



CITY CLERKS: PLEASE POST

AGENDA

**PALOS VERDES PENINSULA
PUBLIC SAFETY COMMITTEE**

**THURSDAY, September 1, 2022
7:30 A.M.**

VIRTUAL MEETING

In accordance with Assembly Bill 361 (AB361), due to the continuing state of emergency, including masking and social distancing directives as a result of the threat of the COVID-19 virus, the Palos Verdes Peninsula Regional Emergency Preparedness Committee for Thursday, September 1, 2022, at 7:30 a.m., will be conducted via teleconference using the Zoom platform. Members of the public may participate virtually in the meeting in the following ways:

- Members of the public may listen to the meeting live by calling 1-669-900-6833 from any phone, Meeting ID: 835 3660 6753, Meeting Password: 459987. (Please note you will not have the ability to speak using the call-in option from a phone line.)

-Public correspondence may be emailed to the City Clerk at lauren@rollinghillsestatesca.gov.

I. CALL TO ORDER

II. ROLL CALL

III. PLEDGE OF ALLEGIANCE

IV. PUBLIC COMMENT

NOTE: *This is the appropriate time for members of the public to make comments regarding items not listed on this agenda. Pursuant to the Brown Act, no action will take place on any items not listed on the agenda.*

V. APPROVAL OF MINUTES

A. MINUTES OF MAY 12, 2022

VI. OLD BUSINESS

- A. PALOS VERDES PENINSULA UNIFIED SCHOOL DISTRICT UPDATE (PVPUSD SUPERINTENDENT DR. ALEX CHERNISS)
- B. UPDATE ON THE PENINSULA EMERGENCY PREPAREDNESS TASKFORCE (RHE VERBAL REPORT)
- C. ZONEHAVEN EVACUATION PLATFORM UPDATE (RHE)
- D. STATUS UPDATE ON PENINSULA WILDFIRE CAMERAS (RPV)

VII. NEW BUSINESS

- A. None.

VIII. OTHER MATTERS FROM COMMITTEE MEMBERS

NOTE: *This is the appropriate time for Committee Members to direct the placement of items for future action on upcoming agendas.*

Next regular meeting Thursday, November 10, 2022 at 7:30 a.m.



**PALOS VERDES PENINSULA
PUBLIC SAFETY COMMITTEE
MINUTES TO MEETING ON THURSDAY, MAY 12, 2022**

I. CALL TO ORDER

A meeting of the Palos Verdes Peninsula Public Safety Committee was called to order by Chair Zuckerman at 7:44 am. via Zoom.

II. ROLL CALL

PRESENT:

Rancho Palos Verdes

David Bradley, Mayor

Eric Alegria, Councilmember

Rolling Hills Estates

Steve Zuckerman, Councilmember

Rolling Hills

Bea Dieringer, Mayor

Patrick Wilson, Councilmember

Palos Verdes Estates

Dawn Murdock, Councilmember

David McGowan, Councilmember

ABSENT:

Frank Zerunyan, Mayor, Rolling Hills Estates*

ALSO PRESENT: **Rancho Palos Verdes**

Ara Mihranian, City Manager

Karina Bañales, Deputy City Manager

Jesse Villalpando, Emergency Services Coordinator

McKenzie Bright, Administrative Analyst

Rolling Hills Estates

Greg Grammer, City Manager

Alexa Davis, Assistant City Manager

Lauren Pettit, City Clerk

Jessica Slawson, Management Analyst

Rolling Hills

Elaine Jeng, City Manager

Christian Horvath, City Clerk

Palos Verdes Estates

Steve Barber, Captain

Marcelle Herrera, Community Relations Officer
Palos Verdes Peninsula Unified School District (PVPUSD)
Brenna Terrones, Assistant Superintendent, Administrative Services
Richard Phillips, Board Member
Los Angeles County Sheriff's Department
Captain James Powers, Lomita Sheriff's Station
Sergeant Tina McCoy, Lomita Sheriff's Station
Deputy Darlene Lopez-Beltran, Lomita Sheriff's Station
Deputy Ben Russell, Lomita Sheriff's Station
Los Angeles County Fire Department
Assistant Chief Brian Bennett, Division 1

III. PLEDGE OF ALLEGIANCE

Pledge of Allegiance led by Member Dieringer.

IV. PUBLIC COMMENT

None.

*At 7:53 am Member Frank Zerunyan joined the meeting.

V. APPROVAL OF MINUTES

A. MINUTES OF FEBRUARY 10, 2022

Motion by Member Bea Dieringer, seconded by Member Bradley to approve the minutes as presented.

AYES: Members: Bradley, McGowan, Murdock, Wilson, Zuckerman and Chair Dieringer

NOES: Members: None

ABSTAIN: Members: Alegria and Zerunyan

VI. OLD BUSINESS

A. SCHOOL RESOURCE OFFICER (SRO) UPDATE (SCHOOL DISTRICT REPORT)

Palos Verdes Peninsula Unified School District (PVPUSD) Assistant Superintendent Brenna Terrones reported the allocations of the Tobacco Grant that will be put into effect for the next fiscal year based on current allocation percentages. Palos Verdes Estates

would be discounted \$7,125.00 from their regular allocation; Rancho Palos Verdes is \$23,156.00; Rolling Hills is \$712.50; Rolling Hills Estates is \$4,631.25.

