

I-880 Express Lanes Proposed Operational Policies

Expresslanes.511.org

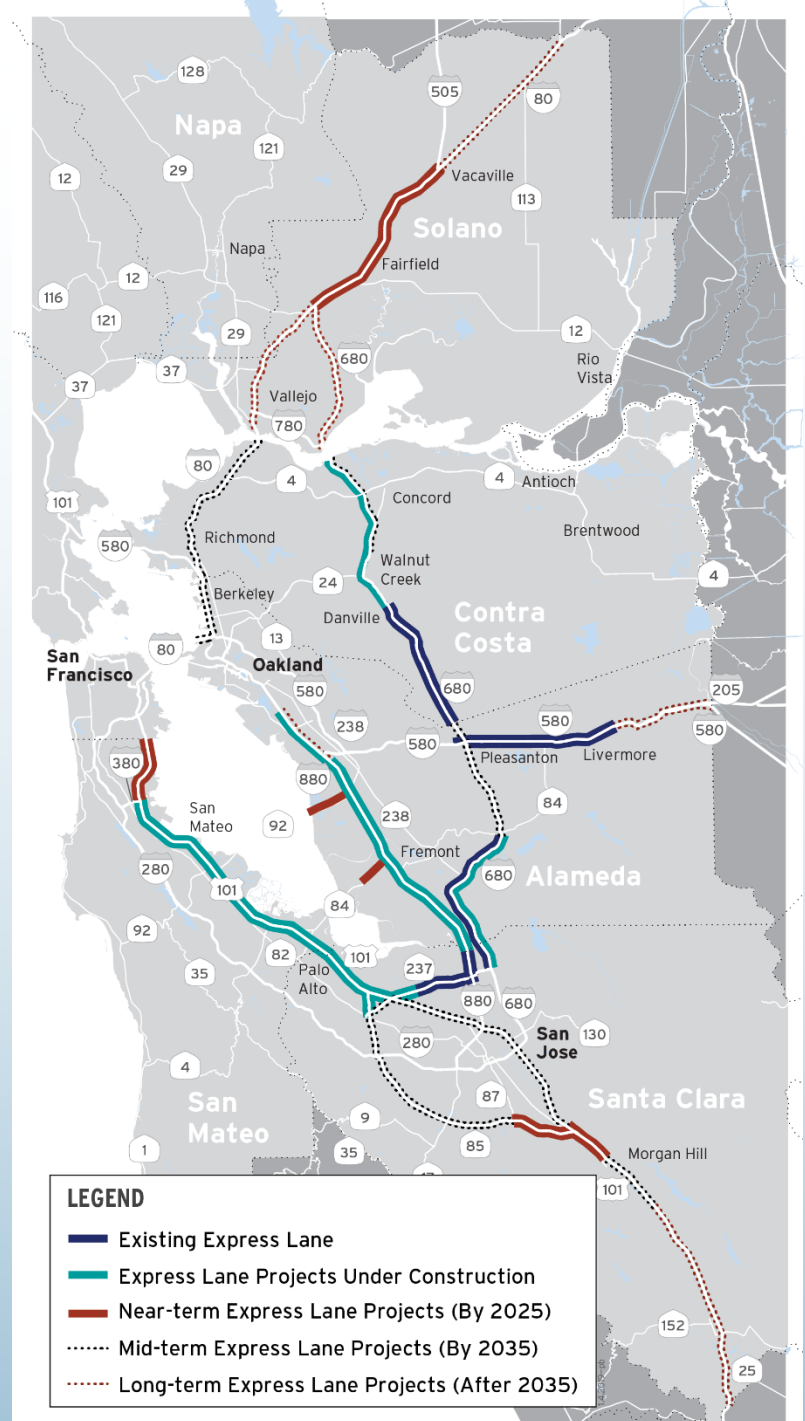


METROPOLITAN
TRANSPORTATION
COMMISSION



Why Express Lanes?

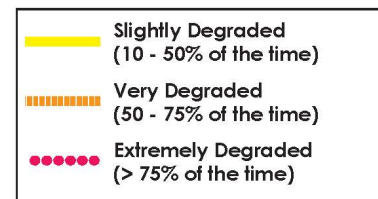
- Create a network of well-performing lanes to:
 - Move more people with existing capacity
 - Expand the HOV lane network
 - Create a network for robust express lane bus service
 - Encourage more high occupancy vehicles
 - Fund transportation with user fees that influence demand, fund maintenance and are less regressive
 - Provide choice



