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Senate Bill 1000

Electric Vehicle Charging Infrastructure Deployment Assessment

Public Workshop

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Fuels and Transportation Division
June 4, 2020

Workshop Agenda

- Introductions and Housekeeping
- Overview
  - Senate Bill 1000
  - Clean Transportation Program
- Proposed Methodology
- Preliminary Analysis
- Questions, Public Comment, and Discussion

Housekeeping

- The Q&A box is available for questions and comments throughout the presentation
- Participants on the phone can use the “raise hand” feature to ask questions and provide comments at the end of the presentation
- Diversity Survey

Commitment to Diversity

The California Energy Commission (CEC) adopted a resolution on April 8, 2015 to firmly commit to:

- Increase participation of women, minority, disabled veterans and LGBT business enterprises in program funding opportunities.
- Increase outreach and participation by disadvantaged communities.
- Increase diversity in participation at CEC proceedings.
- Increase diversity in employment and promotional opportunities.

Senate Bill (SB) 1000 Overview

Lara, Chapter 368, Statutes of 2018

Statute Intent & Policy

- "That local entities not adopt ordinances that create unreasonable barriers to the use of electric vehicle infrastructure”

- "To promote and encourage the use of electric vehicle infrastructure and to limit obstacles to its use”

- "To increase access to electric vehicle infrastructure in all California communities"

Statute: https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=201720180SB1000

The California Energy Commission's Role

TASK	Assess whether charging station infrastructure is disproportionately deployed
PARAMETERS	Population Income (low, middle, high) Population Density Geographical Area
GOAL	Inform proportionate deployment of charging station infrastructure

Clean Transportation Program Funding

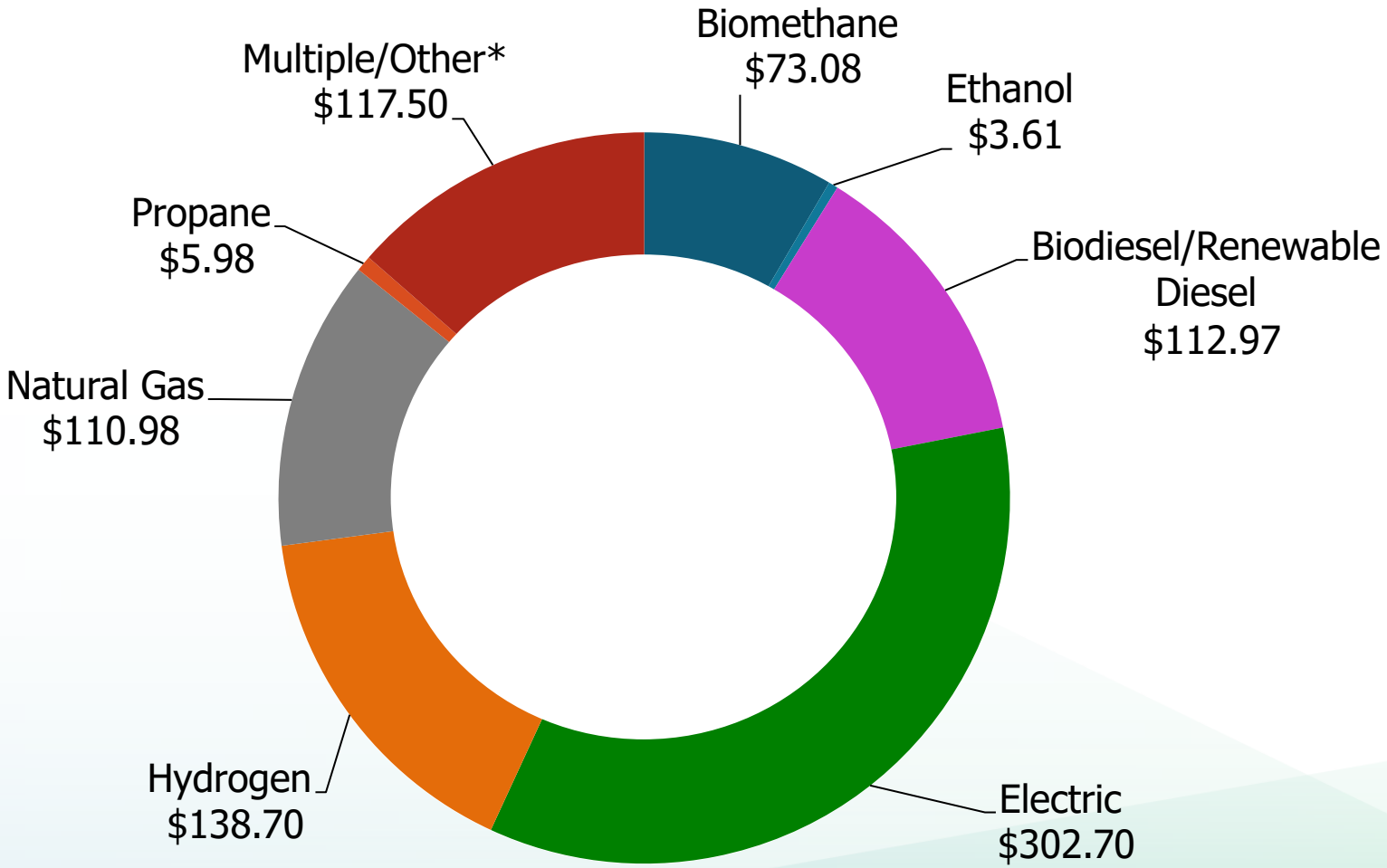
SB 1000 will inform the Clean Transportation Program Investment Plans which are prepared each year to guide the allocation of program funding for transportation solicitations.