Assistant Superintendent Brenna Terrones reported on the SRO's Student and the Law class that was offered at Rancho Del Mar. This has proved to be extremely helpful and is enjoyed by students.

Assistant Superintendent Brenna Terrones reported a series of vandalism incidents on the Palos Verdes and Peninsula High School campuses. There were license plates, images, and persons of interest for these crimes. However, since these incidents occurred during the night the cameras were unable to capture the individuals in the act. The schools are now deploying more cameras and enforcing hours.

B. UPDATE ON THE PENINSULA EMERGENCY PREPAREDNESS TASKFORCE (RHE VERBAL REPORT)

Rolling Hills Estates (RHE) Management Analyst Jessica Slawson reported that the four Peninsula cities are collaborating as a region on emergency planning and preparation for the community which also includes the Zonehaven project. Rolling Hills Estates and Rancho Palos Verdes established a special fine amount per violations pertaining to the possession in discharge of fireworks within each jurisdiction and will implement fireworks suppression teams around the Fourth of July Holiday. Rolling Hills is collaborating with the Palos Verdes Peninsula Land Conservancy for further clearing of fire fuel in Portuguese Bend Reserve area.

Management Analyst Slawson reported that the City of Palos Verdes Estates hosted an LPGA tour at the Palos Verdes Golf Course, and the Palos Verdes Police Department reported that this event went smoothly.

Management Analyst Slawson noted that a representative from the Lomita Sheriff's Station attended the LPGA tour and reported that they supported Ridge Crest Elementary School's 5k and are planning upcoming community events. Sheriff volunteers have returned to station duties.

Management Analyst Slawson noted that the school districts are conducting their Spring Safety drills and replacing PPE at all schools.

C. STATUS UPDATE ON WILDFIRE CAMERAS (RPV – VERBAL)

RPV Emergency Services Coordinator Jesse Villalpando provided a verbal report on the status update on the wildfire cameras. He reported that a request for proposals (RFP) was released and scored by representatives from all four cities. The RFP sought a qualified firm to plan, design, implement, install, and maintain a twenty-four-hour wildfire detection system that utilizes artificial intelligence. Proposers were requested to provide two options, separately priced, one for RPV and one for the Peninsula as a whole.

Chair Zuckerman requested additional information on how these cameras will receive power. Emergency Services Coordinator Villalpando provided additional information on how source of power will support these cameras. Chair Zuckerman followed up with requesting assistance from State Assembly Member Muratsuchi for possible grant funding.

Member Dieringer requested additional information on the cost breakdown. Emergency Services Coordinator Villalpando provided a high-level overview of the selected vendor's cost proposal and discussed grant options available to cities.

Member Murdock requested information on the locations of where these cameras will be placed. Emergency Services Coordinator Villalpando provided a detailed overview of which camera option best suits the needs for the whole Peninsula.

Public comment was received from Larry Maizlish, RPV Emergency Preparedness Chair, who echoed Emergency Services Coordinator Villalpando's comments. He would like to add to the RFP proposals that were submitted and have already been circulated to all four cities staff which includes all pricing for the cameras and maps for review.

Motion by Member Dieringer, seconded by Member McGowan to schedule a special meeting, and discuss which vendor will best fit the needs for each respective city.

AYES: Members: Alegria, Bradley, Dieringer, McGowan, Murdock, Wilson, Zerunyan and Chair Zuckerman
NOES: Members: None
ABSTAIN: Members: None

D. ZONEHAVEN PRESENTATION (COUNTY OEM)

Los Angeles County Office of Emergency Management's Bennett Cummings provided a PowerPoint presentation, recapping an overview of Zonehaven. Currently Staff is identifying appropriate jurisdictional zones in each city. Next steps would be a continuation of training on Zonehaven Evacuation system which include drills, exercises, and Public Education/Outreach. Mr. Cummings provided more information on some issues with jurisdiction feedback explaining that there are thirty-five cities participating in this program across the County which are all in high fire areas. Cummings is currently trying to have each city finalize their zones. Once these zones are finalized, scheduling

trainings will begin. He emphasizes the importance of this system as it is here to help with evacuation preplanning and to assist with the public/first responders.

Chair Zuckerman inquired about the status of zoning areas and how far along is the City. Management Analyst Slawson responded that the City is far along in this process as are the rest of the Peninsula cities.

Mr. Cummings concluded that the system itself is funded by the County for three years and would not cost the cities.

Public comment was received from Larry Maizlish, RPV Emergency Preparedness Chair, and added that Zonehaven is a great program and will be beneficial for the Peninsula.