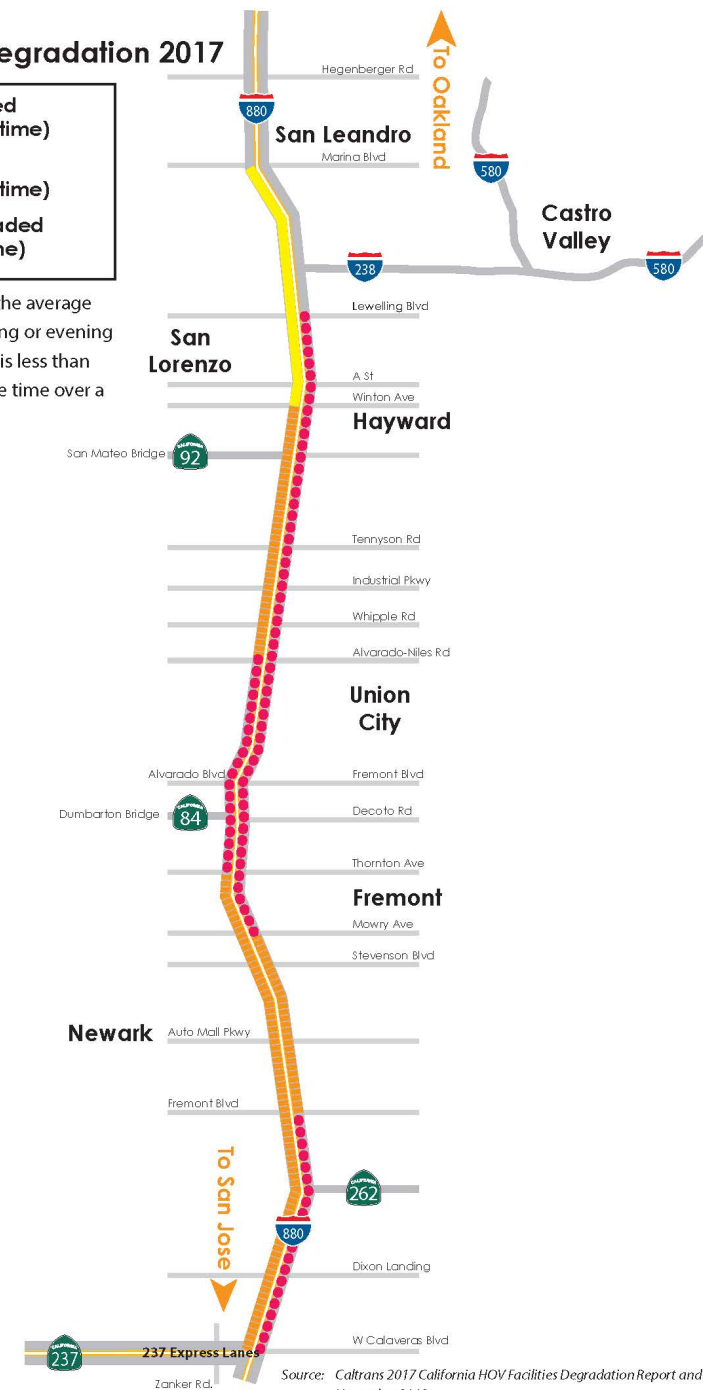
HOV Lane Degradation

- We must improve HOV lane speeds and reliability
- 69% Bay Area HOV lane miles degraded in 2017
- I-880 HOV lanes do not meet carpooler expectations
- I-880 HOV lanes degradation (2017):
 - 11% of corridor is slightly degraded
 - 42% of corridor is very degraded
 - 47% of corridor is extremely degraded

I-880 HOV Lane Degradation 2017



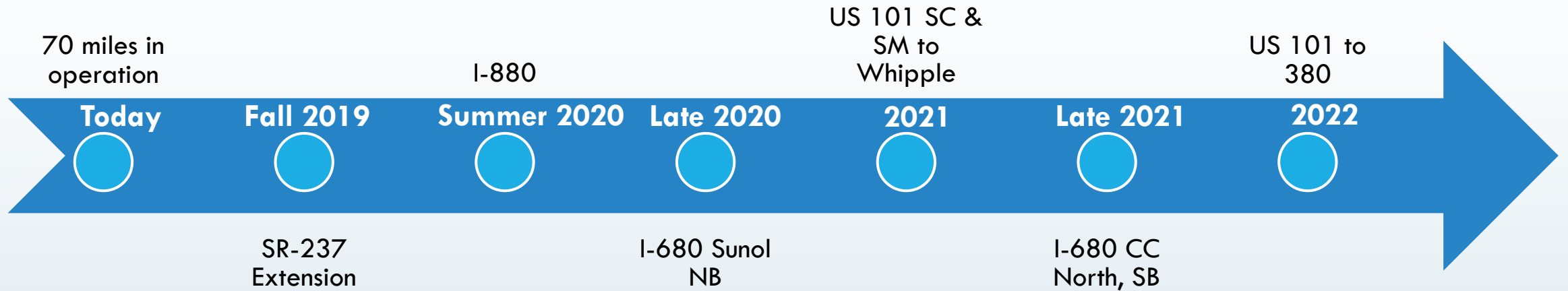
An HOV facility is degraded if the average traffic speed during the morning or evening weekday peak commute hour is less than 45 mph for ore than 10% of the time over a consecutive 180-day period.



