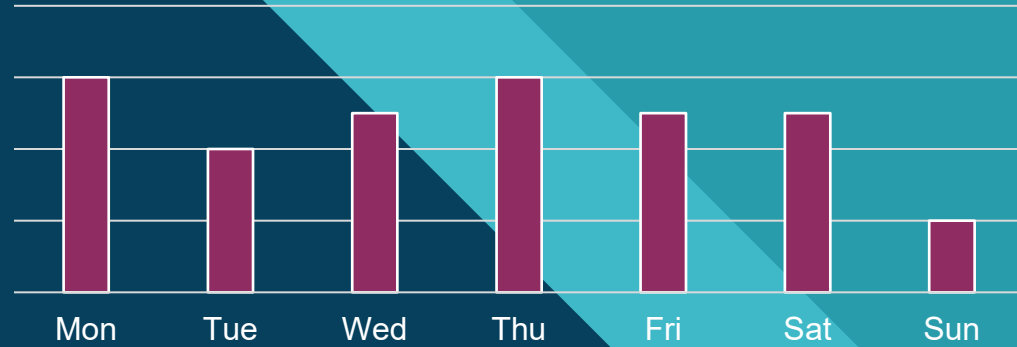
Residential Burglaries Jan-Sep 2023

Method of Entry

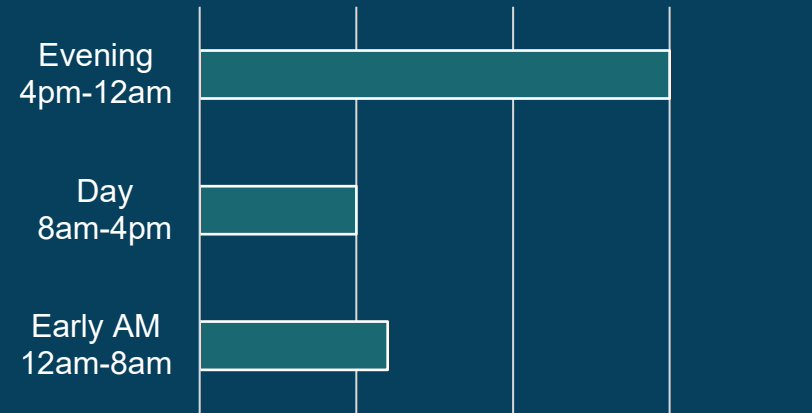


Majority of break-ins occurred via a glass door break, typically a rear slider

Day of Week



Time of Day



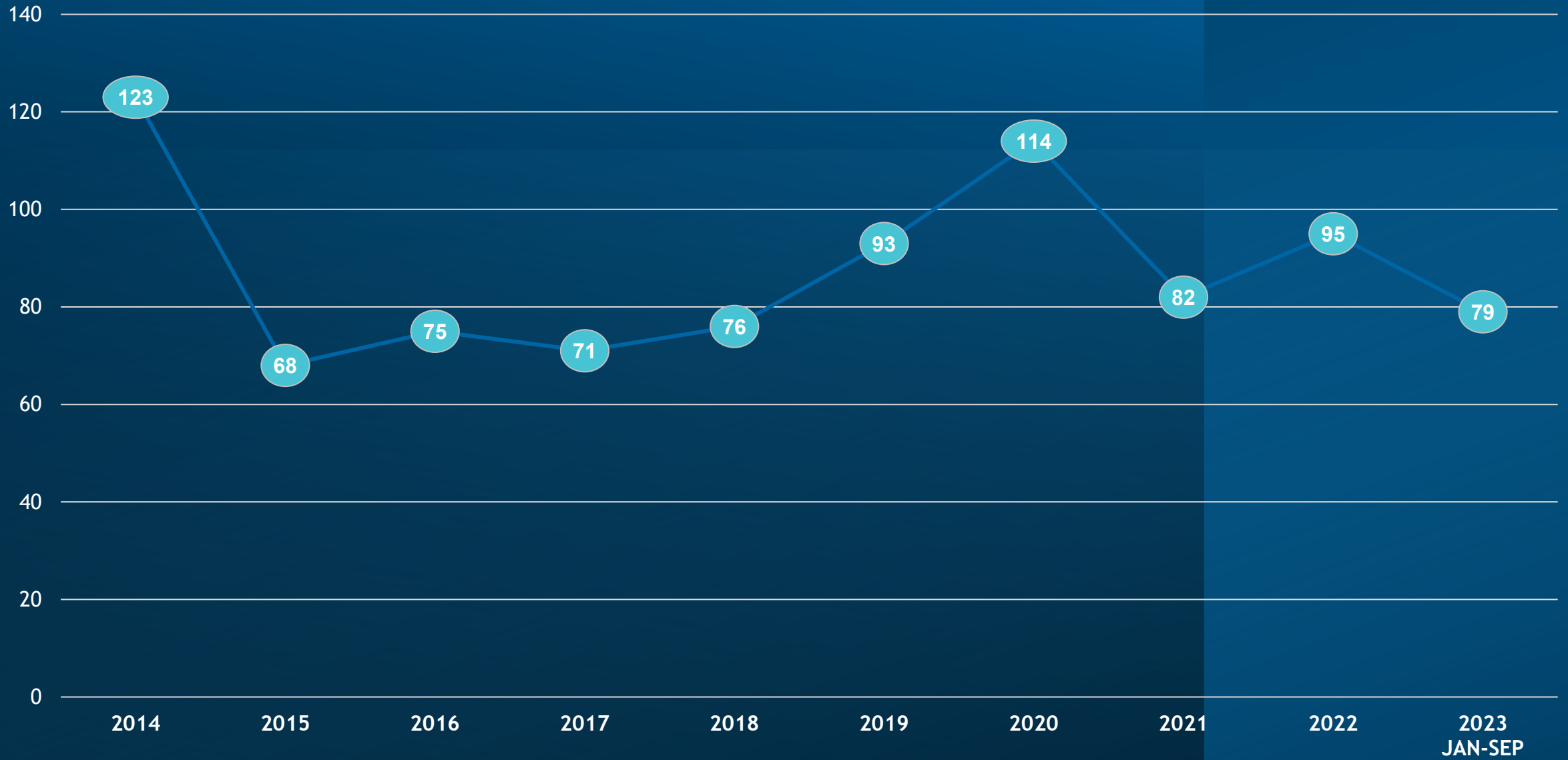
42% of reported cases, the time frame of occurrence is unknown and happened over the course of multiple days/weeks (unoccupied residence, homeowners out-of-town, etc.)

21% of reported cases, the crime occurred at an apartment or condominium complex - communal mailboxes, detached garage, bike storage area

Prevention Tips

- **Activate home alarm or surveillance systems**
 - In an overwhelming majority of cases reported, burglars made entry by breaking a rear glass door, often one leading directly to the master bedroom of the home
 - A live monitored system, sensitive to doors/windows and reporting directly to Sheriff's emergency dispatch line, is a preferred method of alarm security
 - Remember to activate system every time you leave your home
 - Know how to use and keep alarm system in good working order
 - Alarm systems are a deterrent and reduce likelihood of burglary or limit losses
- **Lock your doors and windows, even when you are home**
- **If you're leaving town:**
 - Do not broadcast this information on social media
 - Place a temporary stop on newspaper and mail, or have trusted person collect daily
 - Lock all windows and doors
 - Activate alarm and surveillance systems
