

Electrifying Transportation in San Francisco

Prepared for the San Francisco County Transportation Authority, Board of Directors

January 28, 2020





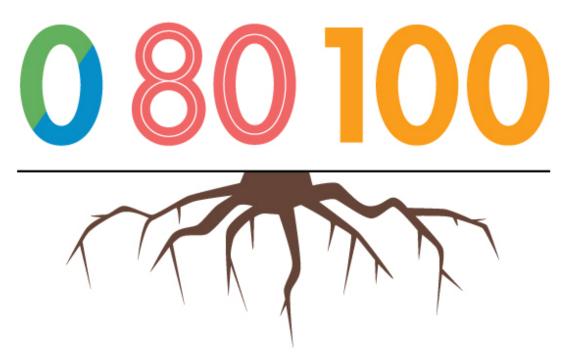
Net Zero Emissions

San Francisco's Climate Action Strategy





SAN FRANCISCO CLIMATE ACTION



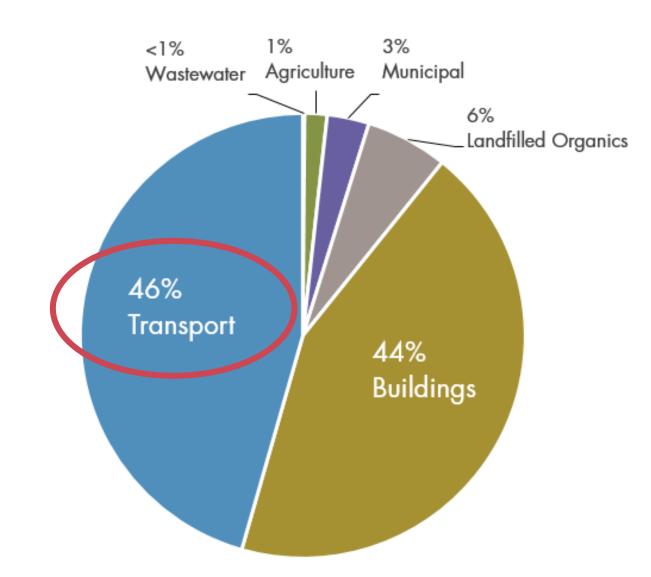
Decreasing Emissions in a Growing City (1990-2017)





