



CITY CLERKS: PLEASE POST

AGENDA

**PALOS VERDES PENINSULA
PUBLIC SAFETY COMMITTEE**

**THURSDAY, FEBRUARY 10, 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, February 10, 2022, at 7:30 a.m., will be conducted via teleconference using the Zoom platform. Please see separate cover for public participation options.

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 NOVEMBER 18, 2021

VI. COMMITTEE REORGANIZATION

VII. OLD BUSINESS

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

- B. UPDATE ON THE PENINSULA EMERGENCY PREPAREDNESS TASKFORCE (RHE VERBAL REPORT)
- C. STATUS UPDATE ON REQUEST FOR PROPOSAL (RFP) FOR PENINSULA WIDE MASS EVACUATION PLAN (RPV)
- D. STATUS UPDATE ON WILDFIRE CAMERAS (RPV)

VIII. NEW BUSINESS

- A. COVID-19 STATUS UPDATE

IX. OTHER MATTERS FROM REGIONAL EMERGENCY PREPAREDNESS COMMITTEE MEMBERS

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

X. ADJOURNMENT IN MEMORY OF FALLEN FIREFIGHTER JONTAHAN FLAGLER

Next regular meeting Thursday, May 12, 2022 at 7:30 a.m.



**PALOS VERDES PENINSULA
PUBLIC SAFETY COMMITTEE
MINUTES TO MEETING ON THURSDAY, NOVEMBER 18, 2021**

I. CALL TO ORDER

A meeting of the Palos Verdes Peninsula Regional Emergency Preparedness Committee was called to order by Chair Dieringer at 7:30 a.m. via Zoom.

Mayor Dieringer presiding

II. ROLL CALL

PRESENT: **Rancho Palos Verdes**
David Bradley, Mayor
Rolling Hills Estates
Steve Zuckerman, Mayor
Velveth Schmitz, Councilmember
Rolling Hills
Bea Dieringer, Mayor
Patrick Wilson, Councilmember
Palos Verdes Estates
Dawn Murdock, Councilmember
David McGowan, Councilmember

ABSENT: Eric Alegria, Councilmember, Rancho Palos Verdes

ALSO PRESENT: **Rancho Palos Verdes**
Ara Mhramian, City Manager
Jesse Villalpando, Emergency Services Coordinator
Mckenzie Bright, Administrative Analyst
Larry Maizlish, Emergency Preparedness Committee Chair
Rolling Hills Estates
Greg Grammer, City Manager
Alexa Davis, Assistant City Manager
Jessica Slawson, Administrative Analyst
Rolling Hills
Elaine Jeng, City Manager / Acting City Clerk
Ashford Ball, Senior Management Analyst

Palos Verdes Estates

Tony Best, Police Chief

Marcelle Herrera, Community Relations Officer

Los Angeles County Sheriff's Department

Captain James Powers, Lomita Sheriff's Station

Palos Verdes Peninsula Unified School District (PVPUSD)

Matthew Brach, Board Member

Los Angeles County Fire Department

Acting Chief Bennett, Los Angeles County Fire Department

III. PLEDGE OF ALLEGIANCE

Pledge of Allegiance by Mayor Bea Dieringer.

IV. PUBLIC COMMENT

PVPUSD Board Member Matthew Brach - Concern regarding shortage of crossing guards. They would prefer trained guards as the safety of children is important.

Mickey Rodich – Lives in RPV and believes there is a lack of city organized emergency evacuation plans in case of disasters. City correspondence only discusses what residents should do for themselves, not what the city will do. The city would use phones, tv's and bullhorns to instruct residents. Mentions fire in Portuguese Bend Reserve 10 years ago that could have been a disaster. Ladera Linda neighborhood is concerned and glad that the four cities are working together.

V. APPROVAL OF MINUTES

A. MINUTES OF AUGUST 12, 2021

Councilmember Murdock noted that Police Chief Tony Best was no longer Acting Chief and the minutes should reflect that change.

Motion by Councilmember Murdock, seconded by Councilmember Wilson to approve the minutes as amended.

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

NOES: Members: None

ABSTAIN: Members: None

VI. OLD BUSINESS

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

Rolling Hills Estates Administrative Analyst Jessica Slawson reported that the Peninsula Emergency Preparedness Taskforce was held on October 5, 2021. The group provided updates for each respective city and partner agencies. Their main focus was on the Prepared Peninsula Expo which took place on October 24, 2021 and was put together in partnership with the PV Farmers Market and PVPUSD. The event was well received by the public and staff received great feedback on the location. There was great participation from local Public Safety entities.

The Peninsula Cities and School District also participated in the Great California Shakeout promoting Earthquake awareness. The PV Library District, PV Transit and utility companies continue to provide full service to the communities and hope to attend city events to support emergency preparedness events in the New Year.

VII. NEW BUSINESS

A. FINAL DRAFT OF THE PENINSULA WHITE PAPER ON UTILITY COMPANIES' RESPONSE TO A DISASTER (RPV)

RPV Senior Administrative Analyst Jesse Villalpando reported that the white paper was developed as a result of the four cities' efforts to ensure a constant state of readiness and provide uninterrupted services to their respective communities before and after an emergency incident. The City of Rancho Palos Verdes led the development at the request of the Public Safety Committee (PSC).

This is a complex and dynamic subject with a cascading effect as time goes on. The White paper takes a top-down approach by defining how critical infrastructure functions in a general and specific sense, highlights historical interdependencies and potential consequences of severe disruption.

Six critical infrastructure areas outlined are: Energy Sector, Electric Power or Oil, Information Systems, Telecommunication Systems, Water Supply System, and Wastewater Treatment Systems. During the August 12th meeting the PSC was presented with an updated draft. Following presentation and discussion, the Committee directed addition of PV Reservoir and wastewater items related to the subject systems. It has been updated to reflect community comments and formatting changes.

This is a final draft for review and discussion. The intent is to serve as a regional working document that can be updated or modified with coordination and collaboration of the four cities.

Councilmember Schmitz asked if this paper will only be approved by the committee or will it go to each council for approval and adoption.

Senior Administrative Analyst Jesse Villalpando responded it will go to each council separately.

Chair Dieringer referenced pages 37 and 39 regarding Item 7, which refers to additional strategies regarding unified messaging. Considering an emergency situation what would fall only under one city's purview?

Senior Administrative Analyst Jesse Villalpando responded that it applied to an incident specific to a particular city and cited an example to illustrate the point.

Chair Dieringer thought that this white paper applied to incidents affecting the Peninsula as a whole and was confused by the language that referenced a discrete instance.

Senior Administrative Analyst Jesse Villalpando responded that the respective city where an incident occurs would take the lead in any messaging.

Chair Dieringer said that the language might require further clarification to avoid confusion.

Motion by Councilmember Schmitz, seconded by Councilmember Wilson to approve the final version.

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

NOES: Members: None

ABSTAIN: Members: None

B. UPDATE ON PENINSULA WIDE MASS EVACUATION PLANS (RPV AND RH)

Rolling Hills City Manager Elaine Jeng presented and shared her screen to emphasize strategies including studying Peninsula evacuation routes, understanding utility vulnerabilities, and implementing readiness measures and communication protocols among the peninsula cities.

At the prior meeting, the group received a presentation on evacuation maps and an RFP from a consultant that would help the group look at what evacuation zones might look like.

The RFP is still in progress. But the four cities would like to add an evacuation time study component which looks at zones (yet to be established) and then extrapolate time(s) to evacuate from specific zones.

In February, staff will present further progress on the RFP.

Councilmember Schmitz asked if it was a joint RFP between the four cities or would we partner with the county sheriff and fire department.

City Manager Jeng responded that the intention was that the four cities would do the joint RFP and then it would be shared with the first responders, who would be utilized as subject matter experts to review the RFP and provide input. We could look at a shared effort.

Councilmember Schmitz was thinking about this from a cost sharing perspective since the agencies provide services.

Captain Bennett responded that they have been involved before as subject matter experts after a draft is developed. Typically they do not add any financial component aside from their obligation to review as part of their service contracts.

Captain Powers concurred.

Chair Dieringer asked for further clarification related to cost sharing due to the severity of the hazards that potentially affect the peninsula.

Captain Powers responded that they have policies and procedures in place already. There is a general understanding of how incident command works on an as needed basis. Protocols are already in place. He recognized this item as being a proactive action taken by the cities, to institute an information sharing network with constituents and the community.

Chair Dieringer asked if there were any examples of situations where their agencies contributed financially.

Captain Powers responded nothing financially.

Councilmember Murdock asked if there was a possibility of grants from other entities or the county or pools of money that can be accessed.

City Manager Jeng responded that the four cities would look at the costs first related to scope and then pursue funding for other areas. She acknowledged that there are unincorporated County areas on the Peninsula and the cities could pursue engaging the county for some financial participation.

Senior Administrative Analyst Jesse Villalpando responded that the intent of the RFP now is to get a cost estimate. There is grant funding available from the CalOES Hazard Mitigation program. This proposal would qualify. RPV is familiar with the grant process.

Councilmember Murdock asked if there is a timeline on when these grants close and would we make these deadlines.

Senior Administrative Analyst Jesse Villalpando responded there is a timeline – but that there are continuous opportunities for funding.

Public Comment from Ruth Braswell – she was extremely supportive of this item. Many consultants who can respond do not have traffic engineers on their staff which would require a third party to handle. Recommends the time to evacuate study be added to the RFP so that we can obtain costs associated with the overall mass evacuation plan.

Chair Dieringer brought the issue of conducting an emergency evacuation time study to her council. She said that she had spoken with another city representative that had done a time study which was very involved process and cost them about \$35,000.00. She asked if staff required direction.

City Manager Jeng responded no, that this was just an update. Regarding the public comment, they can accommodate that.

C. UPDATE ON WILDFIRE CAMERAS (RPV)

Senior Administrative Analyst Jesse Villalpando provided a brief review and background on concerns related to potential wildfire issues including those addressed on August 17, 2021 when the RPV City Council directed staff to investigate the feasibility of implementing a Peninsula-wide wildfire monitoring camera system, among other things. The RPV Emergency Preparedness Committee (EPC) identified three critical decisions that must be made prior to proceeding with any purchase/installation/monitoring of wildfire cameras including: location, type and implementation procedure.

On November 2, 2021, the RPV City Council expressed interest in a system that utilizes Artificial Intelligence (AI) technology to actively monitor for signs of smoke and directed staff to coordinate with the EPC to identify and finalize camera installation locations for consideration. Analyst Villalpando provided the identified criteria for locations including, those with a wide and open view of RPV canyons/open space, especially those not easily visible from homes; views where fires can grow and spread quickly; areas of previous fires and; existing infrastructure on which cameras can be mounted. He included a map and overview of proposed areas including upper Point Vicente, Portuguese Bend

Reserve, Forrester reserve areas, San Ramon Reserve and the eastside of this reserve, Rattlesnake Trail and its adjacent canyon, and the open space area visible from Vistapoint Scenic Outlook.

There are two types of camera systems: Surveillance which requires a human watching a video stream 24/7/365 which can be unreliable and fire detection via innovative AI technology with confirmation by humans who then notify emergency crews when fires are spotted through cameras.

The proposed wildfire camera detection system is envisioned to provide public safety agencies, allied organizations, the Peninsula Cities, and the general public with timely and accurate situational awareness regarding fires and other critical incidents in the greater Palos Verdes Peninsula.

Staff identified Pano AI as a preferred vendor. No formal agreement or commitment to this program is sought at this time; rather staff seeks to determine interest in a regional cooperative wildfire monitoring system among the four cities. Staff has identified a potential CalOES grant funding source. Next steps could include coordination with the Peninsula City Managers to issue a Request for Proposal (RFP)

RPV Emergency Preparedness Committee Chair Larry Maizlish made a brief presentation covering the project goals and an overview of four different systems/companies that were assessed. He identified that Pano AI and IQ-Firewatch were the preferred vendors. He also covered the potential camera benefits to city residents and acknowledged the differing benefit levels for each city including home property insurance discounts and renewability.

Councilmember Murdock asked for clarification on identified sites and whether the vendors would identify potential locations for camera placement.

Chair Maizlish responded that yes, the companies are the experts and would provide such input.

Councilmember Murdock asked about these proposals and whether they would require each vendor to disclose their fire detection success rates, their missed fires and their false fire alerts during all environmental situations.