 - Make it appear like someone is home – put lights on timer, have bins put out/picked up on trash day, place a hold on mail and newspapers
 - Keep travel plans offline, do not post on social media
 - Ask a trusted neighbor to keep an eye on your house and to immediately report any suspicious activity by calling 9-1-1
 - Submit a patrol check request to our office at <https://www.sccgov.org/sites/sheriff>
 - Consider where you store your valuables -master bedrooms and closets are the main target, as these areas of the home are where criminals expect to find handbags, jewelry, and safes
- **Don't leave valuables in plain sight**
- **Do not leave spare keys hidden near your front door - consider leaving a spare with your neighbor instead**
- **Be neighborly, and report suspicious activity in an effort to reduce crime where you live**
 - Some activities that may be considered suspicious include:
 - Unusual noises such as screaming, alarm activations, glass breaking, or dogs barking
 - Slow moving vehicles, vehicles driving with lights off at night, vehicles left unattended while running, and unknown vehicles parked at a neighbor's house
 - People behaving strangely, going door to door, entering side yards, parked inside a vehicle for an extended period or wearing clothing inconsistent with the weather
 - If unsure, do not be reluctant to call 9-1-1
 - If it's suspicious to you, it's worth reporting
 - Timely reporting greatly assists with the prevention or interruption of crime, and the apprehension of criminals