Source: Caltrans 2017 California HOV Facilities Degradation Report and Action Plan, November 2018



Express Lanes Milestones



By the Numbers

600 miles authorized by State

70 miles in operation
by Alameda CTC, MTC and VTA

140 miles under construction

200+ miles open by 2022

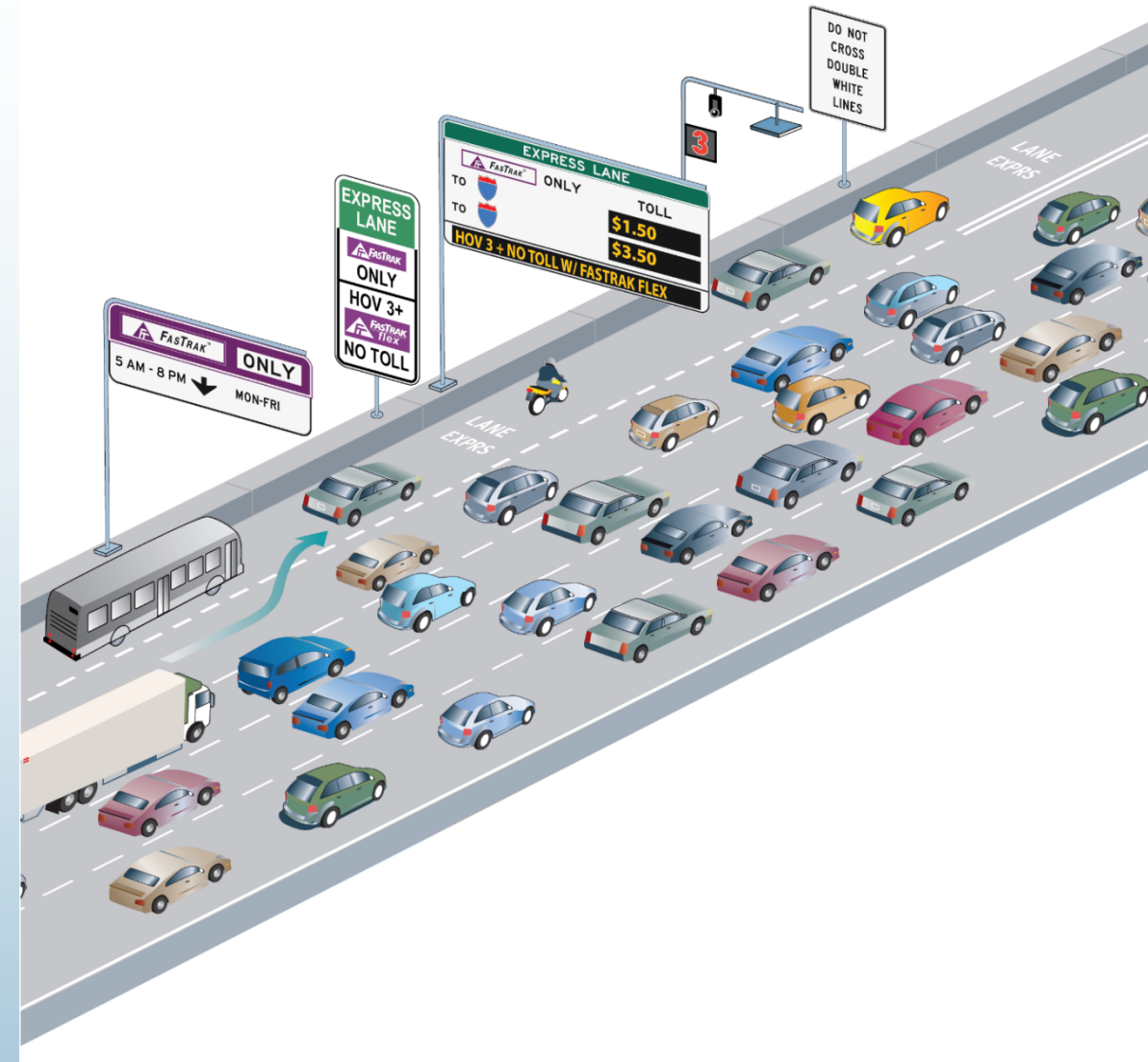
The I-880 Express Lane

- Conversion of existing HOV lanes
- Hegenberger/Lewelling to SR-237
- Construction began September 2017
- Civil construction 90% complete
- Toll system integration began spring 2019
- Toll Ordinance fall 2019
- Opening mid 2020
- Operator: MTC



I-880 Express Lane Operations Overview

- Electronic tolls change with congestion
- Eligible carpools (3 or more people), vanpools, buses, & motorcycles travel toll free
- 2-person carpools and clean air vehicles can choose to pay a reduced toll (50% proposed)
- Solo drivers can choose to pay
- Enhanced enforcement



FasTrak[®] Required for All Vehicles



- FasTrak Flex
 - “1” position for single occupant vehicles
 - “2” position for 2-person carpools
 - “3+” position for everything else
- Regular (legacy) tags OK for solo drivers
- Clean air vehicles (red and purple stickers) need a clean air vehicle tag

Tags available at bayareafastrak.org or selected Walgreens and Costco stores

Operating Hours

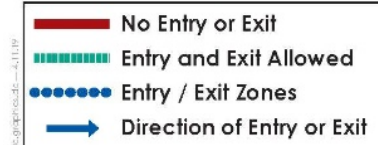
- ▶ 5 a.m. – 8 p.m.
- ▶ Consistency with other express lanes
- ▶ Traffic peaks are growing
- ▶ Dynamic pricing: low toll when traffic is light
- ▶ Monitoring to keep traffic flowing
- ▶ Choice when there is mid-day traffic