Chair Maizlish responded that it was a targeted RFP and requires a high level of fire detection success necessitating some degree of human verification in any system chosen.

Councilmember Wilson stated that Rolling Hills and RPV would benefit most from this but had there been any discussion of the cost allocation for the four cities and county?

Chair Maizlish responded that he was not a city staffer and could not answer that question.

Senior Administrative Analyst Jesse Villalpando said that it was too early to consider cost allocations.

RPV City Manager Ara Mihranian added that the cost was determinative upon scope of any project. All cities have open space and canyons which is why they are bringing this proposal forward.

Member Wilson mentioned that city budgets would have to be considered as Rolling Hills has a miniscule budget.

City Manager Mihranian commented that they would do the work, examine cost ratios and explore grant opportunities.

Councilmember McGowan asked what would be required in order to look at the number of cameras for the entire peninsula. He expressed concerns about canyons that might not be included and mentioned boundary overlap.

Chair Maizlish mentioned that none of the detection vendors have recommended that their systems would be effective for monitoring other areas of the peninsula. They were focused on wide/open spaces. Downsizing to smaller canyons might not be feasible as the camera fire detection technology is not as precise in smaller, denser spaces, which could lead to false alerts.

Senior Administrative Analyst Jesse Villalpando mentioned that if cameras are mounted in the right strategic locations, they are designed to pick up wildfire smoke rise. Additional cameras could be added later if so desired.

Rolling Hills Estates City Manager Greg Grammer mentioned that the ALPR camera system is Peninsula wide and reiterated that the use of grants is necessary to fund any potential project.

Palos Verdes Estates Community Relations Emergency Services Coordinator Marcelle Herrera commented that there might be consideration regarding the placement of a fire detection camera at the PV Golf Club looking down over Malaga Hills. She was also curious about privacy, maintenance costs and staff requirements. Could this be a tool for showing evacuation routes?

Chair Maizlish mentioned that Malaga Canyon was reviewed but was not considered a successful detection area. Both preferred vendors IQ and Pano address privacy issues by blurring out residential areas, and use optical sensors to detect smoke. Pano includes maintenance in their contract. IQ has a separate maintenance contract

Public Comment was received from Steven Murdoch of Pano AI who provided a brief overview on their AI system and how it can be deployed across California. They try to balance cost versus fire risk. They ensure privacy while focusing on smoke detection.

Chair Dieringer asked about risks involved in using these cameras in small areas and whether the system could be scaled down to provide effective solutions for those areas.

Mr. Murdoch responded that they had utilized their cameras in some smaller areas, using an example from Redwood City area.

Chair Dieringer noted that our areas are smaller than the example.

Mr. Murdoch commented that fires closer to a detection station have a better chance of success.

Chair Dieringer asked about CA Department of Insurance regulations regarding home hardening.

Chair Maizlish noted that this issue is outside our control with the CDI. They restarted a new regulation process and had a last round of public hearings before version 5 drafts were released. Insurance companies are saying it is too much. Fire agencies are saying it is achievable. Whether they offer a rate reduction from today's rates due to home hardening is hard to predict. We will need to see how much teeth the new regulations may have when they are eventually released.

Mr. Murdoch mentioned that they are working directly with insurance providers to show value.

Chair Dieringer asked if the committee wanted to provide direction to staff.

Councilmember Bradley mentioned that RPV is moving forward with this but wanted to find out if the other cities wanted to be included and allow for the RFP to be expanded.

Councilmember McGowan said that he is interested in the strategy for PVE. He fully supports the concept and would like to learn more about it and potential grant funding.

City Manager Mihranian mentioned that a motion could be to give staff direction to pursue the RFP and return to the committee with details. Many of the questions would be addressed through an RFP process.

Chair Dieringer mentioned that she would need to bring this issue to her council if there is to be any monetary involvement. She asked if everyone was agreeable with gathering more information about this proposal and requested it be agendaized for the next meeting.

VIII. OTHER MATTERS FROM REGIONAL EMERGENCY PREPAREDNESS COMMITTEE MEMBERS

Councilmember McGowan asked if the committee would reconvene sooner on the previous topic since this group only meets quarterly and this issue is time sensitive.

Chair Dieringer noted that if information was available sooner, it could be sent to each council separately which would allow for members to return with feedback from their full body.

IX. ADJOURNMENT

There being no further business before the Palos Verdes Peninsula Regional Emergency Preparedness Committee, Chair Dieringer adjourned the meeting at 9:10 a.m. The next meeting is scheduled to be held on Thursday, February 10, 2022, beginning at 7:30 a.m.

Respectfully submitted,

Christian Horvath
City Clerk
City of Rolling Hills

Approved,

Bea Dieringer
Chair and Mayor,
City of Rolling Hills



PENINSULA PUBLIC SAFETY COMMITTEE AGENDA REPORT

MEETING DATE: 02/10/2022
AGENDA HEADING: Old Business

AGENDA TITLE:

Update on Peninsula Wide Mass Evacuation Plans (RPV)

RECOMMENDED COMMITTEE ACTION:

- (1) Review and provide feedback on the information presented in this report pertaining to the drafted RFP for the establishment of Peninsula-wide evacuation plans as well as the proposed rollout of the Zonehaven evacuation management platform.
- (2) Defer solicitation of proposals until additional information regarding the County's implementation of the Zonehaven evacuation platform is gathered, allowing for necessary revisions to the drafted RFP to avoid duplication of efforts.

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

ATTACHED SUPPORTING DOCUMENTS:

- A. August 12, 2021, PPSC Staff Report
 - B. November 18, 2021, PPSC Staff Report
 - C. [RFP for Peninsula Wide Mass Evacuation Plans \(DRAFT\)](#)
 - D. [The Almanac News Article - September 18, 2020](#)
 - E. LA County Project Kickoff Zonehaven Presentation
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BACKGROUND:

At its August 12, 2021, meeting, the Peninsula Public Safety Committee (PPSC) supported staff's recommendation to prepare a Request for Proposal (RFP) to solicit proposals from qualified consulting firms to research, facilitate and design an emergency evacuation plan to ensure the safe evacuation of all or part of the Palos Verdes Peninsula community in the event of a major emergency or disaster. During this meeting, the PPSC held a robust discussion centered on identifying the various components of an effective Mass Evacuation Plan as highlighted in the August 12, 2021, Staff report (Attachment A).

The Peninsula Public Safety Committee (PPSC) received an update on the Strategy for Establishing Peninsula-Wide Mass Evacuation Plans at its November 18, 2022, meeting and further discussed the inclusion of an evacuation time estimate study into the Peninsula-Wide Mass Evacuation Planning process. An evacuation time estimate study, as further detailed in the November 18, 2021, Staff Report (Attachment B), aims to improve understanding of evacuation times, identify concerns about impaired access, and inform the City's emergency planning and protective action decision-making processes. Following the Committee's discussion, the Committee moved to approve staff's

recommendation to include an evacuation time estimation study as part of the Peninsula Wide Mass Evacuation "playbook" plan.

DISCUSSION

Request For Proposal (RFP) - Peninsula-Wide Mass Evacuation Plans

Following the August 12th and November 18th, 2021, meetings, the City of Rancho Palos Verdes staff, in collaboration with members of its respective Emergency Preparedness Committee, drafted a Request for Proposal (RFP) seeking to mitigate the costs and losses associated with devastating wildfires by contracting with a qualified vendor to conduct, research, facilitate, and design mass emergency evacuation plans for the Palos Verdes Peninsula Community.

Proposed Scope of Work:

The following section summarizes the proposed scope of work's five deliverables and subcomponent key elements of which they are comprised of, as described in the most recent draft of the Request for Proposal (RFP) (Attachment C).

DELIVERABLE #1: *Establish a tiered evacuation plan for the Palos Verdes Peninsula, working with City Staff and Public Safety Agencies, that provides a preplanned, mutually agreed upon, coordinated response plan.*

Summary of Key Elements:

- Establish a clear communication protocol amongst the four Peninsula Cities and relevant Public Safety Agencies.
- Perform an Evacuation Time Estimate Study to identify evacuation routes that are capacity limited due to geography, limited ingress/egress, time of day limitations (e.g., school schedules, residential parking), residential density, etc.
- Develop contingent evacuation approaches by overlaying fire progression models on traffic simulation programs and optimizing evacuation flow for different fire conditions.
- Establishment of traffic control plans for each major Peninsula intersection this includes the development of a Logistics and Responsible Agency Matrix listing what is needed and who is responsible for implementing it at each location.
- Establishment of Evacuation Zones based on local topography and street traffic capacity to be used by emergency responders to improve coordination and span of control during a mass evacuation event.
- Establishment "Safe Refuge Areas" (temporary staging areas) within or outside the evacuation zones that are designed to safely hold people during a mandatory evacuation and to be used to divert traffic away from the road in order to expedite the evacuation of residents.

- Creation of an evacuation route maps to include major arterial roads and secondary smaller side roads that may be used in a large-scale incident, as well as identified evacuation zones, safe refuge areas, and fire-resistant public buildings.
- Provide a digital materials "toolkit" that can be used to ensure community outreach and education regarding designated Evacuation Zones, Safe Refuges, and Fire Hardened Public Buildings.

DELIVERABLE #2: *Develop a process for organized reentry following a mass evacuation scenario to allow for the safe and timely return of community members to their homes.*

Summary of Key Elements:

- Establish protocols with first responder agencies to ensure City staff members participate in repopulation planning efforts from the beginning to ensure the plans adequately address the unique needs and conditions of the Palos Verdes Peninsula Community.
- Establishment of official passes clearly identifying who is permitted to enter/exit the city during a mandatory evacuation order.

DELIVERABLE #3: *Conduct public education about established evacuation plans, including when to evacuate, how notifications will occur, and what to do if evacuation is not possible.*

Summary of Key Elements:

- Incorporation of a community outreach strategy that includes public education activities and opportunities for public input.
- Collaboration with private sector partners to assist in educating residents about established evacuation plans, the Peninsula Cities roles in an emergency and their personal preparedness responsibilities.
- Installation of street signs clearly indicating zone locations and directions to the nearest designated Safe Refuge Areas.

DELIVERABLE #4: *Create a Comprehensive Disaster Survival Guide that provides clear instructions for residents prior to, during, and after a Mass Evacuation and Repopulation.*

Summary of Key Elements:

- Examining successful community-based disaster survival guides and adapting existing practices to the Peninsula's unique needs.
- Creation of a postcard-sized (glovebox-sized) version of the essential elements of the Disaster Survival Guide for each resident.
- The content to be included in the Disaster Survival Guide shall be easily understandable and relatable to residents who are not currently involved in or have prior experience with emergency planning efforts.

DELIVERABLE #5: *Create of a comprehensive Plan for multi-mode Emergency communication that provides reliable, up-to-date, information for residents prior to, during, and after the emergency.*

Summary of Key Elements:

- Identify and implement a robust primary and secondary multi-channel emergency communication systems.
- Investigate the cost and feasibility of AM radio broadcast capabilities and/or some type of siren warning system for public notification.
- Establishment of well-defined procedures for the deployment of Public Information Stations (large wooden sandwich boards) or (Digital Signage boards) to display information in the event that other modes of communication are unavailable.
- Creation of a centralized listing of each city's digital channels, including city websites, Nixle, Alert South Bay, MyRPV, Facebook, Twitter, and Nextdoor.
- Drafting of guidance and instructions on how to coordinate the use of reverse 911 and wireless emergency alert (WEA) notification systems.
- Consideration of notification methods for the non-English speaking population, as well as a strategy for emergency communications translation into appropriate languages as needed.

Los Angeles County Zonehaven Evacuation Project

Evacuation zones can be generally defined as pre-designated geographical areas that emergency responders use to enhance coordination and span of control during a disaster. In the event of a large fire or other disaster, officials may use established Evacuation Zones to quickly determine the timing, order, and routes of evacuation for specific areas, making evacuations more effective and avoiding traffic bottlenecks. By evacuating the most at-risk Zones first, emergency personnel are able to manage the traffic flow and more easily prevent the traffic jams that occur when an entire town or city tries to evacuate all at the same time. It also provides a common reference system for all first responders and the community.

