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SB 1000 Electric Vehicle Charging Infrastructure Deployment Assessment

Tiffany Hoang, Air Pollution Specialist
IEPR Charging Infrastructure Workshop
August 4, 2020



Agenda

- SB 1000 Background
- Preliminary Findings
- Next Steps
- Q&A



Background

TASK

Assess light-duty charging station infrastructure annually to identify whether deployment, including distribution and access, is disproportionate by geographical area, population density, or population income level (low-, middle-, and high-income levels)

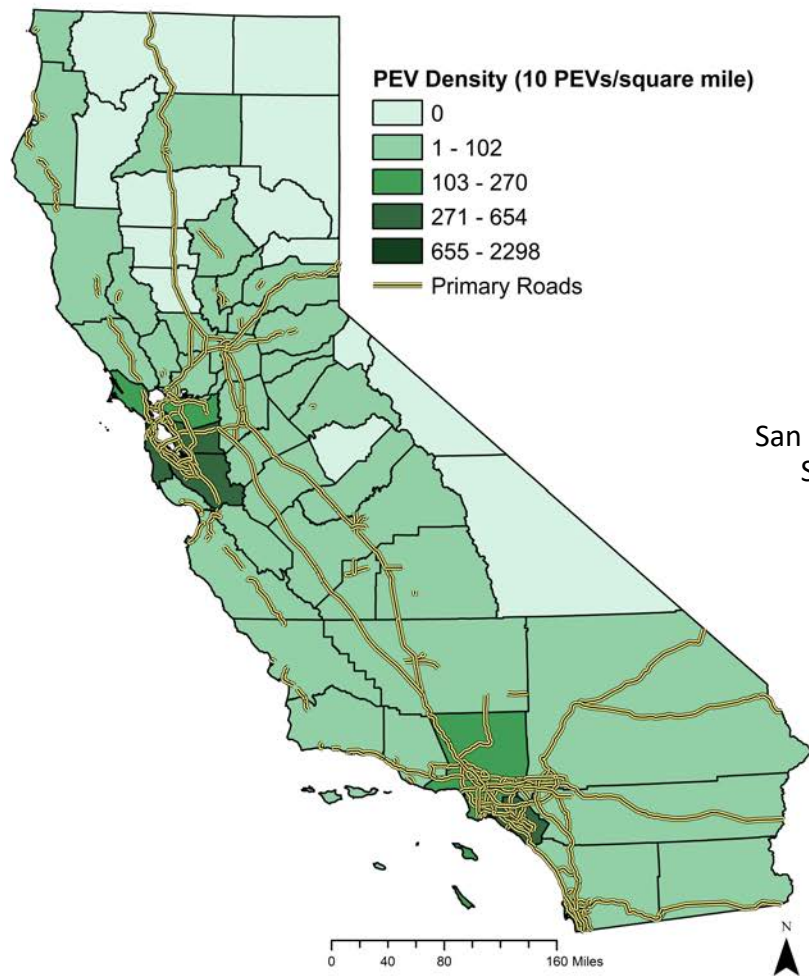
GOAL

Identify where California Energy Commission Clean Transportation Program investments can be allocated to increase charging access to *all* California communities and ensure equitable distribution of electric mobility benefits

