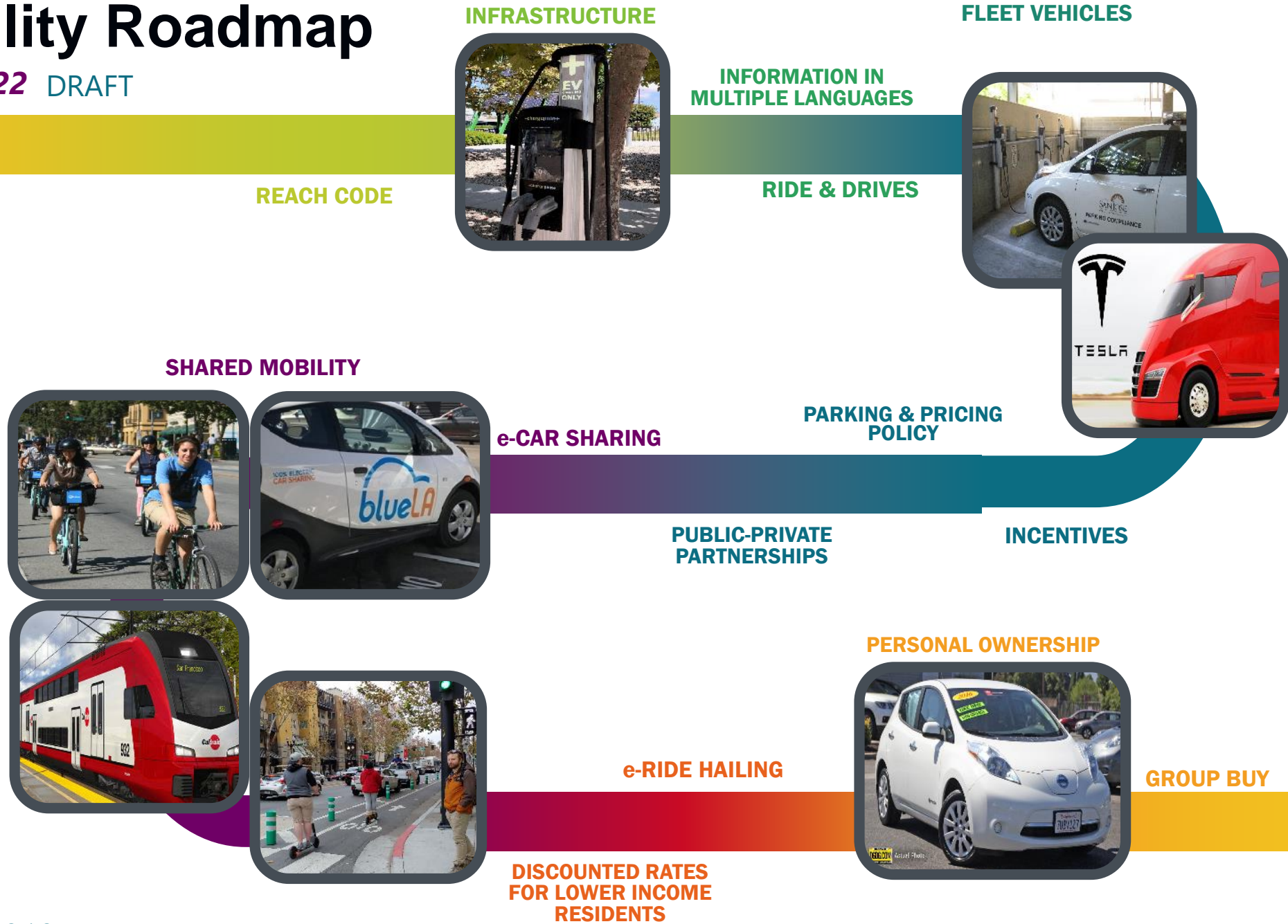
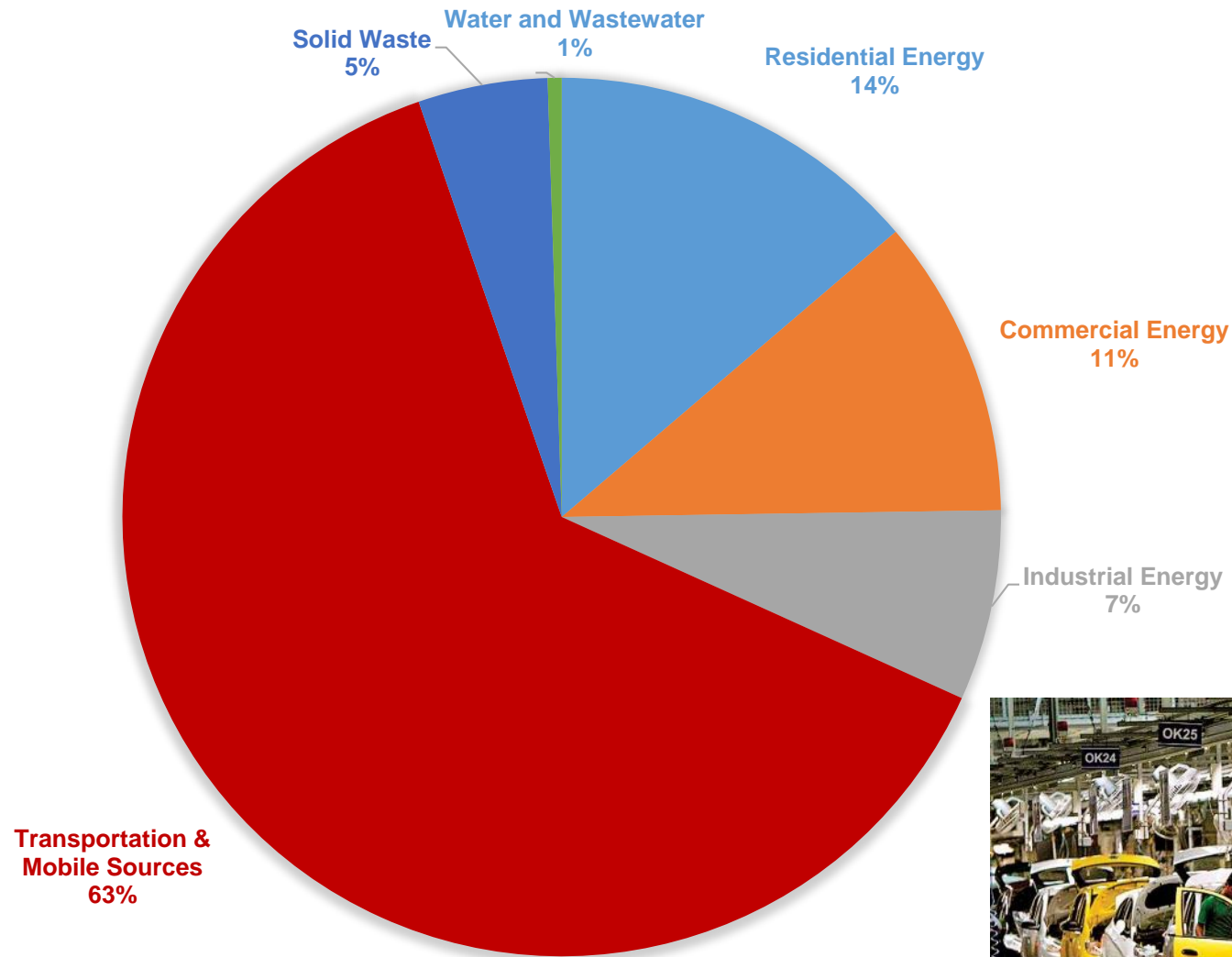


