San José Electric **Mobility Roadmap**

2020-2022 DRAFT

INFRASTRUCTURE



INFORMATION IN MULTIPLE LANGUAGES

RIDE & DRIVES

FLEET VEHICLES



SHARED MOBILITY

REACH CODE



e-CAR SHARING

PUBLIC-PRIVATE PARTNERSHIPS

INCENTIVES





e-RIDE HAILING

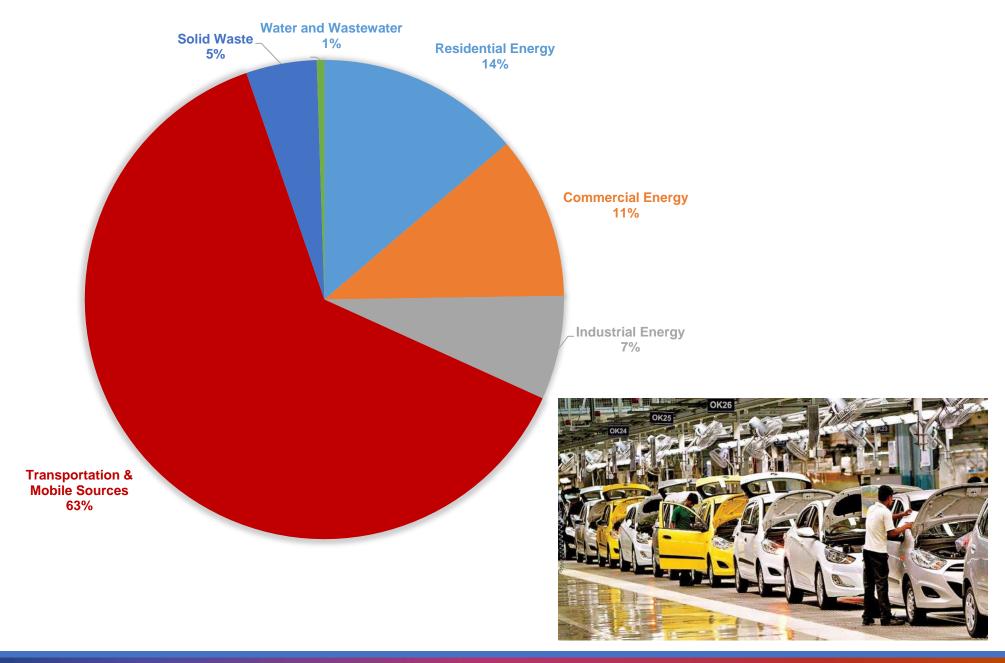
PERSONAL OWNERSHIP

GROUP BUY

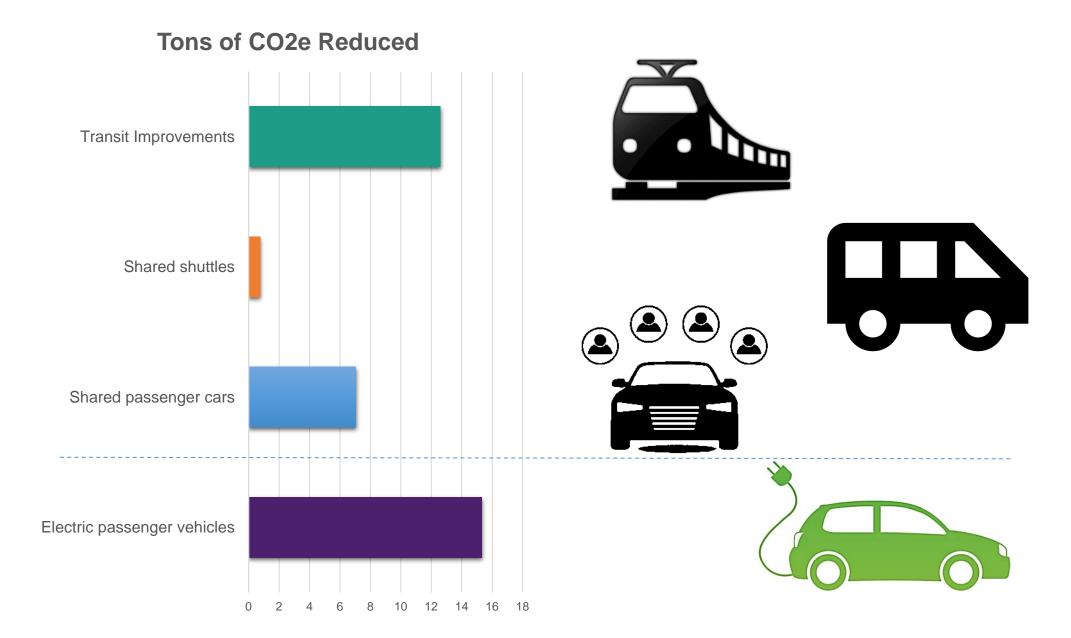
DISCOUNTED RATES FOR LOWER INCOME RESIDENTS

