CPUC Status Conference: Safety Issues Regarding Driverless AV Interactions with First Responders
August 7, 2023

Jeanine Nicholson, Chief
San Francisco Fire Department (SFFD)

Darius Luttropp, Deputy Chief: Operations
San Francisco Fire Department (SFFD)

Nicole Jones, Commander
San Francisco Police Department (SFPD)

Julia Friedlander
San Francisco Municipal Transportation Agency (SFMTA)
Outline of San Francisco Responses

Part 1. Section 4.1: Questions 1-6
  • Driverless AV Impacts on Emergency Response

Part 2. Section 4.1: Questions 7-12
  • Training Issues
  • San Francisco Tools Supporting Solutions

Part 3. Section 4.2
  • How should AVs blocking first responders be cleared and how quickly?

Part 4. Section 4.3
  • Gaps in Passenger Services Plans

Part 5. Section 4.3
  • Solutions for gaps & role of Mobility Data Specification (MDS)
PART 1: Driverless AVs stopping unexpectedly: impacts on safety of first responder operations
Q1: How many driverless unexpected stops in SF?
SF doesn’t know. Operators don’t disclose this information.

The following chart of VRE per 1,000 miles illustrates this month-over-month improvement. Of specific note, the ratio of VRE per 1,000 miles can be seen to improve even as total driverless miles continue to rise.

Figure 4: VRE per 1000 Miles

Q1: HOW MANY DRIVERLESS UNEXPECTED STOPS IN SF?

What we know: Almost 600 incidents reported since launch of driverless operations – likely a fraction of actual incidents
Q1: HOW MANY DRIVERLESS UNEXPECTED STOPS IN SF?

What we know: SFFD is 9th busiest fire department in the U.S.

- Engine 3 is the busiest engine in the nation (~9,100 calls)
- Truck 3 is the third busiest truck in the nation (~5400)
Q4: HOW MANY REPORTED DRIVERLESS AV INCIDENTS IMPEDED SF FIRST RESPONDERS?

Cruise & Waymo do not disclose counts of unexpected stops or other incidents that impeded first responders

SFFD has logged ~50 written reports of interference in 2023

- **Stops:** Obstructing station ingress/egress
- **Stops:** Obstructing travel to emergency
- **Driving:** Contact or near-miss with personnel or equipment
- **Driving:** Intrusion into SFFD operations
- **Driving:** Unpredictable operations near response zone
Q5: HOW DID INCIDENTS RESOLVE & HOW LONG DID IT TAKE?

Human traffic control provided by SFPD & SFMTA is essential to SFFD operations
Q5: How did incidents resolve & how long did it take?

Human eye contact, simple gestures & on-site conversation are much faster than AV substitutes

City & County of San Francisco: Driverless AV Safety and First Responders

August 7, 2023
Q5: HOW DID INCIDENTS RESOLVE & HOW LONG DID IT TAKE?

Cruise does not disclose the duration of unexpected stops; City records show incidents ranging from minutes to hours.

7. Please provide information on Cruise’s incident response timing between:

As noted, an MRC is a low-risk operating condition that the ADS automatically executes in certain non-nominal conditions. As Cruise uses the term, “MRC” refers to instances in which the vehicle can recover on its own or recover with remote assistance. That is, in-person human assistance is not required to recover from an MRC. As discussed in Question 5, in the event the AV cannot recover on its own or with remote assistance, the AV would need to be retrieved by a field service representative. We refer to such events as vehicle retrieval events (VREs).

[REDACTED]
AVs should respond to SFFD direction immediately

- Every second can make the difference between life or death
- A fire’s size can double in one minute
- Larger fires lead to > displacement
- “Time is muscle” in response to heart attacks
Driverless AVs are not ready to scale in San Francisco

- Fire personnel need to focus on our mission to save lives and protect property from catastrophic loss

- Current trends:
  - Increasing runs for both fire & medical response
  - Increasing interference from driverless operations will undermine already stretched resources

- Giving Cruise & Waymo authority to expand at their own discretion does not serve public safety
Section 4.1 Part 1 – 1:15 – 1:55 p.m.