Public comment was received from Ruth Braswell, RPV Emergency Preparedness member, who echoed RPV Emergency Preparedness Chair Larry Maizlish. Braswell would like to know if there will be additional costs for removing redundant language in the RFP and have the support of promoting Zonehaven for public outreach.

City Manager Greg Grammer explained that public education is the next step in the process. Depending on available funding, utilizing a consultant after implementation of Zonehaven could be beneficial to further the Peninsula's evacuation planning efforts.

VII. NEW BUSINESS

A. BRUSH CLEARANCE UPDATE (LACoFD - VERBAL)

Assistant Chief, Brian Bennett reported that 2022 inspections have not been started, but have a tentative date for June. While waiting to start the inspections all members have been trained in Fire forestry. Upcoming inspections will have a change this year. He states all houses in high fire hazard zones will receive a door tag. These door tags will indicate a need of improvement or have a successful inspection. Bennett explains that these inspections will be done electronically. He will provide updated pamphlets to provide to all cities to inform their residents.

*At 9:40 A.M Member David McGowan left the meeting.

B. FUTURE MEETING FORMAT DISCUSSION

City Manager Greg Grammer asked if the committee would like to continue virtual meetings or move forward with in person meetings.

Motion by Member Bradley, seconded by Member Alegria to remain having virtual meetings.

AYES: Members: Alegria, Bradley, Dieringer, Murdock, Wilson, Zerunyan and Chair Zuckerman

NOES: Members: None

ABSTAIN: Members: McGowan

VIII. OTHER MATTERS FROM COMMITTEE MEMBERS

None.

IX. ADJOURNMENT

There being no further business before the Palos Verdes Peninsula Regional Emergency Preparedness Committee, Chair Zuckerman adjourned the meeting at 9:47 am. The next meeting is scheduled to be held on Thursday, August 11, 2022, beginning at 7:30 am.

Approved,

Respectfully submitted,

Steve Zuckerman, Chair
City of Rolling Hills Estates

Enyssa Momoli
Administrative Assistant
City of Rancho Palos Verdes



MEMORANDUM

TO: PENINSULA PUBLIC SAFETY COMMITTEE
FROM: DR. ALEX CHERNISS, PVPUSD SUPERINTENDENT
DATE: SEPTEMBER 1, 2022
SUBJECT: PVPUSD UPDATE

The District continues to look for ways to improve the safety and security for our staff and students. Since the Uvalde shooting, the district school resource officers conducted a facility risk assessment of all of our campuses. The District and the Board of Education also held meetings with Chief Best, Captain Powers, and their officers. As a result of these meetings, the district completed facility enhancements to perimeters, including gate installations and repairs, camera installations, and other forms of safety measures. Communication strategies have also been addressed with the City of Rancho Palos Verdes.

Most recently, the superintendent has met with city council and staff representatives from the City of RPV, who have expressed interest in collaborating with the district to improve the safety and security of its schools. Some topics discussed have been establishing a program to provide mental health services to young adults, who have since graduated from the district and are still living within the city and increasing the number of school resource officers in our district.



MEMORANDUM

TO: PENINSULA PUBLIC SAFETY COMMITTEE
FROM: CITY MANAGERS
DATE: SEPTEMBER 1, 2022
SUBJECT: ZONEHAVEN UPDATE
PREPARED BY: Jessica Slawson, Management Analyst

RECOMMENDATION

Receive and file this Zonehaven update report and direct staff to collaborate as a Palos Verdes Peninsula region for the launch of the Zonehaven platform for public awareness and implementation purposes.

BACKGROUND AND DISCUSSION

The Peninsula Public Safety Committee (PPSC) has discussed mass evacuation planning for the Palos Verdes Peninsula over the last year to better understand the significance of neighborhood ingress and egress routes, identify concerns about impaired access, establish communication best practices, and how to repopulate an area in the event of an evacuation.

The County of Los Angeles Office of Emergency Management (OEM) is collaborating with local jurisdictions located in the Very High Fire Severity Zones for the development of evacuation zones and processes that will be supported by the Zonehaven platform. Zonehaven is a cloud-based evacuation management platform that leverages critical data and assists local public safety personnel (i.e. Los Angeles County Fire and Sheriff Departments and Palos Verdes Estates Police Department) by providing actionable insight to emergency responders and the public in the event of a disaster. Zonehaven also serves as a tool for evacuation pre-planning and assists during real world incidents. The project's overarching goal is to develop a centralized online interactive map that divides a local city into evacuation zones based on geography, threat direction, jurisdictional boundaries, population density, and other regional and/or city specific factors.



The County of Los Angeles OEM is the lead agency for the Zonehaven Evacuation Project and is grant funded for the next three years. The County is exploring additional grant opportunities for future funding. Through the system, the Palos Verdes Peninsula cities will have the ability to utilize the evacuation tool in partnership with local first responders for public messaging and situational awareness functions in responding to large scale incidents related to emergencies or disasters.