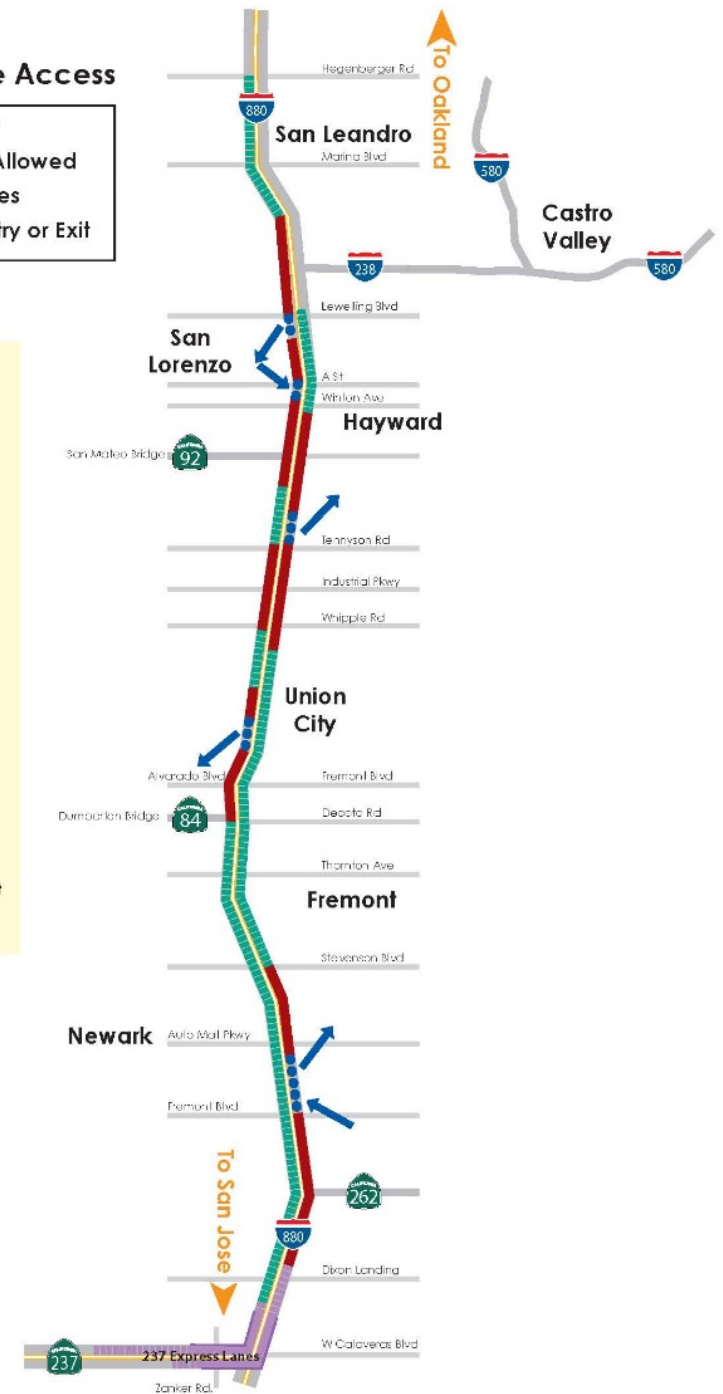
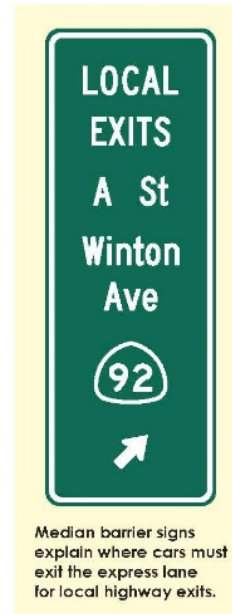
Access

- Performance improvement
 - Reliability
 - Safety
- Local exit signs guide cars out of the express lanes
- Entry signs guide cars to express lane entry points
- Restricted access marked with double white lines

I-880 Express Lane Access

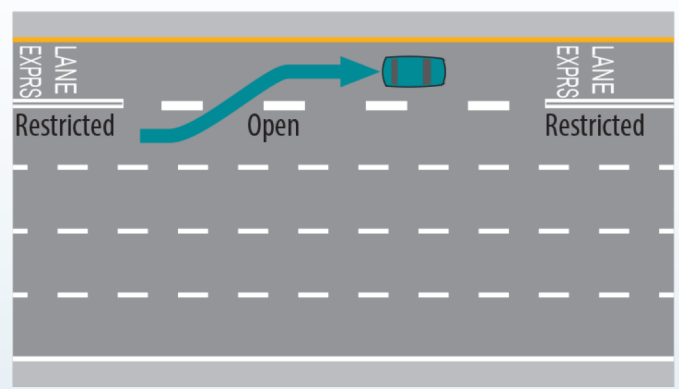


(Not to scale)

