Automated Speed

Enforcement

Project Update, Locations & Timeline

Craig Raphael Speed Safety Program Project Manager Department of Transportation (OakDOT)



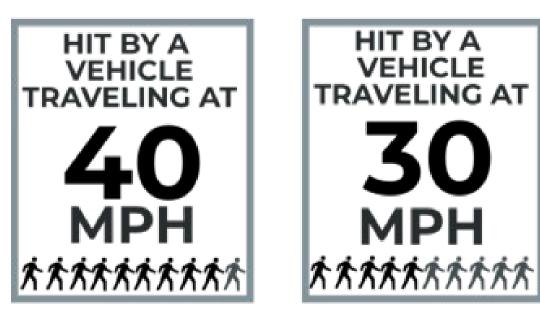


Higher speeds are more deadly

SPEEDING IS A PRIMARY FACTOR IN TRAFFIC VIOLENCE



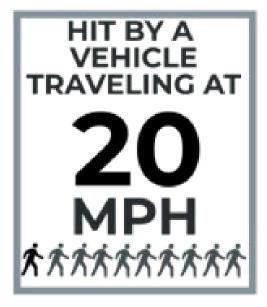
1 in 4 Oaklanders killed are involved in a crash where speed is a primary factor



9 out of 10 pedestrians are killed



SPEED IS ESPECIALLY **DEADLY FOR PEDESTRIANS**



5 out of 10 pedestrians are killed

1 out of 10 pedestrians are killed

AB 645: Speed Safety Pilot Authorization

- Authorizes local departments of transportation (not police departments) in six cities to establish a speed safety program (Oakland, SF, LA, San Jose, Glendale, Long Beach)
- Establishes a 5-year pilot through 1/1/2032
- The number of cameras is limited based on the city's population: Oakland gets 18 camera systems
- Any excess revenue beyond cost of program operations must be reinvested into traffic calming and spent within 3 years of collection

Speed Penalties

Type of penalty

Penalty Issued to

Warning period

AB 645 Establishes:

-	11-15 MPH over: \$50 16-25 MPH over: \$100
5	26+ MPH over: \$200
	Civil penalty (not moving violation)
	Owner of vehicle (not driver)
	First 60 days: no-fee warnings





Equity Provisions in AB 645

- Citations are civil penalties (non-moving violations) no impact to • insurance or points on license
- Must offer a diversion program, ticket fee reductions between 50% to 80%, and payment plan options for low-income populations
- Flexibility & Warnings: 1-10 mph doesn't get a ticket; camera • locations must have signs posted; 60-day warning period
- Must conduct racial and economic equity impact analysis as part of pilot program evaluation





Speed Violation Fine Structure

Speed Violation AB 645	Fine	Indigent (according to state definition)	200% above poverty level
0-10 mph	\$O	\$O	\$O
11-15 mph	\$50	\$10	\$25
16-25 mph	\$100	\$20	\$50
26 mph and over	\$200	\$40	\$100
Speed greater than 100 mph	\$500	\$100	\$250

Speed Safety Systems Reduce Speeding & Injuries

Speed Reductions

Portland, OR 94%

Decrease in cars going >10MPH over speed limit*

Washington DC



Decrease in cars going >10MPH over speed limit**

Montgomery County, MD

64%

Decrease in cars going >10MPH over speed limit***

*PDOT study. Defined as 11 mph or more over the speed limit based on four corridors where PBOT had speed safety cameras installed. See https://www.portland.gov/transportation/news/2023/10/5/pbot-begins-installing-new-safety-cameras-across-portland-milestone?utm_medium=email&utm_source=govdelivery

**Transportation Research Board. As observed at seven sites selected randomly from 60 targeted enforcement zones in Washington DC. See <u>https://journals.sagepub.com/doi/abs/10.3141/1830-05?journalCode=trra</u>

***Hu, W., & McCartt, A. T. (2016). Effects of automated speed enforcement in Montgomery County, Maryland, on vehicle speeds, public opinion, and crashes. *Traffic Injury Prevention*, *17*(sup1), 53–58. https://doi.org/10.1080/15389588.2016.1189076 *UIC Chicago. Translated into 36 fewer fatal and severe-injury crashes, 68 fewer moderate injury crashes, and 100 fewer minor-injury crashes over a two-year period. See <u>https://www.chicago.gov/content/dam/city/depts/cdot/Red%20Light%20Cameras/2022/Sutton+</u> <u>Tilahun_Chicago-Camera-Ticket_Exec%20Summary-Final-Jan10.pdf</u> **USDOT, ITS Joint Program Office. See <u>https://www.itskrs.its.dot.gov/2021-b01580</u> ***Li, R., El-Basyouny, K., & Kim, A. (2015). Before-and-After Empirical Bayes Evaluation of Automated Mobile Speed Enforcement on Urban Arterial Roads. Transportation Research Record, 2516(1), 44-52. <u>https://doi-org.libproxy.berkeley.edu/10.3141/2516-07</u>

Injury Reductions

Edmonton, AB (Canada)



Decrease in fatal and severe injury crashes***

New York City



Reduction in total injuries**

Chicago, IL



Decrease in fatal and severe injury crashes*

What types of cameras does Oakland utilize for public safety?