In addition to the four Palos Verdes Peninsula cities, in Los Angeles County, the Zonehaven Evacuation Project currently includes: Avalon, Agoura Hills, Calabasas, Hidden Hills, Malibu, Palmdale, Santa Clarita, Westlake Village, Arcadia, Azusa, Bradbury, Burbank, Claremont, Covina, Diamond Bar, Duarte, Glendale, Glendora, Irwindale, La Canada Flintridge, La Habra Heights, La Verne, Monrovia, Pasadena, Pomona, San Dimas, Sierra Madre, Walnut, West Covina, and Whittier. Zonehaven is a tool currently in use in Northern California areas such as Napa County and Sierra County.

Since the May 12, 2022, Peninsula Public Safety Committee meeting, staff has participated in trainings provided by the Los Angeles County OEM's Office and Zonehaven representatives. Staff and the County OEM Office has also received feedback from local public safety partners Fire Battalion 14 and the Lomita Sheriff's Station regarding the Zonehaven platform and continues to regionally coordinate with the Palos Verdes Peninsula cities to further refine the Peninsula framework within the system.

On July 27, 2022, a joint Peninsula meeting was held with the County of Los Angeles OEM Associate Director Bennett Cummings, Palos Verdes Peninsula city staff, Lomita Sheriff's Station and local Fire Battalion 14 personnel to receive a demonstration, and to discuss the regional approach of evacuation planning and next steps of the Zonehaven Project.

The County of Los Angeles OEM Office expects the project to launch in September 2022 as part of National Preparedness month in which the Zonehaven platform will be live and accessible to the public. The Palos Verdes Peninsula cities plan to create a joint public outreach campaign known as "Know your Zone." The campaign will have co-branded city logos including how to access the Zonehaven system. In conjunction with media awareness efforts, staff is also planning to promote Zonehaven at this year's Prepared Peninsula Expo, slated for late October.

CONCLUSION

The close collaboration of the Peninsula cities, public safety partners, and the Los Angeles County Office of Emergency Management can be leveraged with strategic evacuation planning to help the communities of the Palos Verdes Peninsula be more prepared for disasters and emergencies. Staff will continue to keep the committee updated throughout the program implementation process, reassess the Peninsula's evacuation planning needs, and identify possible gaps to address accordingly.



**PENINSULA PUBLIC SAFETY COMMITTEE
AGENDA REPORT**

**MEETING DATE: 09/01/2022
AGENDA HEADING: New Business**

TO: PENINSULA PUBLIC SAFETY COMMITTEE
FROM: CITY MANAGERS
DATE: SEPTEMBER 1, 2022
**SUBJECT: PENINSULA-WIDE WILDFIRE DETECTION
CAMERA SYSTEM UPDATE**

STAFF COORDINATOR: Jesse Villalpando, Emergency Services Coordinator *J. V.*

RECOMMENDATION

- (1) Review an update to the Peninsula-wide Wildfire Detection Camera System clarifying the proposed project's deployment, installation locations, coverage, cost estimates, and proposed funding;
- (2) Affirm Pano AI's Option No. 1 as the preferred project for the Peninsula cities;
- (3) Confirm using the ALPR cost-sharing formula for the Hazard Mitigation Grant Program Local Match should the grant be awarded for this project; and,
- (4) Continue the discussion to when the Hazard Mitigation Grant Program (HMPG) is anticipated to announce grant recipients.

BACKGROUND

In recognition of the use of new technological advancements to mitigate the devastating effect of a wildfire, as well as the growing number of devastating wildfire incidents within California, the Peninsula cities are constantly investigating early wildfire detection tools to add to its toolbox. Over the past year, the Peninsula cities have come to learn of the development of wildfire camera detection systems that provide public safety agencies with timely and accurate alerting of fire ignitions with the goal of protection of life, property, and the environment.

At the November 2021 Peninsula Public Safety Committee (PPSC) meeting, the possibility of participating in the procurement and use of a Peninsula-wide fire detection camera system was first discussed. The PPSC was briefed on recommendations for proposed wildfire camera locations and the differences between surveillance vs. detection systems. The general consensus of the PPSC was to gather more information before

proceeding, including clarification regarding potential camera placement and coverage, detection success rates, cost for the four cities, grant opportunities, and privacy and staffing requirements, and to report back.

On December 22, 2021, a request for proposals (RFP) was issued for wildfire detection services which closed on February 28, 2022. At the conclusion of the RFP, proposals were received from the following three vendors for wildfire camera detection services:

- GC Green Inc.
- N5 Sensors Inc.
- Pano AI Inc.

An evaluation panel comprised of one representative from each of the Peninsula cities ranked the proposals and determined that the three firms' proposals were eligible to be interviewed. Interviews were held on May 10 and 11, 2022.