October 7, 2019 Transportation & Environment Committee Laura Stuchinsky, DOT, Emerging Mobility Program Lead

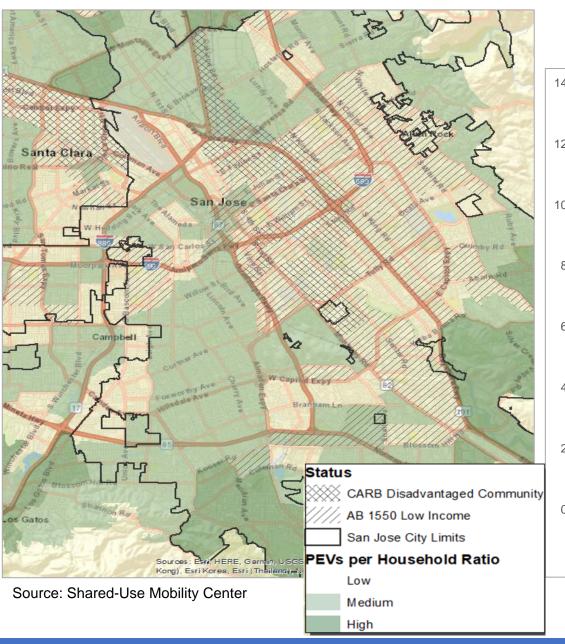
2017 San José GHG Emissions



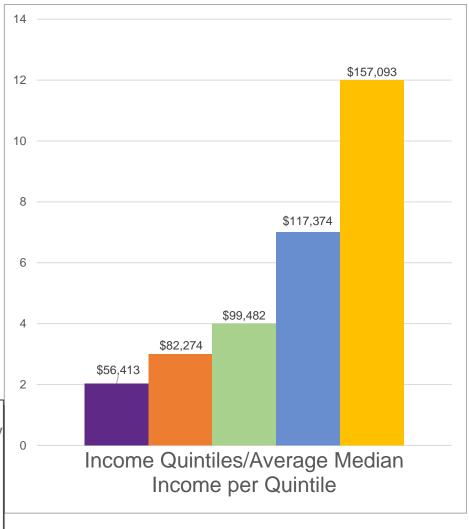
Multi-Prong Strategy



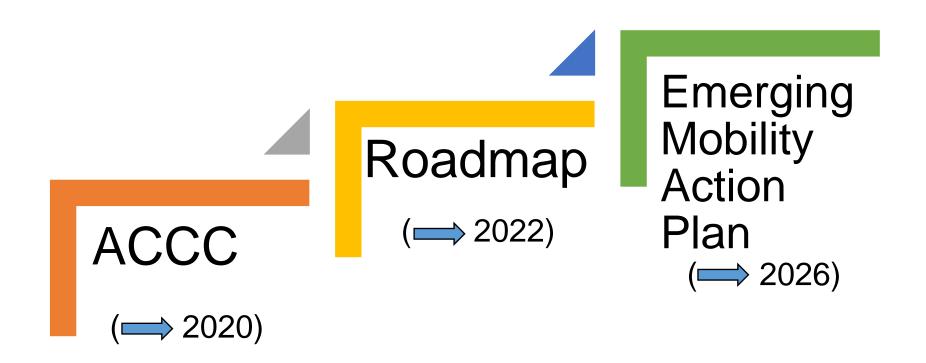
Equity



Average Number of Registered EVs Per 100 Households By Quintile



Building Blocks to Achieve City Goals



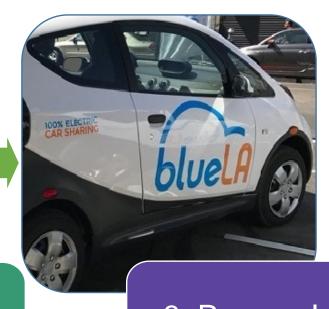