Camera Type	Purpose	Who owns/ Administers	Where/ How many	Status
Speed safety cameras authorized under AB 645	To slow speeding vehicles and improve traffic safety. Can only photograph rear license plates.	City of Oakland Department of Transportation (OakDOT)	18 locations, citywide	Not yet installed; anticipated second half of 2025
Automated license plate readers (ALPR) - Law Enforcement	To aid in criminal investigations related to stolen vehicles and violent crimes, including assault, human trafficking, robbery, and homicide	California Highway Patrol	290 at fixed locations only	New FLOCK system being installed soon. (OPD's older ALPR technology is currently deactivated due to outdated technology and non-conformance with the City's Surveillance Ordinance Policy)
ALPR – Parking Enforcement and Management	To aid in enforcement of parking rules and issuance of parking- related citations	OakDOT	Mounted to parking enforcement vehicles	Currently in use
Video detection for traffic signal operations (actuation)To support traffic signal operations, i.e. to detect when a car is waiting to turn left on a dedicated phase		OakDOT	Many throughout Oakland at traffic signals	Currently in use
Cameras along International Boulevard at Tempo Bus Rapid Transit (BRT) Stations	Monitor public activity and crime at transit stations	AC Transit	At Tempo stations along International Boulevard	Currently in use
Illegal dumping cameras	To monitor illegal dumping at known hotspot locations	Oakland Public Works	10 cameras	Currently in use

Speed Camera Impact Report

State Law Specification	OakDOT Draft Impact
What is the purpose of the system?	To enforce speed limits speeds
How does the system work?	Fixed camera system v violations, mailed notic fines
How much will this cost, and where is the money coming from?	OakDOT Operating Bu of staff labor and contr annually
How will this program affect civil rights, and how will those rights be safeguarded?	 Minimal (or positive) in Unbiased enforcement discrimination; focus the collection of pers



Report

ts 24/7 at 18 locations to slow vehicle

with radar to detect speeding ces of violation with messaging and

udget will fund the program, the cost ract could be up to \$1.7 million

mpacts to civil rights: ent reduces exposure to s on license plate number minimizes sonally identifiable information





Privacy Provisions & System Use Policy

State Law Specification	OakDOT Draft System Use Pol
What data is collected?	Rear license plate images for sp vehicles only. No video or facial allowed.
Who can access the data?	Individuals in authorized City of classifications and those employ camera vendor (only on a need- basis)
Who is the data shared with?	No one outside of OakDOT (with order)
Where is the data stored?	Locally & on SAAS platform
How will data be kept secure?	Logging access to ASE system o logins with MFA
How long will the data be retained?	Up to 120 days to comply with A requirements



licy

peeding recognition

of Oakland job byed by the l-to-know

hout a court

data, requiring

AB 645

Where can the 18 Cameras Go?

State Law Specification	OakDOT's Resp
Cameras shall be located on a high-injury street, a school zone street, or a street with documented speed racing	All cameras will network; severa in locations with
Cameras cannot be located on state highways, freeways or expressways	All cameras will streets (exclude International ar Caltrans)
Cameras should be located in areas that are "geographically and socioeconomically diverse"	Camera location Oakland, with a district
To keep a camera location after 18 months, there must be measurable reductions in speeding behavior	Camera location with vehicle spe speed limit



ponse

I be located on the **high-injury** ral will be adjacent to schools and h speed-related collisions

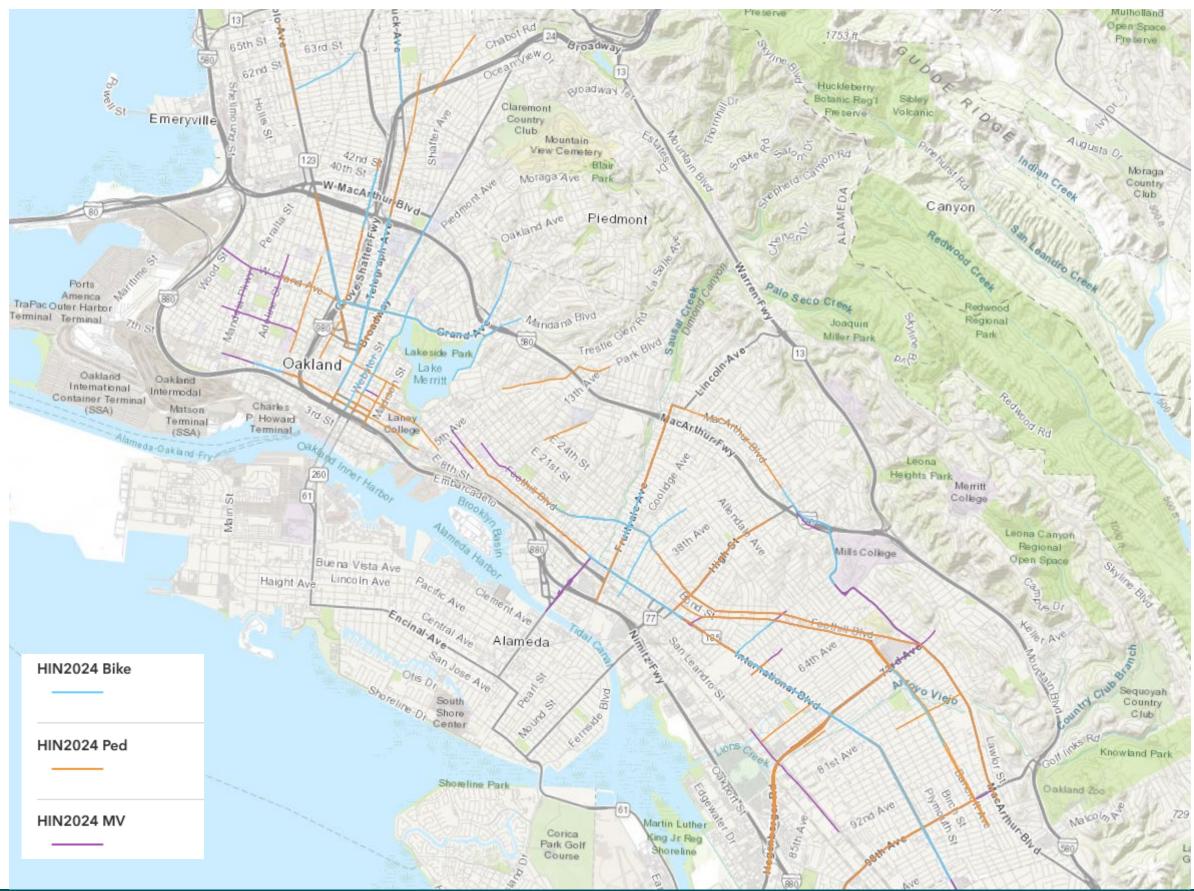
I be located on **city-owned** les freeways and segments of nd San Pablo Blvd owned by