San José Electric Mobility Roadmap

2020-2022 DRAFT

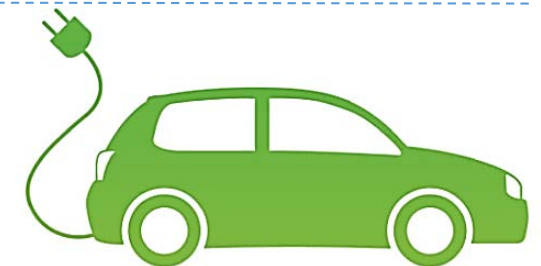
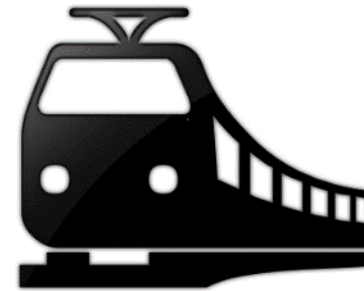
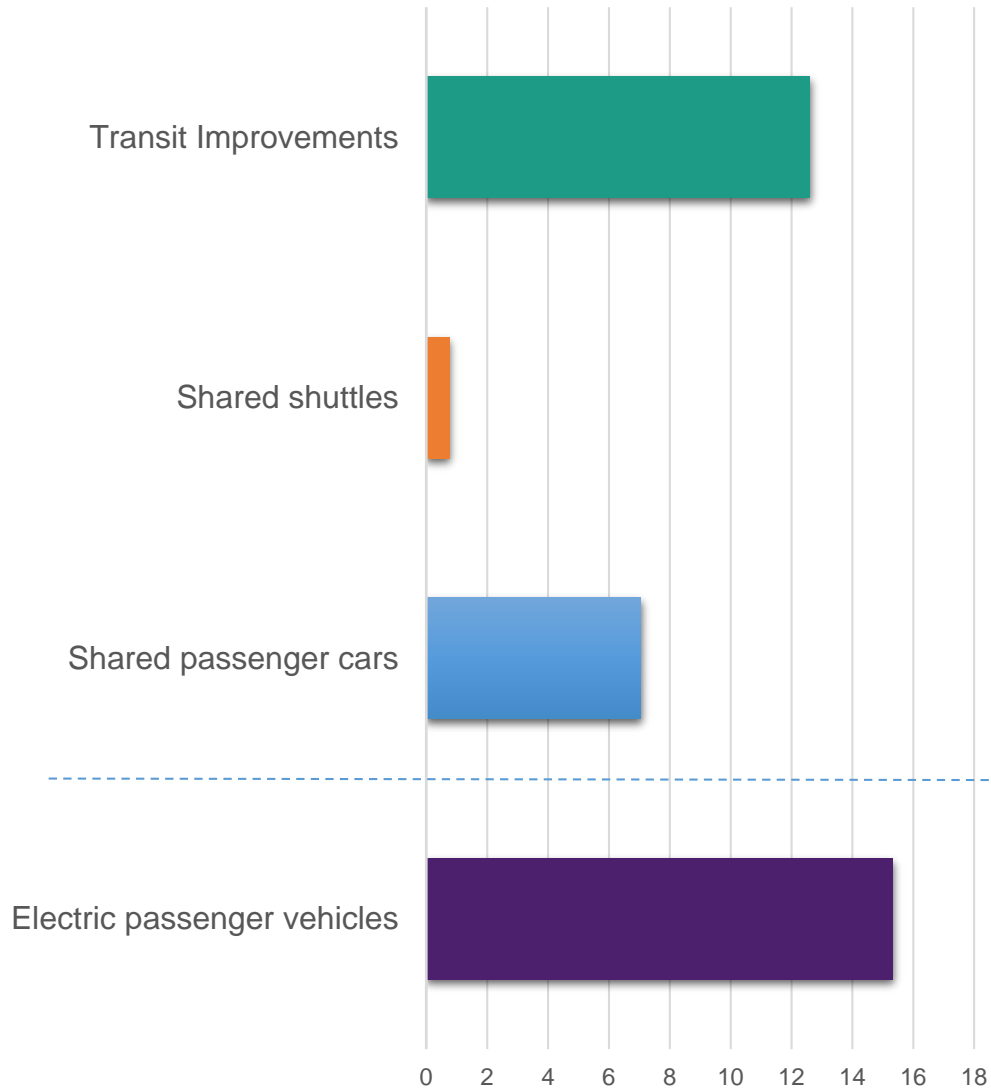