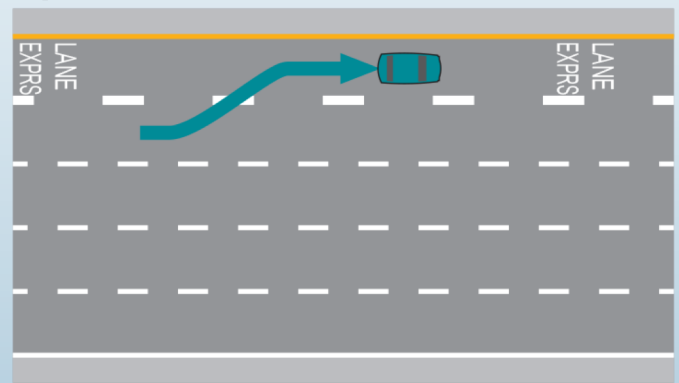


Access

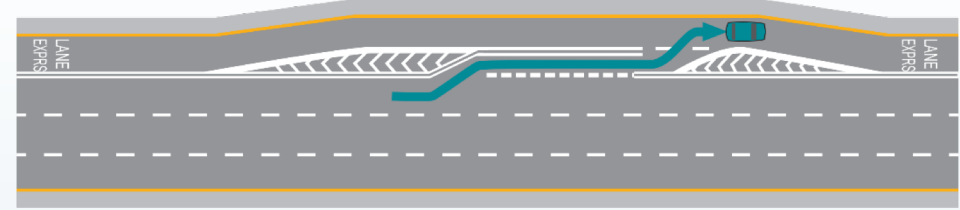
Limited or Restricted Access



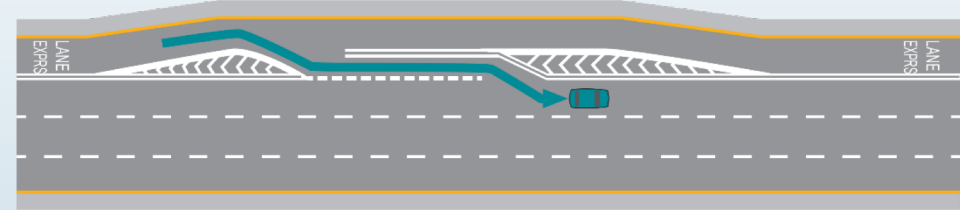
Open or Continuous Access



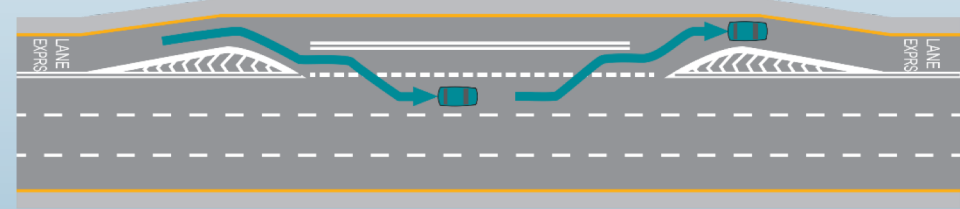
Entry Weave Lane



Exit Weave Lane