ons will be **spread throughout** at least 1 camera per City Council

ons will be prioritized in locations eeds exceeding 10 MPH over the

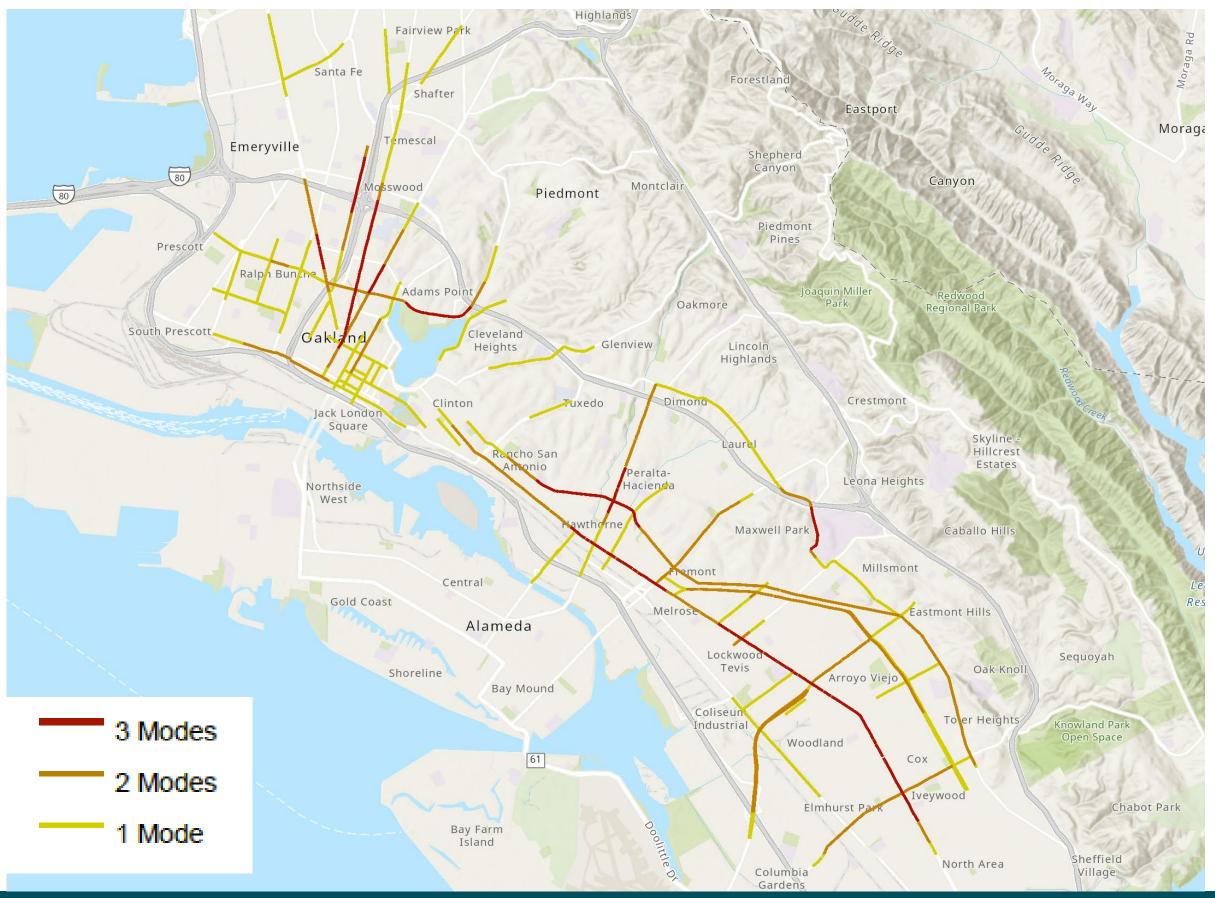


OakDOT 2024 Updated High Injury Network

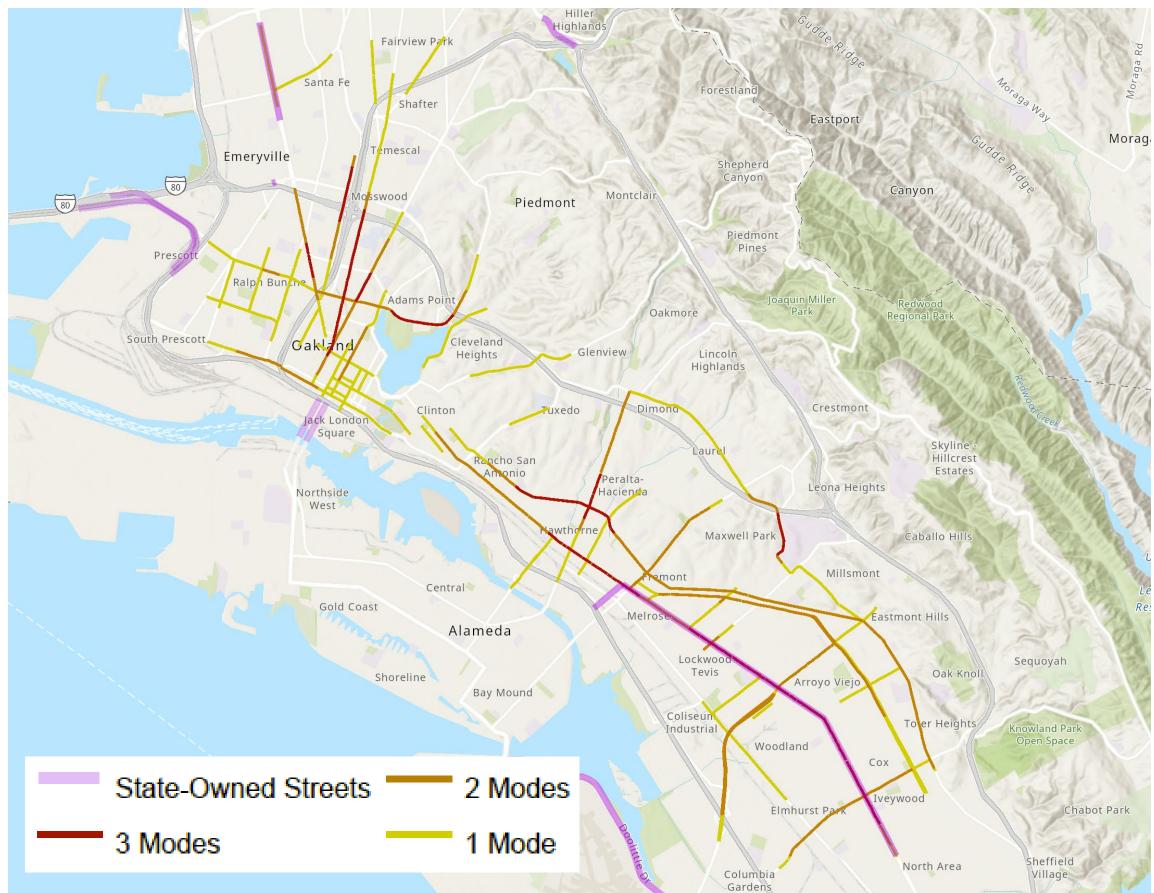