2017 San José GHG Emissions

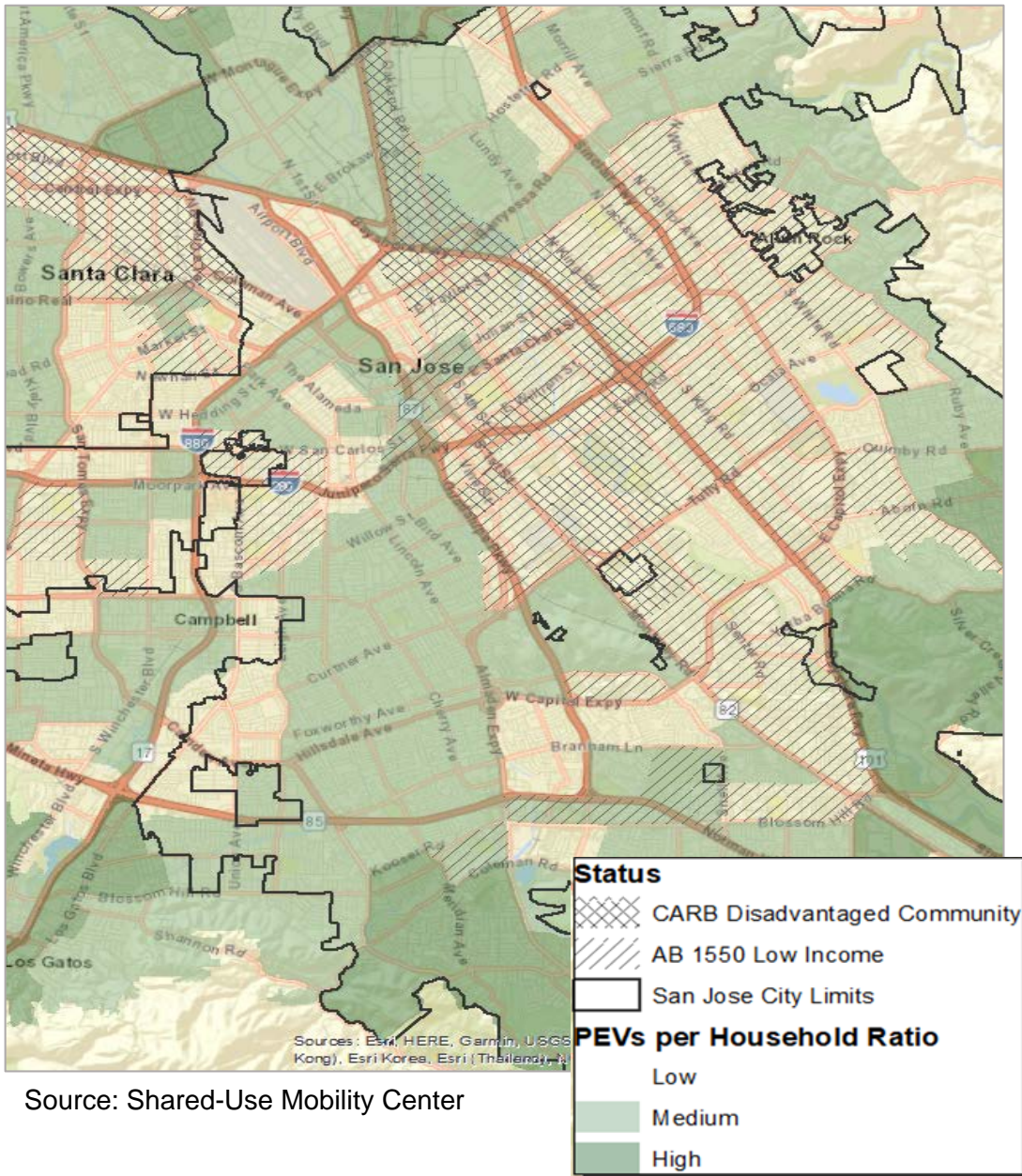


Multi-Prong Strategy

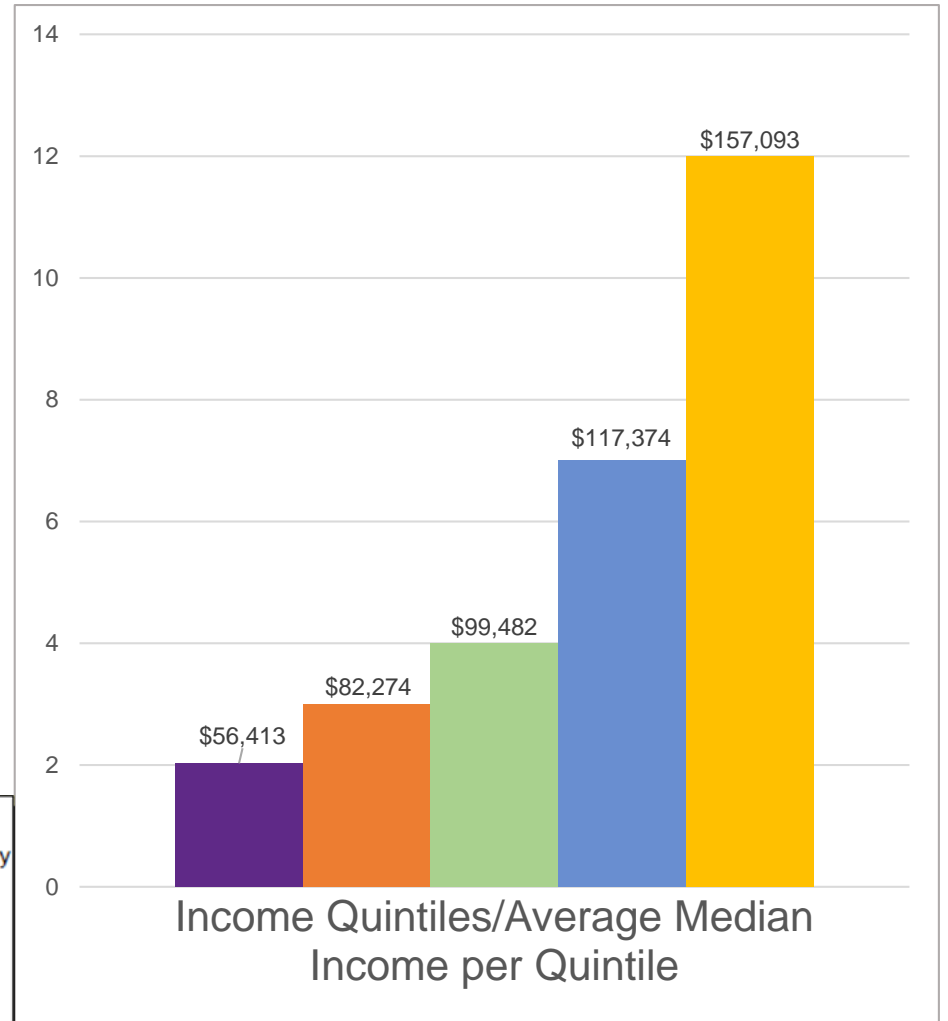
Tons of CO2e Reduced



Equity

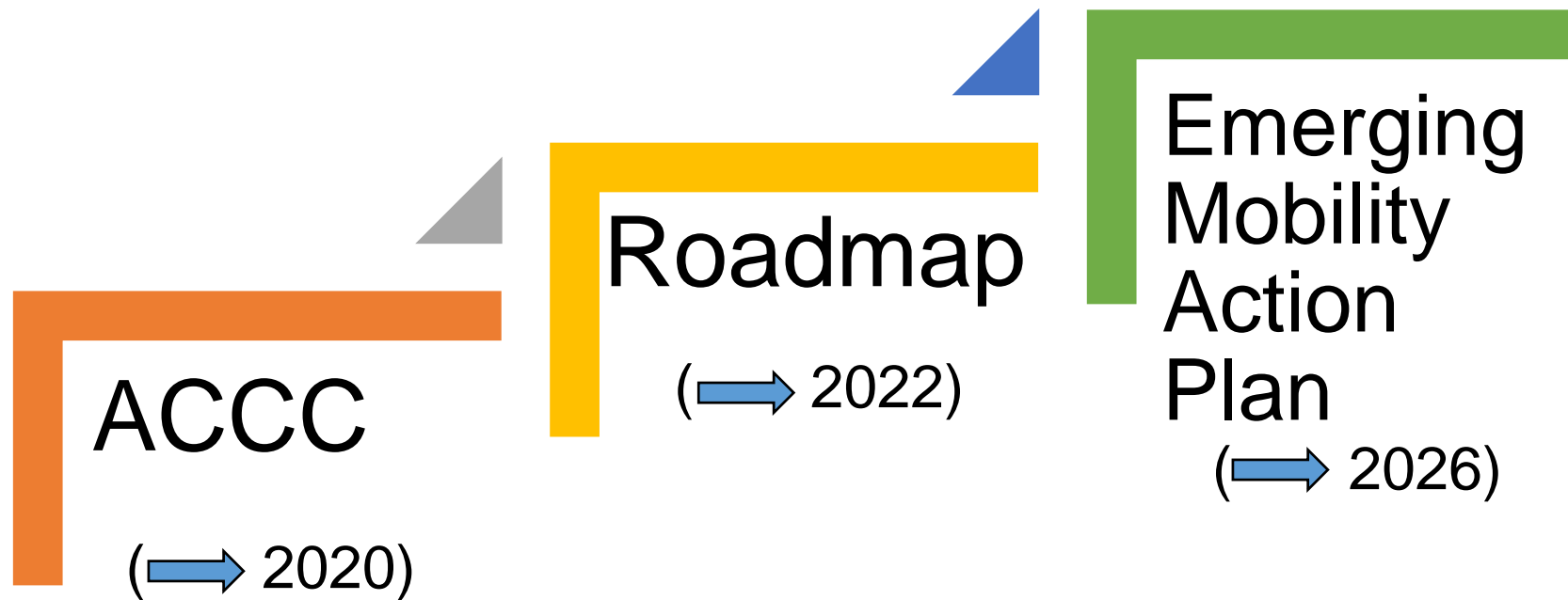


Average Number of Registered EVs Per 100 Households By Quintile



Source: Shared-Use Mobility Center