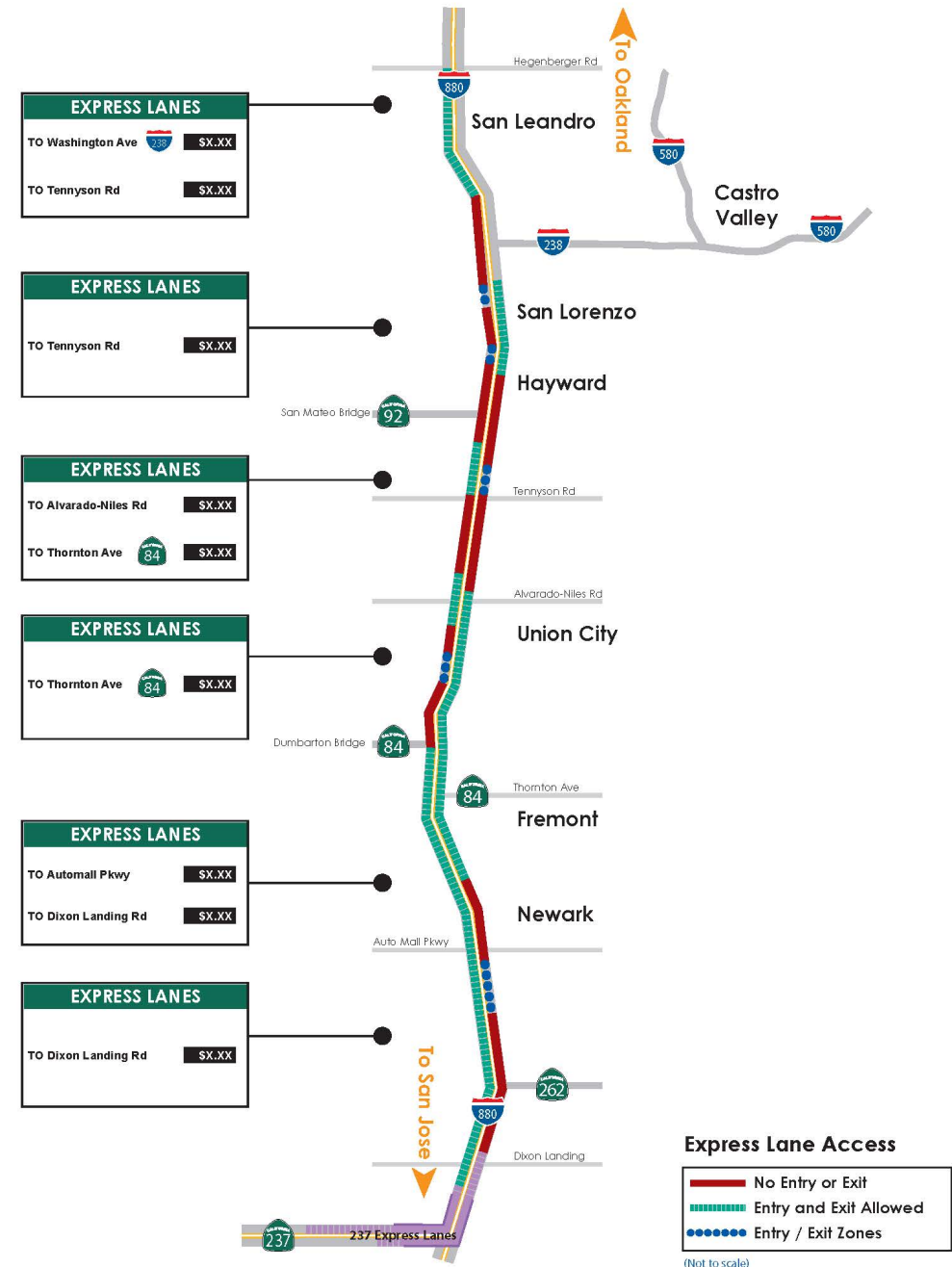
Entry & Exit Weave Lane



Pricing Zones

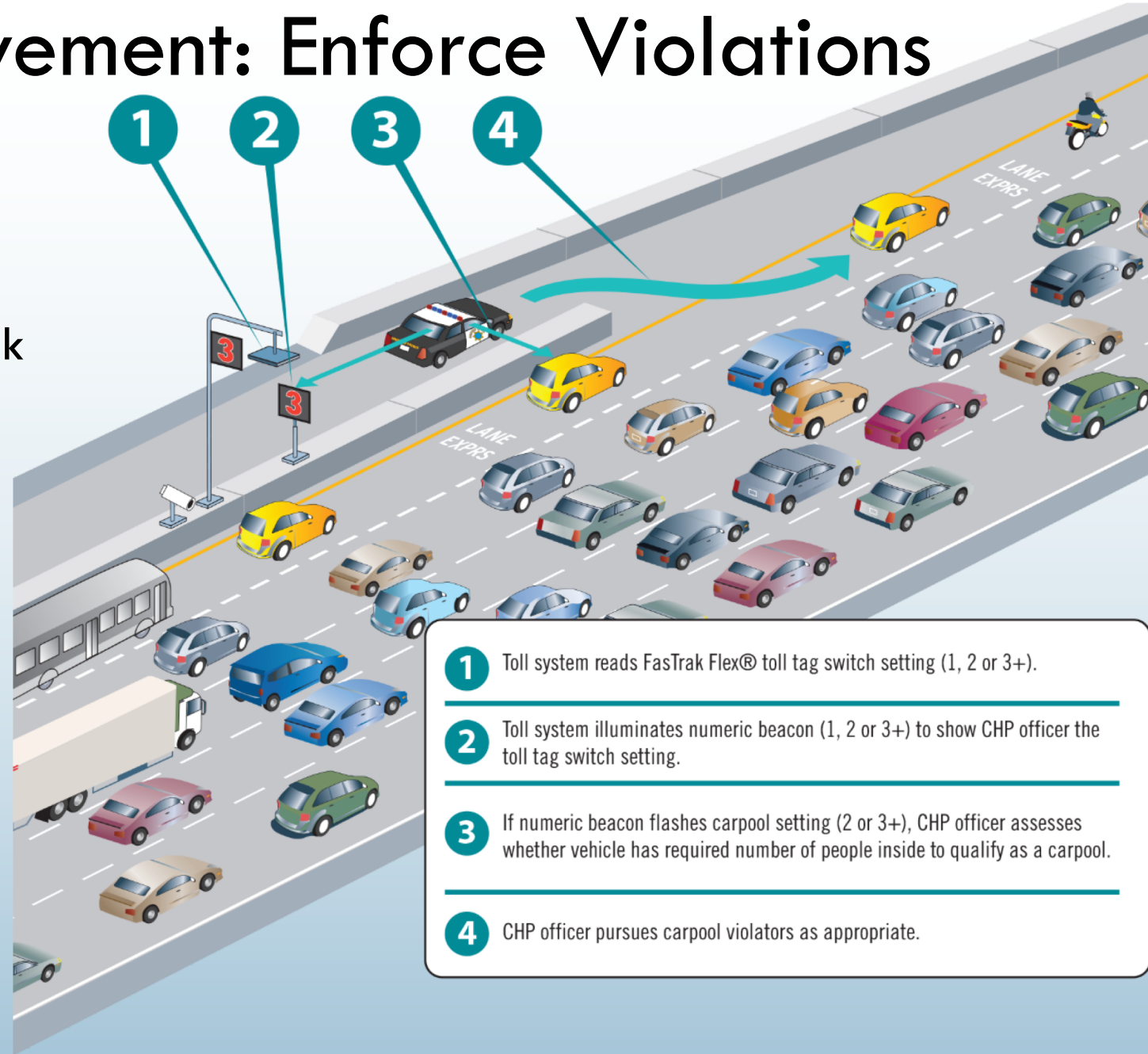
- 6 Toll Zones Southbound
- 5 Toll Zones Northbound
- Drivers see tolls before entering the zone
- Drivers are guaranteed the price they first see when they enter a zone or segment.