Based on recommendations from the 2018 Woolsey Fire After Action Report as well as growing use of technology to support alert and warning, emergency public information, and cross jurisdictional coordination during evacuations, the County of Los Angeles Office of Emergency Management is seeking local jurisdictional collaboration in the development of evacuation zones for the Very High Fire Hazard Severity Zones across the county. The County has contracted with the vendor [Zonehaven](#) to support GIS development of draft evacuation zones in those hazard areas, to be finalized based on local input and acceptance. Additionally, the County has contracted with Zonehaven to provide local jurisdictions access to [Zonehaven's online evacuation management platform](#) to assist local public safety personnel if they choose to use it as a tool for evacuation pre-planning and during real world incidents. Zonehaven's evacuation management platform is a cloud-based application that leverages critical data and

modeling capabilities to provide simple, actionable insights to emergency responders and the general public in the event of a disaster.

City staff attended a demonstration hosted by the Los Angeles County Office of Emergency Management (OEM) on January 26, 2022, to receive an overview of the proposed project and its implementation across Los Angeles County (Attachment D). Notable information gleaned from this meeting is that the project's overarching goal is to develop a centralized online interactive map that divides a local city into public safety evacuation zones based on geography, threat direction, jurisdictional boundaries, population density, and other factors which will be published on Zonehaven's public-facing "[AWARE](#)" website.

Zonehaven works by breaking an entire city into "Zones" that has a corresponding number on the map. Prior to and during an emergency event, residents will have access to information on Zonehaven's "[AWARE](#)" website to determine which zone they are in and whether or not they should evacuate. A resident need only to know their Zone identification number to know if they need to evacuate and when it is safe to repopulate. Public Safety Officials will have access to Zonehaven's restricted "[EVAC](#)" platform during an emergency, allowing them to dynamically adjust the community-specific evacuation zone number being evacuated based on the status of the ongoing incident.

Throughout the duration of an emergency, pertinent data can also be fed into the online public facing "AWARE" Platform, such as current evacuation status, live incident updates, and relevant resources such as shelter options. In the event of an evacuation, models can be generated to enable fire and law enforcement to look ahead at what may come. Rapid simulations provide hourly models, and related recommendations for evacuation zone sequencing. These simulations can be used for training purposes as well.

Through the use of its proprietary algorithms that identify critical intersections and choke points, the Zonehaven Evacuation Management Platform is capable of generating evacuation zones defined to alleviate gridlock and facilitate fire and law enforcement evacuations. The Zonehaven platform additionally, incorporates publicly available data from prominent public safety agencies and further necessitates data input from local representatives on a variety of local conditions, including geographical features, vegetation type and density, weather conditions, structure/address count, population estimates, traffic loads and road type, and access to ingress and egress points.

During the 2020 wildfire season, Zonehaven was successfully deployed and used during the CZU Lightning Complex Fire, the Glass Fire and the Red Salmon Fire. To date, the following counties have contracted with Zonehaven: [Alameda](#), [San Mateo](#), [Sonoma](#), [Santa Clara](#), [Nevada](#) and [Santa Cruz](#), among others. The public safety officials from these counties who have used Zonehaven during actual evacuation situations all speak highly of the product and the continual support from Zonehaven personnel during the emergency. (Attachment D)

Overview of LA County's OEM Zonehaven Project Rollout:

As summarized below, the current project implementation plan includes an onboarding stage, as well as a data entry, drills and training and a community outreach stage which will be coordinated by the Los Angeles County Office of Emergency Management (OEM).

Onboarding Stage:

- ⇒ Formation of Multi-agency Teams: Extensive administrative planning and preparation is required to initiate the Zonehaven onboarding process, which begins with the formation of multi-agency teams (MATs) across Los Angeles County. Established MATs should ideally include representatives from local law enforcement, Los Angeles County Fire, Los Angeles County OEM, and city management staff.
- ⇒ Approval of Zones by Agencies: To maximize the likelihood of success during an evacuation, local cities, in collaboration with their respective multi-agency teams (MATs) and other relevant stakeholders, will review, revise, and approve proposed Evacuation Zone boundaries within their jurisdictions, as well as approve the final configuration of the Intelligent zones in the Evacuation Management Platform.

Data Entry Stage:

- ⇒ The next step in the onboarding process is to enter local relevant data for a variety of data sets that will be used on the public-facing Zonehaven website. The Zonehaven team will work directly with local agencies to gather critical data and information, such as local descriptions of each evacuation zone, cardinal directions for each zone boundary, and local jurisdictional responsibilities for each zone, among other things.

Drills and Training Stage:

- ⇒ Following the data entry by local representatives, the Zonehaven team will train local city staff on how to use the Zonehaven evacuation management system to change the status of an evacuation zone. The drills and trainings process further entails conducting multi-agency training scenarios and evacuation drills, as well as implementing test alerts within and across jurisdictions as well as multiple training webinars as required.

Community Outreach Stage:

- ⇒ Following training on how to use the platform, the next step is to conduct a comprehensive community outreach and engagement campaign to educate residents on how to locate and identify their zones, as well as how to use the public facing website prior to and during an emergency. Community outreach will occur in stages, beginning with an internal launch, progressing to a soft/hard launch phase as necessary, and concluding with a a Continued Engagement phase to ensure ongoing community engagement.

For additional information about Zonehaven, please see the attached January 26th, LA County OEM demonstration ZoneHaven Powerpoint Presentation Slides and a recording of the presentation (which can be accessed by clicking [here](#)) (Passcode: VW9n\$JP9).

Comparison with the RFP for Peninsula Wide Mass Evacuation Plans

Per the committee’s previous direction, the Peninsula Cities are scheduled to move forward with the drafting and publishing of a Request for Proposal in support for the development of Peninsula-Wide Mass Evacuation Plans in early 2022. While Zonehaven provides a tool to quickly react during an incident, a common understanding of evacuation protocol, identification of ingress & egress routes and Identification of Safe Refuge Areas among other items implementation of this program represents only a portion of the identified key components of an effective Mass Evacuation Plan as highlighted in the latest draft of the RFP in support of the development of comprehensive mass evacuation plan “Play Book” tailored to the unique needs of the Palos Verdes Peninsula Community.

It is important to note that additional information is required to determine the exact nature of relationship between the development of Peninsula-wide mass evacuation plans and the Evacuation Management Platform's separation in scope of work. For the Committees consideration today Staff has compared the identified “deliverables” and “key elements” listed in the drafted RFP with staffs current understanding of the known conditions of the Los Angeles County’s Zonehaven project roll out and summarized the differences in the following “Comparison Table.

COMPARISON TABLE:		
DELIVERABLE #1: Establish a tiered evacuation plan for the Palos Verdes Peninsula, working with City Staff and Public Safety Agencies, that provides a preplanned, mutually agreed upon, coordinated response plan.		
Key Elements	Peninsula-Wide Mass Evacuation Plans	LA County's Zonehaven Project
Establish a clear communication protocol.	YES	NO
Perform an Evacuation Time Estimate Study.	YES	NO
Develop contingent evacuation approaches by overlaying fire progression models on traffic simulation programs and optimizing evacuation flow for different fire conditions.	YES	YES
Establishment of traffic control plans for each major Peninsula intersection.	YES	NO
Establishment of Evacuation Zones based on local topography and street traffic capacity.	YES	YES
Establishment “Safe Refuge Areas” (temporary staging areas) within or outside the evacuation zones.	YES	YES
Creation of an evacuation route maps to include identified evacuation zones, safe refuge areas, and fire-resistant public buildings.	YES	YES

Provide a digital materials "toolkit" that can be used to ensure community outreach and education regarding designated Evacuation Zones, Safe Refuges, and Fire Hardened Public Buildings.	YES	YES
--	-----	-----

DELIVERABLE #2: *Develop a process for organized reentry following a mass evacuation scenario to allow for the safe and timely return of community members to their homes.*

Key Elements	Peninsula-Wide Mass Evacuation Plans	LA County's Zonehaven Project
Establish protocols with first responder agencies to ensure City staff members participate in repopulation planning efforts from the beginning to ensure the plans adequately address the unique needs and conditions of the Palos Verdes Peninsula Community.	YES	TBD
Establishment of official passes clearly identifying who is permitted to enter/exit the city during a mandatory evacuation order.	YES	NO

DELIVERABLE #3: *Conduct public education about established evacuation plans, including when to evacuate, how notifications will occur, and what to do if evacuation is not possible.*

Key Elements	Peninsula-Wide Mass Evacuation Plans	LA County's Zonehaven Project
Incorporation of a community outreach strategy that includes public education activities and opportunities for public input.	YES	NO
Collaboration with private sector partners to assist in educating residents about established evacuation plans, the Peninsula Cities roles in an emergency and their personal preparedness responsibilities.	YES	NO
Installation of street signs clearly indicating zone locations and directions to the nearest designated Safe Refuge Areas.	YES	NO

DELIVERABLE #5: *Create of a comprehensive Plan for multi-mode Emergency communication that provides reliable, up-to-date, information for residents prior to, during, and after the emergency.*

Key Elements	Peninsula-Wide Mass Evacuation Plans	LA County's Zonehaven Project
Identify and implement a robust primary and secondary multi-channel emergency communication systems.	YES	NO
Investigate the cost and feasibility of AM radio broadcast capabilities and/or some type of siren warning system for public notification.	YES	NO
Establishment of well-defined procedures for the deployment of Public Information Stations.	YES	TBD
Creation of a centralized listing of each city's digital channels, including city websites, Nixle, Alert South Bay, MyRPV, Facebook, Twitter, and Nextdoor.	YES	TBD

Drafting of guidance and instructions on how to coordinate the use of reverse 911 and wireless emergency alert (WEA) notification systems.	YES	NO
Consideration of notification methods for the non-English speaking population, as well as a strategy for emergency communications translation into appropriate languages as needed.	YES	TBD

CONCLUSION

To provide residents with a comprehensive mass evacuation plan tailored to the unique needs of the Palos Verdes Peninsula Community, and to further prepare Peninsula Cities to respond to and recover from a future large-scale disaster event, Staff recommends the following recommendations for the Committees consideration:

- (1) Review and provide feedback on the information presented in this report pertaining to the drafted RFP for the establishment of Peninsula-wide evacuation plans as well as the proposed rollout of the Zonehaven evacuation management platform.
- (2) Defer solicitation of proposals until additional information regarding the County's implementation of the Zonehaven evacuation platform is gathered, allowing for necessary revisions to the drafted RFP to avoid duplication of efforts.



**PENINSULA PUBLIC SAFETY COMMITTEE
AGENDA REPORT**

MEETING DATE: 08/12/2021
AGENDA HEADING: New Business 7-B

AGENDA TITLE:

Palos Verdes Peninsula Ingress & Egress Map and Strategy for Establishing Peninsula Wide Mass Evacuation Plans

RECOMMENDED COMMITTEE ACTION:

- (1) Review and provide direction on a draft Palos Verdes Peninsula Ingress & Egress Map;
- (2) Provide further direction to Staff on establishing Peninsula wide evacuation plans; and,
- (3) Direct Staff to seek proposals a consultant to prepare a comprehensive emergency operations evacuation "playbook" for the Peninsula.

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

ATTACHED SUPPORTING DOCUMENTS:

- A. Draft Peninsula Palos Verdes Peninsula Ingress & Egress Map
-

EXECUTIVE SUMMARY:

Following the direction provided by the Peninsula Public Safety Committee (Committee) at its August 12, 2021 meeting, City of Rolling Hills Staff and the Peninsula's shared coordinator are presenting a draft map highlighting the egress and ingress points of the four Peninsula Cities for the Committee's review and input. In addition, staff is requesting that the Committee consider recruiting a consultant experienced in preparing a comprehensive emergency operations evacuation "playbook" for the Peninsula that incorporates the components of an effective emergency evacuation plan as outlined in this report.

BACKGROUND:

At its May 13, 2021, meeting, the Committee adopted a strategic work plan to guide the Committee's efforts in addressing the numerous facets of emergency preparedness. The Committee-adopted strategic work plan was developed based on an inventory of recent Committee discussions, and identifies the following three critical areas for emergency preparedness for the Committee to focus on over the next six to twelve months: (1) Study Peninsula evacuation routes; (2) Understand utility vulnerabilities and implement readiness measures; and, (3) Develop communication protocols among Peninsula cities.

