

# San José Electric Mobility Roadmap

2020-2022



## INFRASTRUCTURE

## FLEET VEHICLES



## SHARED MOBILITY



## PERSONAL OWNERSHIP

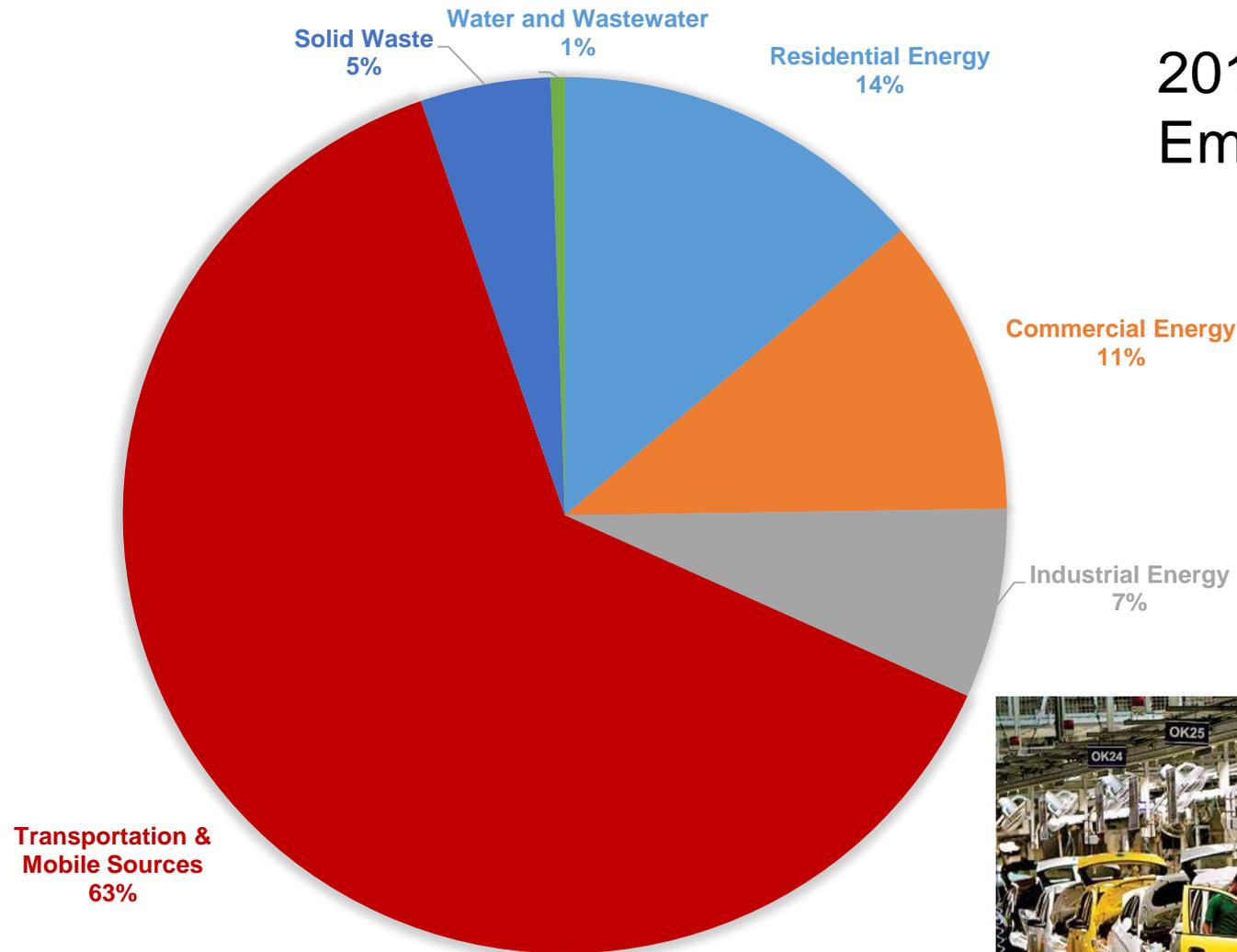


San Jose City Council  
January 14, 2020

Laura Stuchinsky, DOT Emerging Mobility Program Lead  
Jessica Ramses, DOT Deputy Director