https://www.oaklandca .gov/resources/highinjury-network-2024

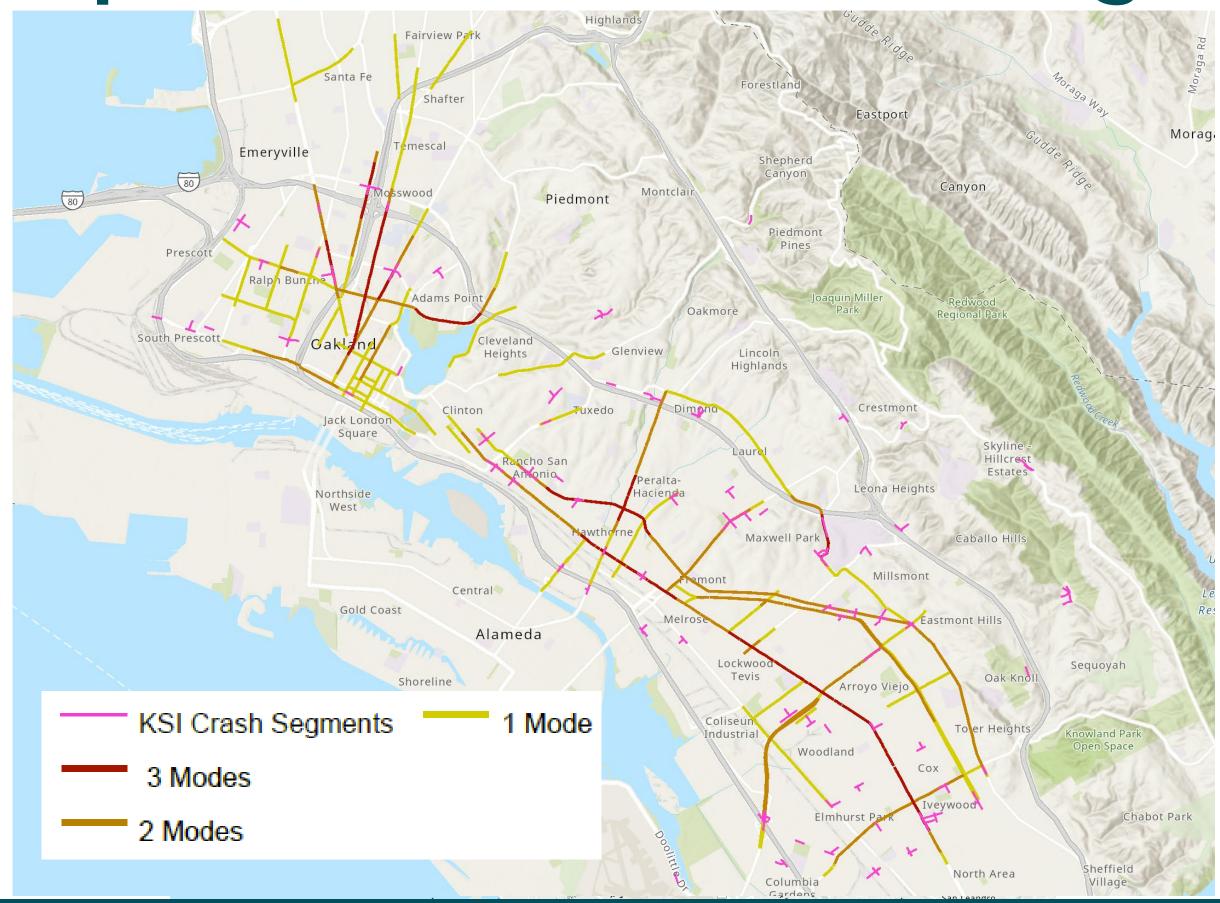
OakDOT 2024 Updated High Injury Network



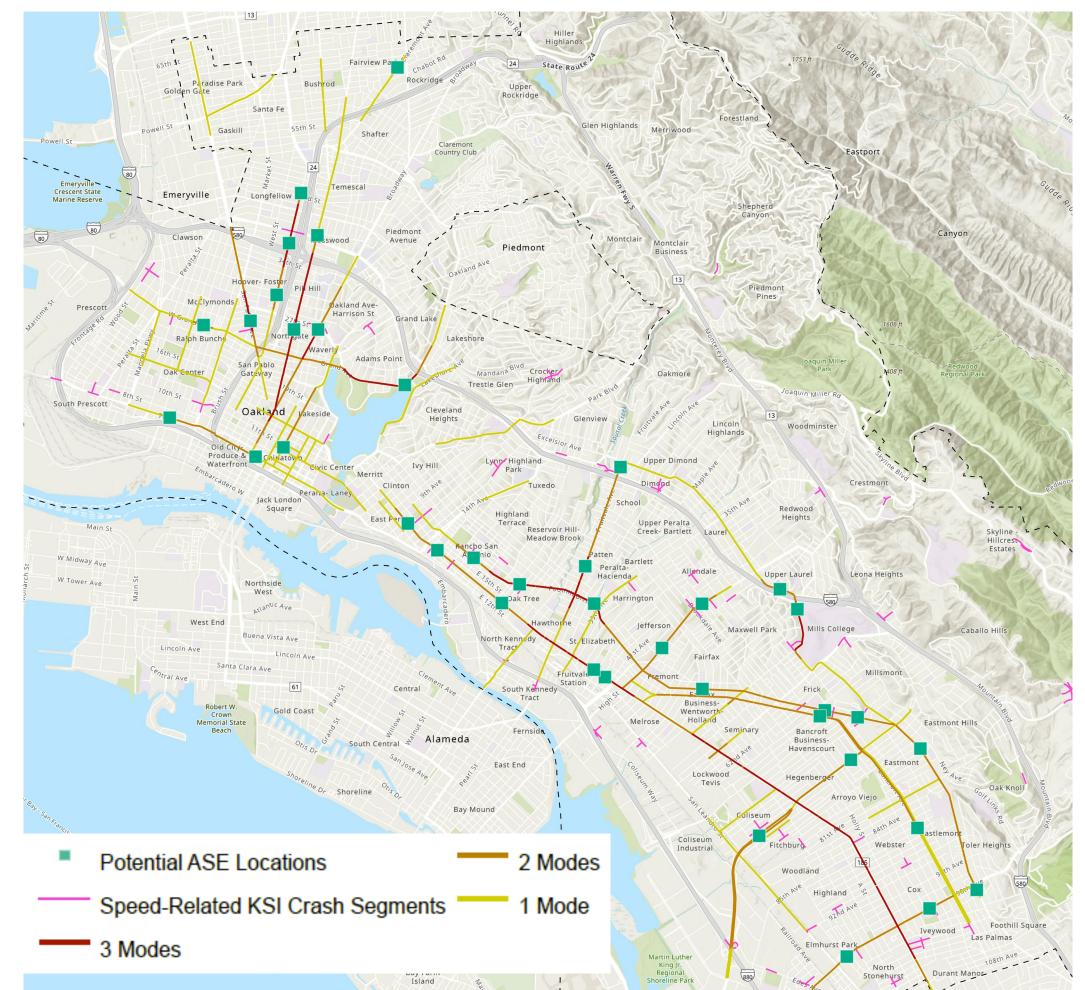
2024 HIN & State-Owned Streets



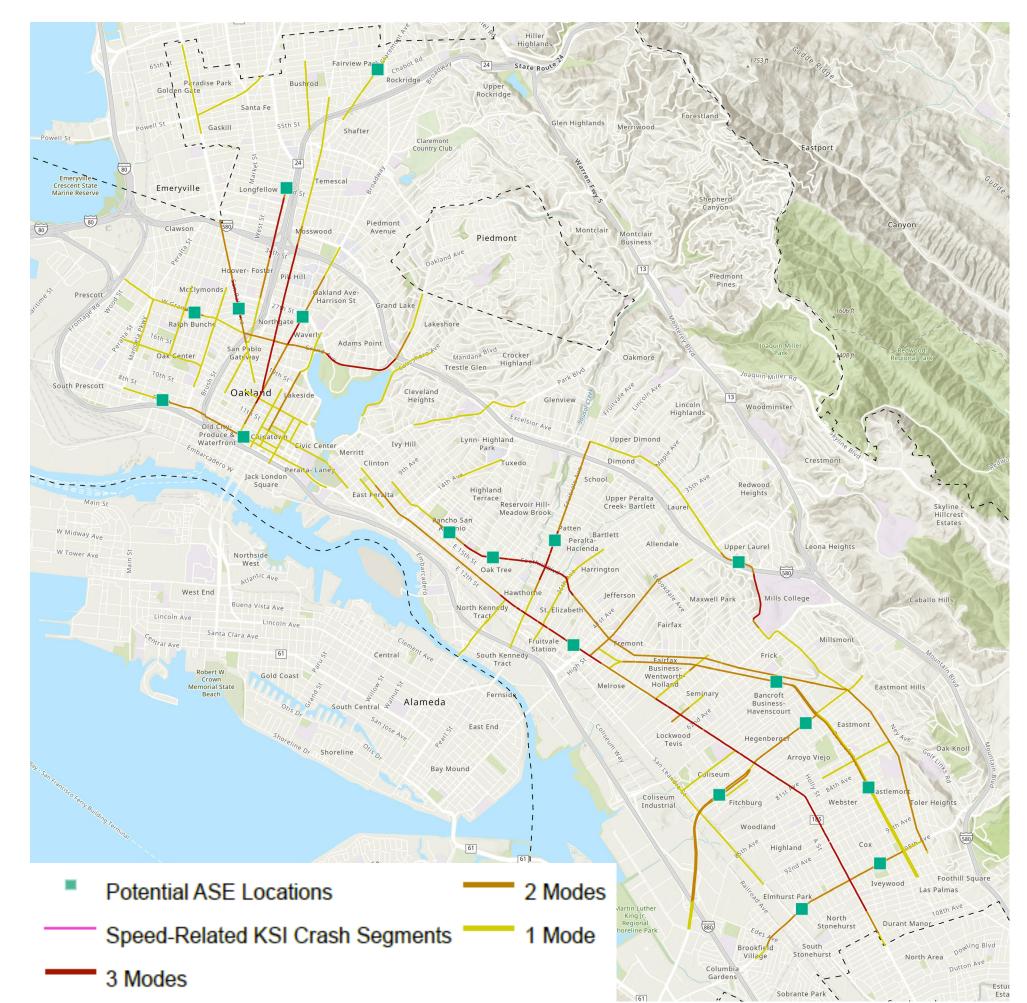