Staff additionally recommended the following goals for each of the critical areas of emergency preparedness for the Committee to consider:

1. Study Peninsula Evacuation Routes

- Obtain First Responder's input on routes
- Identify exit points and measures to improve these locations for readiness
- Establish communication contact to respective cities for traffic control
- Protocols for evacuating large animals
- Identify temporary shelter locations

2. Understand Utility Vulnerabilities and Implement Readiness Measures

- Understand utilities' contingency plans for continuous service
- Obtain utilities' recommended measures for individual contingency plan

3. Communication Protocols Among Peninsula Cities

- Establish incident command protocols to respective cities EOC to community
- Establish outlets to receive emergency notifications
- Identify Neighborhood watch organizations

Additionally, at the May 13, 2021, meeting, the Committee moved to formally recognize the Rancho Palos Verdes Emergency Services Coordinator as the Peninsula-wide Emergency coordinator.

DISCUSSION:

In recent years, California has seen an increase in unprecedented and destructive wildfires, posing a threat to lives, livelihoods, and communities. 2020 was the worst year on record, with nearly 10,000 fires consuming nearly 4.2 million acres, and serves as a stark reminder that the majority of the four Peninsula Cities are generally classified as a Very High Fire Hazard Severity Zone by the State of California Department of Forestry (Cal Fire).

Due to its numerous steep canyons and open scrub brush-covered hillsides, the Palos Verdes Peninsula has always been at risk for a devastating wildfire. The most recent significant fire on the Palos Verdes Peninsula was on August 27, 2009, when a wildfire burned through approximately 230 total acres. The fire is believed to have originated in the Portuguese Bend Reserve in the City of Rancho Palos Verdes where 165 acres were charred. The remaining 65 acres were burned in the City of Rolling Hills. Dozens of homes were threatened and approximately 1,200 residents were forced to evacuate ([City of Rolling Hills Local Hazard Mitigation Plan, pg. 82.](#))

Palos Verdes Peninsula Ingress & Egress Map

Given the increased attention that today's climate related fire danger has garnered, the Peninsula Cities have received a number of requests from residents regarding pre-determined evacuation routes. Evacuation routes can vary greatly depending on the scenario. As a result, law enforcement and fire officials are circumspect about disclosing predetermined evacuation routes, as they do not want residents to follow a route they learned about prior to an emergency that does not fit the current emergency scenario, preferring instead that residents follow contextually appropriate real-time directions.

Recognizing that evacuation routes can vary significantly depending on the situation, staff collaborated to create a map highlighting the ingress and egress routes for the entire Palos Verdes Peninsula. The intention of this ingress and egress map in its current state is to outline the major arterial roads in each Peninsula city in order to advance the Committee's strategic workplan strategy of studying Peninsula evacuation routes and related objectives as outlined above.

The attached draft map highlights the following major arterial roads for each city:

- ⇒ **City of Palos Verdes Estate:** Palos Verdes Drive West, Palos Verdes Blvd, and Palos Verdes Drive North
- ⇒ **City of Rancho Palos Verdes:** Palos Verdes Drive West, Palos Verdes Drive South, Palos, Verdes Drive East, Crest Rd., Hawthorne Blvd., Silver Spur Rd., Crenshaw Blvd., Western Ave. and Miraleste Dr.
- ⇒ **City of Rolling Hills:** Crenshaw Blvd., Crest Road West, Crest Road East, Portuguese Bend Rd., Eastfield Drive and Palos Verdes Drive North.
- ⇒ **City of Rolling Hills Estates:** Palos Verdes Drive North, Palos Verdes Drive East, Rolling Hills Road, Crenshaw Blvd, Hawthorne Blvd, and Crest Road

General Overview of an Evacuation Process During a “Real-World Event”

The Woolsey Fire, which began on November 8, 2018, killed three people, burned 96,949 acres of land, destroyed 1,643 structures, and led to the evacuation of more than 295,000 people in the 13 days before it was contained. The fire was the most destructive ever in Los Angeles County. The City of Malibu was especially hard-hit, with at least 670 structures destroyed, including more than 400 single-family homes with an estimated market value of at least \$1.6 billion.

The evacuation process during the Woolsey Fire received significant community and media attention due to high traffic and long wait times for residents. The City of Malibu had its own evacuation plan in place, however a city is not responsible for determining if and when mandatory evacuation is necessary or how it is executed.

During an emergency, law enforcement and fire agencies are responsible for organizing and implementing evacuations. In most cases the decision to evacuate an area, the areas to be evacuated and the route to be used is made by the responding Fire Departments Incident Commander (individual responsible for all aspects of the emergency response); and is based on the fire's location, behavior, winds, terrain, etc.

Once a decision to evacuate has been made, it is then communicated to Law Enforcement Personnel who implement the evacuation plan and are responsible for enforcing an evacuation order. California law authorizes officers to restrict access to any area where a menace to public health or safety exists due to a calamity such as flood, storm, fire, earthquake, explosion, accident or other disaster. Refusal to comply is a misdemeanor. ([Penal Code 409.5](#))

The three standardized evacuation terms include the following:

- **Evacuation Order:** Immediate threat to life. This is a lawful order to leave now. The area is lawfully closed to public access.
- **Evacuation Warning:** Potential threat to life and/or property. Those who require additional time to evacuate and those with pets and livestock should leave now.
- **Shelter in Place:** Go indoors. Shut and lock doors and windows. Prepare to self-sustain until further notice and/or contacted by emergency personnel for additional direction

While a city does not determine when and how mandatory evacuations are issued, local jurisdictions play a critical role in relaying information to the public and ensuring that members are aware of and able to evacuate during a mass evacuation. Local governments issue emergency alerts in the event of an evacuation and will utilize all appropriate notification platforms, including mass notification emergency alert systems, Wireless Emergency Alerts (WEA), and social media.

Additionally, law enforcement personnel assist local jurisdictions in notifying residents of an evacuation by going door-to-door, by using their in-car PA systems or sirens in a restricted area, or by utilizing any available and operable mass notification systems.

Elements of an Effective Evacuation Coordination Plan

While protective measures, such as identifying ingress & egress routes to be used in the event of a mass evacuation are critical to emergency response, it represents only a portion of effective evacuation planning, necessitating a more in-depth examination of the concepts and principles upon which emergency evacuation plans should be built.

The following section highlights successful evacuation practices gleaned from research conducted by the Peninsula's Shared Coordinator and outreach to cities and organizations recently impacted by wildfires and/or disasters regarding best practices and lessons learned in regard to evacuation planning and coordination.

Implementation of Evacuation Zones:

Evacuation zones are pre-identified geographical areas used by emergency responders to improve coordination and span of control during an evacuation. In the event of a large fire or other disaster, officials may use the Evacuation Zones to quickly identify the timing, order, and routes of evacuation for specific areas to be more effective and avoid traffic bottlenecks.

Pre-designated evacuation zones enable jurisdictions to concentrate evacuation efforts on the most vulnerable areas, while minimizing the need to evacuate large areas that are not at risk from the hazard. Evacuation Zones enable community members, emergency services,

TOPANGA TACTICAL ZONE MAP



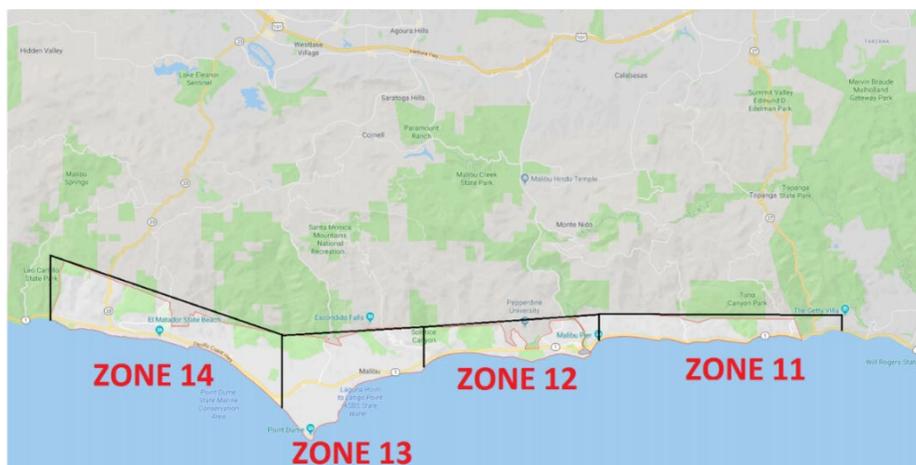
emergency managers, and 9-1-1 to communicate effectively when a mass evacuation is initiated in response to an emergency.

Identification of Safe Refuge Areas:

A Safe Refuge Area is a temporary staging area either within or outside of the evacuation area, designed to hold people safely during a mandatory evacuation. Safe Refuge Areas may also be used to help move traffic off the road to speed up the movement of people out of the immediate danger area. Safe Refuge Areas are pre-determined to be a safer alternative for residents than remaining in their homes the event of a wildfire evacuation.

Examples of Existing Practices:

- ⇒ **Topanga:** Due to the unique challenges this community faces during a wildfire, Topanga has been divided into nine Tactical Zones to assist emergency responders in issuing targeted evacuation orders based on the size and direction of the fire. The Topanga Tactical Zone Map (pictured above) also includes the designation of a public refuge areas which individual residents can seek refuge during a large wildland fire.
- ⇒ **City of Malibu:** As part of the City's [Mass Evacuation Plan](#), the City of Malibu has been divided into four evacuation zones to maximize the efficiency of any evacuation and to alleviate congestion. These zones define evacuation areas that can be activated quickly. Additionally, they can be used to execute phased evacuations.



Additionally, the City of Malibu has Pre-identified the following Safe Refuge areas within the City of Malibu:

- Zuma Beach Parking Lot 30000 Pacific Coast Highway Malibu, CA 90265
- Topanga State Beach Parking Lot 18700 Pacific Coast Hwy Malibu, CA 90265
- Will Rogers State Beach Parking Lot 17000 Pacific Coast Hwy Pacific Palisades, CA 90272
- Santa Monica Beach Parking Lots Pacific Coast Hwy Santa Monica, CA 90401

Mass Care & Sheltering Services Considerations:

Planning for mass care is critical during an evacuation planning process. While not the primary focus of this staff report, it is critical for local jurisdictions consider both short- and long-term mass care needs in the planning for effective mass evacuation, to quickly establish operations to provide essential services to evacuees. The majority of initial evacuee support is provided in the form of mass care in temporary congregate evacuee shelters. However, once the immediate life safety concerns have passed, some evacuees may require shelters for an extended period of time.

Repopulation Considerations:

As with an evacuation order, a local jurisdiction has little to no control over displaced residents' repopulation. It is critical that evacuation plans include a repopulation strategy to ensure the effective and safe return of evacuees to their communities once the threat or hazard has passed. One of the most crucial lessons learned from the Woolsey Fire's evacuation and repopulation efforts is the critical role that local city officials must play in collaborating with first responders to ensure that re-entry plans adequately address the City's unique needs and conditions.

Strategy for Community Outreach & Awareness

While it is crucial to develop an effective Peninsula-wide evacuation plan that incorporates the elements listed above, it is even more vital to ensure that residents who may be impacted are aware of the plan. It is essential that emergency evacuation planning efforts incorporate a strategy for community outreach that includes activities to educate the public and opportunities for the public to provide input.

Proposal Requests for Professional Services

Due to the specialized nature of the service required to plan and coordinate a peninsula-wide coordinated response to a mass evacuation scenario successfully, staff is requesting that the Committee consider hiring an independent third-party consultant to develop a comprehensive emergency operations evacuation "playbook" for the Peninsula. Engaging an experienced consultant to develop a comprehensive plan for the entire Palos Verdes Peninsula would enable the Peninsula Cities to pool resources and eliminate duplication efforts.

If acceptable to the Committee, Staff will publish a Request for Proposals to independent third-party consultants. Staff will collaborate with representatives from each city, the Los Angeles County Sheriff and Fire Departments, and the Palos Verdes Estates Police Department to develop the proposal. A report on the scope of work, cost estimates, and potential funding would be brought by to the Committee for consideration at a future meeting.