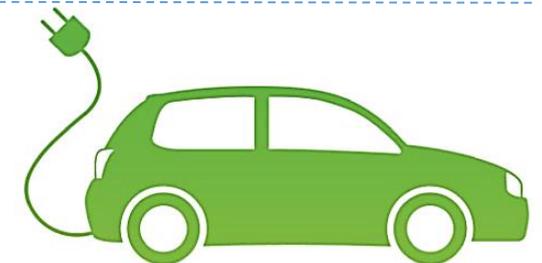
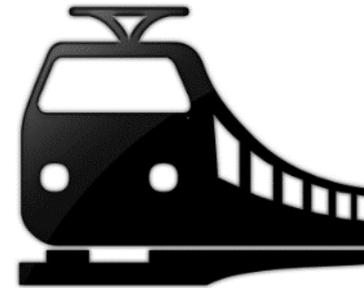
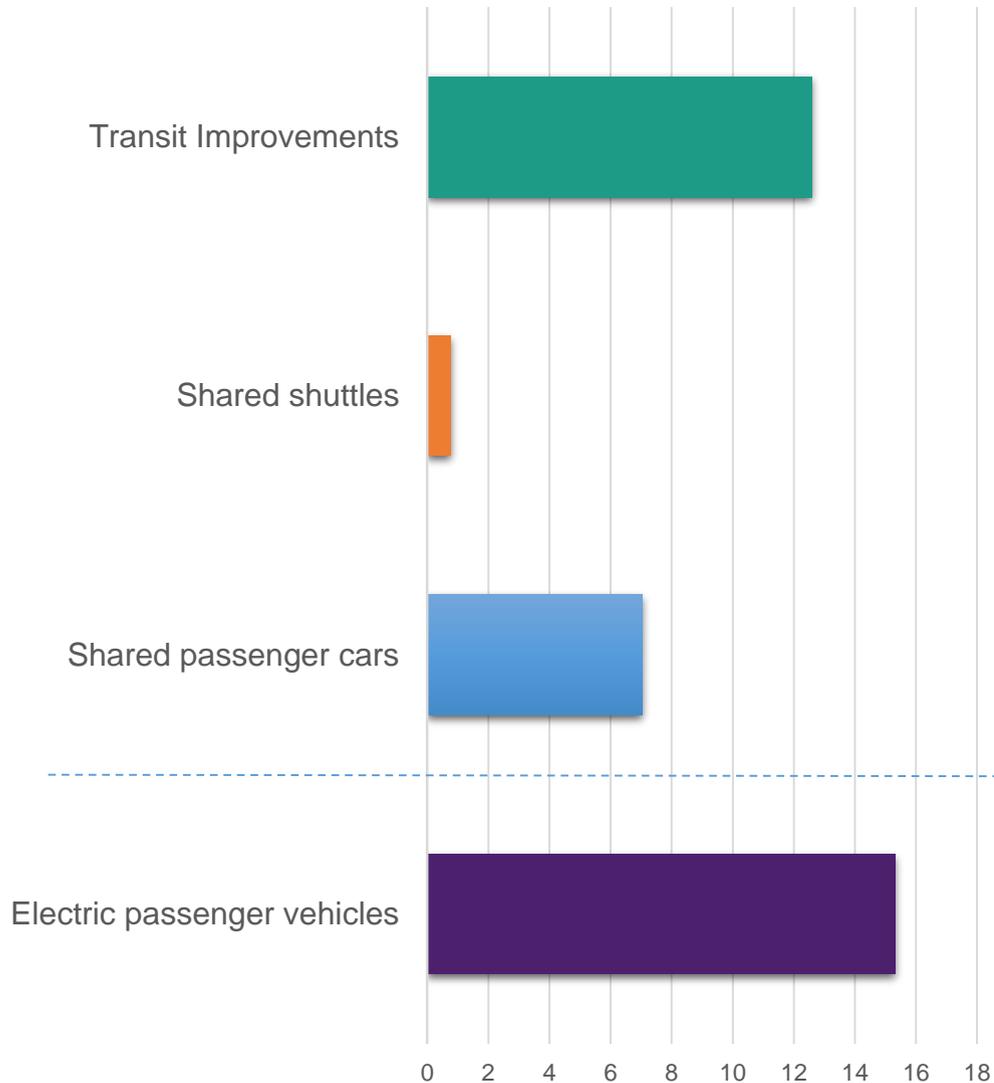
# Electric Mobility Roadmap: *Why?*