Commercial Burglaries



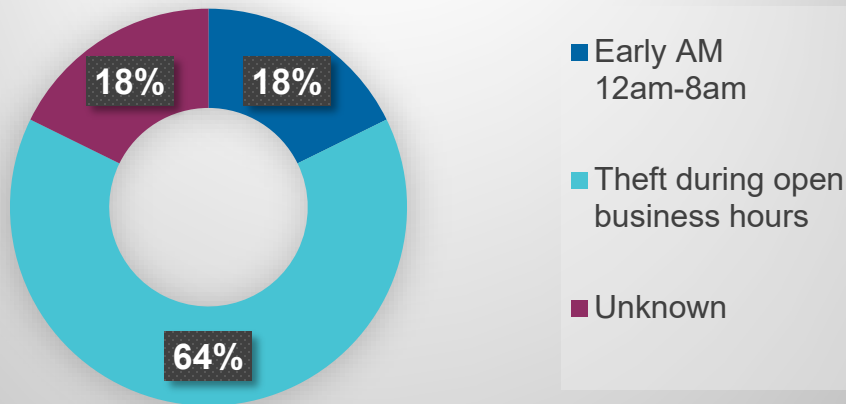
Commercial Burglaries

Jan-Sep 2023 = 79 total

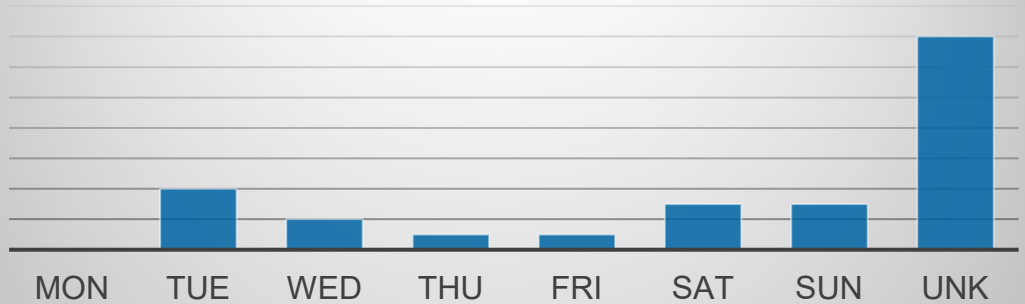
51 = merchandise valued at \$950+ stolen from retailer during business hours, some “shopliftings” codified as felony commercial burglary

28 = cash, electronics, food, merchandise, and tools stolen from various types of businesses, e.g., restaurant, professional practice, etc.