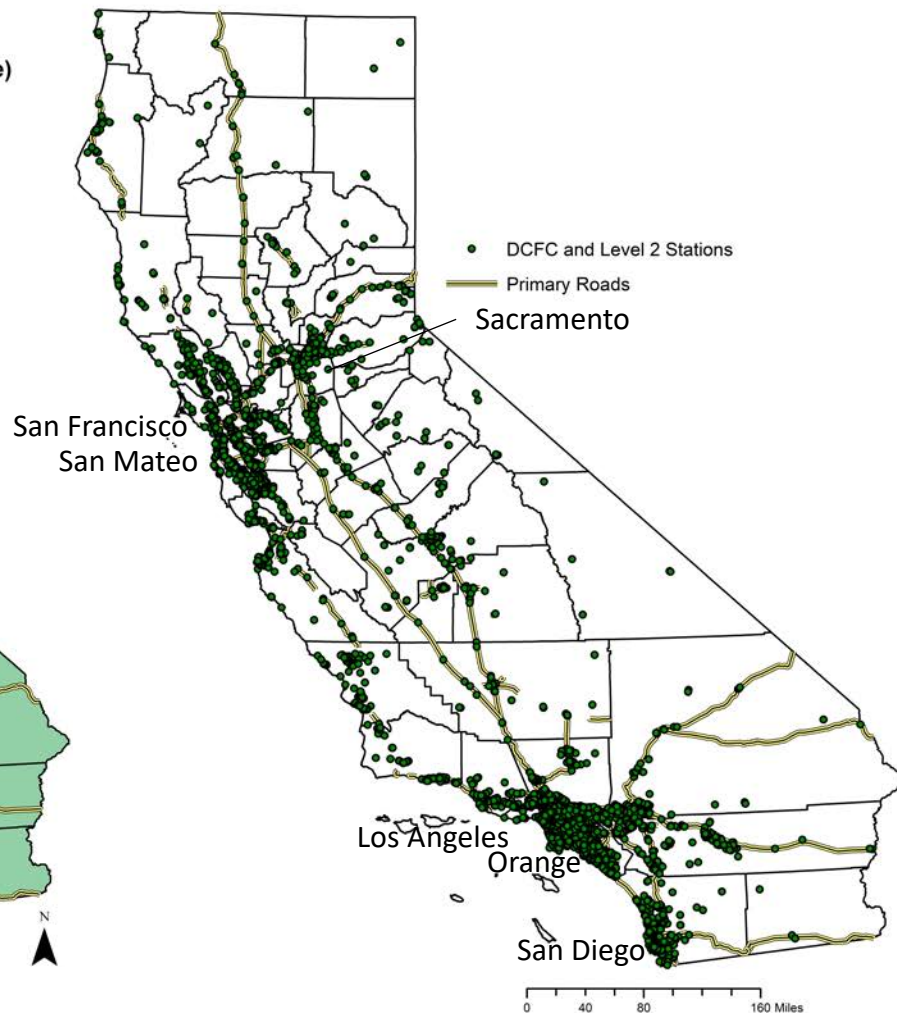


State Distribution of Charging Infrastructure

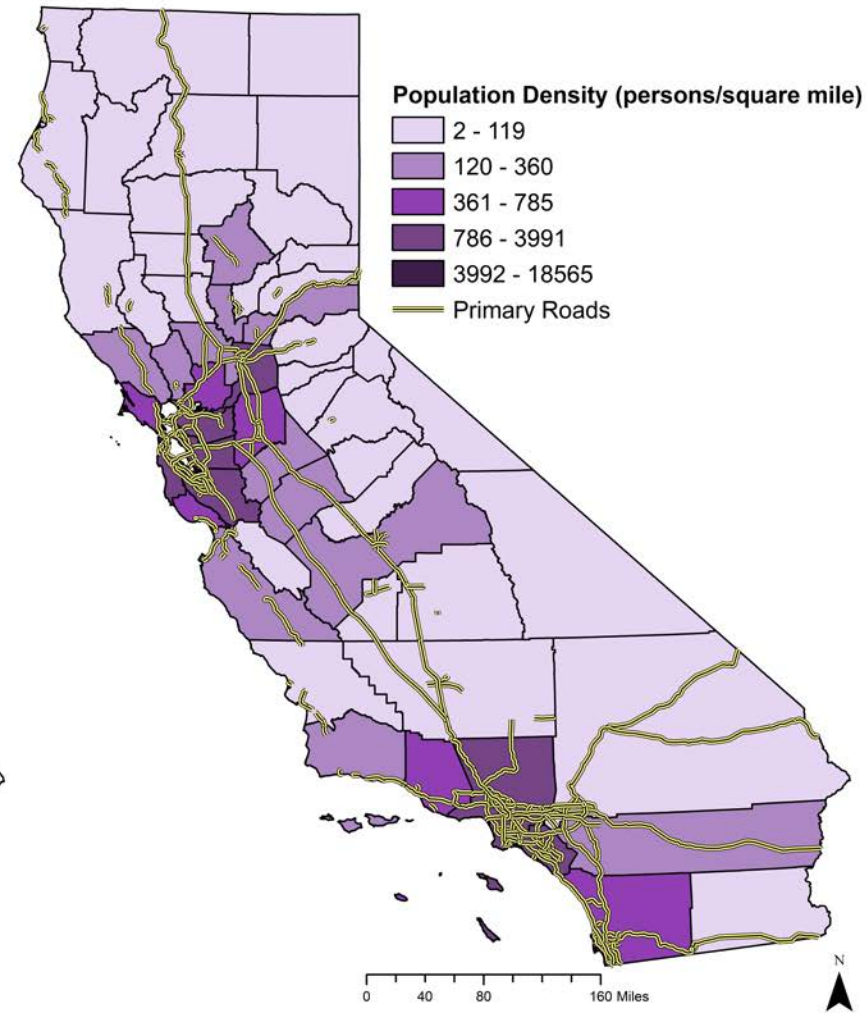
Plug-In Electric Vehicle Density



Public Level 2 & DC Fast Charging Stations