2024 Speed-Related KSI Crash Segments



Shortlist Speed Camera Locations (~40) & Speed-Related KSI Crash Segments



Proposed Speed Camera Locations (18) and HIN



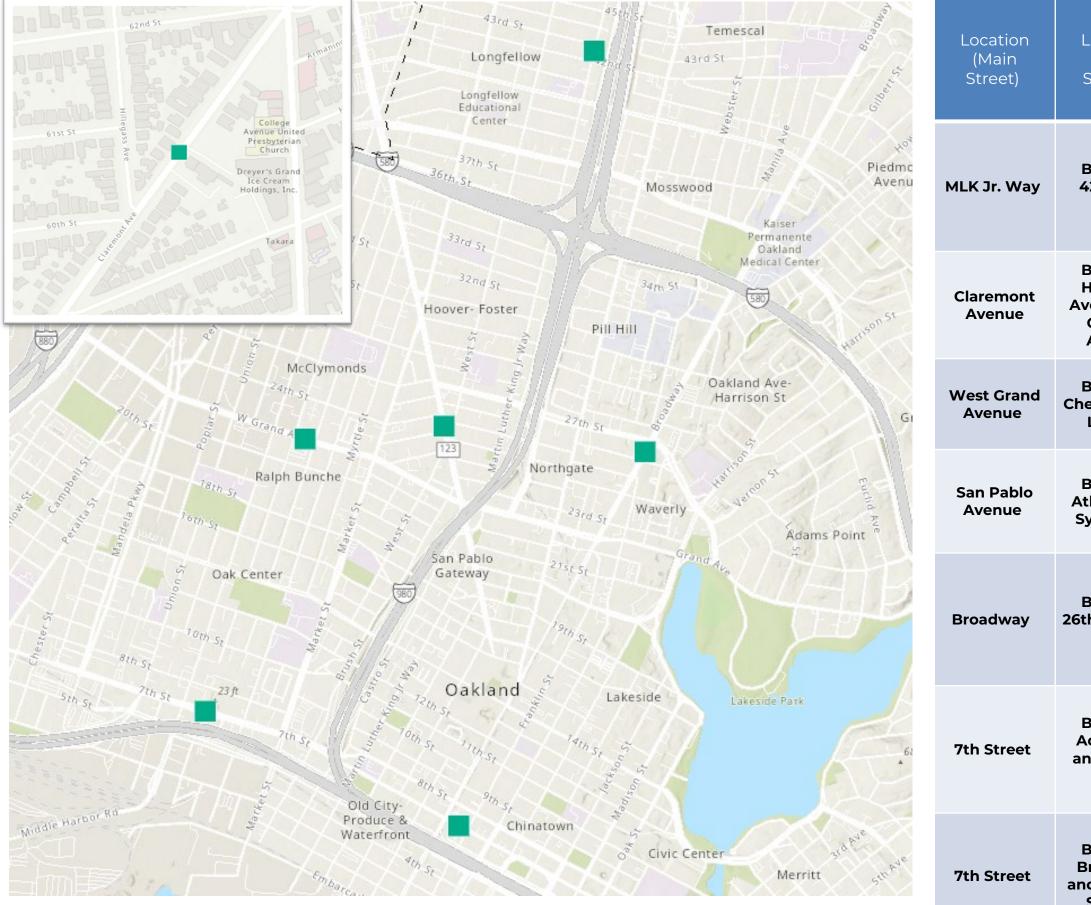
Speed Camera Locations by Planning Area & Council District

Planning Area	Number of Cameras
West Oakland	3
North Oakland/Adams Point	3
Downtown]
Eastlake/Fruitvale	4
Glenview/Redwood Heights	1
Central East Oakland	6
East Oakland Hills	0
North Oakland Hills	0
Coliseum/Airport	0
Total	18