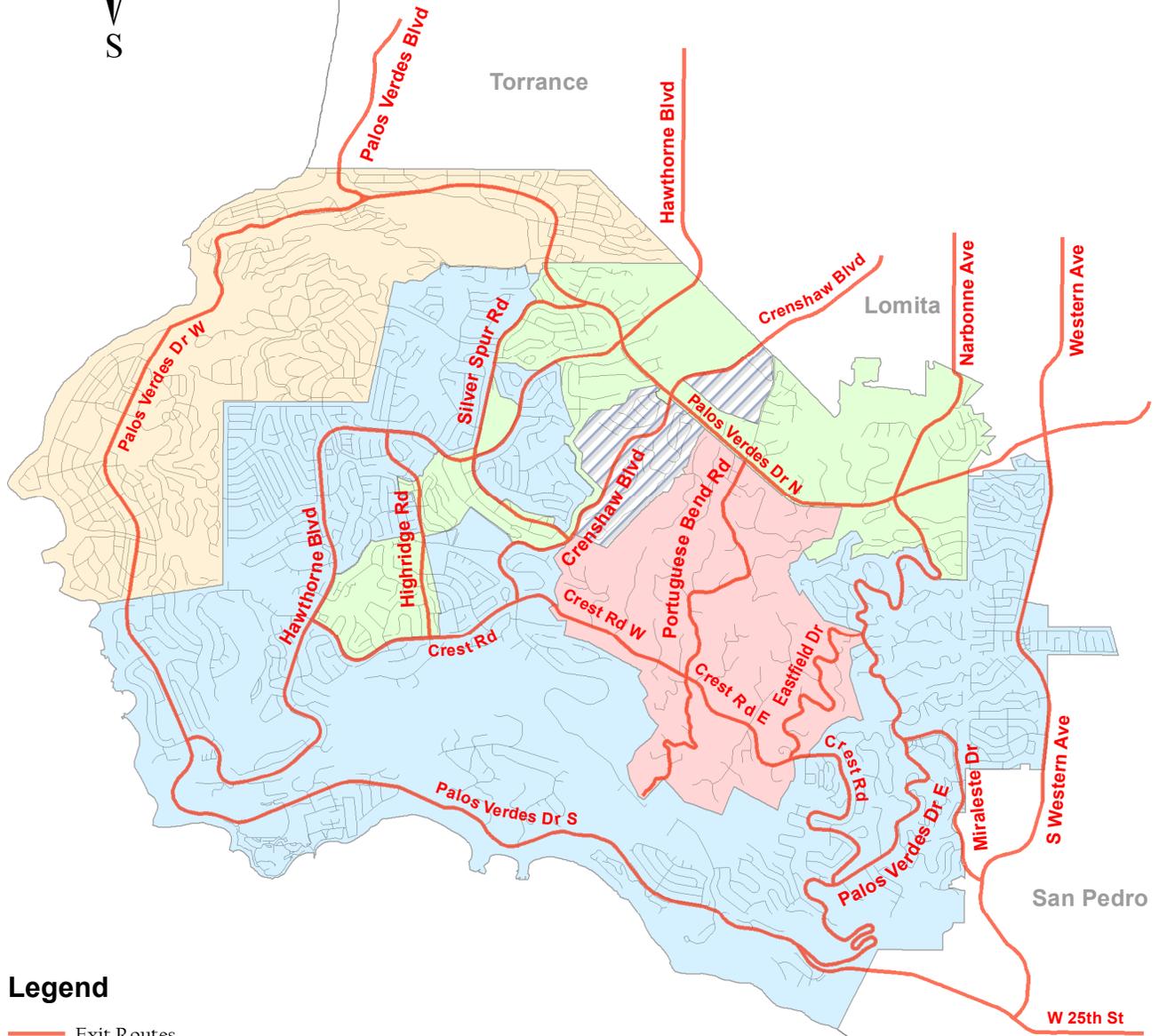
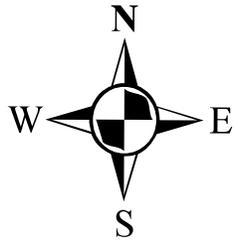
CONCLUSION

To provide residents with a comprehensive mass evacuation plan tailored to the unique needs of the Palos Verdes Peninsula Community, and to further prepare Peninsula Cities to respond to and recover from a future large-scale disaster event, Staff recommends the following:

1. Review, and provide direction on a draft of Palos Verdes Peninsula Ingress & Egress Map;
2. Provide further direction to Staff on establishing Peninsula wide evacuation plans; and,
3. Direct staff to seek proposals from an independent consultant to develop a comprehensive emergency operations evacuation "playbook" that incorporates the aforementioned elements and any other critical considerations as necessary.

Palos Verdes Peninsula

Ingress & Egress Map



Legend

— Exit Routes

City Name

- Palos Verdes Estates
- Rancho Palos Verdes
- Rolling Hills
- Rolling Hills Estates
- Unincorporated



PACIFIC OCEAN



**PENINSULA PUBLIC SAFETY COMMITTEE
AGENDA REPORT**

MEETING DATE: 11/18/2021
AGENDA HEADING: New Business

AGENDA TITLE:

Update on Strategy for Establishing Peninsula Wide Mass Evacuation Plans

RECOMMENDED COMMITTEE ACTION:

Receive and file report.

STAFF COORDINATOR: Elaine Jeng, City Manager
Jesse Villalpando, Emergency Services Coordinator

BACKGROUND:

At the August 12, 2021 Peninsula Public Safety Committee meeting, the Committee supported staff's recommendation to prepare a Request for Proposal (RFP) to solicit consultant services to prepare a Peninsula Wide Mass Evacuation Plan. The Committee and participants of the meeting discussed components of the plan and provided suggestions for additional components to be a part of the plan. Staff anticipates reporting on the RFP process at the February 2022 Committee meeting.

DISCUSSION:

In July 2019, the City of Laguna Beach solicited qualified consultants to coordinate, facilitate, and prepare an Evacuation Time Estimate (ETE) study. Laguna Beach is a well-known beach community that has a very unique topography that consists of canyons, hills and eight miles of coastline. Due to its topography, the City stated that it has limited ingress/egress routes and over 88 percent of the city is within the Very High Fire Severity Zone designated by Cal Fire. The City of Laguna Beach said that a completed study will help provide clarify for potential bottlenecks in traffic and if a staged evacuation is called.

The City of Laguna Beach recently completed an Evacuation Time Study through the services of KLD Engineering. KLD Engineering used a special evacuation software capable of estimating and testing evacuation time estimates for the City of Laguna Beach's 22 Evacuation Management Zones (EMZ). The software included the ability to create a Disability Access & Functional Needs registry/database. Per the City of Laguna Beach's staff report, the cost for KLD Engineering to prepare an Evacuation Time Estimate Study, develop an evacuation website, and a Disability Access & Functional Needs registry was \$192,020.

CONCLUSION

An Evacuation Time Study could be valuable to the communities of the Peninsula. Staff recommends including an evacuation time study as a part of the Peninsula Wide Mass

Evacuation Plan. The RFP would request proposers to provide details and a cost to prepare an evacuation time study.

1/26/2022

ZONEHAVEN PROJECT:
Los Angeles County - WUI

KICK OFF MEETING



Photo Credit: Levan Badzgaradze

Meeting Recordings

→ January 11, 2022

- ◆ https://us02web.zoom.us/rec/share/ajch-cW56N5qnCBbGAPD_oOfAKua_qd6lq89maDmkmX51qRSh51pAnbsITqN2ODk.KGhRYGwGb7xfdXoX Passcode: 6&J62@KR

→ January 12, 2022

- ◆ Recording failed

→ January 13, 2022

- ◆ [Mp4 file](#)

→ January 26, 2022

- ◆ https://us02web.zoom.us/rec/share/Q-aD-CCaJEipgyhyTOLRY83lOxF_pzl_IE4H72c29GNcflmnECTON0XK5ShsbeSU.QiCfBSeKnq0xl3e (Passcode: VW9n\$Jp9)

Welcome

Project Lead Message

- Background - Why we chose Zonehaven
- Our offer to you
- LA Areas in Scope
- Expectations - timeline and participation
- Project Needs/Asks



Kevin McGowan

Director
Office of Emergency
Management



Bennett Cummings

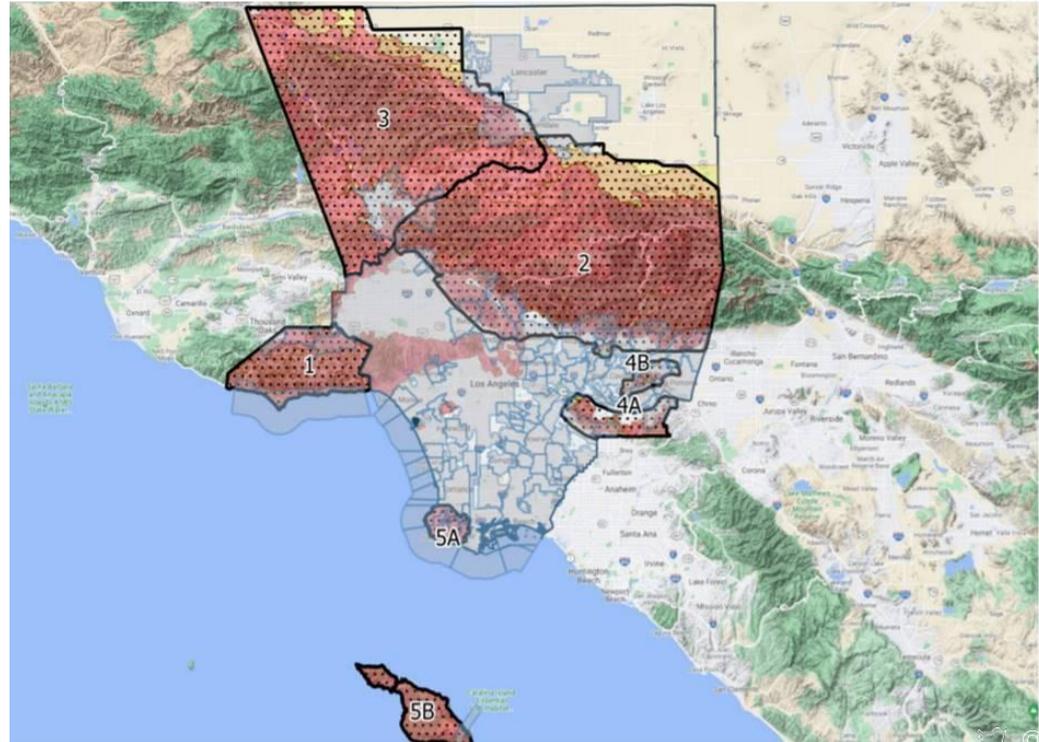
Project Lead
Operations Section Chief
Los Angeles County
Office of Emergency
Management

Welcome

Project Lead Message

#Zones by Area

Area 1	96
Area 2	341
Area 3	191
Area 4a	90
Area 4b	30
Area 5a	44
Area 5b	4



Today's **Agenda**

- Roll Call
- Message from Executive Sponsor/Project Lead
- What is Zonehaven?
- Project Scope and Overview

Meet the

Customer Success Team



Jason Nicol

Head of Customer
Success



Tammi Canelli

Public Safety
Account/CS
Manager



Joe Grupalo

Public Safety
Training Manager



Eryn Bathke

Community
Outreach Manager



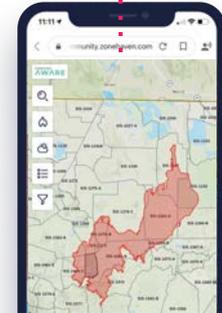
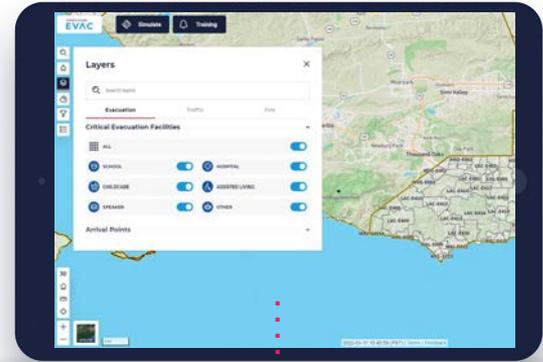
Review Zonehaven Tools

ZONEHAVEN®
EVAC

- **app.zonehaven.com**
 - Public Safety ONLY
 - Zone Status and Data Inputting

ZONEHAVEN®
AWARE

- **community.zonehaven.com**
 - This is LIVE to the Internet 24/7
 - Public Facing Immediately



*Recommendation - have both sites up and running while working in the applications.

Get Ready Marin Video

Zonehaven in Action



Get Ready Marin County: Know Your Zone

3.2K views • 1 month ago



Marin Wildfire Prevention Authority

Learn more about **Marin County's** improved evacuation system

CC

[Watch Now](#)



Jamie Scardina
Undersheriff
Marin County Sheriff's Office

Chris Martinelli
Deputy Fire Chief
Marin County Fire Dept.