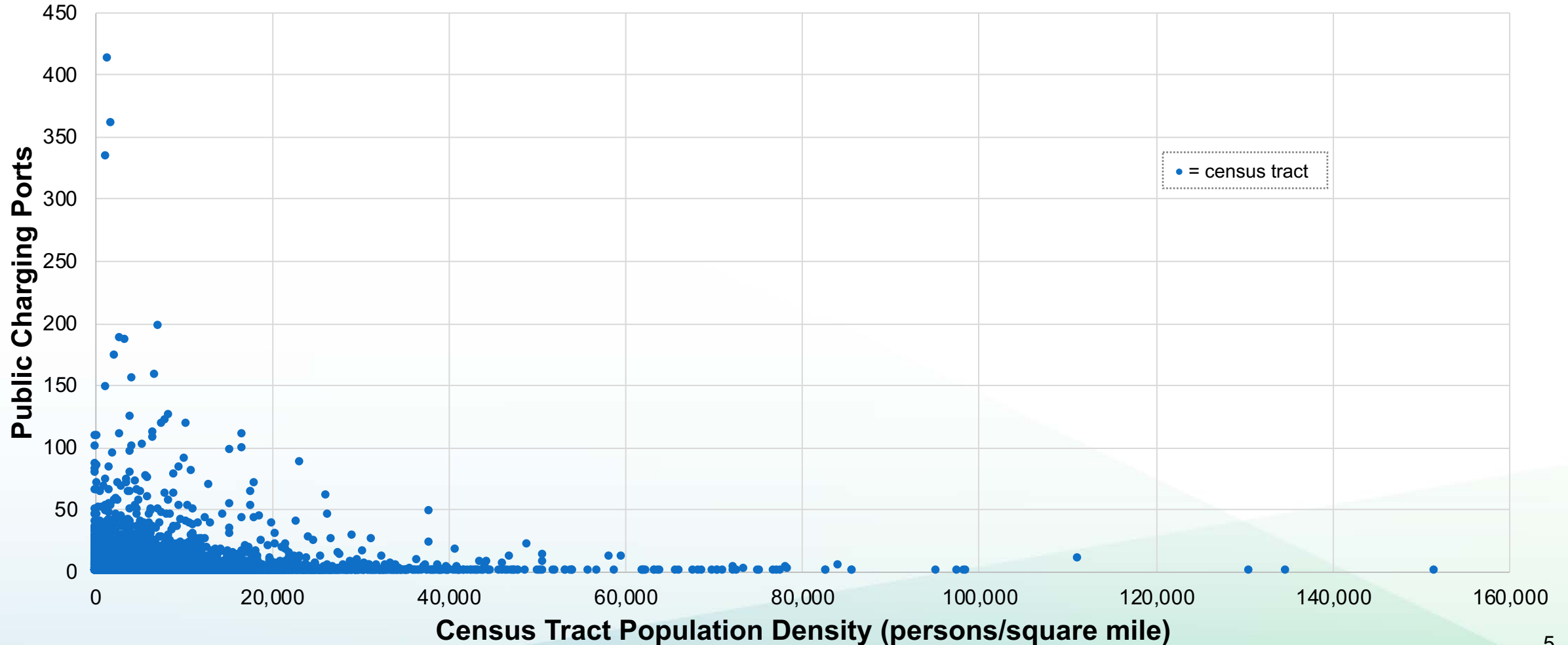
Residential Population Density





Preliminary Findings: Land use contributes to fewer public chargers in high population density areas