## 2017 San José GHG Emissions



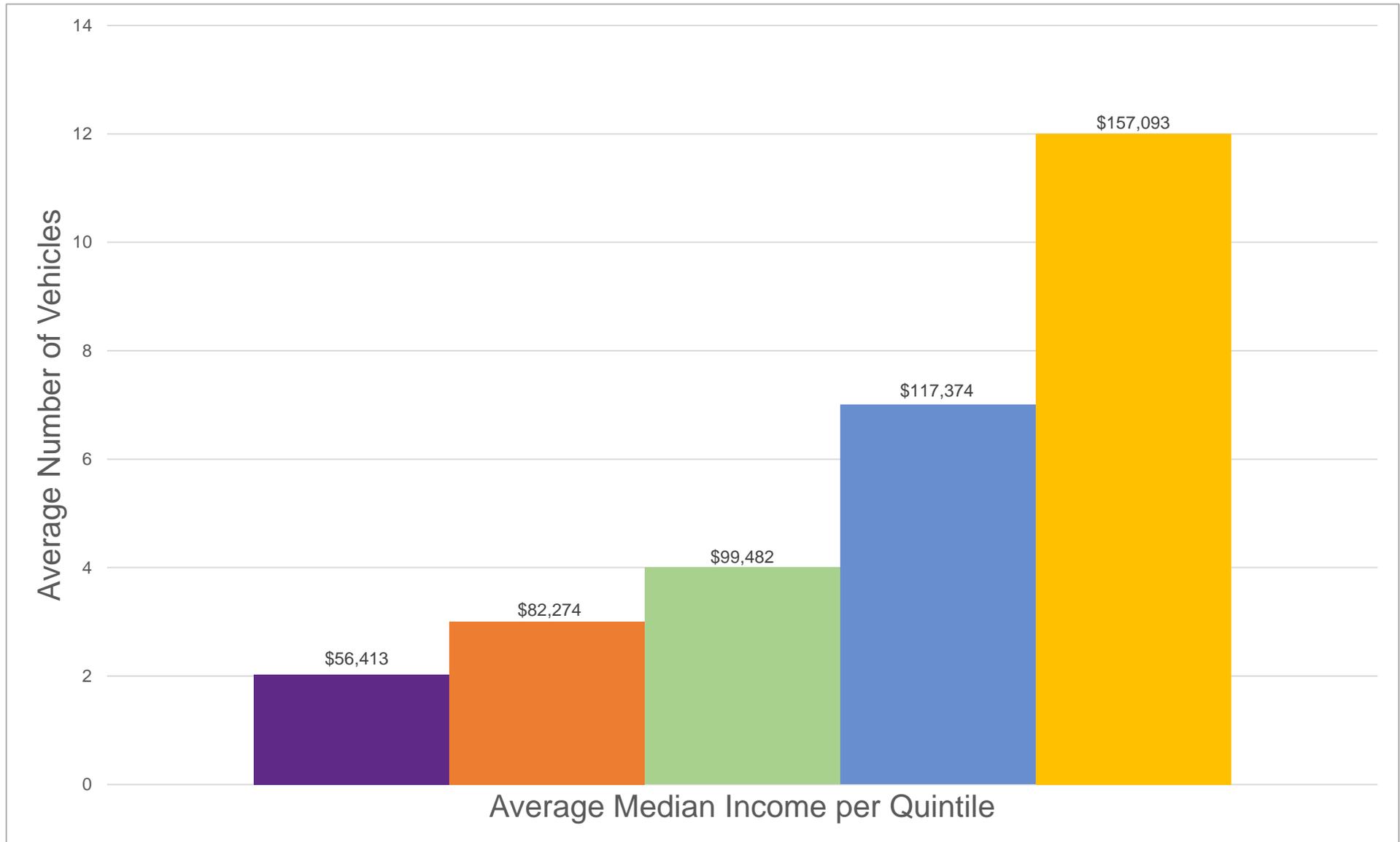
# Electric Mobility Roadmap: *How?*

Tons of CO2e Reduced

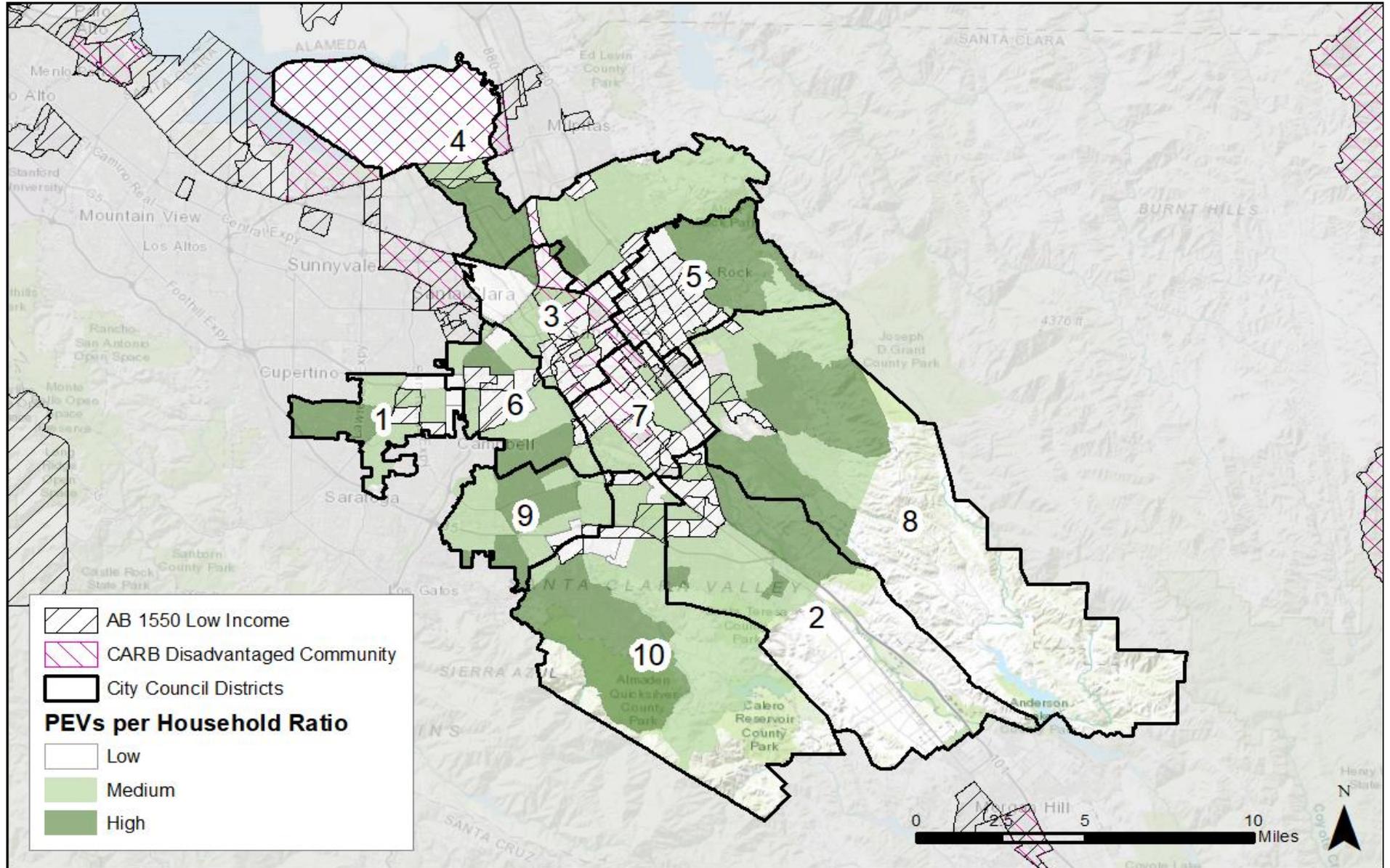


# Equity

Average Number of Registered EVs Per 100 Households By Income Quintile

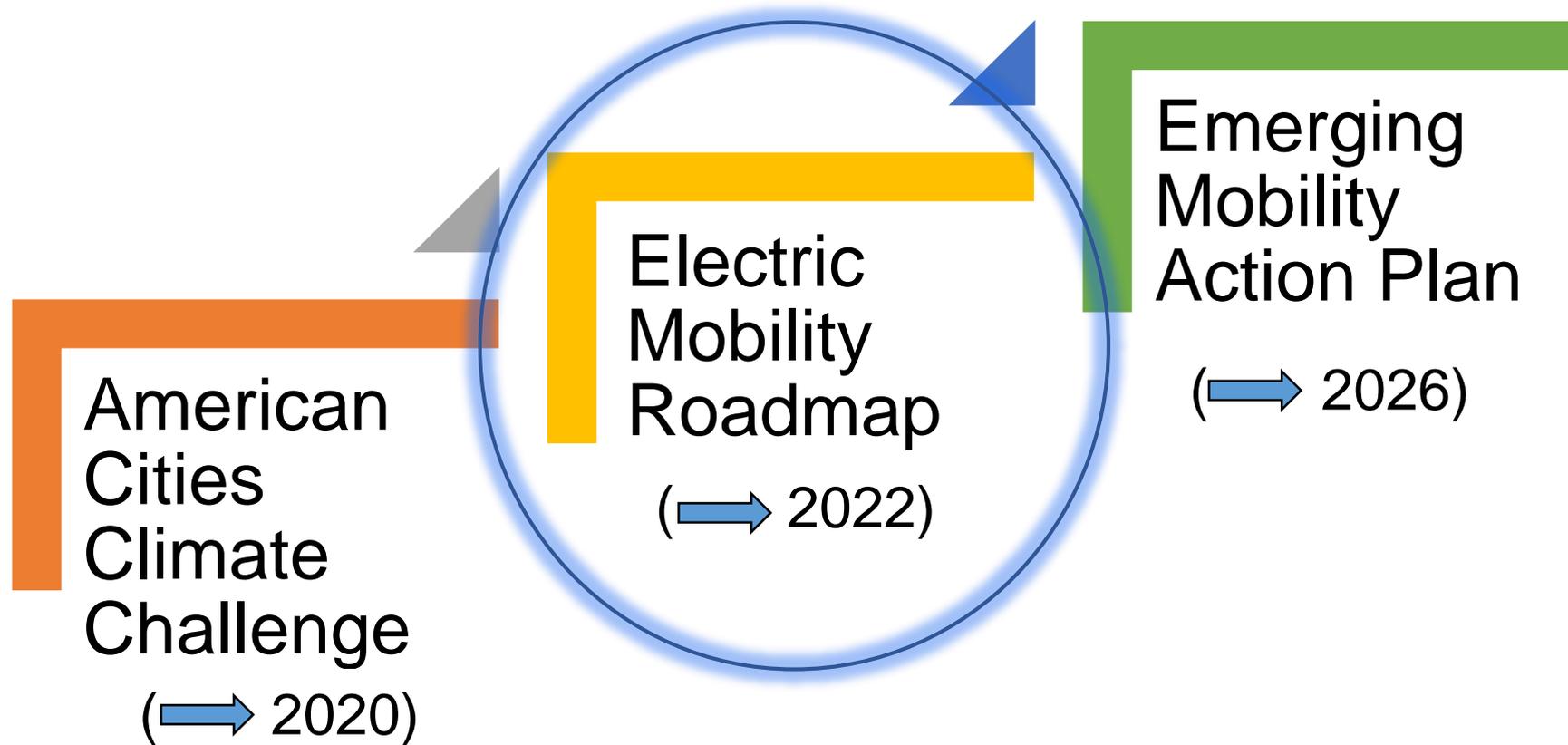


# Equity



Source: Shared-Use Mobility Center