Council District	Number of Cameras
1	2
2	3
3	4
4	1
5	2
6	2
7	4
TOTAL	18

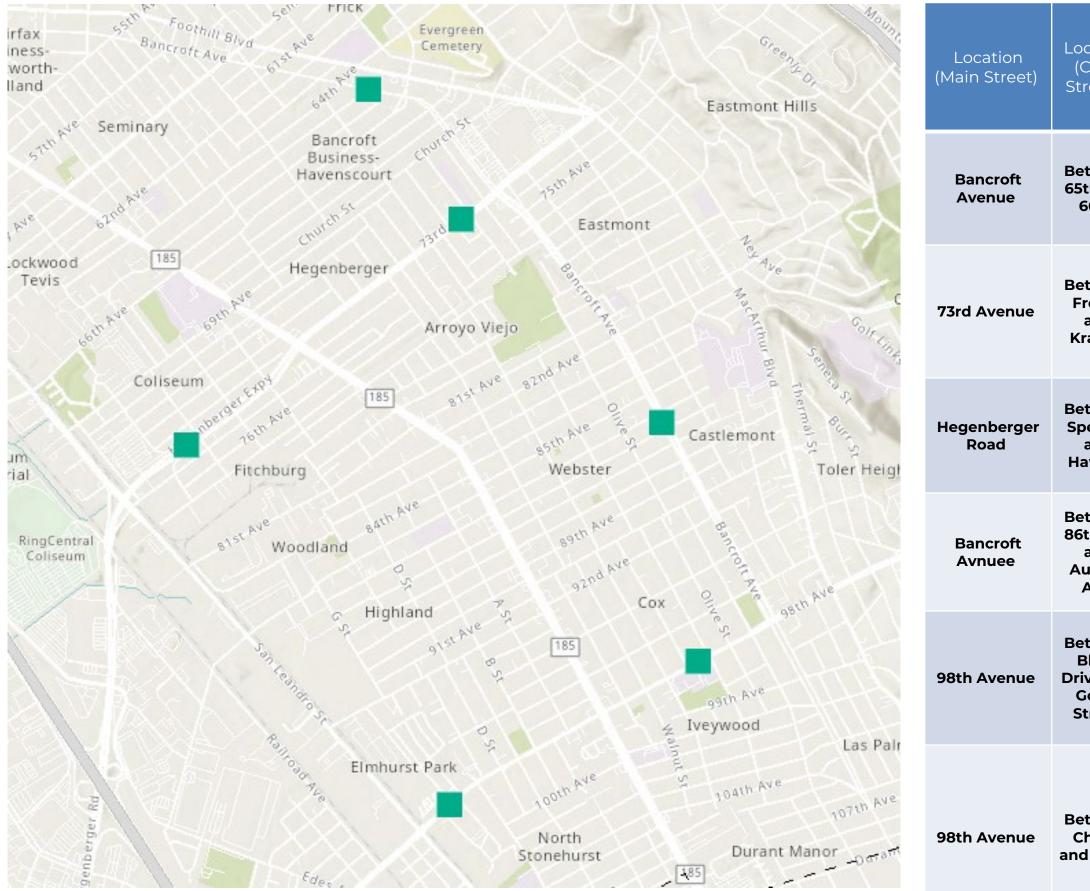


Proposed Speed Camera Locations (Downtown, West and North Oakland)



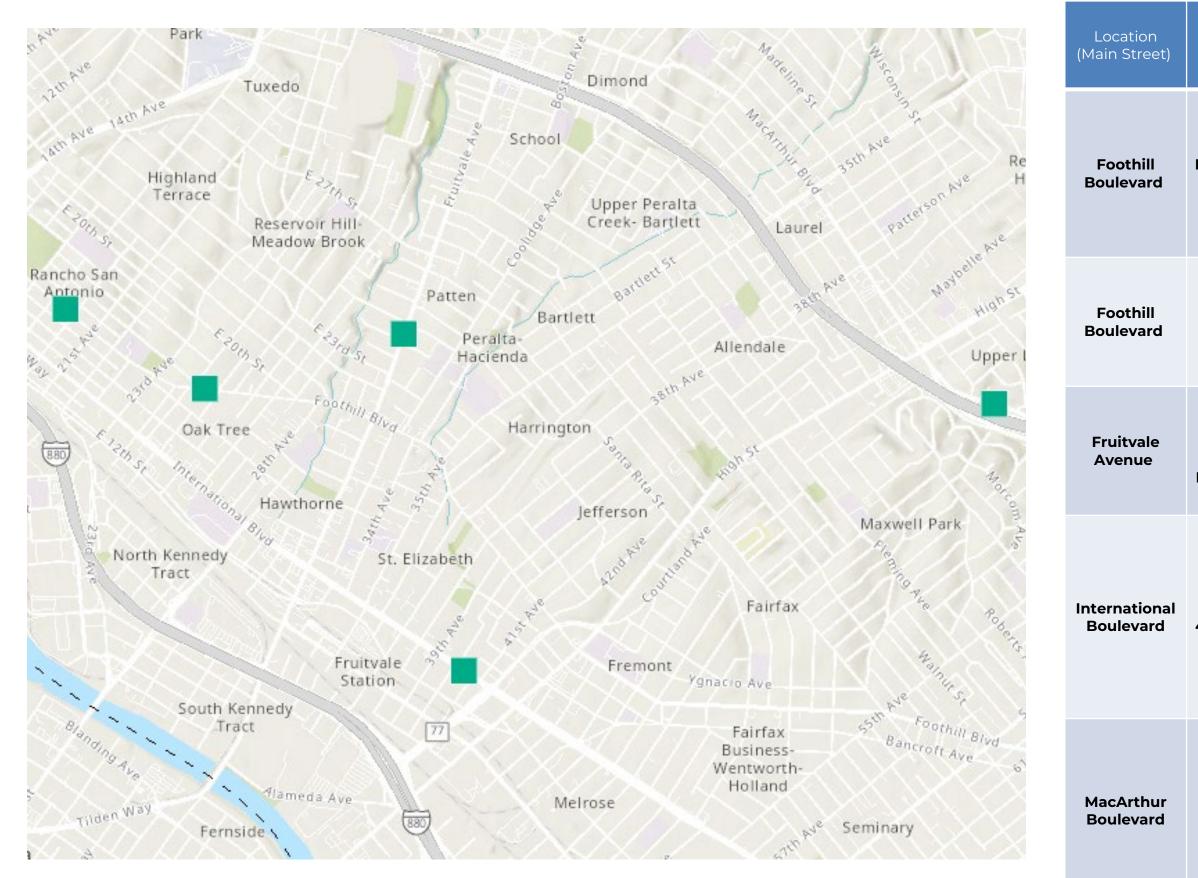
Location (Cross Streets)	Speed Limit	85th Percentile Speed	Number of Daily Vehicles >10 MPH Over Posted Limit	% of Daily Vehicles > 10 MPH Over Posted Limit	Additional Reasoning for ASE
Between 42nd and 43rd	30 MPH	37 MPH	540	7.43%	High observed speeds with two travel lanes in each direction; uncontrolled crosswalks
Between Hillegass Venue and College Avenue	30 MPH	37 MPH	636	5.8%	Vehicles speeding to and from SR 24; new addition (2024) to High Injury Network
Between hestnut and Linden	30 MPH	39 MPH	1538	11.7%	High observed speeds from vehicles traveling to and from freeways; preschool on block
Between Athens and Sycamore	ns and 25 MPH 32 MPH		585	6.72%	Concentration of speed related injury collisions; uncontrolled crosswalks
Between 5th and 27th St	20 MPH	27 MPH	1136	9.20%	Concentration of speed related injury collisions; concentration of pedestrians on Broadway commercial corridor
Between Adeline St and Linden St	30 MPH	39 MPH	1760	14.6%	Speeding from vehicles traveling to and from freeways; uncontrolled crossings; proximity to As-Salam Mosque
Between Broadway nd Franklin Streets	20 MPH	27 MPH	662	5.2%	Concentration of seniors, children, pedestrians in Chinatown