Building Blocks to Achieve City Goals



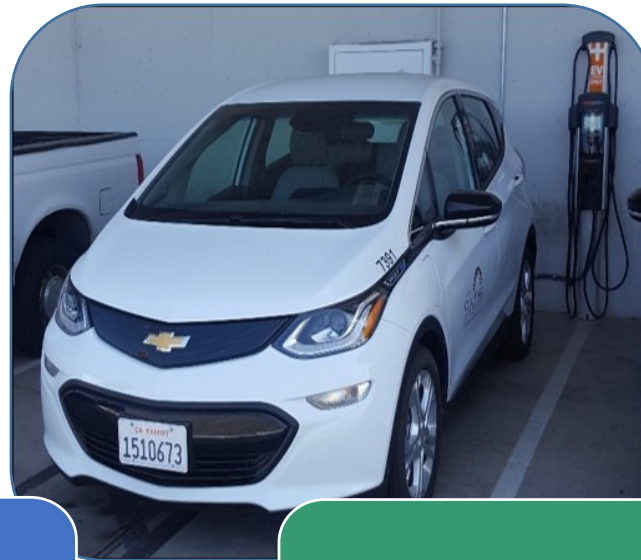
Climate Smart San Jose

Envision San Jose 2040

The Electric Mobility Roadmap



1. Infrastructure



2. Fleet



3. Personal Vehicles & Shared Mobility

Electric Vehicle Chargers

Level 1 (110 v.)



Level 2 (240 v.)



Direct Current Fast Charger (480+ v.)