Questions for Parties

1. How many times has a Cruise or Waymo driverless AV come to an unexpected stop in San Francisco?
2. What were the reasons for a Cruise or Waymo driverless AV to come to an unexpected stop in San Francisco?
3. Describe how remote operators interact with AVs in emergency situations, including actions remote operators are able to use to provide navigation aid to vehicles to move vehicles to locations that do not block traffic. If remote operators do not take control of the vehicle and perform the dynamic driving task in these situations, please describe why not, including technical and liability issues associated with remote control of AVs.
4. How many of the Cruise or Waymo driverless AV unexpected stops have impeded a San Francisco first responder from executing their duties, if any?
5. How were these unexpected stopped driverless AV situations resolved and how long did they take to be resolved?
6. Describe the testing protocol used by Cruise or Waymo to test that its AVs recognize an emergency situation.
Commissioner/ALJ Questions

1:55 to 2:05 p.m.
Section 4.1 Part 2 – 2:05 – 2:45 p.m.

Order of Speakers

A. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC
   Matthew Wood, Director of Software Engineering, Cruise LLC
   Greg Dieterich, General Manager of San Francisco Market, Cruise LLC (2:05-2:15 pm)

B. Rob Patrick, Manager, Emergency Response & Outreach, Waymo LLC (2:15-2:25 pm)

C. Darius Lutropp, Deputy Chief for Operations, San Francisco Fire Department
   Nicole Jones, Commander, San Francisco Police Department
   Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency (2:25-2:35 pm)

D. Jarvis Murray, For-Hire Transportation Administrator, LA Department of Transportation (2:35-2:45 pm)
Questions for Parties

7. How many times, if any, has Cruise or Waymo conducted training sessions for San Francisco first responders in dealing with unexpected stopped driverless AVs?

8. How many San Francisco first responders, if any, has Cruise or Waymo trained in dealing with unexpected stopped driverless AVs?

9. How long does each training last?

10. Does Cruise or Waymo update its training materials for first responders, and if so, how often?

11. How many training sessions, if any, does Cruise or Waymo have planned in the future?

12. How do first responders learn about the Cruise or Waymo training regarding dealing with unexpected stopped driverless AVs?
Cruise’s Law Enforcement Interaction Plan

Our Law Enforcement Interaction Plan is submitted and approved by the DMV and updated at least annually.

Table of Contents for Law Enforcement and First Responders Guide

Section One: The Cruise Autonomous Vehicle
- Identifying the Cruise AV
- Inside the Cruise AV
- Vehicle Identification Information

Section Two: Communicating with the Cruise Team
- Contacting Cruise
- Cruise Incident Experts
- OnStar Emergency Assistance

Section Three: Incidents & Emergency Scenarios
- Responding to Non-Emergency Incidents
- Responding to an Emergency
- Approaching the AV - When a Cruise Representative is Present
- Approaching the AV - When a Cruise Representative is Not Present
- Determining Autonomous Mode
- Disengaging to Manual Mode
- Confirming Manual Mode
- Safely Moving the AV
- Towing
- Pushing
- Providing Emergency Assistance for Electric Vehicles
Cruise Trainings for First Responders
Cruise has hosted in-person trainings and created video trainings and materials for first responders.

Excerpt from Interacting with a Cruise Autonomous Vehicle: A Guide for First Responders
Waymo

All Party Meeting

Rob Patrick
Manager, Emergency Response & Outreach
August 7, 2023
Waymo Emergency Response & Outreach Team

Rob Patrick
Manager, Emergency Response & Outreach
Retired CHP Captain
32 Years of Law Enforcement Experience
Expertise
- Emergency Response
- Incident Management
- Investigations

Scott Campbell
First Responder Ambassador
Retired FBI Supervisor
31 Years of Law Enforcement Experience
Expertise
- Investigations
- Passenger/Cargo Security
- Interstate/International Ops

Arnold Hardy
First Responder Ambassador
Retired CHP Captain
28 Years of Law Enforcement Experience
Expertise
- Commercial Enforcement
- Chair, CVSA AV Committee
- Legislation

Jaeson White
First Responder Ambassador
Retired Chief of Police
34 Years of Law Enforcement Experience
Expertise
- Police Practices
- Incident Management
- Investigations

125 years combined first responder experience
2500

First Responders Trained

- 900+ SFPD/SFFD
- 100 + Training Sessions to date 6/23
- Sessions on calendar for 2023 = 40
First Responders

Waymo Emergency Response Guide and Law Enforcement Interaction Protocol

Waymo works closely with public safety officials to ensure the safe introduction of our technology. The instructional guides and video below provide information for first responders interacting with our vehicles. These materials supplement the overview of how we design, test, and validate our technology found in the Waymo Safety Report.