During the interview process, the evaluation panel was impressed by Pano AI, a wildfire technology company that uses cameras and artificial intelligence (AI) software to automatically detect the first wisps of smoke and deliver real-time fire images to first responders and emergency personnel, all with the goal of detecting flare-ups earlier and allowing for a quicker response before a fire spreads. Furthermore, Pano AI's ability to manage all aspects of wildfire detection system permitting, installation, monitoring, operations, and maintenance, as well as Pano AI's track record of successfully deploying its "Pano Rapid Detect" wildfire detection solution in [Napa and Sonoma County](#), [Santa Cruz County](#), and with the [Aspen Fire Protection District](#), motivated the evaluation panel to agree that Pano AI is the preferred vendor.

On May 12, 2022, the PPSC received a status report on the wildfire camera detection system. The RFP required proposers to submit two separately priced options, one for Rancho Palos Verdes and one for the entire Peninsula. The PPSC was informed that the evaluation panel identified Pano AI as the preferred vendor and that efforts are underway to enter into a professional services agreement. The PPSC requested additional information regarding the power source for these cameras, potential grant funding, and the cost breakdown for each city. In addition, the PPSC proposed that staff investigate additional information on potential cost estimates and a cost-sharing agreement with interested partnering agencies, and report back to the PPSC at a later date to determine how each city would consider how to proceed.

Since the May 12, 2022 meeting, the Peninsula cities have been gathering more information on the services provided by Pano AI particularly the deployment, installation locations, coverage, detection capabilities, cost estimates, and proposed funding options. In light of new information, the PPSC is being provided with an update on how best to proceed collectively for the Peninsula.

DISCUSSION:

Pano AI's Wildfire Camera Detection System

Pano AI's Wildfire Camera Detection System employs a proprietary AI algorithm for smoke detection and involves the deployment of high-definition cameras on existing structures or stand-alone towers that continuously scans the landscape to spot, evaluate, and signal wildfire activity generally within a 10-mile radius. Pano AI provides subscription-based services for viewing 360-degree images captured every 60 seconds 24 hours a day, seven days a week, by self-rotating high-definition cameras. In summary, the subscription includes:

- Unlimited user-licenses for City personnel to the Pano 360 web interface
- 24/7 coverage by the Pano Intelligence Center's monitoring services
- 24/7 Pano software and hardware customer support
- Access to a designated Pano Client Executive
- Initial training and user onboarding for City personnel
- Quarterly new user training for City personnel

The cameras AI technology scans the horizon to detect, validate, and categorize wildfire events in real time and provides early warning of fire ignition to a command center. If smoke is detected, an automated alert is reviewed by command center representatives, where Pano AI analysts pinpoint the source of the smoke and determine the type of fire, such as a vegetation fire. Furthermore, a machine-learning component of the Pano AI system enables the system to become increasingly accurate at detecting minute differences in movement between smoke, haze, and fog in support of continuous, uninterrupted detection capabilities in all weather conditions.

To facilitate the monitoring of smoke detections, data from other sources such as satellites, 911 calls, weather sensors, and existing cameras to provide emergency personnel with a centralized platform for wildfire detection and response. Pano Rapid Detect also utilizes data from sources like [Geostationary Operational Environmental Satellites \(GOES\)](#) which are operated by NASA, as well as the California Highway Patrol (CHP), in order to provide a single, integrated platform for wildfire detection.

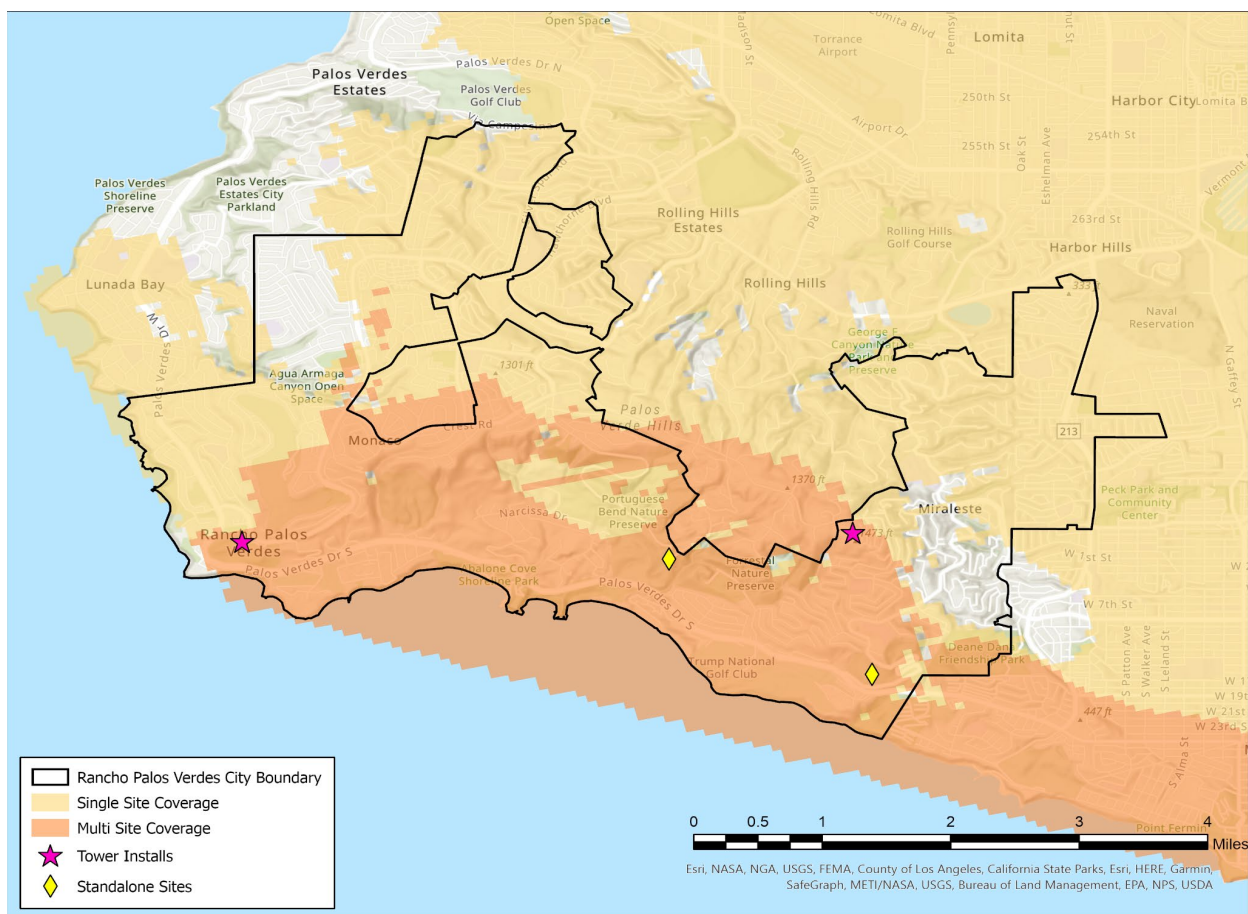
If a wildfire is detected and confirmed, notifications are sent to a pre-identified set of recipients, such as fire authorities, emergency responders, and city staff.