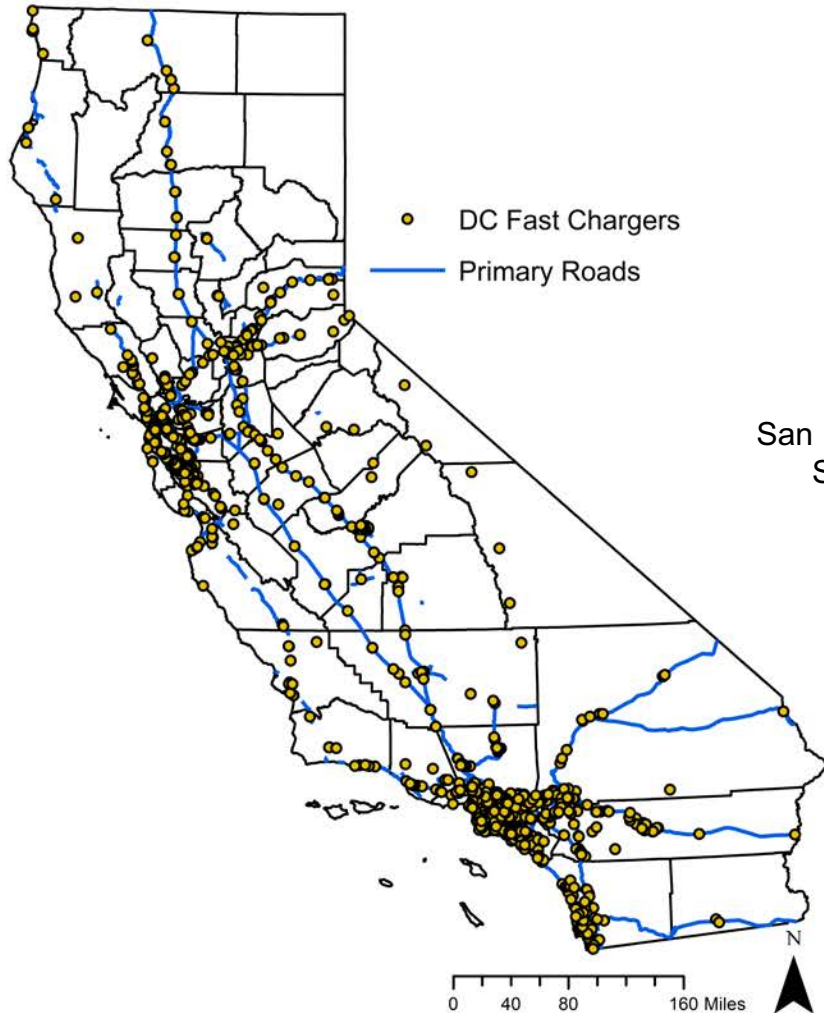
Public Level 2 & DC Fast Charging Port Distribution by Census Tract Population Density