TRAINING
Jaguar I-PACE

Waymo autonomously driven Jaguar I-PACE
Emergency response guide and law enforcement interaction protocol

Jaguar I-PACE Waymo Emergency Response Guide and Law Enforcement Interaction Protocol (PDF)
Training Content

- Background and Waymo Mission
- Basic understanding of the technology
- Contrast between Advanced Driver Assistance Systems (ADAS) and Autonomous Vehicles
- What first responders can expect when they come into contact with one of our vehicles
- Passenger safety and emergency situations
- How the vehicle will react to emergency equipment (Lights & Siren)
- Where to locate documentation or get assistance
- Investigative follow-up & additional resources
- Extrication
- Power disconnect
- Fire considerations
- Q&A and hands on time with vehicles
SAN FRANCISCO FIRE D... 💥... @SFFDPIO

This past week dozens of our members got educated by @Waymo on how to respond to and address issues with their AV safely.

This is another example of how #SFFD works towards keeping you safer.
We actively engage first responders

<table>
<thead>
<tr>
<th>Training</th>
<th>Real-Time Communications</th>
<th>Ongoing Feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>2500 First Responders Trained</td>
<td>Real time communication with 911 Dispatch Centers (<a href="mailto:waymofrinfo@gmail.com">waymofrinfo@gmail.com</a>)</td>
<td>Development of new features, such as the QR code which facilitates rapid communication</td>
</tr>
<tr>
<td>100 Training Sessions this year in CA with 40+ on the calendar</td>
<td>Realtime communications between First Responders and Waymo’s operational response teams</td>
<td>Development of training adjustments, internal practices via first responder feedback</td>
</tr>
<tr>
<td>900+ First Responder trained at San Francisco PD/FD</td>
<td>In-car communication channels and our dedicated first responder line</td>
<td></td>
</tr>
<tr>
<td>Other agencies include CHP, SF Parks/University Police/US Park Police &amp; Rangers</td>
<td></td>
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</tbody>
</table>
Continuing our tradition of engagement

- Our Emergency Response & Outreach team will continue proactively training first responders in the communities where we operate.
- We’ll continue to provide trainings at the frequency and in the formats most useful to these key stakeholders.
- Waymo will continue updating our vehicle Emergency Response Guide and LEIP as we make further improvements to these processes and add new vehicle platforms.
CPUC Status Conference: Safety Issues Regarding Driverless AV Interactions with First Responders

PART 2: Training questions
Q7 - Q12: HOW MANY TRAINED; HOW DO FIRST RESPONDERS LEARN OF TRAINING?

Cruise & Waymo training for SFFD & SFPD needs improvement

Scheduling

- Included with scheduled in-service training

Challenges

- **Separate** training with no industry standard for Cruise, Waymo (soon Zoox) is burdensome
- **Content** of training does not address current problems
AVs need to be better trained for emergency response and other interactions

- Faster placement of geofencing exclusion zones /avoidance areas around emergency sites to prevent intrusion
- Better perception of caution tape, cones & wires
- Easier & faster communication to and from first responders & other road users
AVs need to be better trained to communicate more quickly and effectively in emergency response events.

Timely response to direction from human traffic control is essential:

- Special Events
- Motorcades
- Traffic Signal Outages
- Storm damage

Human traffic control officers cannot safely leave intersection to talk with remote advisors about just one vehicle.

WAYMO CARS BLOCK INTERSECTIONS NEAR PARADE
SAN FRANCISCO
AV remote advisors need to be better trained for emergency responder interactions

- In review of sample incidents, companies both cited errors by remote advisors
- Interactions between AVs and remote advisors take too much time
AV providers should be designing improvements with input & review from first responders

- Improvements should be workshops with & evaluated by emergency responders:
  - Human traffic control
  - Response to lights & sirens
  - Avoiding areas marked with caution tape
  - Methods for communicating to first responders

- AV companies, not taxpayers, should cover City costs for this process

- Recent discussions between City and Cruise & Waymo show the potential value of closer collaboration in achieving better AV performance around emergency responders
ALERTSF: Avoid the area of Octavia St and Oak St due to fire activity. Emergency crews are on scene.

ALERTSF: The incident in the area of Waller St. and Fillmore St. has been RESOLVED.

ALERTSF: Extreme wind has caused major traffic and transit delays. Use caution while driving & prepare for power outages.