Proposed Project Coverage

As requested in the RFP and described in detail below, the proposals received provided two options that would provide the City of Rancho Palos Verdes (Option No. 1) and the larger Peninsula area (Option No. 2) with 24/7 detection and operational system. It is important to note that for both options, Pano AI would handle all aspects of permitting, installation, monitoring, operations, and repairs as part of a subscription service. If engaged in longer-term agreements, Pano's proposal includes a hardware refresh in year five and in year ten at no additional cost to ensure the latest camera technology. However, if ownership of the equipment is desired along with the subscription service, the cost per camera would be approximately \$50,000.

Option No. 1 - Rancho Palos Verdes Deployment:

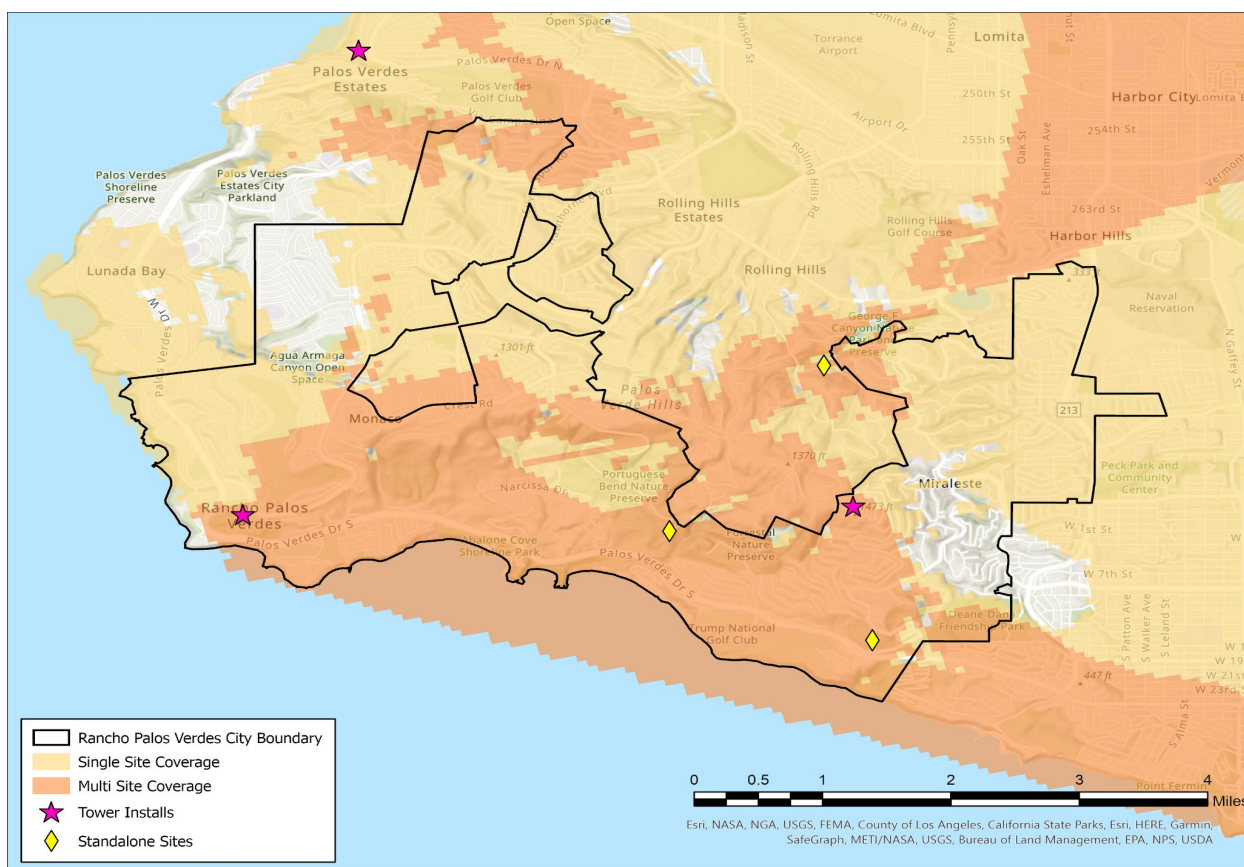
At a proposed cost of \$140,000 per year for the subscription based service (does not include owning the cameras or equipment), this option consists of the deployment of four Pano Stations across the City of Rancho Palos Verdes with two cameras being installed on existing structures and two on stand-alone towers at a height measuring approximately 15 feet. The map below depicts the optimal preliminary site locations identified by Pano AI based on information provided by the City of Rancho Palos Verdes. It should be noted that if the project moves forward with Pano's proposal, a Site Selection team will conduct a more detailed assessment to confirm the ability to install Pano Stations at these locations. In the event that one or more locations are unavailable, Pano will identify suitable alternative locations that will provide similar levels of coverage.