County Community Warning Process

1

Unified Command Request thru SO



2

Info "Relay"

Multi-Channel Notifications

Zone Status Change
To Distribution List



Update

Code Red,
Everbridge, GEM



Send

3

Notification
out to the Public



Demo

Get to Know Zonehaven

The screenshot displays the Zonehaven EVAC web application interface. At the top left, the logo 'ZONEHAVEN EVAC' is visible. Below it is a search bar with the placeholder text 'Search an Address or Zone'. To the right of the search bar are two buttons: 'Simulate' and 'Training'. The main area is a topographic map of Malibu, California, showing various evacuation zones labeled MAL-E019, MAL-E020, MAL-E021, MAL-E026, MAL-E027, MAL-E028, and MAL-E029. The map features contour lines, roads like Pacific Coast Hwy, and geographical features like Malibu Beach and Las Flores. On the left side, there is a vertical toolbar with icons for home, layers, and other map functions. At the bottom left, there are zoom controls and a 'SATELLITE' button. At the bottom center, a timestamp reads '2022-01-10 16:21:04 (PST) | Terms | Feedback'. At the bottom right, there is a prominent red button with the text 'Open Now' and a small circular icon.

2 Ways to

Request an Alert from the Field



Direct Thru Law Enforcement

Unified Command



Thru Dispatch Centers

Request thru EBRCS Radio System

Tools for Initial Attack (IA)

Tablet Command Tool



8:04

5G

Back XCC Operations (new)

Layers

Traffic Cameras

Hospitals

Fire Stations XCC

XCC PrePlans

Environmental_Cleanup_Sites_(...

Mutual Threat Zones

State Responsibility Area

Parcels

Fire Trails Access Points

Fire Trail

Evacuation Zones - Zonehav... ✓

Pre-Plan Map Book and QR Codes

Mutual Aid Tool



MORAGA
 * South of Old Moraga Ranch Trail, East of Old Moraga Ranch Trail.
 Major roadways include: Sanders Ranch Rd, Merrill Dr, Brandt Dr, Shannon Dr, Lisa Ln & Crockett Dr.

US-CA-XCC-MOR-E019
 Sanders Ranch

EVACUATION ZONE MAP

ZONE SUMMARY

Population	738	738
Vehicles	290	290
Area	684 acres	
Structures	290	

AGENCY LEADS

Law	Moraga Police Department
Fire	Moraga Orinda Fire Protection District

LINKS

CRITICAL EVACUATION FACILITIES

DATE PUBLISHED: 07/15/2021 ZONE DATA LAST UPDATED: 07/11/2021 ZONEHAVEN

MORAGA
 * South of Old Moraga Ranch Trail, East of Old Moraga Ranch Trail.
 Major roadways include: Sanders Ranch Rd, Merrill Dr, Brandt Dr, Shannon Dr, Lisa Ln & Crockett Dr.

US-CA-XCC-MOR-E019
 Sanders Ranch

TRAFFIC CONTROL & POTENTIAL EVACUATION ROUTES

POTENTIAL TRAFFIC CONTROL POINTS

ID	Rank Name	Swam	Non-Swam	Traffic Cones	Traffic Barricades	Lights	PA System	RA
1	Sanders Ranch Rd @ Camino Pablo	1	4	40	2	1	0	0
2	Camino Pablo @ Canyon Rd	1	4	40	0	0	0	0
3	Moraga Way @ Moraga Rd	1	4	40	0	0	0	0

ZONE RESOURCE SUMMARY

ID	Rank Name	Swam	Non-Swam	Sum
1	Security	Swam	2	2
2	Traffic Control	Non-Swam	12	12
3	Traffic Control	Swam	3	3
4	Verification	Non-Swam	2	2
5	Verification	Swam	2	2

POTENTIAL ROUTES

ID	Rank Description
1	Merrill Dr to Sanders Ranch Rd to Camino Pablo to Moraga Rd to Moraga Way to Hwy 24

POTENTIAL ARRIVAL POINTS

ID	Name	Type
1	Hwy 24 @ Moraga Way	Drum

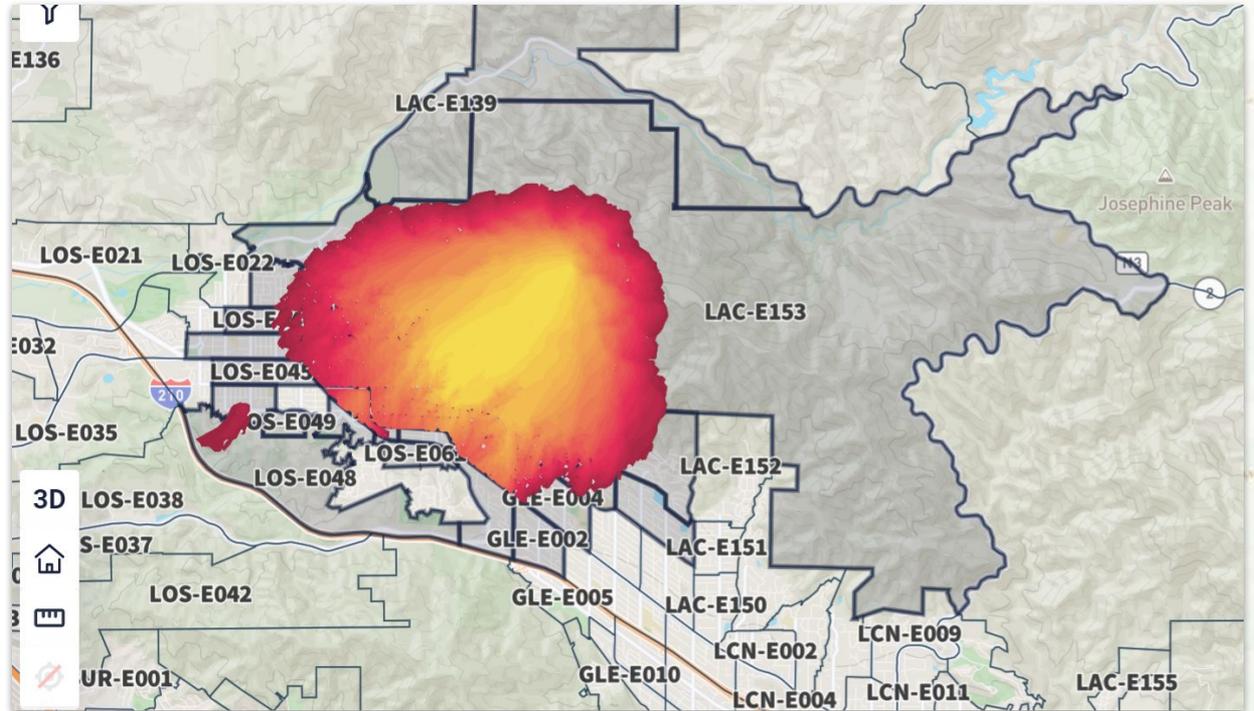
SPECIAL ZONE CONSIDERATIONS

1. This is primarily a gated community. Egress may be limited to Sanders Ranch Rd to Camino Pablo.

DATE PUBLISHED: 07/15/2021 ZONE DATA LAST UPDATED: 07/11/2021 ZONEHAVEN

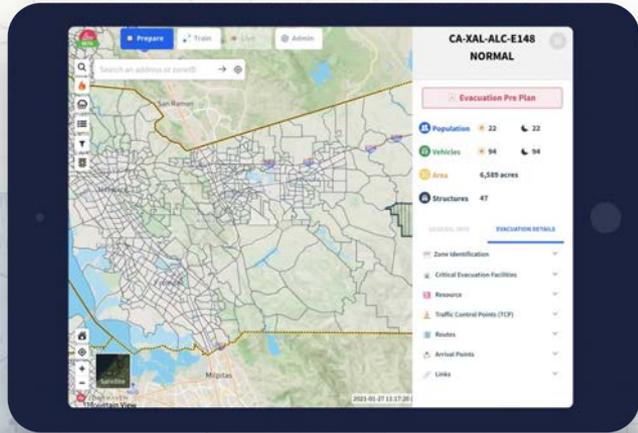
Simulations Feature

EOC Tool



Simple communication, authoritative source

PIO Tool



Community Site



Integrations



Social Media



Email

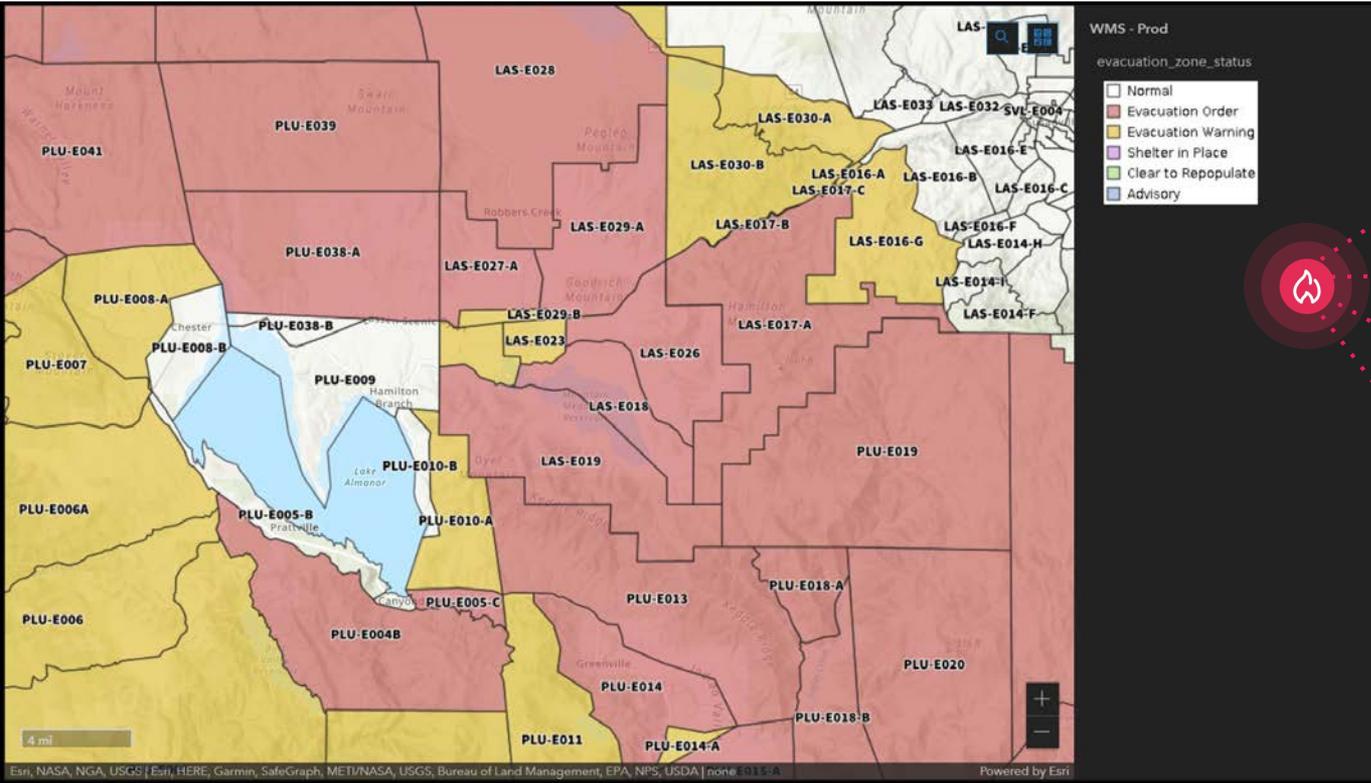


Press Release



Zonehaven ZMS

GIS Data Sharing



Shapefile/JSON/KML exporter

WMS/WFS Layers

Integration for viewing with various EOC Tools (e.g. Veoci)

ArcGIS and AGOL compatibility

[View Now](#)

Zone split feature

Repopulation Tool

ZONE GRS-E222-B [Subscribe to Alerts](#)

STATUS **Clear to Repopulate**
It is now safe to return to your home. Be aware of your surroundings.

REASON Use caution as there are emergency personnel in the area.