I-880 Express Lanes Tolling Southbound



Performance Improvement: Enforce Violations

- **Automated** enforcement by toll system
 - License plate cameras
 - Non-carpoolers without FasTrak receive tolls and toll penalties.
- **Enhanced Manual** enforcement by CHP
- **Pilot** emerging technologies



Performance Improvement: Enforce Violations



- Bay Area HOV lane violation rates:
 - as high as 31% in a.m. (2017)
 - as high as 35% in p.m. (2017)
- I-880 violation rates:
 - 4% to 22% violation rate (2017)*
 - 18% - 23% (2018)**
- Enhanced Manual Enforcement:
 - Beacons
 - Increased CHP staff
 - Technology allows focus on cars declared as carpools
 - More staff with more focus = more difficult to cheat

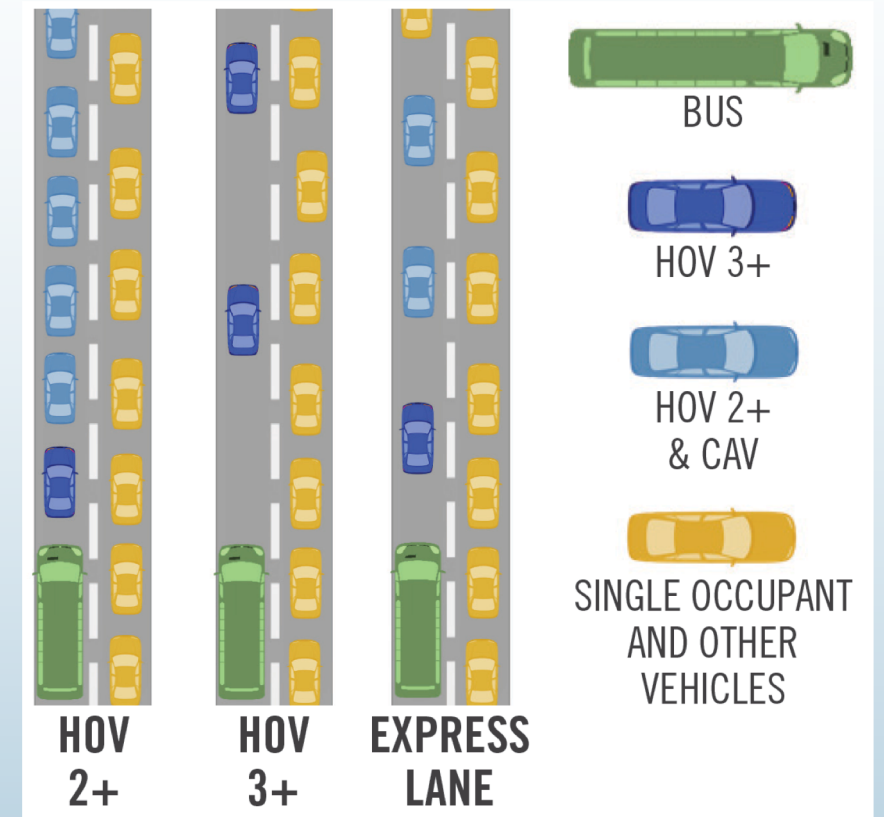
* Caltrans District 4 2017 Managed Lanes Report