It is important to note that with the 10-mile range capabilities of the Pano AI camera, Option No. 1 appears to provide substantial coverage to most of the Peninsula cities, even when topography is taken into account. Moreover, adjustments to the some of the camera locations, including locating some of the cameras in neighboring cities but remaining under a service agreement with Rancho Palos Verdes, may expand coverage to those areas not shown to be covered by the current proposal. That said, although described below, Option No. 2 may not be necessary.

Option No. 2 - Full Peninsula Deployment

At a proposed cost of \$298,000 per year (an annual increase of \$158,000 from Option No. 1) for the subscription service (does not include owning the cameras or equipment), this deployment includes two Pano Stations in addition to the four Pano Stations described in Option No. 1 for a total of six Pano Station (three deployed on existing structures and three stand-alone Stations) that will cover the Peninsula. The map below depicts the full deployment of the six Pano Stations across the Peninsula.



Comparing the coverage map between Option Nos. 1 and 2, it appears that the only apparent difference is somewhat expanded coverage in Palos Verdes Estates in and around their Civic Center. In light of this and the cost differential, it is increasingly clear now that Option No. 1 is the most prudent and logical option for the Peninsula cities to consider pursuing. Recognizing that there is a Peninsula-wide benefit and possible cost savings if Option No. 1 is pursued by the four Peninsula cities, the discussion in the next section provides a recommended cost sharing option for the Peninsula cities to consider.

Potential Cost Sharing Option

Initially, the proposal assumed a full deployment of four camera stations requiring a minimum three-year agreement at a cost of \$140,000 per year for a total agreement cost of \$420,000. Furthermore, an additional, one-time, not to exceed cost of \$25,000 per stand-alone site for two sites, bringing the total initial cost of deployment to \$490,000. After further discussions, on July 19, Pano AI indicated that it is willing to modify its proposal to execute a one-year subscription for its wildfire detection services, with the option to renew for an additional three to four years if desired. Pano AI also indicated that it is willing to absorb the additional one-time \$50,000 construction cost associated with the two stand-alone sites. Based on this recent information, the total expenditure would be \$560,000 for a four-year agreement as provided below:

Option No.1 Deployment Expenditure Summary

Expenditures	FY 22-23	FY 23-24	FY 24-25	FY 25-26	TOTAL
Annual Subscription/ Maintenance Cost	\$140,000	\$140,000	\$140,000	\$140,000	\$560,000

To potentially fund this project, an application was submitted to Cal OES requesting Hazard Mitigation Grant Program (HMGP) funding for a total project cost of \$650,000 with a federal share (75%) amount of \$487,500 and required local match (25%) of \$162,250 for the installation of an early wildfire detection system for the Peninsula-wide deployment (this is a reimbursable grant).

Importantly, letters of support for this HMGP application have been received from a variety of project stakeholders, including Assemblymember Muratsuchi, and Senator Allen, as well as the cities of Palos Verdes Estates, Rolling Hills Estates and Rolling Hills. These support letters have been submitted to the State's Hazard Mitigation Officer/CalOES.