SUMMARY Glenbrook Shopping Center

DESCRIPTION North - Brunswick Drive East - Brunswick Drive South - Idaho Maryland Drive West - State Highway 20

USEFUL LINKS [Ready Nevada County Dashboard](#) See All(3)

EVACUATION INFO **FIRE AND POLICE INFO**

Temporary Evacuation Points -

Last changed on Wed Aug 25 2021 07:47 PM. Current as of Thu Aug 26 2021 08:00 AM

Aug 26, 2021 7:00 am

ZONE GRS-E222-B [Subscribe to Alerts](#)

STATUS **Advisory**
Be on alert and follow county recommendations.

REASON Use caution as Fire Dept. personnel remain in the area.

SUMMARY Whispering Pines

DESCRIPTION North - Idaho Maryland Road East - Brunswick Road South - East Bennett Road West - State Highway 20

USEFUL LINKS [Ready Nevada County Dashboard](#) See All(3)

EVACUATION INFO **FIRE AND POLICE INFO**

Temporary Evacuation Points -

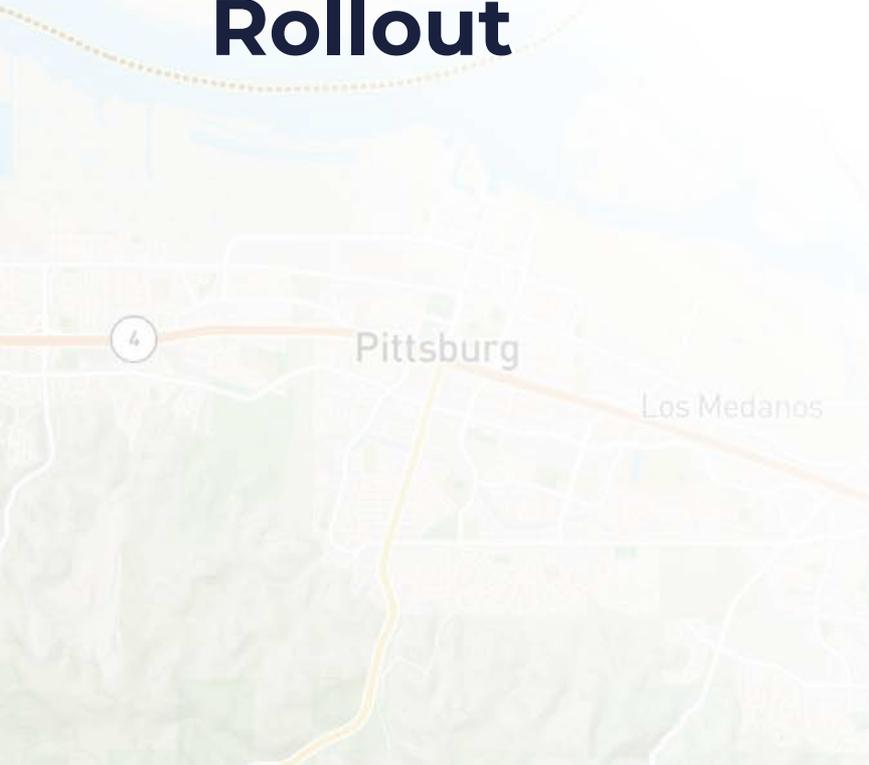
Last changed on Thu Aug 26 2021 06:40 AM. Current as of Thu Aug 26 2021 09:58 AM

Aug 26, 2021 10:00 am

High Level Overview

Zonehaven

Rollout



Success Factors

Keys to success

- Goal: Launch Zones to AWARE
- Administrative planning and preparation:
 - ◆ Form multi-agency teams
 - ◆ Identify EVAC users and roles
- Approve and Publish Zones
- Train and Exercise
- Educate and inform public

Onboarding

Administration/Form Multi-agency teams



MAT Teams

- Law
- Fire
- OES
- EM

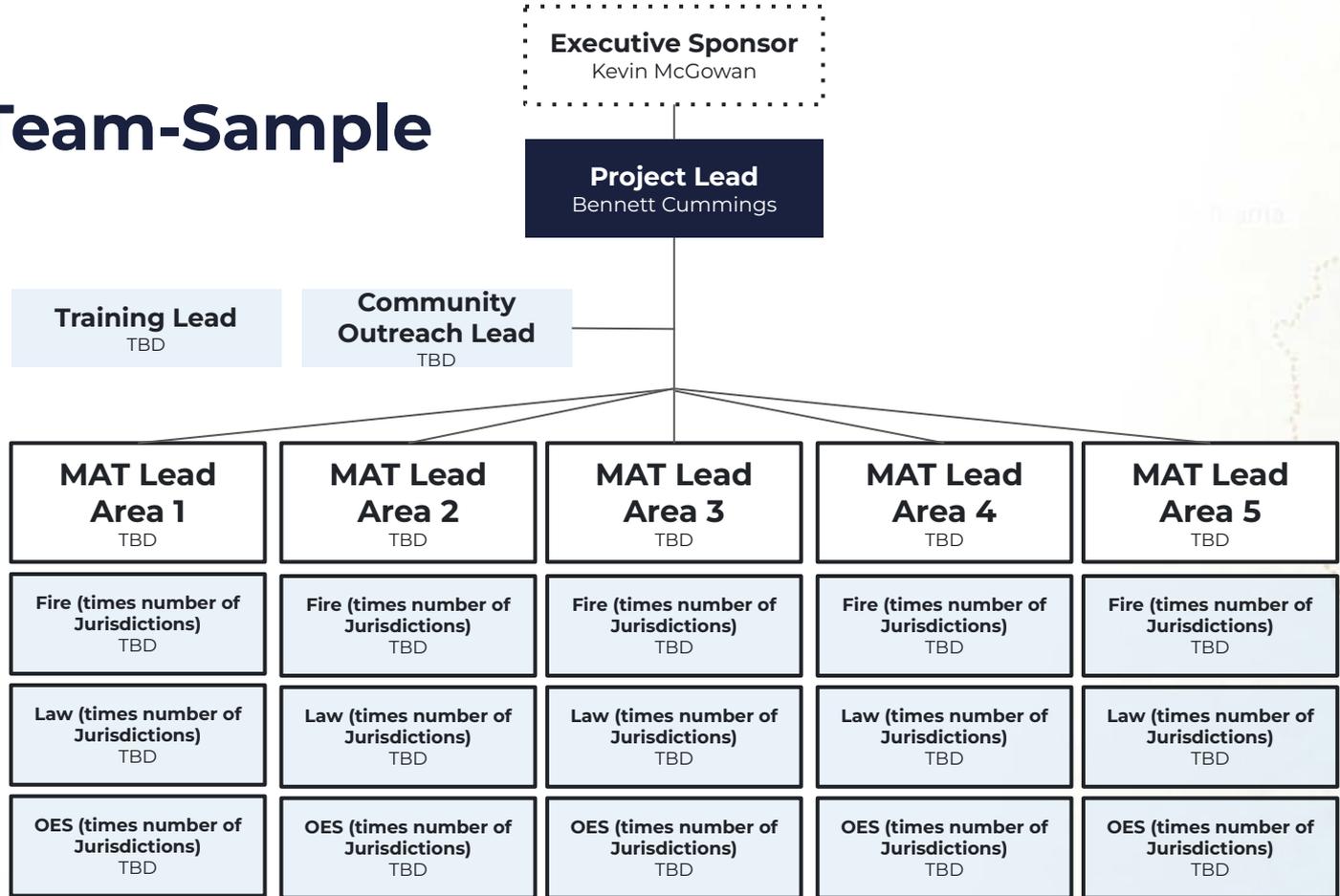


130

130

130

Onboarding Project Team-Sample



Onboarding **Administration/Lists**



Evac User List

Determine which individuals will have access to the Zonehaven EVAC platform.



Email Distribution

Develop a list of who needs to be notified of evacuation zone status changes.



Public Notification

Integrate process for disseminating evacuation zone updates to the public via CWS

Onboarding **Administration/Set Roles**



Admin

Determine who will be able to add / remove users and update user privileges and home county.



Editor

Determine who will be able to update Pre-Plans, edit zone properties, and create + modify scenarios and incidents.



Alerter

Determine who will have authority to change evacuation zone statuses in the system.



Viewer

Determine who will be able to view all zones, zone data, and PDF Evacuation Pre-Plans in EVAC.

Onboarding

Steps to Success

1

Approve Zones

Zone boundaries and IDs reviewed and approved

2

Data Entry

Data entry of general info and evacuation details sections

3

Training & Drills

Conduct training and drills to prepare personnel

4

Community Outreach

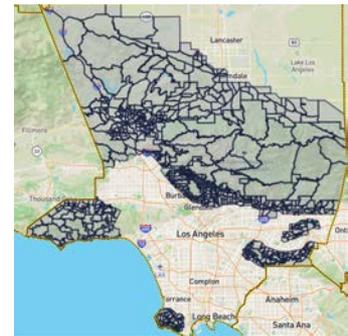
Educate and inform community of evacuation zones

STEP

1

Onboarding Overview

Agency Approved Zones



Zone Creation

All Public Safety Zones will be based a ***proprietary data-based zone creation algorithm*** to create each zone.



Zone Reviews

Law, fire and OES will work together in multi-agency teams to review.



Zone Revisions

After draft zones are created, each fire and law enforcement agency will have revisions to make.



Agency Approved

Approval is a “point-in-time” approval. Zones can change as new information or data is identified.

Preliminary zones:
5a - 44 zones and 5b - 4 zones

STEP

2

Onboarding Data Entry

2A General Info

General info | Evacuation details

SUMMARY
Southern Alpine Valley

Sur de Alpine Valley

DESCRIPTION
• North of Cleland Road and Timberline Drive
• South of St. Helena Road
• East of Calistoga Road
• West of the Napa County line

SPECIAL CONSIDERATIONS
Add special considerations...

Jurisdictional Responsibilities [Edit](#)

FIRE	LAW
SONOMA COUNTY FD	SONOMA COUNTY SO

2B Evacuation Details

General info | **Evacuation details**

- ZONE IDENTIFICATION
- CRITICAL EVACUATION FACILITIES
- POPULATION AND VEHICLE POTENTIAL
- RESOURCES
- TRAFFIC CONTROL POINTS
- ROUTES
- ARRIVAL POINTS
- LINKS

[+ Add new](#)

2C Pre-plan books



STEP

2

Onboarding Data Entry

2A General Info

Minimum to Publish

General info | Evacuation details

SUMMARY
Southern Alpine Valley

Sur de Alpine Valley

DESCRIPTION
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Add special considerations...

Jurisdictional Responsibilities [Edit](#)

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General info | **Evacuation details**

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- LINKS

[+ Add new](#)