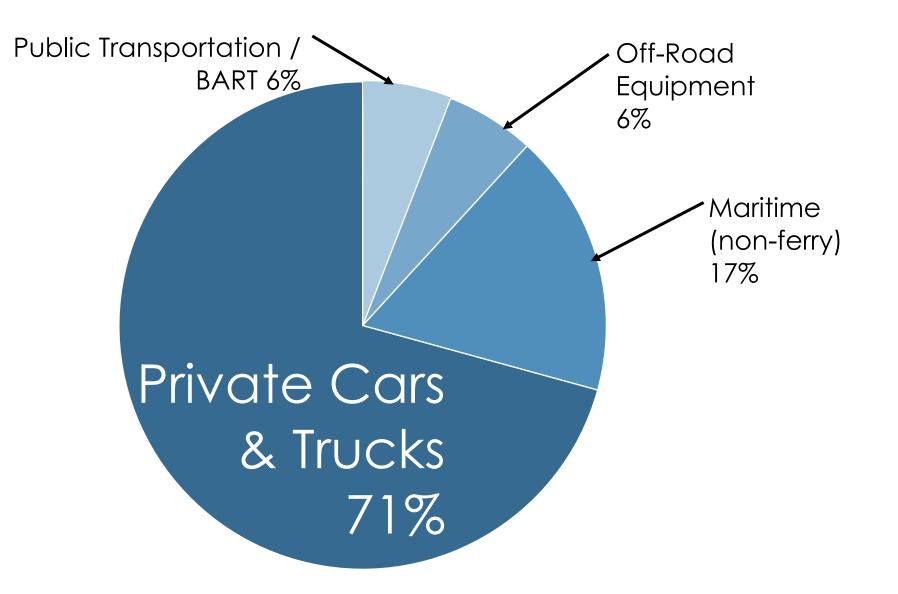
2017 Emissions Share





Transportation Sector Emissions





Our Transit First Policy





Electrify Transportation







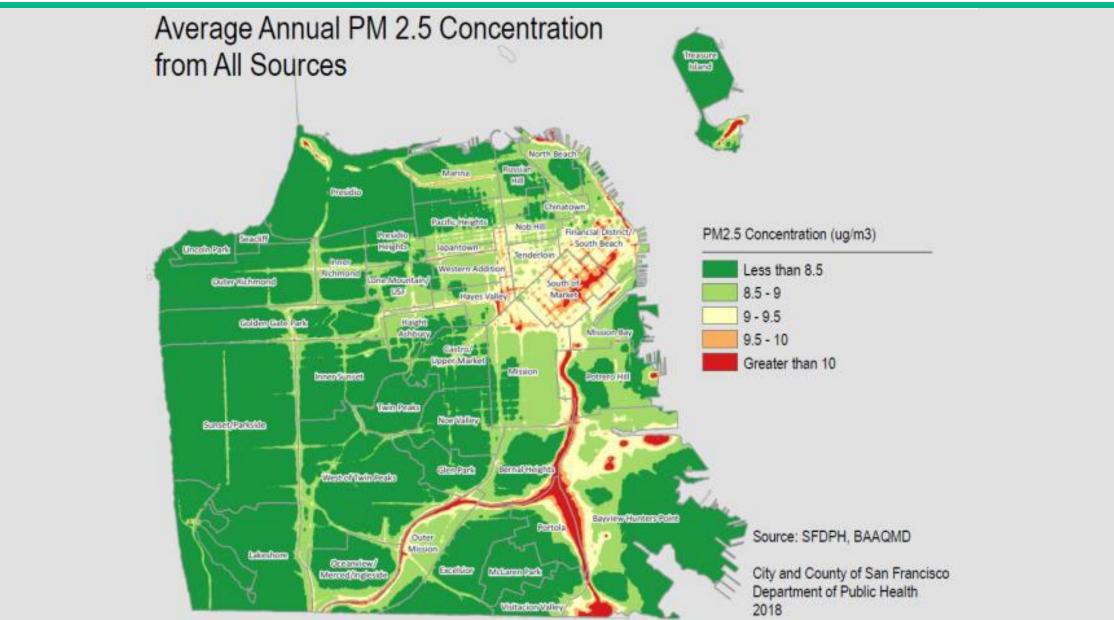
Tailpipe emissions – more than just greenhouse gases