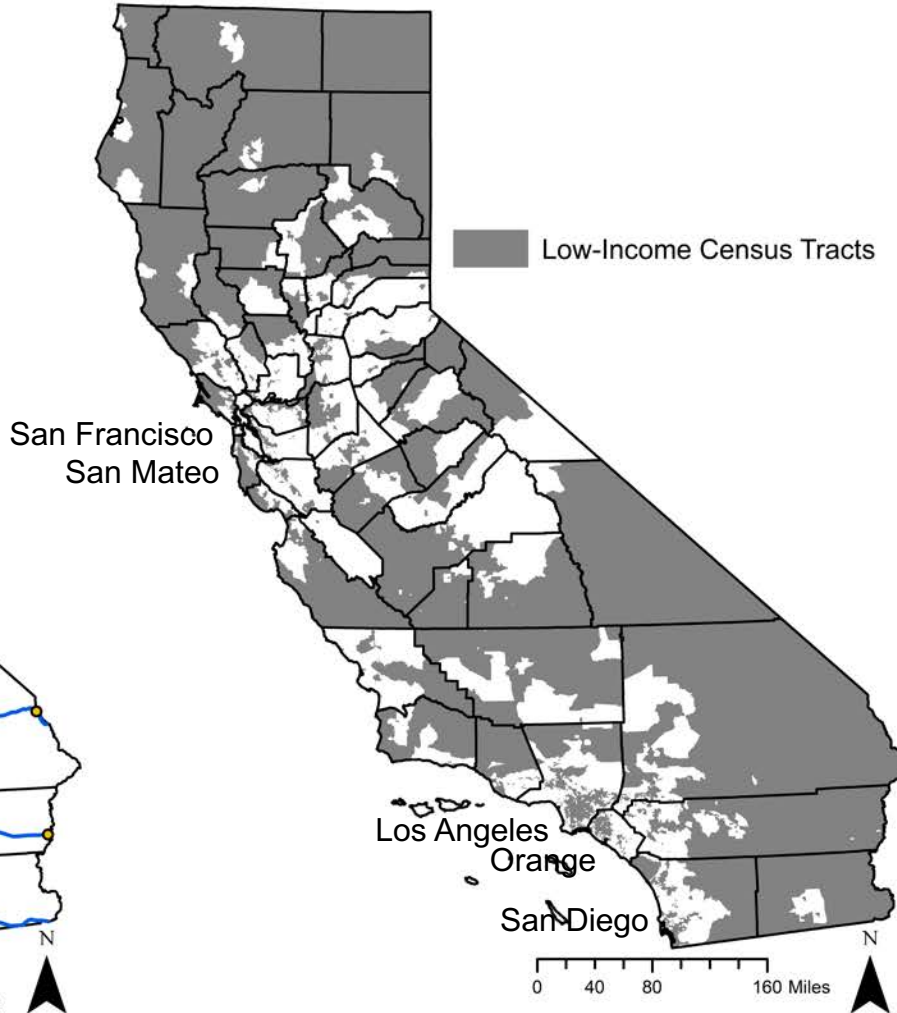


State Distribution of Charging Infrastructure

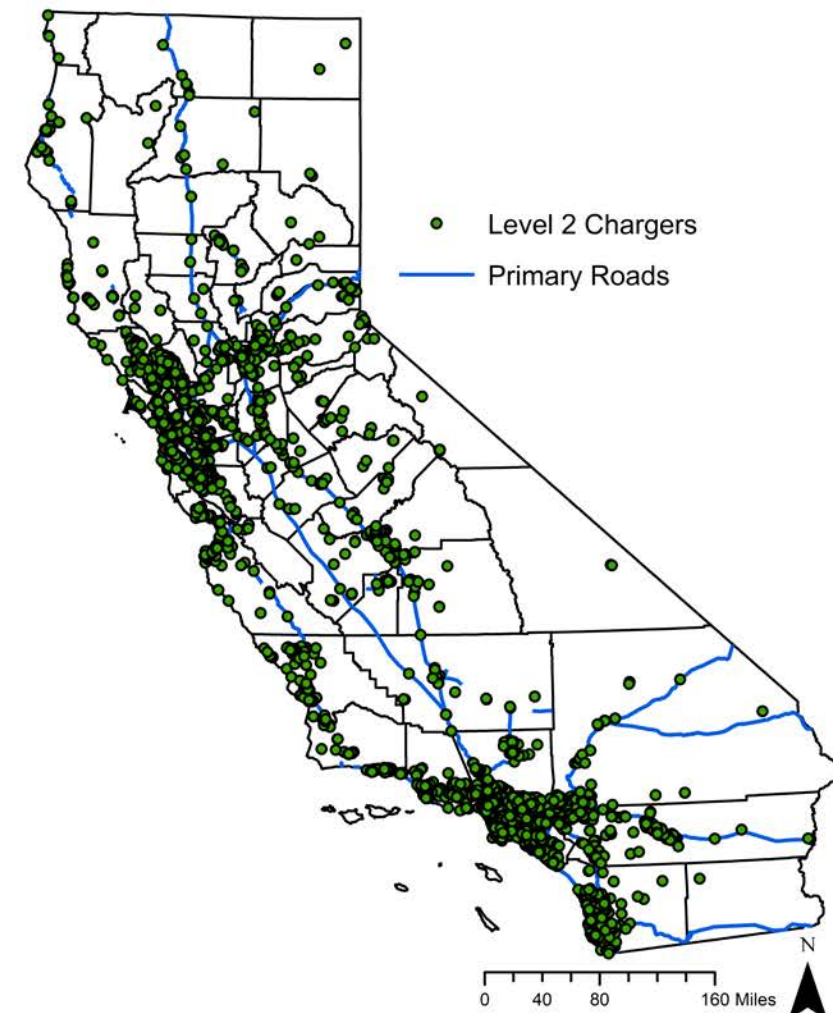
Public DC Fast Charging Stations



Low-Income Communities



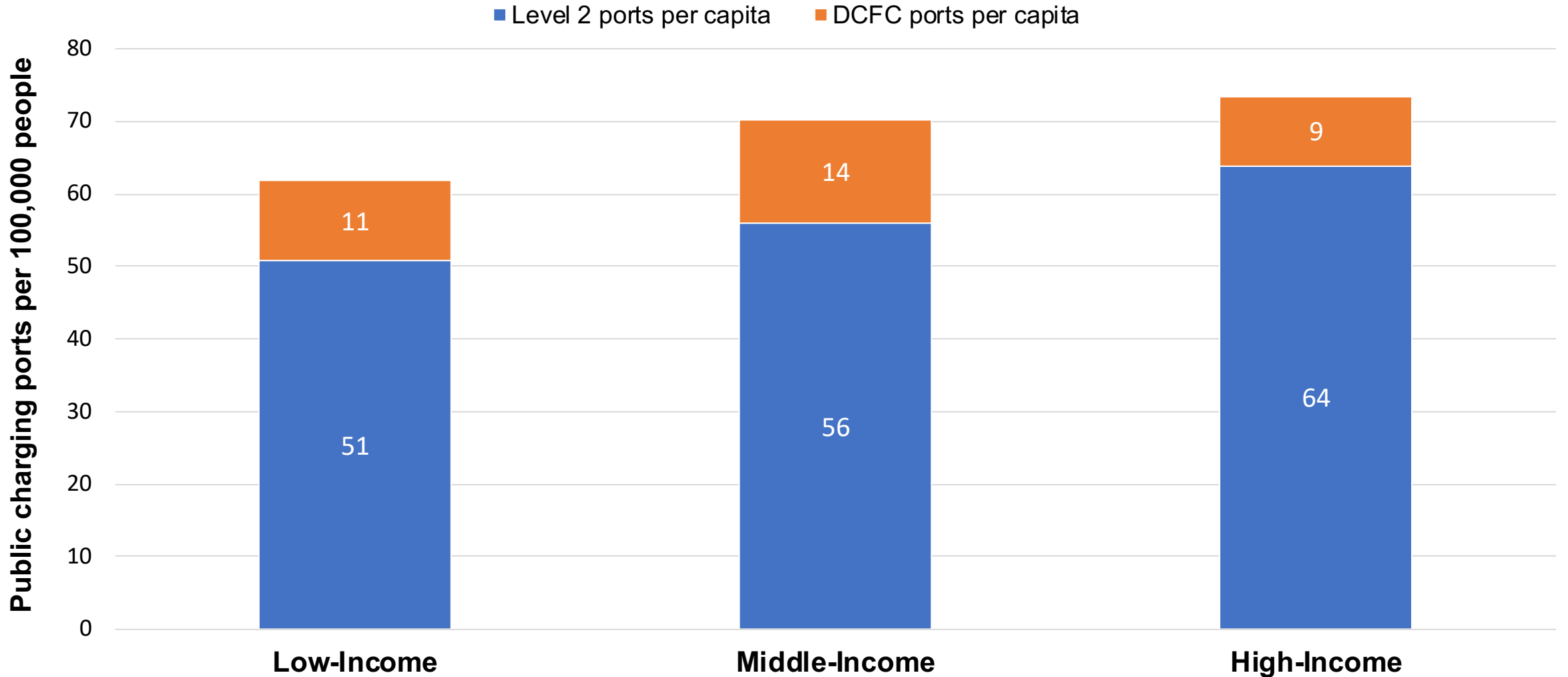
Public Level 2 Charging Stations





Preliminary Findings: The positive correlation between income level and public charger distribution is modest

Public Level 2 & DC Fast Charging Port Distribution





Next Steps

- Analyze housing stock data to identify where public chargers can fill gaps where residential charging is lacking
- Continue evaluating land use to identify where people live and are likely to charge
- Work with stakeholders to identify key charging access indicators
- Continue analyzing disproportionality

The SB 1000 staff report will be published in Quarter 4 (2020) and as an appendix to the AB 2127 staff report and Clean Transportation Program Investment Plan



Thank you!