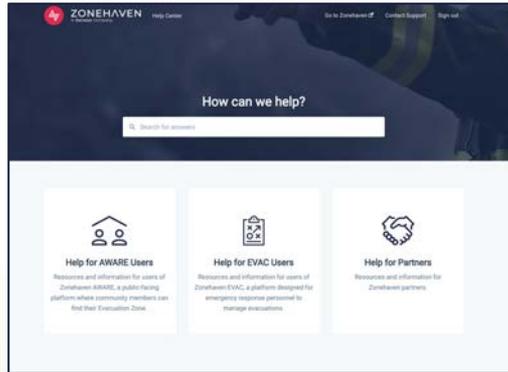
2C Pre-plan books



STEP 3

Training Drills and Training

Virtual Training



help.zonehaven.com

Onsite Training



Drills



STEP

4

Outreach

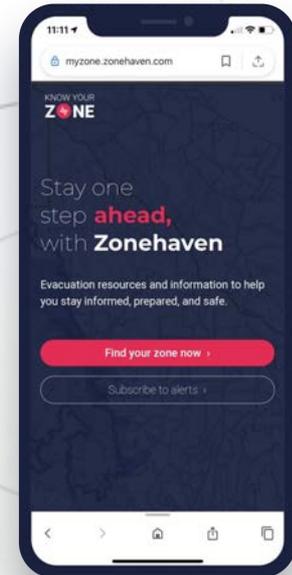
Community Outreach



Know Your Zone Campaign

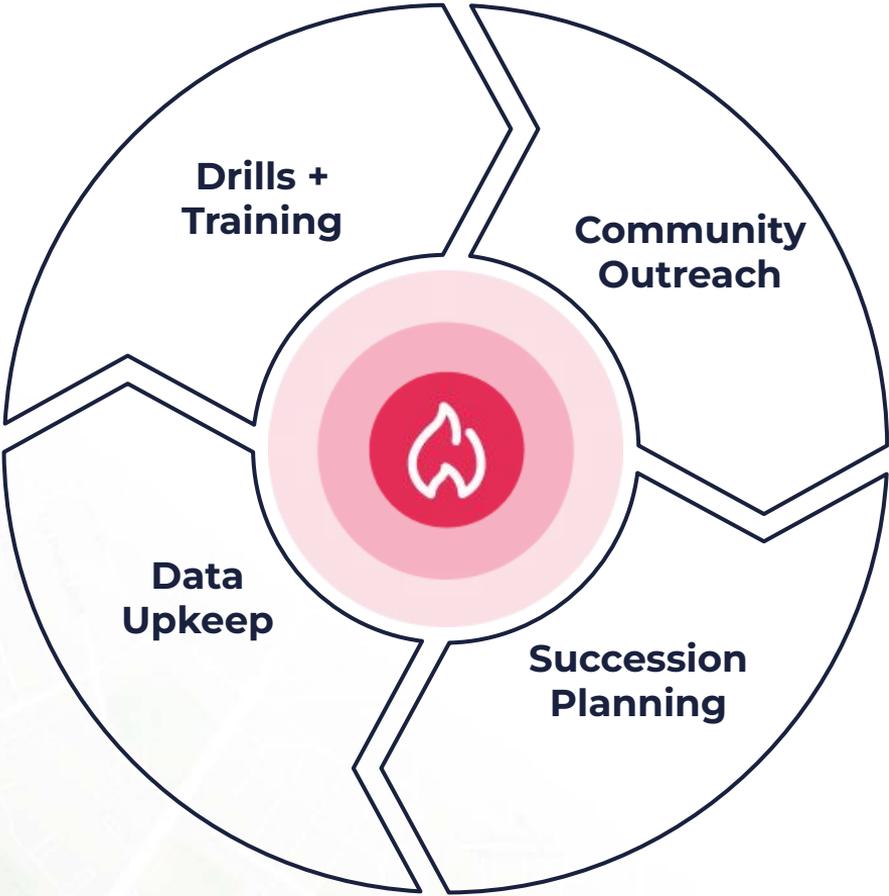
- Initial Meeting
- Preparation
- Kick-off Meeting
- Internal Launch
- Soft Launch
- Hard Launch
- Continued Engagement

KNOW YOUR
ZONE



Project Maintenance

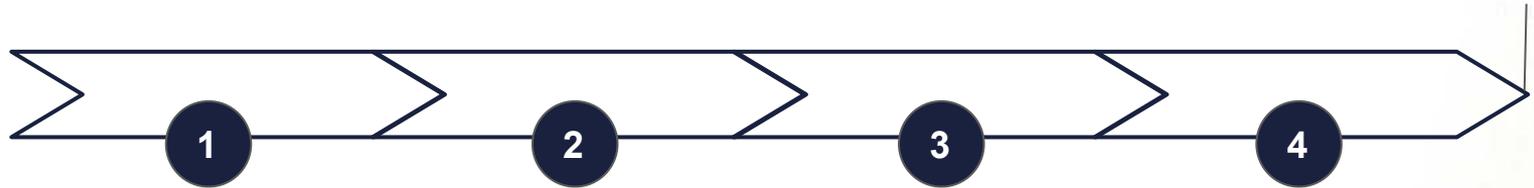
Continued Participation



Project Overview

Next Steps

3/16/22



Review **Project Plan** and agree to timeline

[View Now](#)

Review/update **contact list** for Project Team and Evac Users

[View Now](#)

Review/update **jurisdictional agencies list** (law, fire, OES)

[View Now](#)

Schedule onboarding workshop for teams on zone review/edit process.

Teams begin zone reviews.



**PENINSULA PUBLIC SAFETY COMMITTEE
AGENDA REPORT**

MEETING DATE: 02/10/2022
AGENDA HEADING: New Business

AGENDA TITLE:

Update on installing Wildfire Monitoring Cameras

RECOMMENDED COMMITTEE ACTION:

- (1) Receive updated information regarding the implementation of a Peninsula wide wildfire monitoring camera system; and provide further direction to Staff.

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

ATTACHED SUPPORTING DOCUMENTS:

- A. [August 17, City Council Meeting Staff Report](#)
 - B. [November 2, RPV City Council Meeting Staff Report](#)
 - C. [Wildfire Detection Services – RFP](#)
-

BACKGROUND:

The City of Rancho Palos Verdes is investigating the development of a wildfire camera detection system. This system would involve the deployment of high-definition cameras, as well as associated artificial intelligence software in strategic locations identified as having a favorable vantage point for monitoring and providing constant surveillance of areas most vulnerable to wildfire within the City's open spaces and canyons.

The proposed wildfire camera detection system is envisioned to provide public safety agencies, allied organizations, the Peninsula Cities, and the general public with timely and accurate situational awareness regarding fire ignitions achieved through the use of artificial intelligence and intuitive software technology to detect, locate, confirm, and communicate wildfire ignitions in strategic locations identified as wildfire-prone areas throughout the Palos Verdes Peninsula.

During the Peninsula Public Safety Committee (PPSC) meeting on November 18, 2021, City of Rancho Palos Verdes staff and members of its respective Emergency Preparedness Committee updated the PPSC on the city's current and potential actions, associated with the implementation of a Peninsula wide wildfire monitoring camera system. This presentation specifically covered a number of topics, including an overview of the ALERTWildfire Network camera system, recommendations from the RPV Emergency Preparedness Committee (EPC) regarding proposed wildfire fire camera locations and coverage, an examination of the differences between camera systems

(surveillance vs. detection) as well as the City of Rancho Palos Verdes City Council expressed interest in pursuing a wildfire detection system that utilizes Artificial Intelligence (AI) technology to actively monitor for smoke indicative of wildfire ignition and direction for staff to proceed with issuing a Request for Proposals for the system (for additional background on this item, see Attachment A).

DISCUSSION

Wildfire Detection Services RFP

Following the November 18, 2021 PPSC meeting, city staff collaborated with members of their respective Emergency Preparedness Committees to draft a Request for Proposals seeking proposals from qualified firms to implement, install, and maintain a 24-hour early wildfire detection system that utilizes artificial intelligence and intuitive software technology to detect, locate, confirm and communicate wildfire ignitions throughout the City of Rancho Palos Verdes and the surrounding Palos Verdes Peninsula area.

On December 22, 2022, the City issued a formal request for proposals (RFP) (Attachment B). The following section summarizes the RFP's scope of work and the associated Project Tasks and subcomponent key elements.

Scope of Work:

The project's scope of work as further defined below, is comprised of two separate options that shall be priced separately as part of the proposal submittal. Vendors shall provide a price for both options as part of the proposal. The first option entails establishing and developing a 24-hour early wildfire detection and alert system that covers high-risk open space areas, primarily in the City of Rancho Palos Verdes.

Option #1 shall ensure coverage of the below six high-risk areas identified by the City of Rancho Palos Verdes (RPV) and its respective Emergency Preparedness Committee (EPC).

Proposed Locations- RPV

Proposed Locations	GPS Coordinates:
Antenna Cell Communications Tower	(33.7453, -118.4055)
Portuguese Bend Reserve and Forrestal Reserve	33.7532, -118.3668)
Overlooking San Ramon Reserve/Switchback Areas	33.7532, -118.3668)
Overlooking San Ramon Reserve East Side	(33.7579, -118.3731)
Rattlesnake Trail and adjacent canyon	(33.7579, -118.3731)
Open Space Areas visible from Vistapoint Scenic Outlook:	(33.7480, -118.3941)

The second option entails the establishment, development, and expansion of wildfire detection sensors/technologies and associated equipment in collaboration with all four Palos Verdes Peninsula cities of Palos Verdes Estates (PVE), Rancho Palos Verdes (RPV), Rolling Hills (RH), and Rolling Hills Estates (RHE), in order to provide a 24-hour

early wildfire detection and alert system covering the majority of the Palos Verdes Peninsula's high fire risk areas.

Option #2 shall ensure coverage of all six high-risk areas identified in Option #1 and shall expand the installation of wildfire detection sensors/technologies, as well as associated equipment, to cover the majority of the Palos Verdes Peninsula's high fire risk areas as identified in the RFP.

The city of RPV has provided these locations as a “starting point” for the vendors for determining the highest risk areas within the Palos Verdes Peninsula. As part of the proposal submittal, the vendor shall evaluate the pros and cons for each proposed location and shall determine the best locations for the camera systems based on ensuring the best coverage for high risk open space areas.

Associated Project Tasks

Both options #1 and #2 require the successful proposer (hereinafter referred to as the "Vendor") to complete the following associated Project Tasks, as listed below:

- ⇒ Selection of best locations for wildfire detection systems
- ⇒ Project Coordination Meetings
- ⇒ Technical Evaluations
- ⇒ Development of Project Execution Plan
- ⇒ Public Outreach/City Council Meetings
- ⇒ Construction and Mobilization of Project
- ⇒ Commencement of Wildfire Detecting Service

Preliminary Project Schedule

The following is the anticipated schedule for the RFP process and overall Anticipated Project Schedule:

RFP Schedule:

Request for Proposal available	December 21, 2021
Request for Clarification due	January 10, 2022
Proposals due	February 28, 2022
Firm Interviews (if necessary)	February 2022
Anticipated Notice of Award	March 2022

Anticipated Project Schedule

Review of Proposed Locations	April 2022
Project kick Off meeting	May 2022
Technical evaluations	June 2022
Development of Project Execution Plan	August 2022
Public Outreach/City Council Meetings	September 2022
Construction and Mobilization of Project	October 2022
Commencement of Wildfire Detecting Services	January 2023

Additional information, including maps and photos of proposed locations, as well as additional information on the scope of services deliverables and key elements, can be found in the current draft of this RFP, which is attached to this report as Attachment C.

Wildfire Detection Systems RFP Deadline Extension

On December 22, 2021, City Staff issued a request for proposals (RFP) to obtain professional contract services to develop and furnish all labor, materials, supplies, and technologies required to provide a 24-hour artificial intelligence-based early wildfire detection system capable of detecting, verifying, locating, and communicating wildfire ignitions across the majority of the Palos Verdes Peninsula's most vulnerable land area to wildfire. The RFP was distributed to various vendors who had previously expressed interest and was posted on the [City's Planet Bids account](#), and on the City's website.

The proposal submission deadline was originally set to close on February 2, 2022. However, in response to numerous communications from prospective vendors requesting additional time to submit their proposals, Staff decided to extend the deadline for submission. By the deadline of February 2, 2022, no proposals had been submitted. The deadline for submissions has been extended to February 28, 2022, close of business.

ADDITIONAL INFORMATION:

Wildfires do not respect city boundaries, and in order to be most effective with the use of a wildfire camera system, the Peninsula cities of Palos Verdes Estates, Rolling Hills, and Rolling Hills Estates are invited to participate in the procurement and use of a Peninsula-wide fire detection system.

Based on the proposal submittals received by the City of Rancho Palos Verdes, staff will share this information with the other Peninsula cities and return to the Peninsula Public Safety Committee at a future meeting with a report outlining potential cost estimates and a cost-sharing agreement with interested partnering agencies. Based on the information presented, each city would then present this information to their respective city council for review and approval.

It should also be noted that City staff has identified the [Governor's Office of Emergency Services \(Cal OES\) Hazard Mitigation Grant Program](#) (HMGP) as a potential funding source for the project's implementation. This funding provides the opportunity for communities to implement mitigation activities to reduce risk to life and property from natural hazards. HMGP funding can also support the development of Local Hazard Mitigation Plans (LHMP) and project scoping activities.

On January 27, the City of Rancho Palos Verdes staff submitted a notice of interest for grant funds provided through the Hazard Mitigation Grant Program (HMGP). With the submission of these notices of interest, Staff has taken the first steps toward securing funds for the implementation of early wildfire detection system services. A Submission of a Notice of Interest is required prior to submitting a subapplication for the Hazard

Mitigation Grant Program (HMGP). Additional information on the HMGP can be found [here](#).

CONCLUSION:

Staff recommends that the Committee review the information in this report and provide input on any additional information required to proceed with the procurement and installation of regional wildfire detection system cameras. Staff anticipates reporting on the RFP process, estimated costs, and a cost-sharing agreement with interested partnering agencies at the Peninsula Public Safety Committee's (PPSC) upcoming May 12, 2022, meeting.