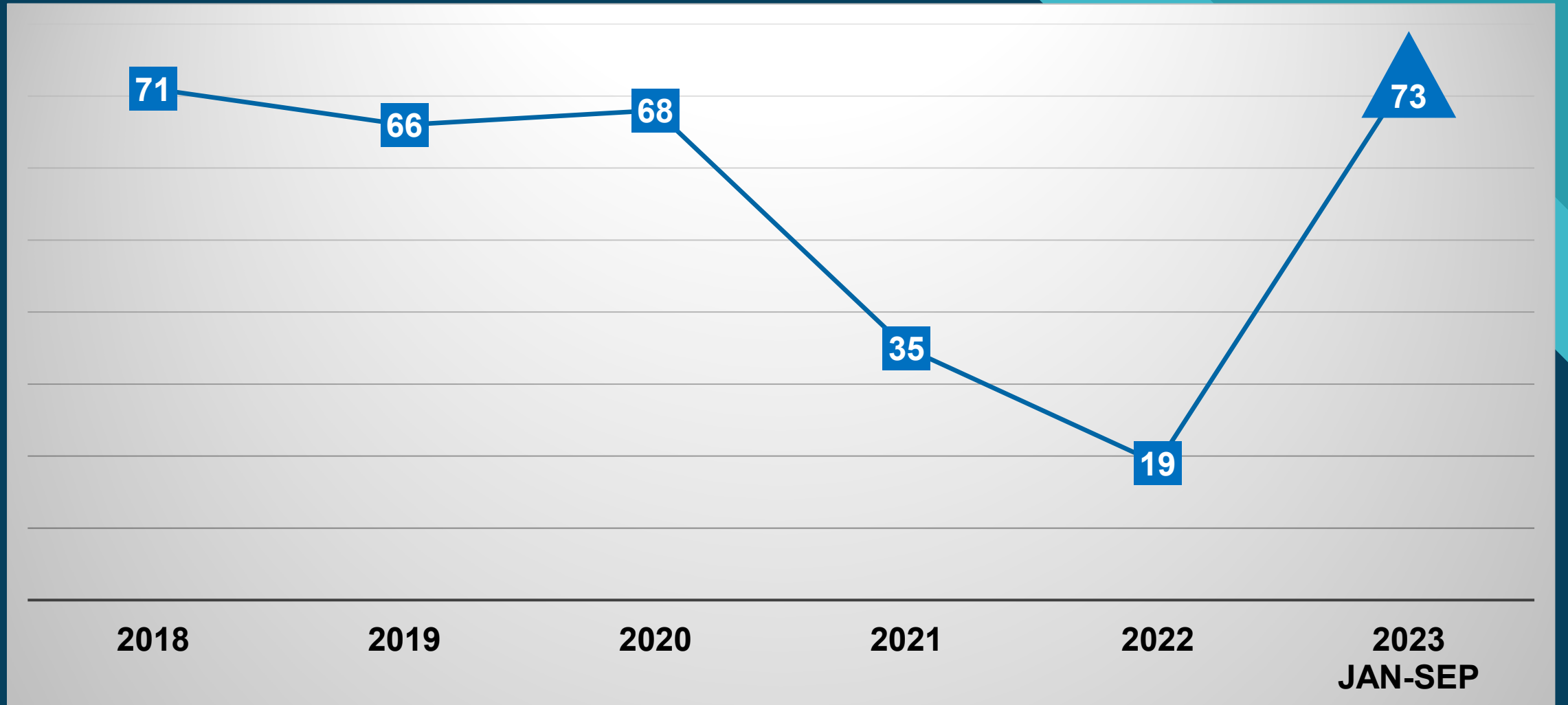
Time of Day



Day of Week



Shoplifting <\$950



Keeping Businesses Safe

- Secure windows and doors
- Install alarm systems
- Use surveillance cameras
- Illuminate dark areas
- Landscape for security


Thank You

Sheriff's Office West Valley Substation
1601 S. De Anza Boulevard Suite 148
Cupertino, CA 95014

Administrative Offices
408-868-6600

Non-Emergency
408-299-2311

Emergency
9-1-1 or **Text 9-1-1**

The background features a large, semi-transparent seal of the Santa Clara County Sheriff's Office. The seal is a five-pointed star with a central circular emblem. The emblem contains a landscape with a ship, a plow, and a sheaf of wheat, with the word 'EUREKA' above it. The words 'SANTA CLARA COUNTY' are written around the inner circle, and 'SHERIFF' is written across the top of the star.