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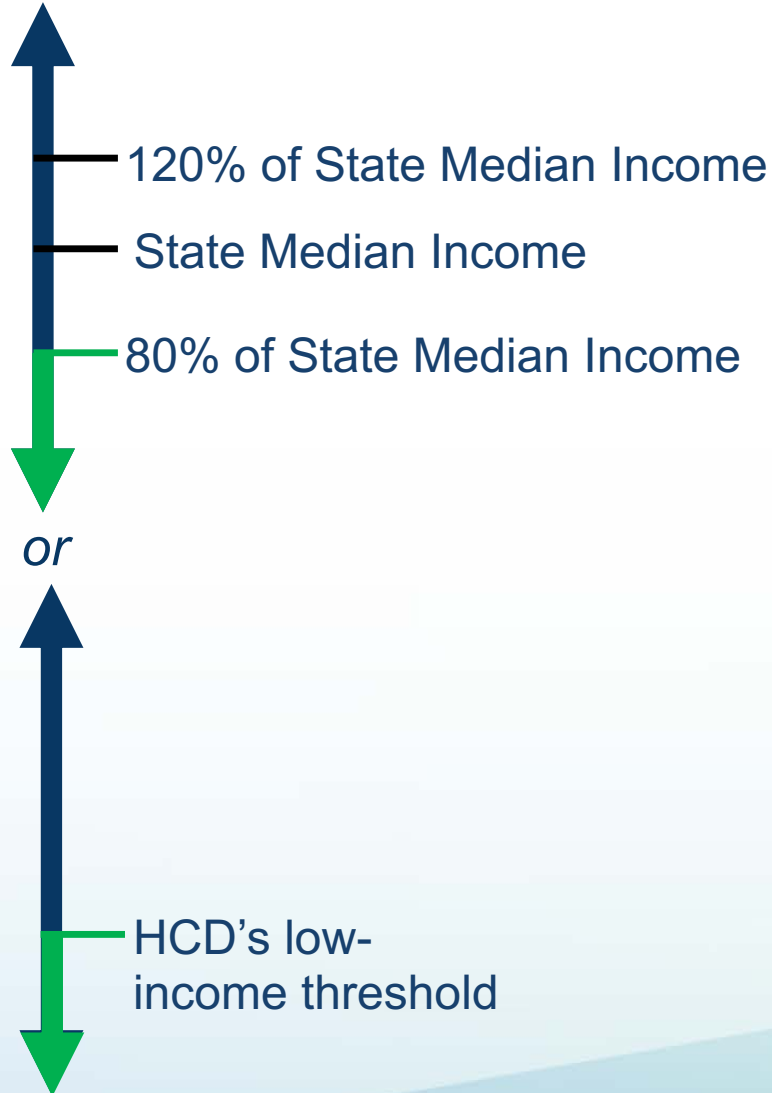
Appendix Slides