Air Quality and Equity



10







2025 Target: 50% New Vehicles are Electric

2030 Target: 100% New Vehicles are Electric

2040 Target: 100% ALL Vehicles are Electric

EV Roadmap's Six Strategies

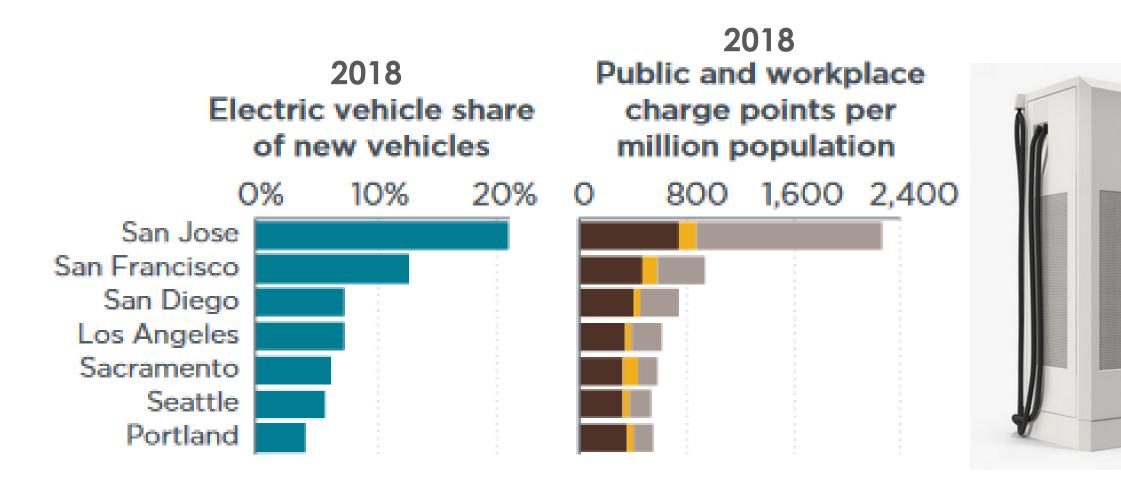


- 1) Public Awareness
- 2) Incentives
- 3) Charging Infrastructure
- 4) Electrical Grid
- 5) Medium- & Heavy-Duty Vehicle
- 6) Emerging Mobility