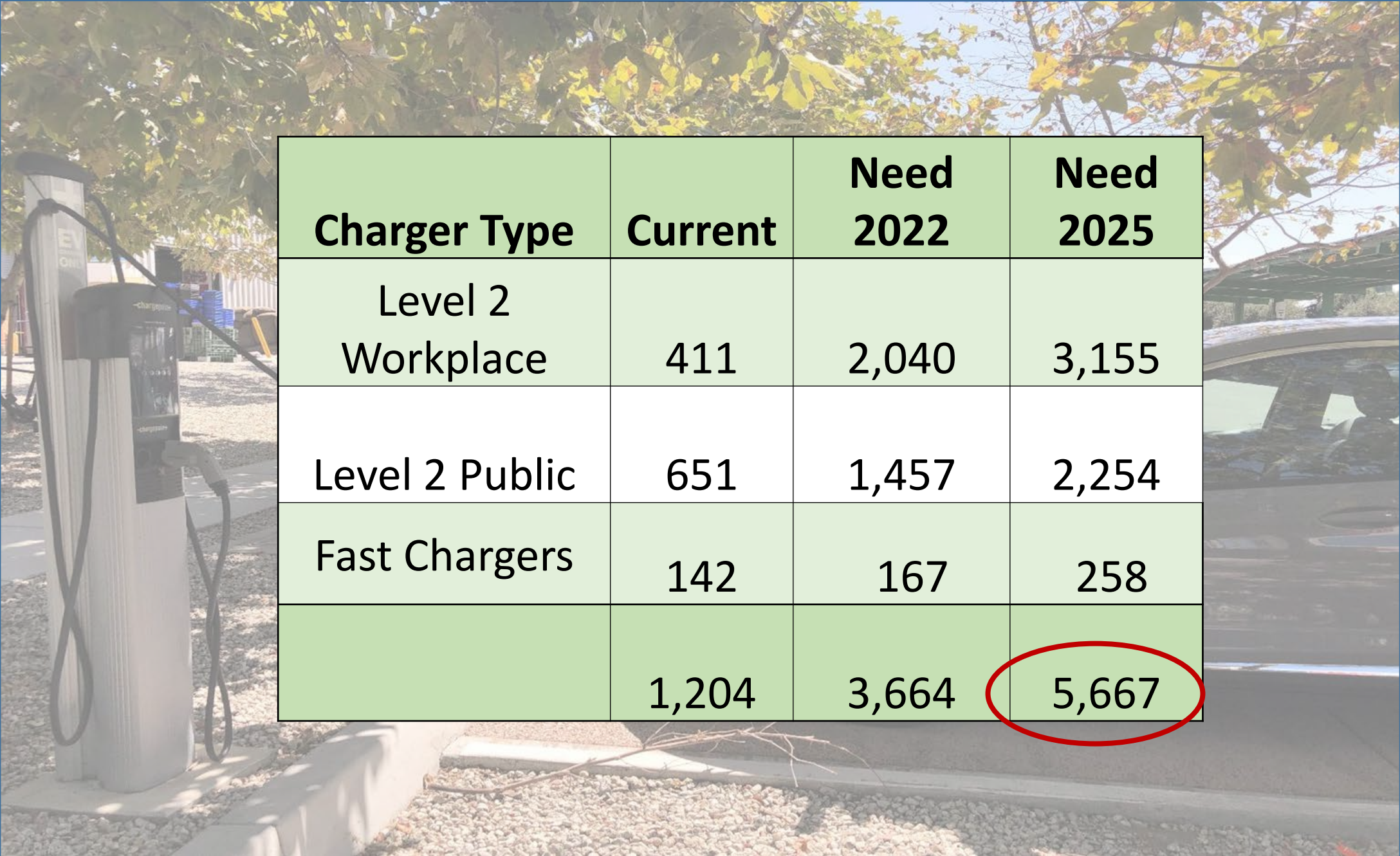
Time required to fully charge a Nissan Leaf:

20 hours

4-8 hours

30 minutes