Shortlist Speed Camera Locations (East/Deep East Oakland)



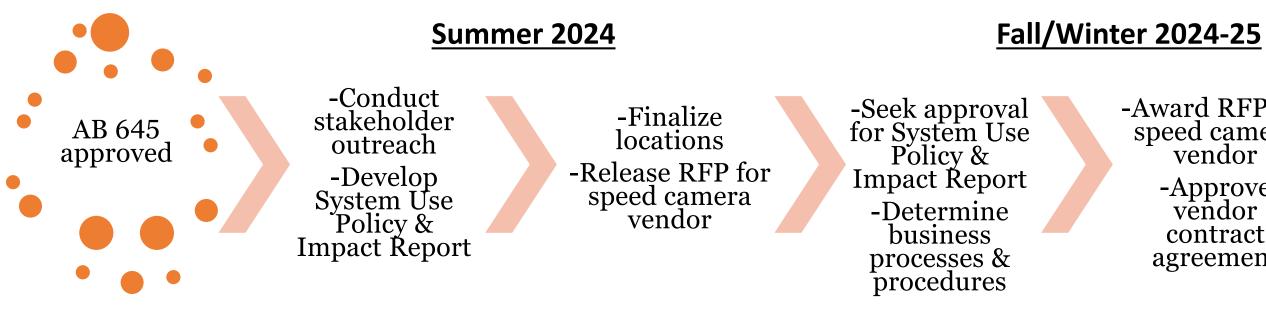
ocation (Cross treets)	Speed Limit	85th Percentile Speed	Number of Daily Vehicles >10 MPH Over Posted Limit	% of Daily Vehicles > 10 MPH Over Posted Limit	Additional Reasoning for ASE
etween 5th and 66th	30 MPH	34 MPH	266	2.90%	Uncontrolled crosswalks; proximity to schools, churches
etween Fresno and (rause	35 MPH	41 MPH	1514	6.2%	High observed speed from vehicles adjacent to Markham Elementary and Eastmont Transit Center
etween pencer and lawley	40 MPH	57 MPH	10029	43%	Freeway-like segment with four travel lanes in each direction; proximity to speed-related injury collisions
etween 6th Ave and Juseon Ave	30 MPH	38 MPH	1247	8.10%	Uncontrolled crosswalks; proximity to schools, churches
etween Blake rive and Gould Street	30 MPH	37 MPH	1340	6.6%	Proximity to speed related injury collisions; speeding observed from vehicles traveling to and from I-880
etween Cherry d Birch	30 MPH	34 MPH	469	3.10%	Adjacent to Elmhurst United Middle School; proximity to speed related injury collisions

Proposed Speed Camera Locations (Fruitvale, San Antonio, Laurel)



Location (Cross Streets)	Speed Limit	85th Percentile Speed	Number of Daily Vehicles >10 MPH Over Posted Limit	% of Daily Vehicles > 10 MPH Over Posted Limit	Additional Reasoning for ASE
Between 19th and 20th	30 MPH	33 MPH	203	2.8%	Proximity to speed related collisions; uncontrolled crosswalks; proximity to San Antonio Recreation Area
Between Irving and 24th	25 MPH	29 MPH	252	2.87%	Proximity to speed related collisions; uncontrolled crosswalks
Between Galindo Street and Logan Street	25 MPH	30 MPH	458	3.60%	Uncontrolled crosswalks; proximity to schools, churches
Between 40th and 41st	25 MPH	29 MPH	767	8.0%	High observed speeding from vehicles illegally using the transit lane; concentration of speed- related injury collisions; upcoming capital project
Between Green Acre Road and Enos Ave	30 MPH	Pending	Pending	Pending	High observed speeds from vehicles traveling to and from I-580; long section of MacArthur without a traffic signal





-Award RFP for speed camera vendor -Approve

vendor contract agreement

Begin public education campaign Install cameras and associated signage

Cameras Begin Operation

Mid- to Late-2025

(w/ 60-day warning period)

THANK YOU! LEARN MORE:

OAKLANDCA.GOV/speed-cameras

SpeedCameras@oaklandca.gov