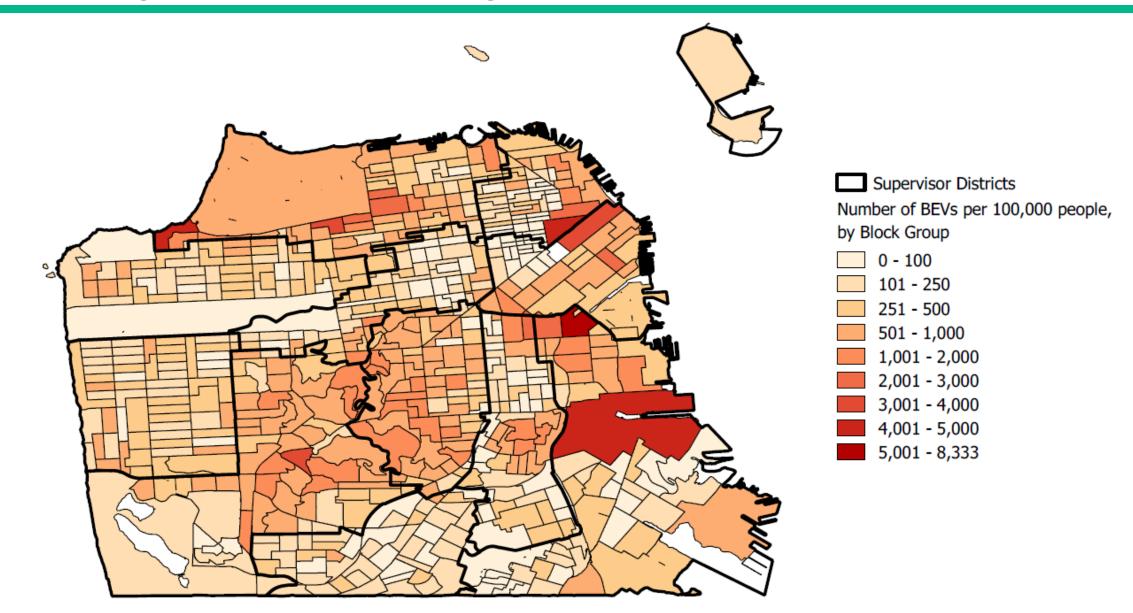
As Compared to Others





EV Registrations by Neighborhood





Challenge of a Dense City

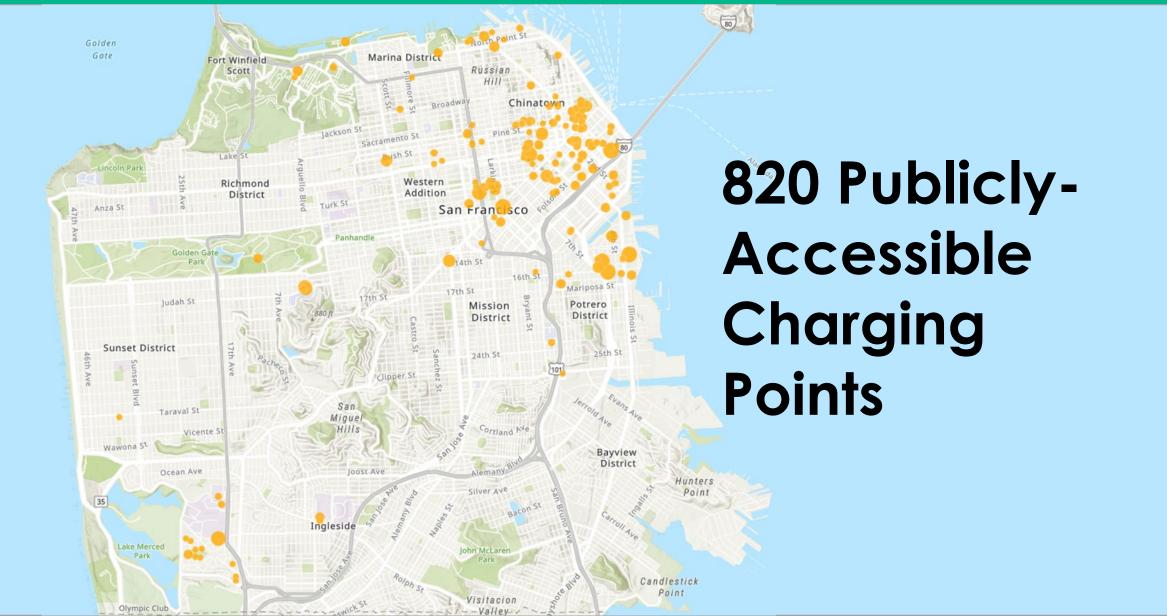




Publicly Available Charging Locations

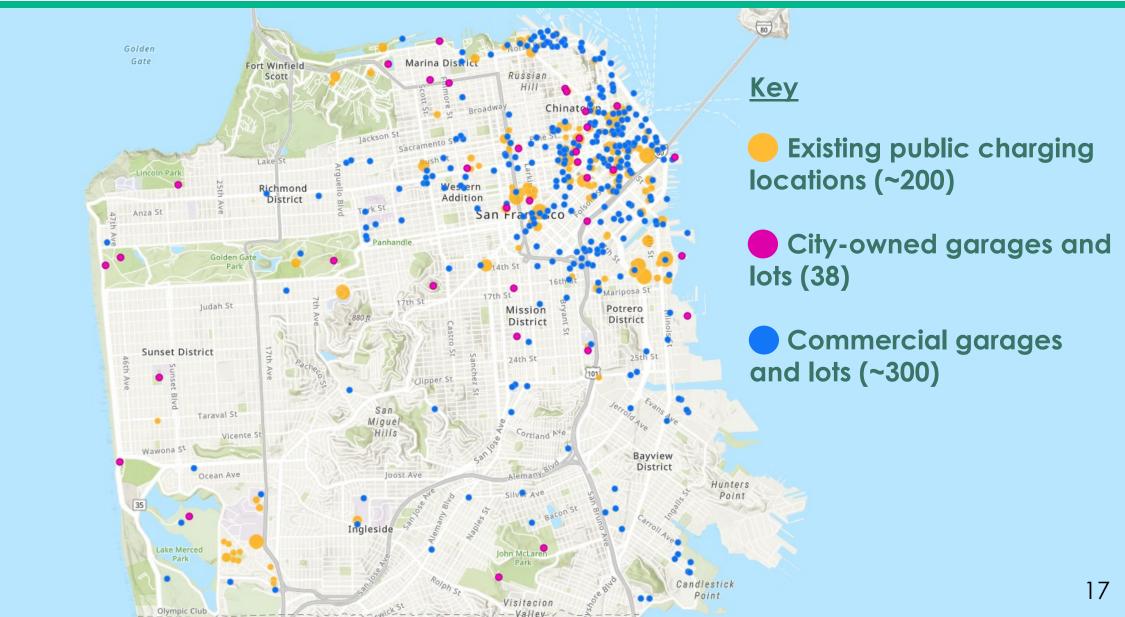


16



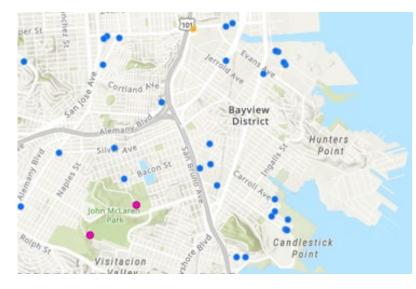
Potential Impact of New Policies











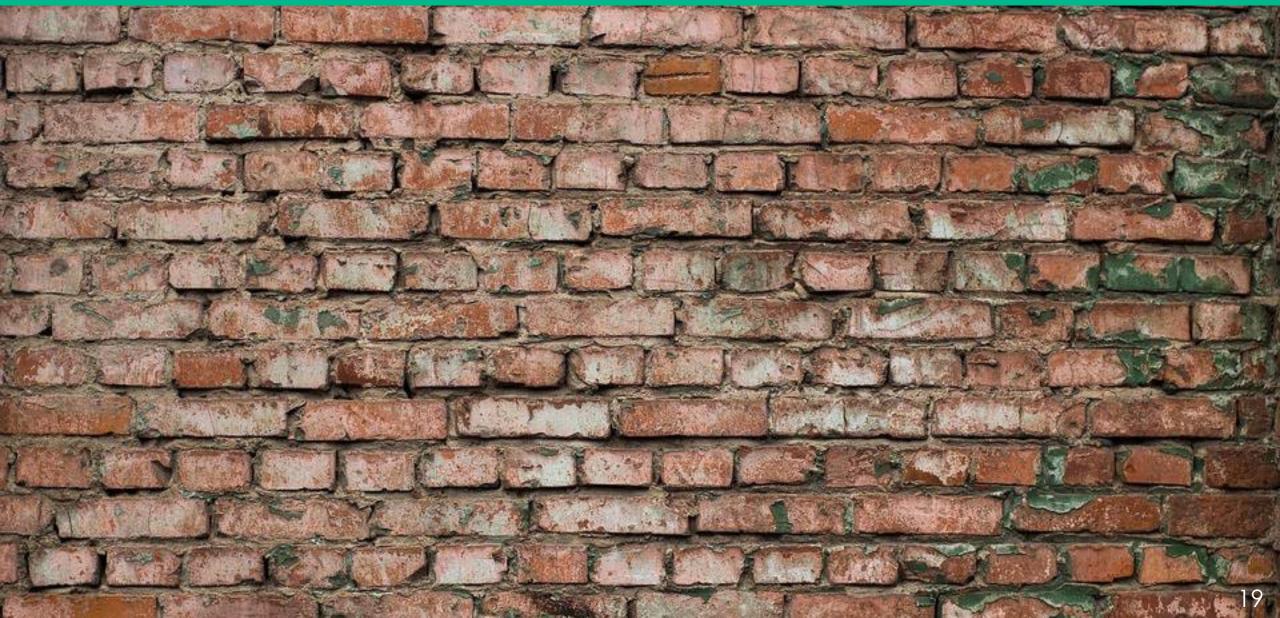






Barriers





Barriers



- Competition for curb space
- Placement of transformers (sidewalk vaults)
- Grid limitations (PG&E requirements)
- Cost of infrastructure installation (existing bldgs.)
- Complexity of incentives
- Fire department uncertainty
- Restrictions on repaying







SFMTA, SFPUC and SFE Partnership







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