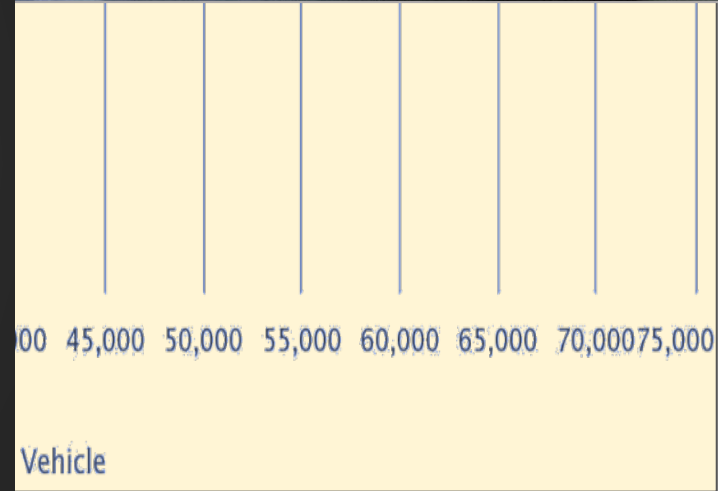
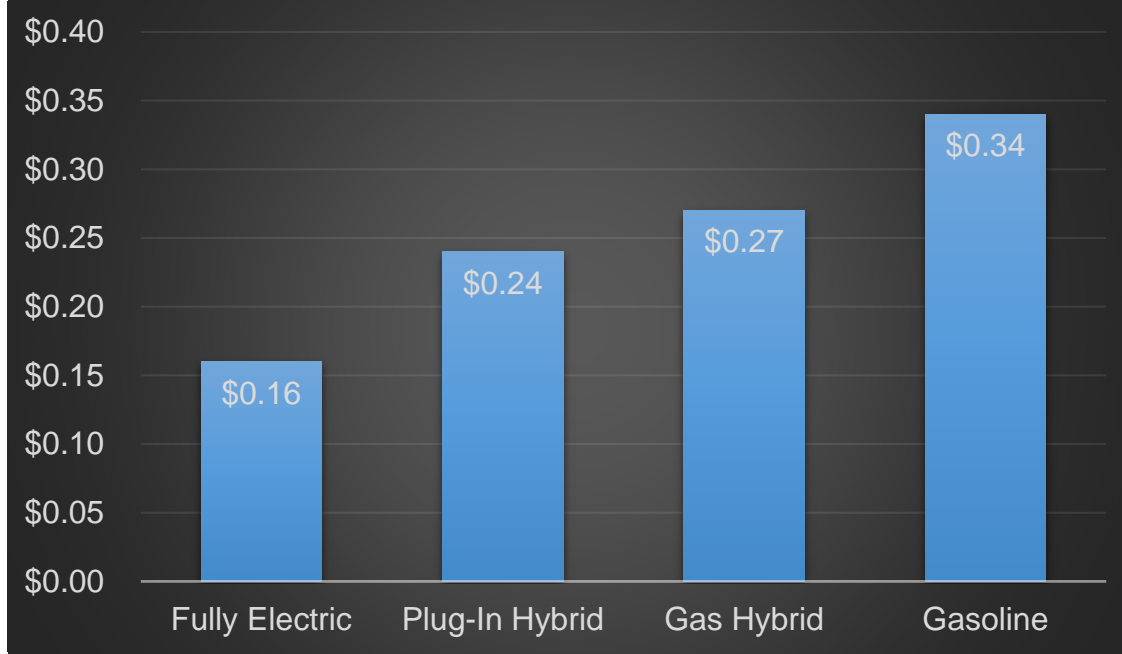
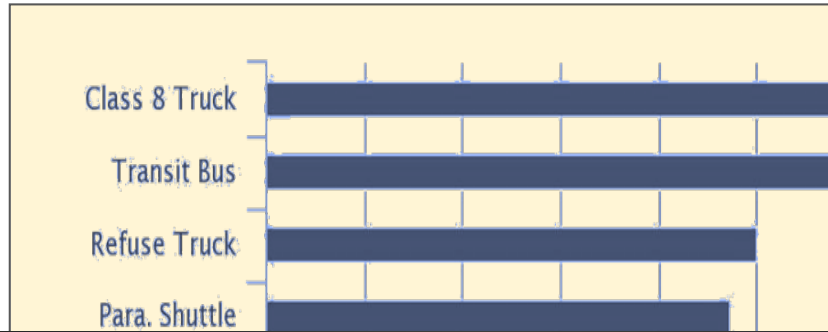
1. Infrastructure