** P.M. data collected by MTC

Performance Improvement: Scaled Tolls

to keep the lane flowing and increase person throughput

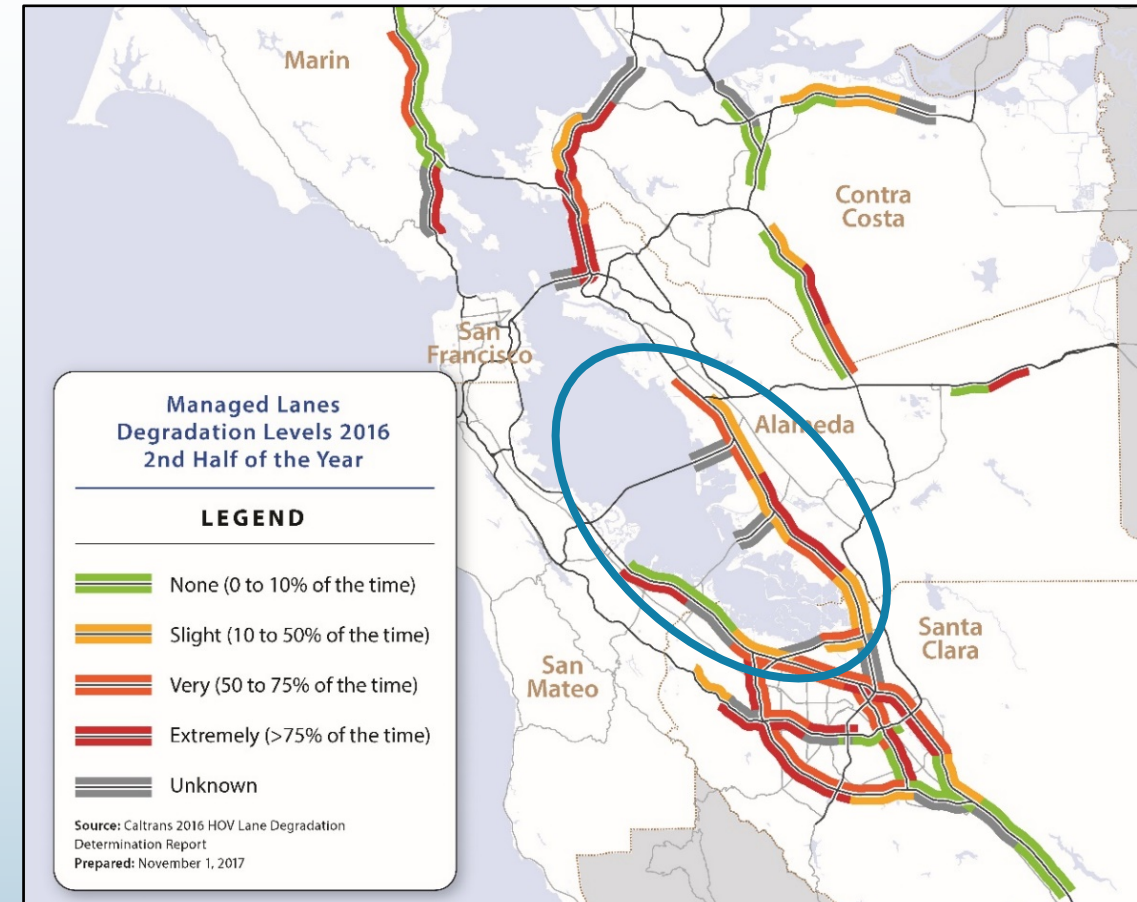
- Free for carpools with 3 or more people also vanpools, motorcycles and transit
- 50% tolls for 2-person carpools and clean air vehicles
- Full toll for single occupant vehicles -
Maximize use of remaining space with paying SOVs



Ring Around the Bay

Very degraded corridors that ring the bay will have consistent toll policies

- Carpools with 3 or more people go free
- 2-person carpools and clean air vehicles proposed to pay half-price tolls



Clean Air Vehicles Pay 50% Tolls

- 12% Clean Air Vehicles on I-880 NB in a.m. in 2017
- Clean Air Vehicle growth from 2013 to 2017
 - Alameda County: 426%
 - Santa Clara County: 369%
- LA Metro: Clean Air Vehicles pay 85% of toll; began Spring 2019
- **Bay Area: 50% tolls proposed for all Bay Area Express Lanes**



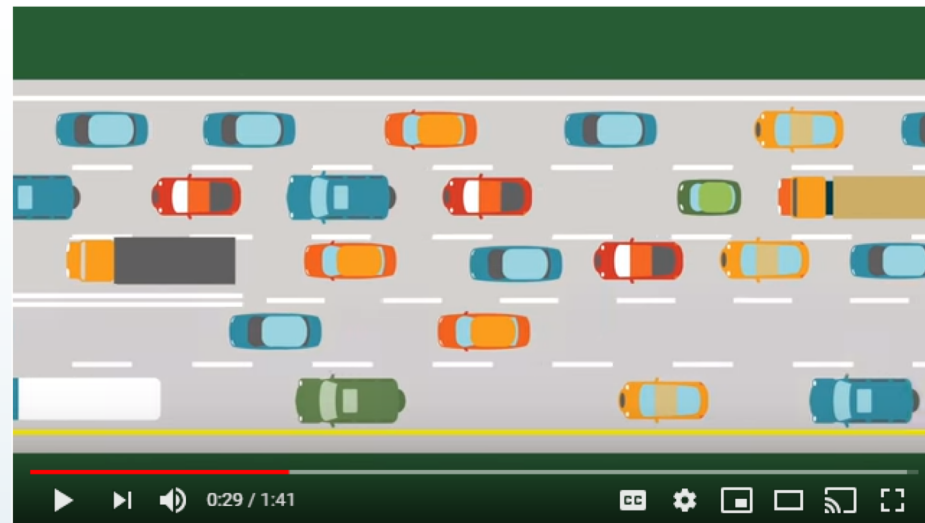
Outreach and Education

Fall 2019

- Toll ordinance hearings & adoption

Spring 2020 (3 months before opening)

- On-corridor banners
- Advertising & social media
- Employer “Pool Party”
- FasTrak notice





“Be Three, Go Free” Carpool Campaign

Starts 3 Months
Before 880 Express
Lanes Open

- Call-to-Action: Carpool.511.org
- Matching : Regional Matching System, Scoop & Waze Carpool
- Employers: “Pool Party” event; Scoop & Waze employer packages
- Rewards Promotion
- Leverage park ‘n ride lots and casual carpooling