If the HMGP grant is awarded, it would cover the total cost of the proposed project less the matching funds. However, it is important to note that no groundbreaking or construction can occur prior to FEMA's funding commitment in order to remain within the parameters of the HMGP. However, tasks associated with a submitted hazard mitigation project's planning and design process, such as engineering, environmental studies, and other "soft" costs associated with the construction of a mitigation project, may begin prior to the awarding of funds by FEMA. It is anticipated that FEMA awards will be issued in mid-2023. At this time, it is recommended delaying the roll out of the proposed camera system until receiving notification whether the HMGP is awarded to avoid any potential disqualification. It is worth reiterating that the HMGP is a reimbursable grant program, so the matching fund will be based on 25% of the grant funds used for the project and based on the anticipated total project cost for four years of subscription (\$560,000), the matching fund will likely be less than \$162,000.

It is worth noting that prior to proceeding with a professional services agreement between the City of Rancho Palos Verdes and Pano AI, at its July 19, 2022 meeting, the Rancho Palos Verdes City Council reviewed the proposed cost and key features of Pano AI's Wildfire Detection Camera System. At this meeting, City Council affirmed that the implementation of Option No. 1 is anticipated to benefit the other three Peninsula cities. Recognizing that wildfires don't follow boundary lines, the Rancho Palos Verdes City Council expressed a desire for the cities of Palos Verdes Estates, Rolling Hills, and Rolling Hills Estates to consider contributing towards the implementation of Option No. 1 through cost-sharing rather than pursuing the more costly, and somewhat redundant, Option No. 2.

Cost sharing is fundamental to collaborative efforts and is frequently the primary impetus for their formation. Existing cross-jurisdictional partnerships between Peninsula Cities are evidence of this. The Memorandum of Understanding (MOU) between the cities of Palos Verdes Estates, Rancho Palos Verdes, Rolling Hills, and Rolling Hills Estates regarding the placement and maintenance of automated license plate recognition (ALPR) cameras around the Palos Verdes Peninsula is one of the most significant collaborations to date.

The Peninsula-wide ALPR program may be considered comparable to the proposed Wildfire Camera Detection Services and can set the framework for another cost-sharing project. Notably, the cost allocation formula for the deployment of ALPR cameras for the Peninsula consists of demographic information for each city, specifically population, dwelling units, and area in square miles as shown in the table below:

	Population	Pop %	Dwelling Units	DU %	Area (sq. mi.)	Area %
PVE	13,730	20.7%	5,298	20.9%	4.77	19.2%
RPV	42,564	64.1%	16,233	64.0%	13.48	54.3%
RH	1,904	2.9%	719	2.8%	2.99	12.0%
RHE	8,223	12.4%	3,101	12.2%	3.60	14.5%
Total	66,421	100.0%	25,351	100.0%	24.84	100.0%

At the time of the formation of the Peninsula-wide ALPR program, the City Managers of the four Peninsula cities used the information in the above table to determine an equitable cost-sharing formula. Ultimately, it was agreed by the Peninsula City Councils to use the following funding formula based on the average percentage of dwelling units and population of each Peninsula city:

COST ALLOCATION FORMULA ("FORMULA")	
Member	Percentage
City of Palos Verdes Estates	20%
City of Rancho Palos Verdes	60%
City of Rolling Hills	7%
City of Rolling Hills Estates	13%

Due to the similarities between these two programs (ALPR and Wildfire Detection Cameras), it is recommended the Peninsula cities consider cost-sharing the total cost of the required \$162,500* local match requirement over the four-year duration of the project utilizing a methodology similar to the ALPR formula as depicted in the table below. It is recognized that it will be necessary for each City Council to consider the benefits of this potential partnership and agree to a sustainable funding methodology.

CITY	COST SHARE %	LOCAL MATCH	ANNUAL COSTS	TOTAL PROJECT COST (4 YEARS)
PVE	20%	\$162,500	\$8,125	\$32,500
RPV	60%	\$162,500	\$24,375	\$97,500
RH	7%	\$162,500	\$2,844	\$11,375
RHE	13%	\$162,500	\$5,281	\$21,125

*(Table reflects costs offset by HMGP grant funding)**

It is critical to note that the grant submission to Cal OES has the possibility of not being funded through the State's program, which remains an unknown until approximately mid-2023. If this is the case, it will be necessary to return to the Committee with funding alternatives, which may include pursuing other grant opportunities or with the Peninsula cities absorbing the full cost of \$560,000** over four fiscal years at an annual subscription of \$140,000 for four cameras based on the ALPR formula as depicted in the table below.

CITY	COST SHARE %	ANNUAL PROJECT COST	ANNUAL CITY COST	TOTAL PROJECT COSTS (4 YEARS)
PVE	20%	\$140,000	\$28,000	\$112,000
RPV	60%	\$140,000	\$84,000	\$336,000
RH	7%	\$140,000	\$9,800	\$39,200
RHE	13%	\$140,000	\$18,200	\$72,800
TOTAL		\$140,000	\$140,000	\$560,000

*(Table reflects full project costs without grant funding)***

Based on the PPSC's input on these questions, further information will be presented at a future meeting when more information is available on the status of the HMGP grant application.