Charger Type	Current	Need 2022	Need 2025
Level 2 Workplace	411	2,040	3,155
Level 2 Public	651	1,457	2,254
Fast Chargers	142	167	258
	1,204	3,664	5,667

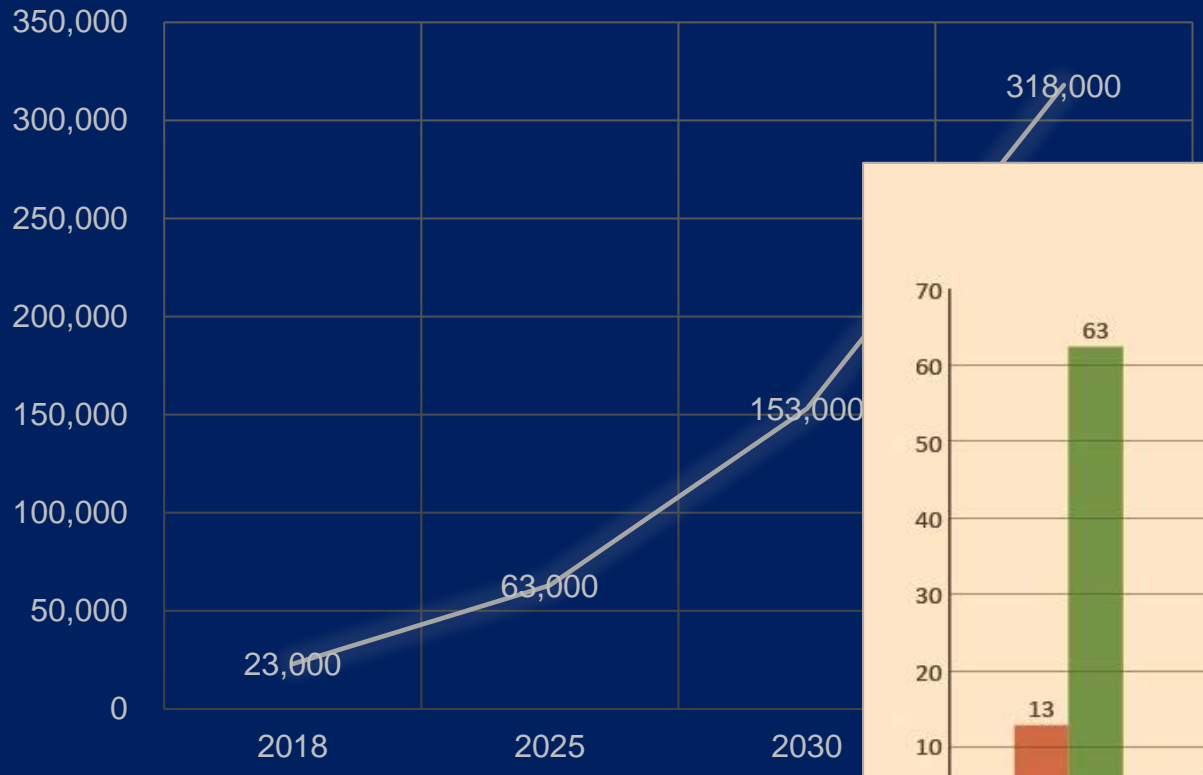
2. Fleet

Average Annual
by Major V



3. Personal Vehicles

San José Climate Smart Goals for Plug-In Electric Passenger Vehicles



Source: Southwest Energy Efficiency Project

Brown: Monthly sales before group buy
Green: Monthly sales during group buy

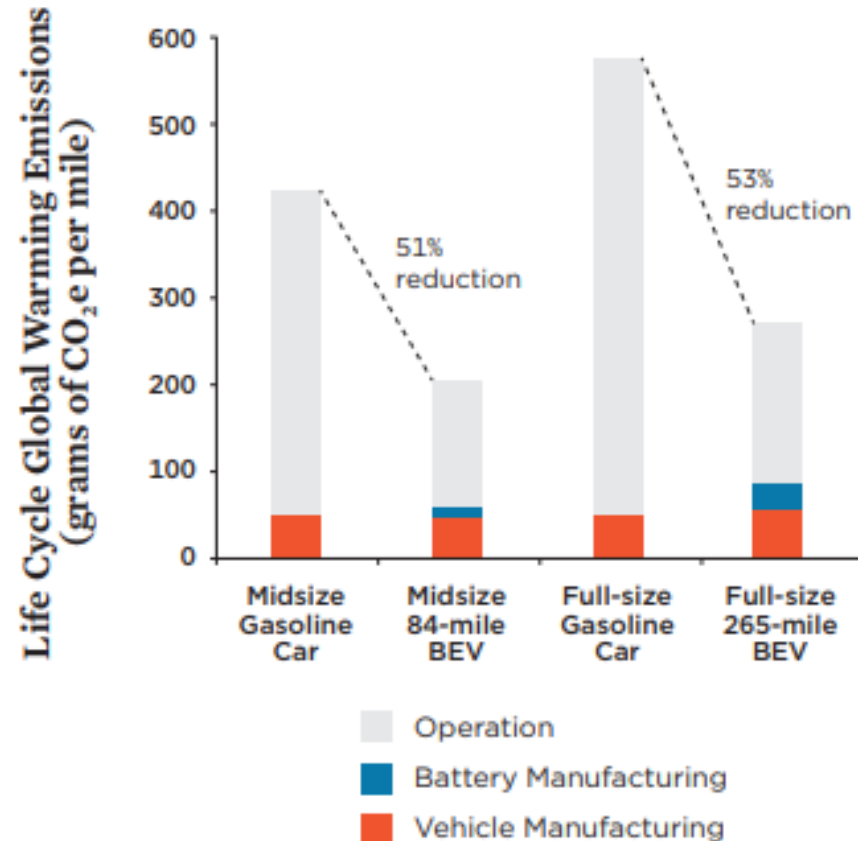
3. Shared Mobility



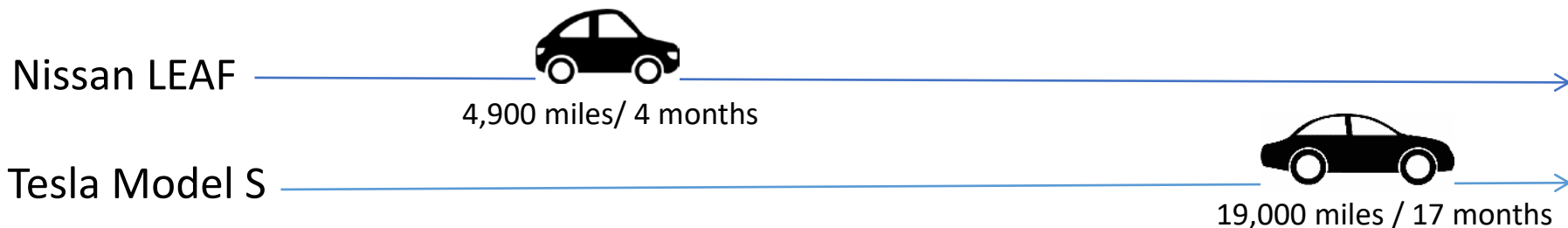
Life Cycle Emissions

Electric vs. Gas-Powered Vehicles

- Higher emissions EV production
- Lower operating emissions offset:
 - 50% lower life cycle emissions nationally
 - 75% lower in California
- CA: Electricity 42% carbon-neutral; goal 100% by 2025.
- San José: 80% now; 100% by 2021
- EV “break-even” point low and falling; Gas vehicles never break-even.



Current Break-Even Point for BEVs in California



Next Steps

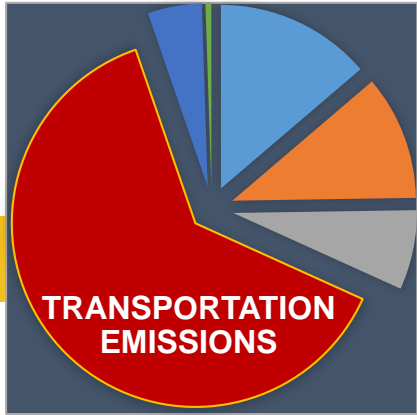
- Oct: Seek feedback from T&E Committee
- Dec: Present revised plan to Smart Cities & Service Improvement Committee
- Jan 2020: Present final plan to City Council



DRAFT

San José Electric Mobility Roadmap

2020-2022



1. INFRASTRUCTURE

2. FLEET VEHICLES



3a. SHARED MOBILITY



3b. PERSONAL OWNERSHIP