Section 4.2 question: How quickly should AV disruptions be resolved? They should be avoided or resolved immediately.

City tools that may support AV industry improvement.
### Work Zone Data Exchange (WZDx) Feed
- Announces upcoming & current permitted street closures due to the Shared Spaces program
- Announces some special event & construction related permits issued by SFMTA
- Uses WZDx industry standard sponsored by USDOT

### Navigation Service Provider Support
- Regular SFMTA emails announce major street changes to navigation & transportation providers (e.g., Google & Apple Maps, Uber, Lyft, Waymo, Cruise, & Zoox)
- Real time transit updates @ [https://twitter.com/sfmta_muni](https://twitter.com/sfmta_muni) & [SFMTA.com/Updates](https://SFMTA.com/Updates)
- Weekly press releases announce street closures for special events, supplemental transit services, additional passenger loading zones, construction updates

### Digital Curb Project
- SFMTA will create & maintain a citywide dataset on all curb locations & regulations
- Will make data available via the standard Curb Data Specification
- Funded by USDOT: 2023
- Expected completion: 2025
- Facilitated in coordination with other cities by Open Mobility Foundation

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**City tools could support AV industry improvement**

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Section 4.2 question: How quickly should AV disruptions be resolved?

City tools could support AV industry improvement
San Francisco’s open data portal, DataSF.org contains numerous data sets about San Francisco streets

- 20+ datasets about SF streets
  - Temporary Street Closures
  - School crossing guard locations
  - Muni routes and stops
  - Bike lane network
  - High-injury network
- Data can be downloaded or obtained from the portal via an API
- Update frequency varies

City tools could support AV industry improvement

Section 4.2 question: How quickly should AV disruptions be resolved?
Section 4.1 Part 2 – 2:05 – 2:45 p.m.

Questions for Parties

7. How many times, if any, has Cruise or Waymo conducted training sessions for San Francisco first responders in dealing with unexpected stopped driverless AVs?

8. How many San Francisco first responders, if any, has Cruise or Waymo trained in dealing with unexpected stopped driverless AVs?

9. How long does each training last?

10. Does Cruise or Waymo update its training materials for first responders, and if so, how often?

11. How many training sessions, if any, does Cruise or Waymo have planned in the future?

12. How do first responders learn about the Cruise or Waymo training regarding dealing with unexpected stopped driverless AVs?
Commissioner/ALJ Questions

2:45 to 2:55 p.m.
10-Minute Break

2:55 to 3:05 p.m.
Section 4.2 – 3:05 – 3:35 p.m.

Order of Speakers
A. Darius Luttropp, Deputy Chief for Operations, San Francisco Fire Department
   Nicole Jones, Commander, San Francisco Police Department
   Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency (3:05-3:08 pm)
B. Jarvis Murray, For-Hire Transportation Administrator, Los Angeles Department of Transportation (3:08-3:11 pm)
C. Kristofer Kusano, Staff Safety Research Engineer, Waymo LLC (3:11-3:14 pm)
D. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC
   Matthew Wood, Director of Software Engineering, Cruise LLC
   Greg Dieterich, General Manager of San Francisco Market, Cruise LLC (3:14-3:17 pm)
E. Mark Gruberg, Board Member, San Francisco Taxi Workers Alliance (3:17-3:20 pm)
F. Peter Leroe-Muñoz, General Counsel, Silicon Valley Leadership Group (3:20-3:23 pm)
G. Sharon Giovinazzo, CEO, Lighthouse for the Blind and Visually Impaired (3:23-3:26 pm)
H. Ariel Wolf, Counsel, Autonomous Vehicle Industry Association (3:26-3:29 pm)
I. Cory Hohs, CEO, HAAS Alert (3:29-3:32 pm)
J. Dylan Hoffman, Executive Director for California and the Southwest, Technet (3:32-3:35 pm)
Section 4.2 – 3:05 – 3:35 p.m.

Question for Parties

1. In a circumstance where a first responder is responding to an emergency (police, fire, medical) and an AV is blocking the way, how should this situation be resolved and how quickly?
PART 3: How should AV interference be resolved and how quickly?
AVs should respond to SFFD direction immediately

- Every second can make the difference between life or death
- A fire’s size can double in one minute
- Larger fires lead to > displacement
- “Time is muscle” in response to heart attacks
CVC = California Vehicle Code

CVC Section 21806 requires a motor vehicle to yield the right of way to an emergency vehicle approaching with lights & sirens
  • Human driver must pay $490 fine and receives a point on their license
  • Violations should also affect AV permittee privilege of operating

CVC Section 22500 prohibits stopping, parking or leaving standing any vehicle, attended or unattended in an intersection, on a crosswalk and within 15 feet of a fire station driveway

CVC Section 21708 prohibits driving on, over or across or in any manner damaging any fire hose under the supervision of a fire department
Section 4.2 – 3:05 – 3:35 p.m.