# Building Blocks to Achieve City Goals



Climate Smart San Jose

Envision San Jose 2040

# The Electric Mobility Roadmap



1. Infrastructure

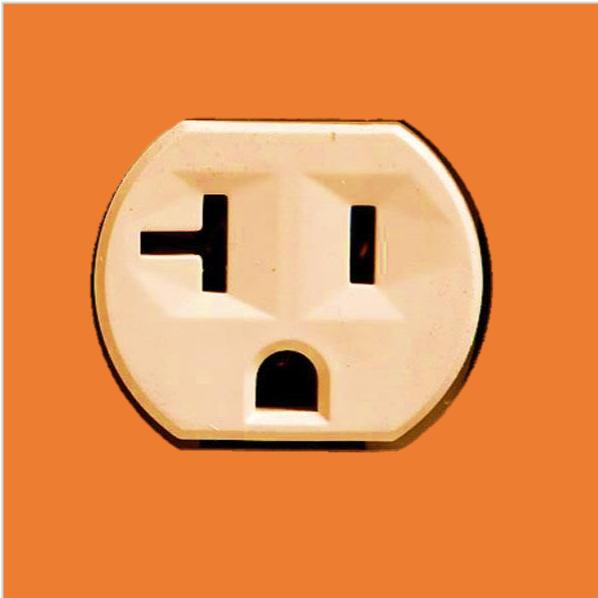
2. Fleet

3. Personal Vehicles

4. Shared Mobility

# Electric Vehicle Chargers

Level 1 (110 v.)



Level 2 (240 v.)



Direct Current Fast Charger (480+ v.)



Time required to fully charge a Nissan Leaf:

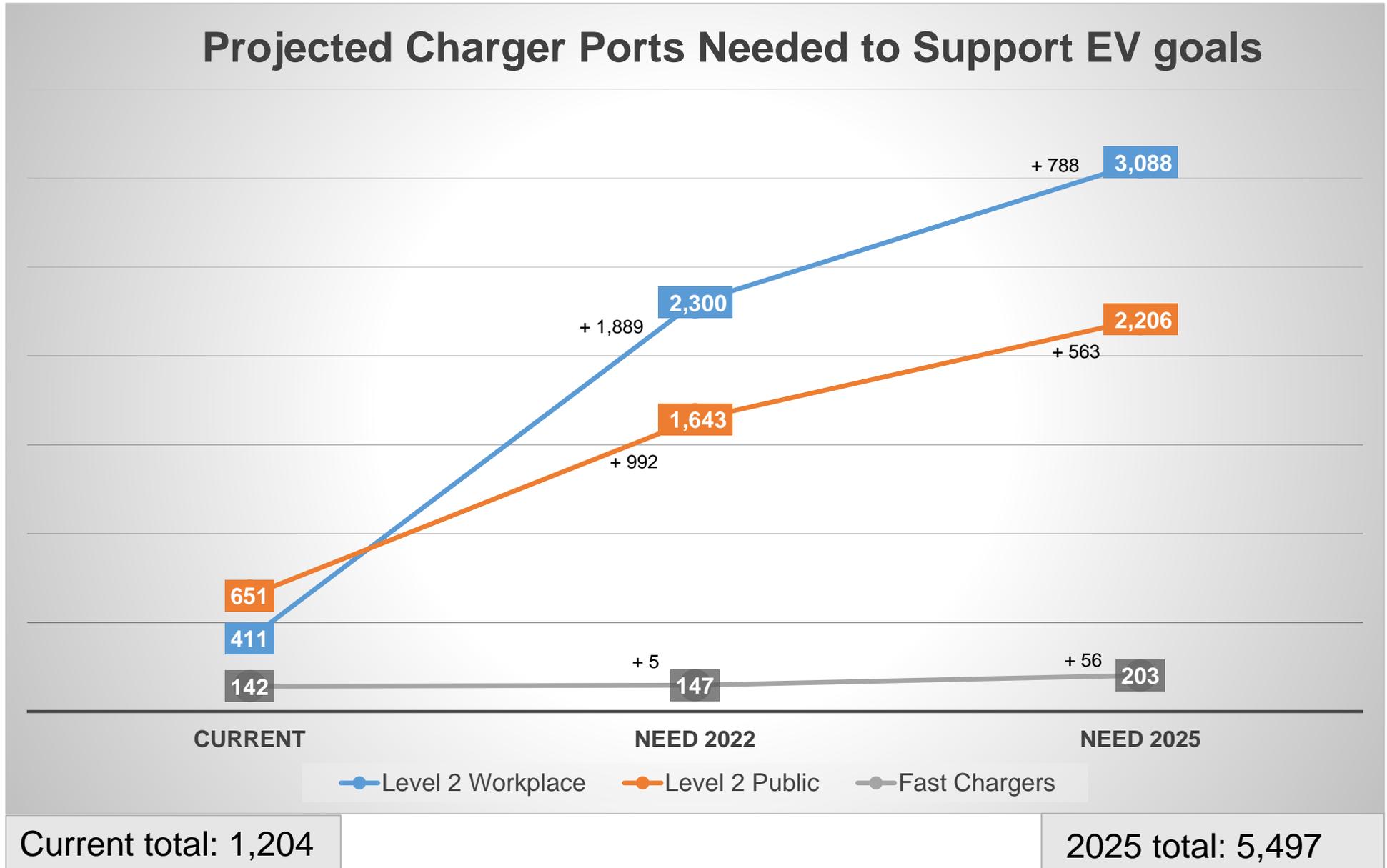
20 hours

4-8 hours

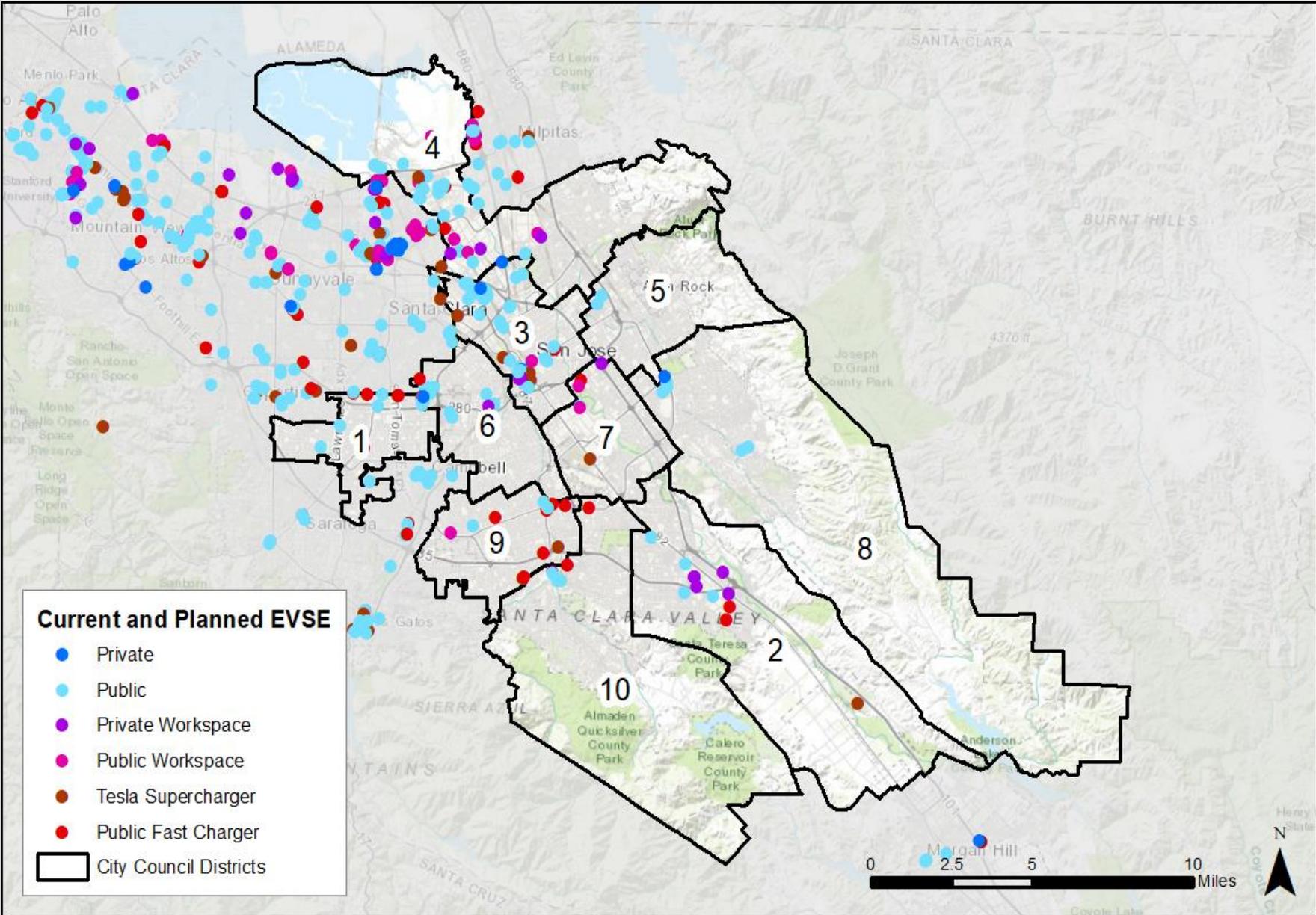
30 minutes

# 1. Infrastructure

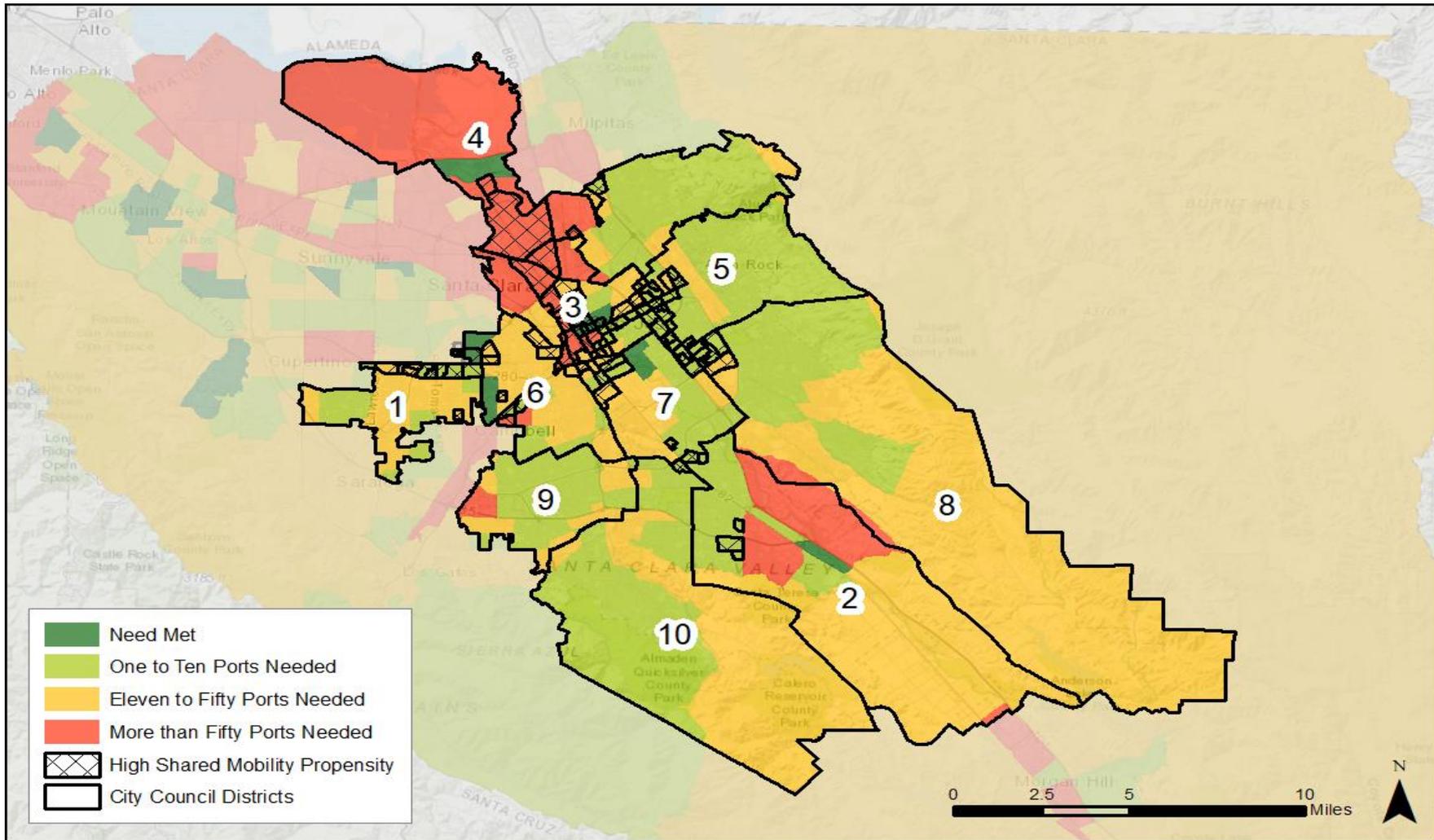