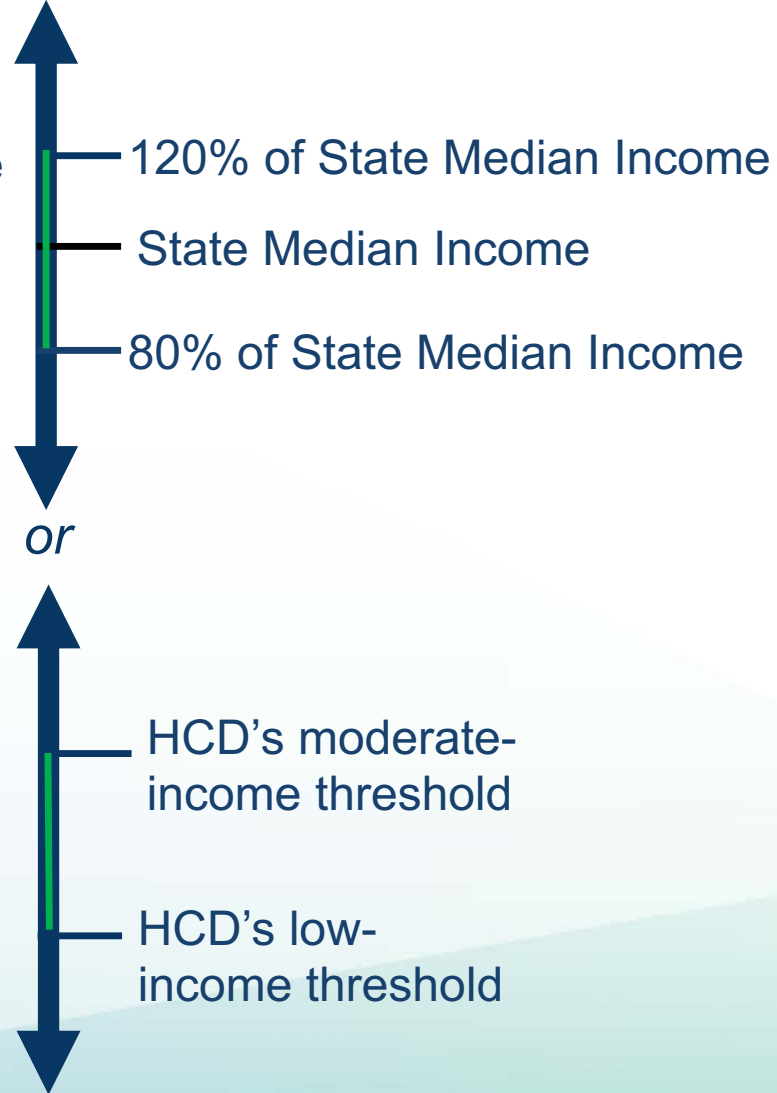


Definitions for Income Level

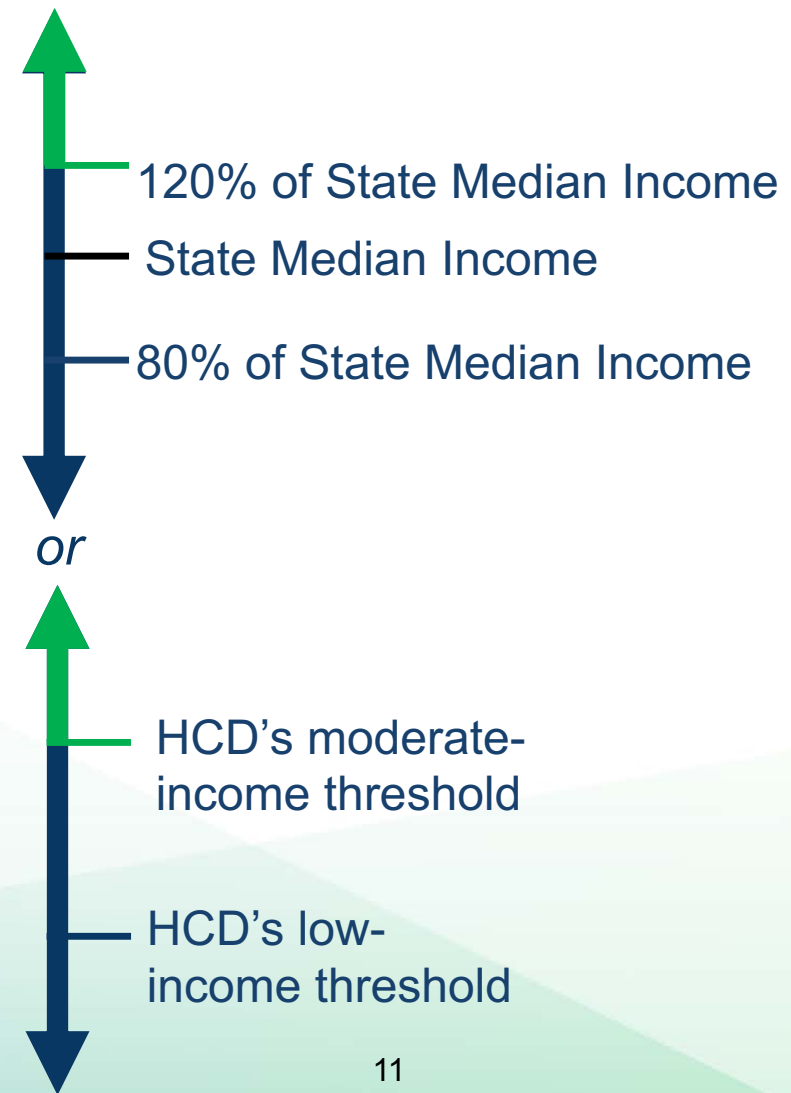
Low-Income



Middle-Income



High-Income





Low-, Middle-, and High-Income Communities