**SANTA CLARA
COUNTY SHERIFF'S
OFFICE**

**UNMANNED AERIAL SYSTEMS
(UAS) PROGRAM**

Senate Bill 230



- Senate Bill 230 emphasized the continued need for law enforcement to leverage de-escalation tools and tactics.
- De-escalation should be used whenever possible to minimize, divert, or eliminate conflict or potential for use of force (UOF).
- UAS will decrease our UOF and provide increased officer safety.
- The information provided by the UAS would improve oversight of critical incidents and allows for better tactical decision making.
- A reduction in injuries to staff by smarter operations.

Benefits of a UAS Program for Law Enforcement

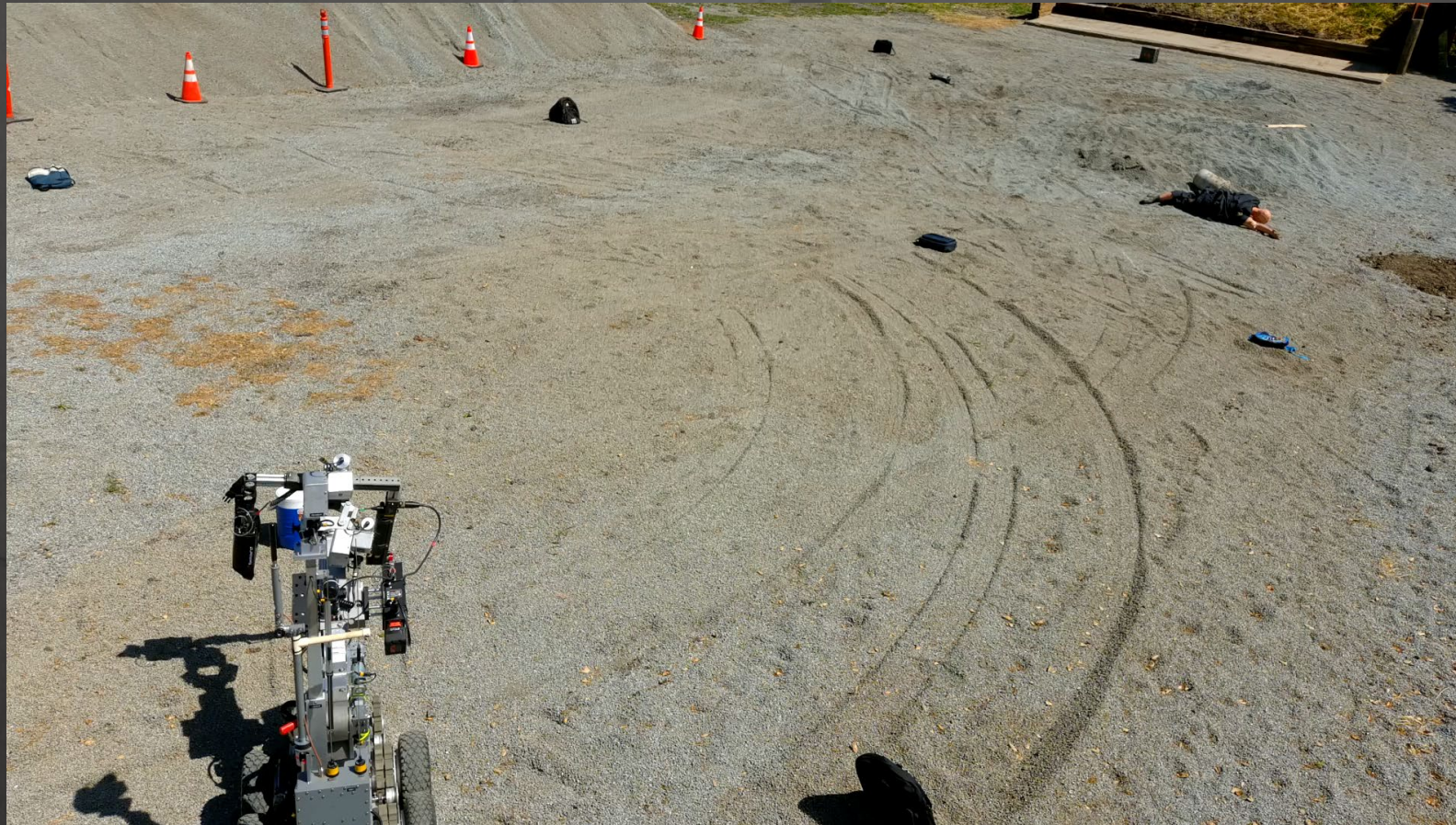


- Overhead observations providing critical updates to first responders on crucial public safety missions
- Intel on an incident leading to better decision making
- Provides another avenue to facilitate announcements and opportunities to resolve incidents before UOF required
- Both indoor / outdoor applications
- Cost efficiency: minimal purchase / repair costs
- Evidence gathering / scene documentation
- Public transparency

Overhead Observations During Critical Incident



Explosive Device Evaluation & Mitigation



Crime Scene Documentation



Elements of the Sheriff's Office UAS Program



- General Order for authorized UAS use and oversight
 - *Draft policy available on Sheriff's Office website*
- Addressed privacy considerations through the Surveillance Use Policy pursuant to County Surveillance Technology and Community Safety Ordinance
 - *Reviewed by Privacy Office, CCO & OCLEM*
- Public information & transparency will be posted on website
- Operator training and certification through FAA
- Flight and maintenance logs
- Vast complaint process:
 - *Incident supervisor, IA, written complaint, phone complaint, in-person complaint or email to Military Equipment Coordinator*

Authorized Uses



- Public safety and life preservation missions
- Locate missing/lost persons