## Projected Charger Ports Needed to Support EV goals



# Where Non-Residential Charging Is Currently Located



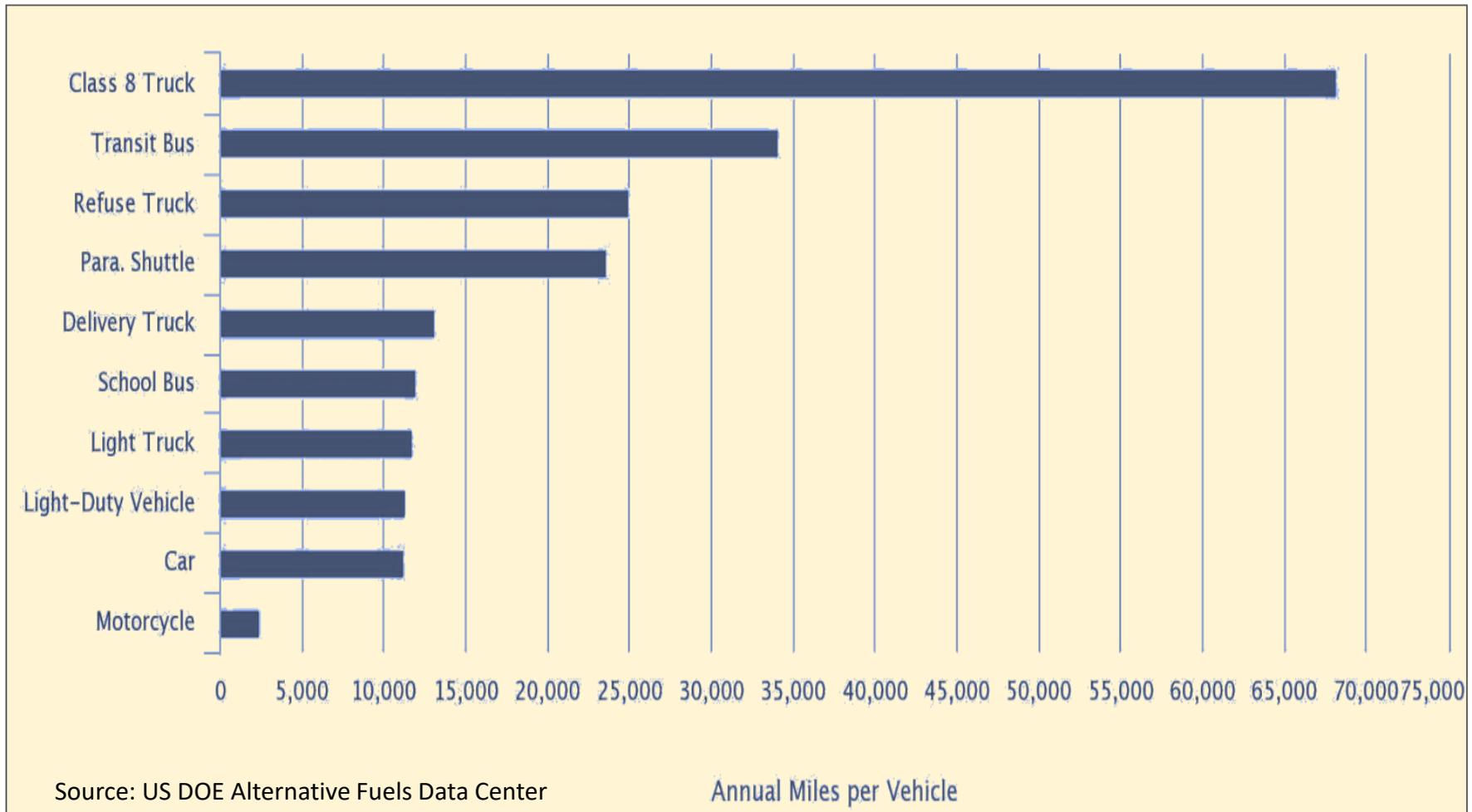
# 2025 Projected Demand for L2 Charging



Source: Shared-Use Mobility Center.