Climate Smart San Jose

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

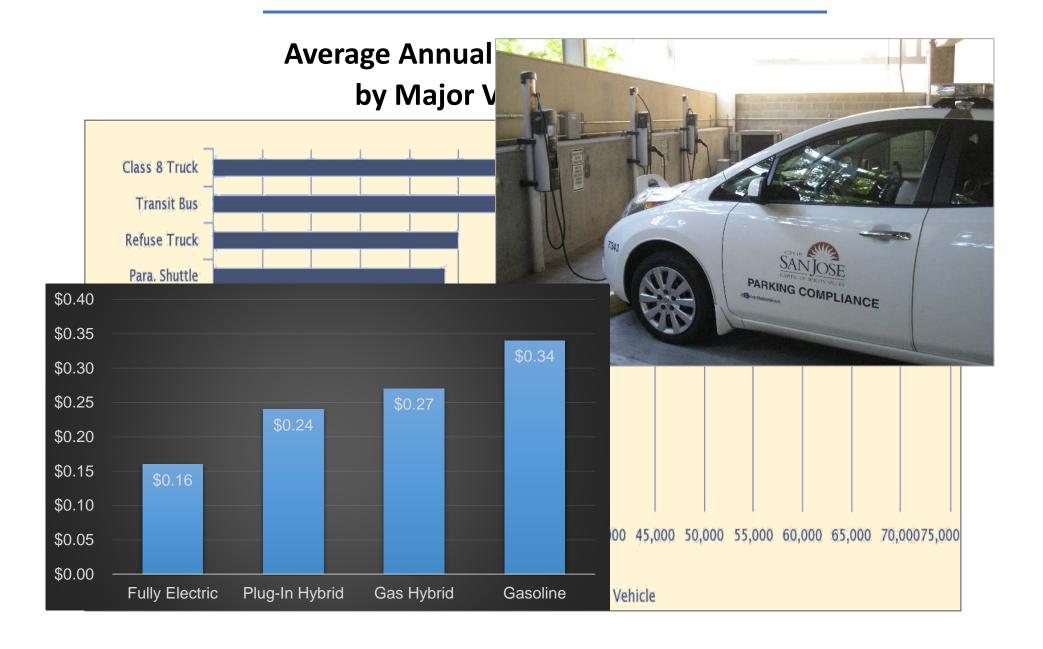
4-8 hours

30 minutes

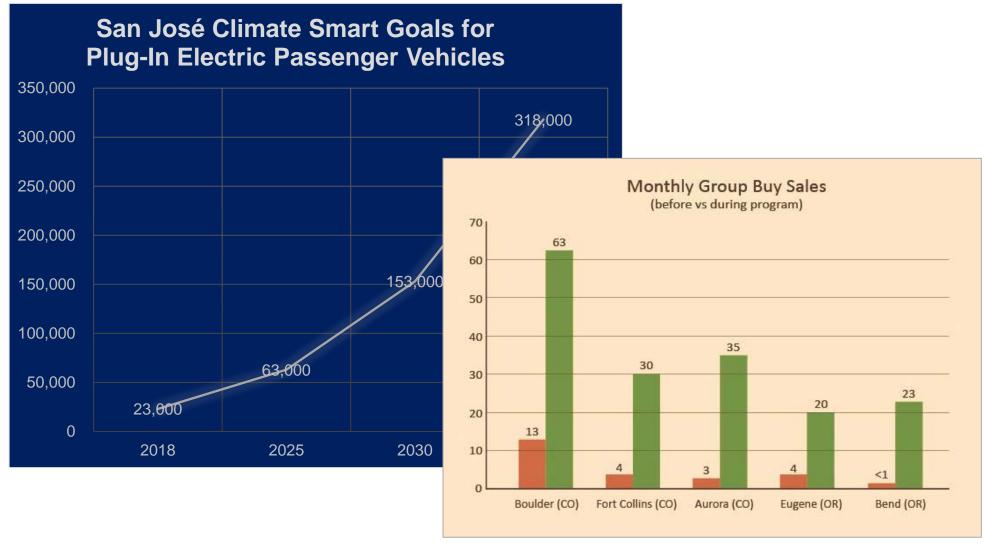
1. Infrastructure

	Need	Need
Current	2022	2025
411	2,040	3,155
651	1,457	2,25
142	167	258
		5,667
	411 651	Current 2022 411 2,040 651 1,457

2. Fleet



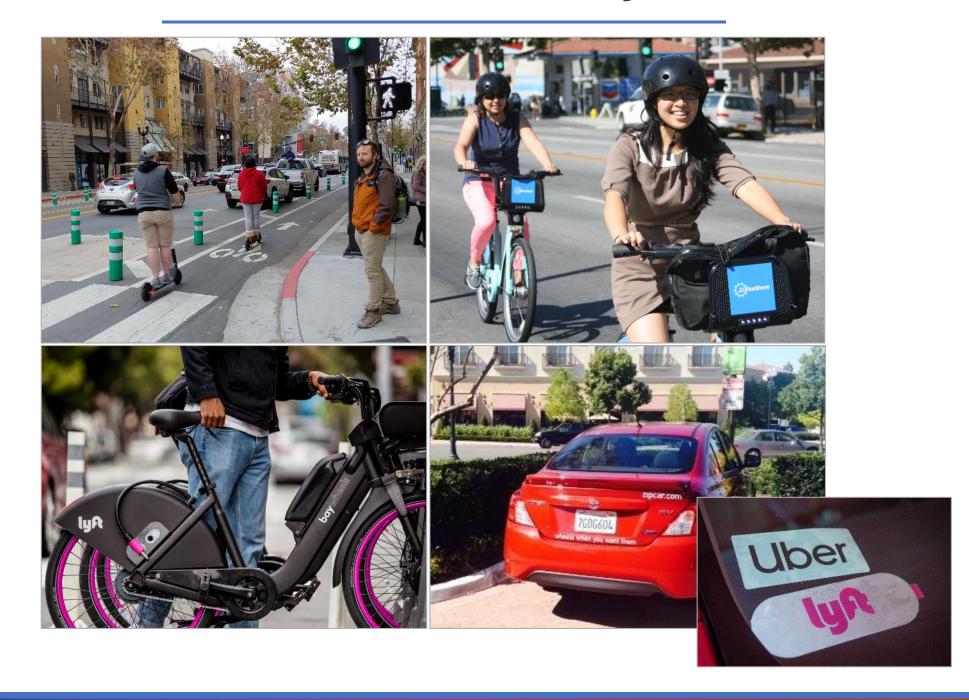
3. Personal Vehicles



Source: Southwest Energy Efficiency Project

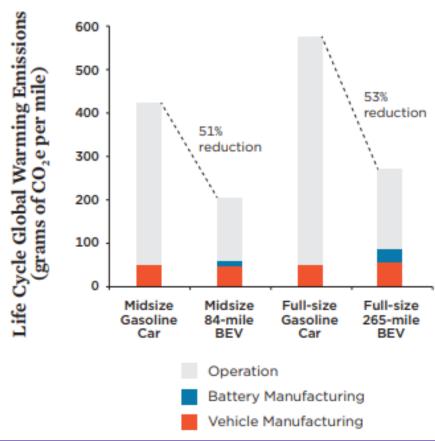
Brown: Monthly sales before group buy Green: Monthly sales during group buy

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.





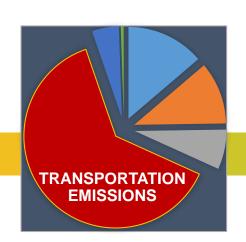
Next Steps

- 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



13 Climate Smart San José





San José Electric Mobility Roadmap

2020-2022



3a. SHARED MOBILITY











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