Question for Parties

1. In a circumstance where a first responder is responding to an emergency (police, fire, medical) and an AV is blocking the way, how should this situation be resolved and how quickly?
CAUTION

Emergency Vehicle Approaching

Please slow down and move over

OK  CANCEL
We are here

Vehicle alerting (Golden Gate ave)

We are here
Section 4.2 – 3:05 – 3:35 p.m.

Question for Parties

1. In a circumstance where a first responder is responding to an emergency (police, fire, medical) and an AV is blocking the way, how should this situation be resolved and how quickly?
Section 4.3 Questions 1 and 2 – 3:35 – 3:41 p.m.

Order of Speakers
A. Darius Luttropp, Deputy Chief for Operations, San Francisco Fire Department
   Nicole Jones, Commander, San Francisco Police Department
   Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency (3:35-3:38 pm)
B. Jarvis Murray, For-Hire Transportation Administrator, Los Angeles Department of Transportation (3:38-3:41 pm)
Section 4.3 Questions 1 and 2 – 3:35 – 3:41 p.m.

Questions for Parties

1. The Commission has heard from first responders that from their perspective the Passenger Safety Plans (PSPs) filed by the AV companies have gaps when dealing with emergency and catastrophic situations. For first responders, please describe gaps in AV companies’ Passenger Safety Plans with regard to protecting passengers and the public during emergency situations.

2. How quickly do first responders need to be able to communicate with AVs in such emergency and catastrophic situations?
PART 4: Gaps in passenger safety plans (4.3)
Gaps of greatest concern are those between aspirational statements in plans & actual performance on the street

- These gaps require stronger regulation
- Commission should
  - measure performance
  - authorize expansion incrementally
  - Based on applicant performance
California regulators collect no data documenting the frequency or impacts of these incidents.
Section 4.3 Questions 1 and 2 – 3:35 – 3:41 p.m.

Questions for Parties
1. The Commission has heard from first responders that from their perspective the Passenger Safety Plans (PSPs) filed by the AV companies have gaps when dealing with emergency and catastrophic situations. For first responders, please describe gaps in AV companies’ Passenger Safety Plans with regard to protecting passengers and the public during emergency situations.
2. How quickly do first responders need to be able to communicate with AVs in such emergency and catastrophic situations?
Section 4.3 Question 3 – 3:41 – 3:47 p.m.

Order of Speakers

A. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC
   Matthew Wood, Director of Software Engineering, Cruise LLC (3:41-3:44 pm)
B. Rob Patrick, Manager, Emergency Response & Outreach, Waymo LLC
   Mari Davidson, Managing Counsel, Waymo LLC (3:44-3:47 pm)
Section 4.3 Question 3 – 3:41 – 3:47 p.m.

Question for Parties
3. For Cruise and Waymo, please respond to the comments that we’ve received from first responders on this issue.
Section 4.3 Questions 4 and 5 – 3:47 – 4:17 p.m.

Order of Speakers
A. Mari Davidson, Managing Counsel, Waymo LLC (3:47-3:50 pm)
B. Prashanthi Rao Raman, Vice President of Global Government Affairs, Cruise LLC
   Matthew Wood, Director of Software Engineering, Cruise LLC
   Greg Dieterich, General Manager of San Francisco Market, Cruise LLC (3:50-3:53 pm)
C. Darius Luttropp, Deputy Chief for Operations, San Francisco Fire Department
   Nicole Jones, Commander, San Francisco Police Department
   Julia Friedlander, Senior Manager, Automated Driving Policy, San Francisco Municipal Transportation Agency
   (3:53-3:56 pm)
D. Jarvis Murray, For-Hire Transportation Administrator, Los Angeles Department of Transportation (3:56-3:59 pm)
E. Dylan Hoffman, Executive Director for California and the Southwest, Technet (3:59-4:02 pm)
F. Ariel Wolf, Counsel, Autonomous Vehicle Industry Association (4:02-4:05 pm)
G. Mark Gruberg, Board Member, San Francisco Taxi Workers Alliance (4:05-4:08 pm)
H. Peter Leroe-Muñoz, General Counsel, Silicon Valley Leadership Group (4:08-4:11 pm)
I. Sharon Giovinazzo, CEO, Lighthouse for the Blind and Visually Impaired (4:11-4:14 pm)
J. Cory Hohs, CEO, HAAS Alert (4:14-4:17 pm)
Questions for Parties

4. To the parties, please suggest solutions that can be implemented to address identified gaps in the PSPs. How quickly do first responders need to be able to communicate with AVs in such emergency and catastrophic situations?