# 2. Fleet

## Average Annual Vehicle Miles Traveled by Major Vehicle Categories

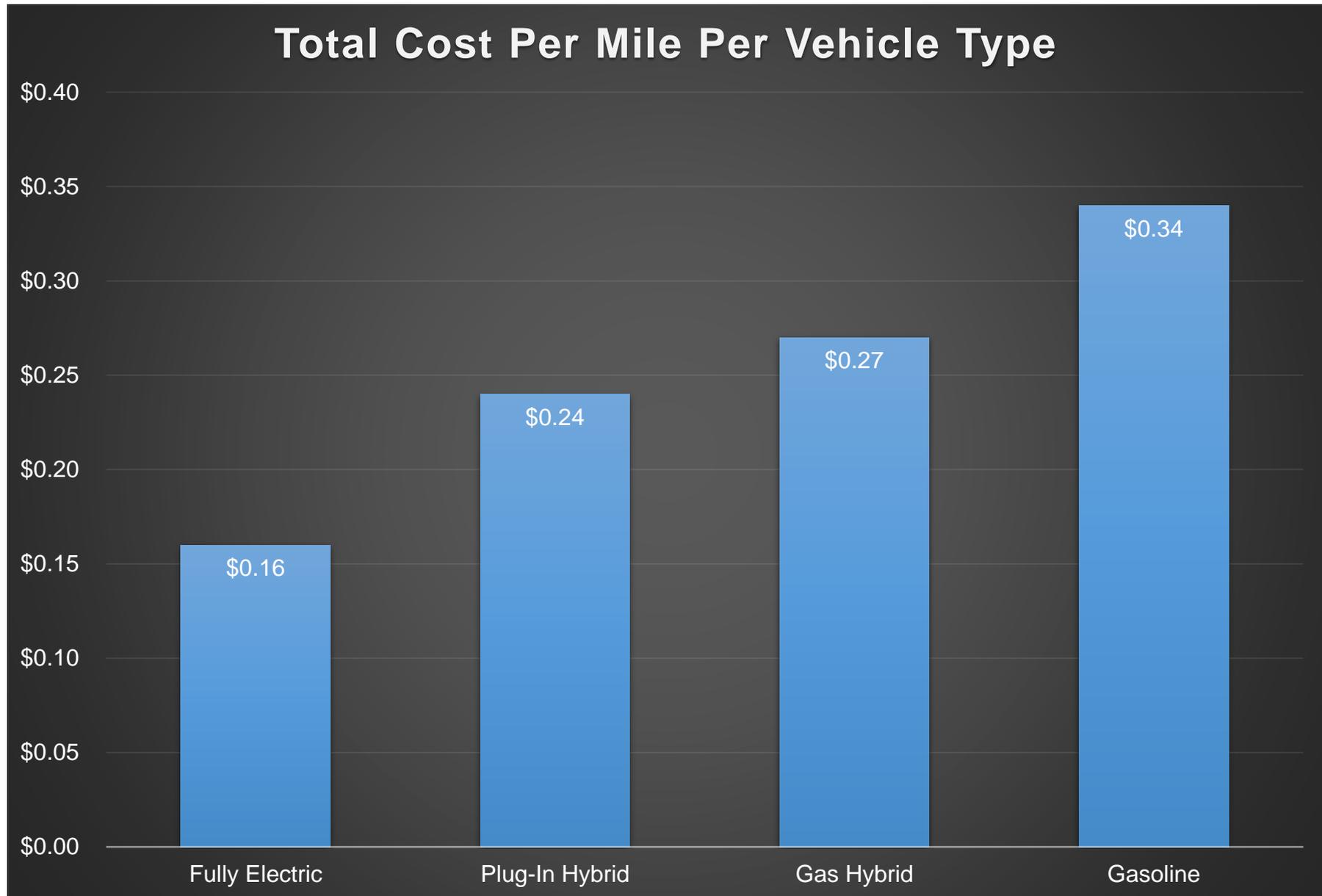


## 2. Fleet

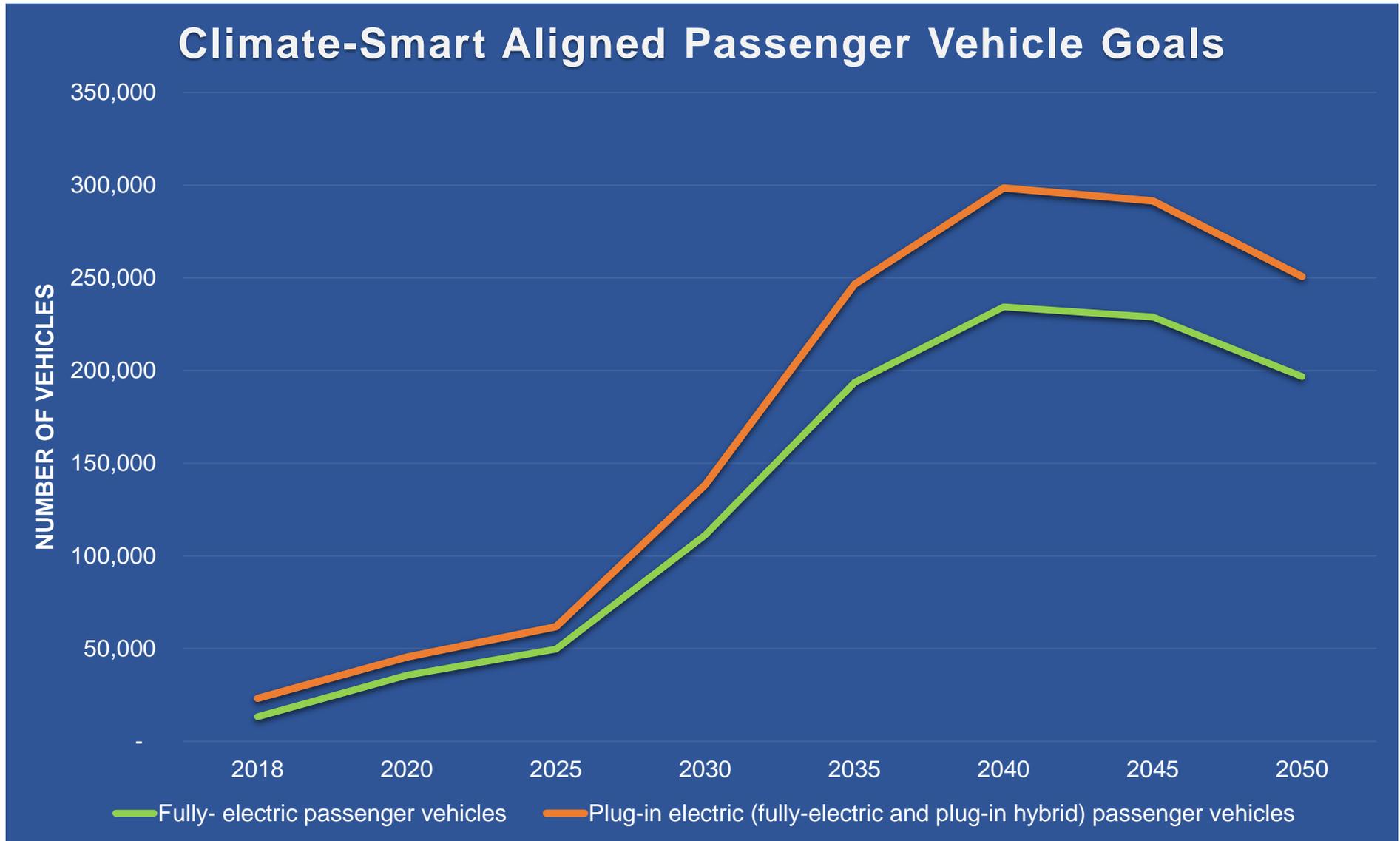
---



# 2. Fleet



# 3. Personal Vehicles



# 3. Personal Vehicles



— Monthly sales before group buy  
— Monthly sales during group buy

# 3. Shared Mobility



# 3. Shared Mobility

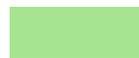
---



# Electric Mobility Roadmap: Jan 2020

Charging Infrastructure	Streamline charger permitting	PG&E EV Charger Network program	Electrify America program	Adopt Electric Vehicle Reach Code	Fund CALeVIP Regional Program	Community engagement around charger installations	Use CALeVIP to install priority chargers	Adopt & implement EV electrical rate	Monitor and improve EV Reach Code	Identify Priority Locations for Public Charger Installations	Designate Electric Mobility Infrastructure Leads	Create City EV Charger Fund	Partner with private entities to get priority EV chargers installed	Provide technical assistance to small building owners/managers & low-income residents	Wayfinding for EV chargers
Fleet Electrification	Develop 2020-21 fleet conversion plan	Electrify public transit	Pilot new medium and heavy-duty EV fleet applications	Replace City's older, non-police sedans	Develop emergency back-up plan for the City's electric fleet	Pursue battery recycling energy storage pilot	Update Green Fleet policy	Encourage private fleet conversions	Boost electrification of urban freight	Promote electric-powered cargo bikes					
Personally-Owned EVs	Organize Ride & Drive events	Create EV webpage	Create dealer education program	Organize discount group buy	Down payment incentive for low-income buyers										
Shared Electric Mobility	Develop an EV shared mobility pilot program	Adopt a parking management and pricing policy	Expand shared micro-mobility services and usage	Expand Bike Network and Protected Bike Lanes	Establish parking policies that support electric & shared vehicles	Pursue grants to fund EV shared mobility pilots	Expand and electrify car-share services	Accelerate electrification of ride-hailing	Facilitate Mobility as a Service (MaaS)						

## LEGEND – PROJECT STATUS



EXISTING ACTIONS ON TRACK



BUDGET REQUEST OR NEED



ROADMAP ACTIONS (INITIAL)