- Search and Rescue missions
- Crime scene/traffic collision documentation
- Explosive device or hazardous materials mitigation
- Citizen or law enforcement rescue operations
- Terrorism response operations
- Warnings to drone operators impeding emergency personnel
- Pursuant to a search warrant
- Perimeter security at the jails
- High-risk security and dignitary protection details
- Brief monitoring of protests and demonstrations based on reported complaints
- Recon for tactical operations
- Mapping of critical infrastructure and large-scale events
- Training missions
- Evidence collections when traditional methods unavailable
- Dept photos and video for recruitment
- Mutual aid support

Prohibited Uses



- Random surveillance activities with no legitimate public safety purpose.
- To target a person based solely on individual characteristics such as but not limited to race, ethnicity, national origin, religion, disability, gender or sexual orientation.
- To harass, intimidate or discriminate against any individual or group.
- To conduct personal business of any type.
- Shall not be weaponized.
- Shall not be integrated with facial recognition or biometric technology.
- Shall not be used in violation of any Sheriff's Office policy or FAA regulation.

Assembly Bill 481



- UAS are defined as military equipment under AB 481 (Category 1) and fall under our General Order for Military Equipment Funding, Acquisition, and Use.
- The Board of Supervisors will have to approve the funding, acquisition and use before procurement.
- As part of the requirement for law enforcement agencies utilizing “military equipment”, the Sheriff’s Office created a policy that ensures compliance with statutory requirements and other established Sheriff’s Office policies and procedures.
 - *Draft policy is available for review on the department website*



Thank You

SAVE THE DATE

PUBLIC SAFETY
FORUM 2024



CUPERTINO

October 17, 2024

COORDINATED BY THE CITY OF CUPERTINO'S PUBLIC SAFETY COMMISSION