5. The Los Angeles Department of Transportation has recommended in comments that AV companies in the city of Los Angeles use the Mobility Data Specification system now required for scooters and soon to be required for taxi cabs to immediately communicate to AV companies real-time and fluid traffic data such as special events and road closures. Are tools like this an option for enhancing safety and improving the ability of AV passenger services to identify safety hazards to protect passengers?
PART 5: Solutions for gaps; use of Mobility Data Specification (MDS)
Role for Mobility Data Specification (MDS)

- **Background:** MDS created by LA & other cities to define data fields & data transmission to manage transportation services in the public right of way
  - Open Mobility Foundation manages MDS for public & private users
  - **Use:** Some cities use for real time device management; others for routine reporting
  - MDS 2.0 recently added data fields for motor vehicle passenger services
  - MDS 3.0 could incorporate new data fields for AV passenger services
- **Purpose:** facilitates data exchange for right of way management that provide standard data collection so that companies offering shared mobility in many markets can use standard approaches
- **SF Position:** San Francisco supports using data standards jointly developed by public & private sectors to facilitate safe street operations
California regulations set no standards to limit these incidents or reduce their impacts on safety & first responders
Conclusion

- Current impacts of driverless operations on first responders should preclude unlimited expansion:
  - of fleet size
  - of hours of service into peak travel hours
- Commission actions should create level playing field on which operators compete to improve impacts on public, not just convenience for users
- Cruise & Waymo should demonstrate, through data available to the public, ability to avoid or minimize interference with emergency responders before expansion approval
Thank you
CPUC LADOT Comments
Jarvis Murray, Esq.
August 7, 2023
How Two-Way Communication Benefits Communities

Saturation

Sunday, May 5 @ noon

Digital Policy

Sunday, Sept. 16 @ noon

Outcome

MyLA311 Service Requests in Venice, March 2019 - December 2019
Example: Outcome-Based Digital Policy (Micromobility in LA)

Hollywood Boulevard pre-policy

Hollywood Boulevard with policy
2019 Getty WildFire: Lessons Learned

Los Angeles Times

Getty fire off 405 Freeway in L.A. destroys several homes; thousands flee

BY HANNAH FRY, BRITTNY MEJIA, MATTHEW ORNSTEIN, LOUIS SAHAGUN, RUBEN VIVES
OCT. 28, 2019 6:25 PM PT

Warnings and evacuation orders for the Getty fire. (Los Angeles Times)
2019 Getty WildFire: Lessons Learned
Special Events in Los Angeles

The City of Los Angeles hosts over 150 large special events annually. This includes the LA Marathon, LA Triathlon, CicLAvia, The Academy Awards, and large scale events such as the Summits of the Americas and 2028 Olympic and Paralympic games. Information sharing with mobility service providers and cities is critical to ensure our streets remain safe to all.
Questions for Parties

4. To the parties, please suggest solutions that can be implemented to address identified gaps in the PSPs. How quickly do first responders need to be able to communicate with AVs in such emergency and catastrophic situations?

5. The Los Angeles Department of Transportation has recommended in comments that AV companies in the city of Los Angeles use the Mobility Data Specification system now required for scooters and soon to be required for taxi cabs to immediately communicate to AV companies real-time and fluid traffic data such as special events and road closures. Are tools like this an option for enhancing safety and improving the ability of AV passenger services to identify safety hazards to protect passengers?
Car stopped
0.4 mi. away
N Milwaukee Ave, Chicago
Fire truck on scene

3 min ago by HAAS Alert
We are here

Vehicle alerting (Golden Gate ave)

We are here
Commissioner/ALJ Questions

4:17 to 4:27 p.m.
Public Comment

4:27 to 4:57 p.m.
Closing Remarks and Meeting Adjournment

4:57 to 5:00 p.m.