# Electric Mobility Roadmap: Jan 2020

Charging Infrastructure	Streamline charger permitting	PG&E EV Charger Network program	Electrify America program	Adopt Electric Vehicle Reach Code	Fund CALeVIP Regional Program	Community engagement around charger installations	Use CALeVIP to install priority chargers	Adopt & implement EV electrical rate	Monitor and improve EV Reach Code	Identify Priority Locations for Public Charger Installations	Designate Electric Mobility Infrastructure Leads	Create City EV Charger Fund	Partner with private entities to get priority EV chargers installed	Provide technical assistance to small building owners/managers & low-income residents	Wayfinding for EV chargers
Fleet Electrification	Develop 2020-21 fleet conversion plan	Electrify public transit	Pilot new medium and heavy-duty EV fleet applications	Replace City's older, non-police sedans	Develop emergency back-up plan for the City's electric fleet	Pursue battery recycling energy storage pilot	Update Green Fleet policy	Encourage private fleet conversions	Boost electrification of urban freight	Promote electric-powered cargo bikes					
Personally-Owned EVs	Organize Ride & Drive events	Create EV webpage	Create dealer education program	Organize discount group buy	Down payment incentive for low-income buyers	Explore creation of a financial counseling program									
Shared Electric Mobility	Develop an EV shared mobility pilot program	Adopt a parking management and pricing policy	Expand shared micro-mobility services and usage	Expand Bike Network and Protected Bike Lanes	Establish parking policies that support electric & shared vehicles	Pursue grants to fund EV shared mobility pilots	Expand and electrify car-share services	Accelerate electrification of ride-hailing	Facilitate Mobility as a Service (MaaS)	Explore an electric school bus demonstration project	EV pilot in affordable housing development				

## LEGEND – PROJECT STATUS

 EXISTING ACTIONS ON TRACK

 BUDGET REQUEST OR NEED

 ROADMAP ACTIONS

 ROADMAP ACTIONS INITIATED

 NEW ROADMAP ACTIONS

# San José Electric Mobility Roadmap

2020-2022

## FLEET VEHICLES



## INFRASTRUCTURE



## SHARED MOBILITY



## PERSONAL OWNERSHIP



San Jose City Council  
January 14, 2020

Laura Stuchinsky, DOT Emerging Mobility Program Lead

Jessica Ramses, DOT Deputy Director