The Clean Transportation Program Investment Plans page:
https://www.energy.ca.gov/programs-and-topics/programs/clean-transportation-program/clean-transportation-program-investment

Clean Transportation Program Overview

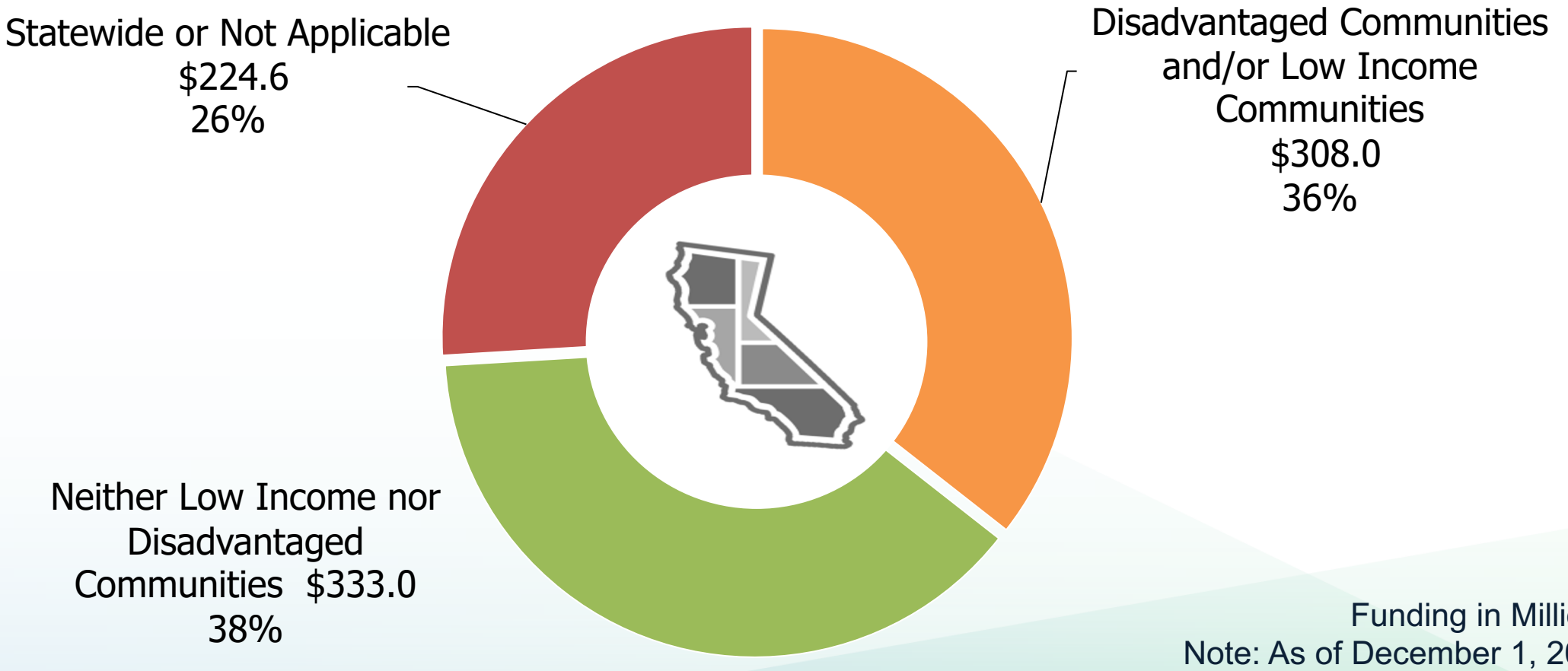
Clean Transportation Program

Funding as of December 1, 2019 (in millions)



Clean Transportation Program

Funding Toward Disadvantaged and/or Low-Income Communities



Funding in Millions
Note: As of December 1, 2019

California's Zero Emission Vehicle Targets

Clean Transportation Program

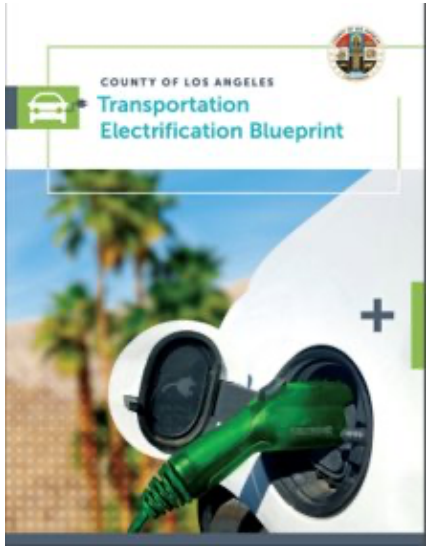
Light-Duty Charging Infrastructure Projects

CAL eVIP

BOLT TO COLLEGE

CATCH A RIDE TO SCHOOL & SAVE

StratosShare



Proposed Methodology & Preliminary Analysis

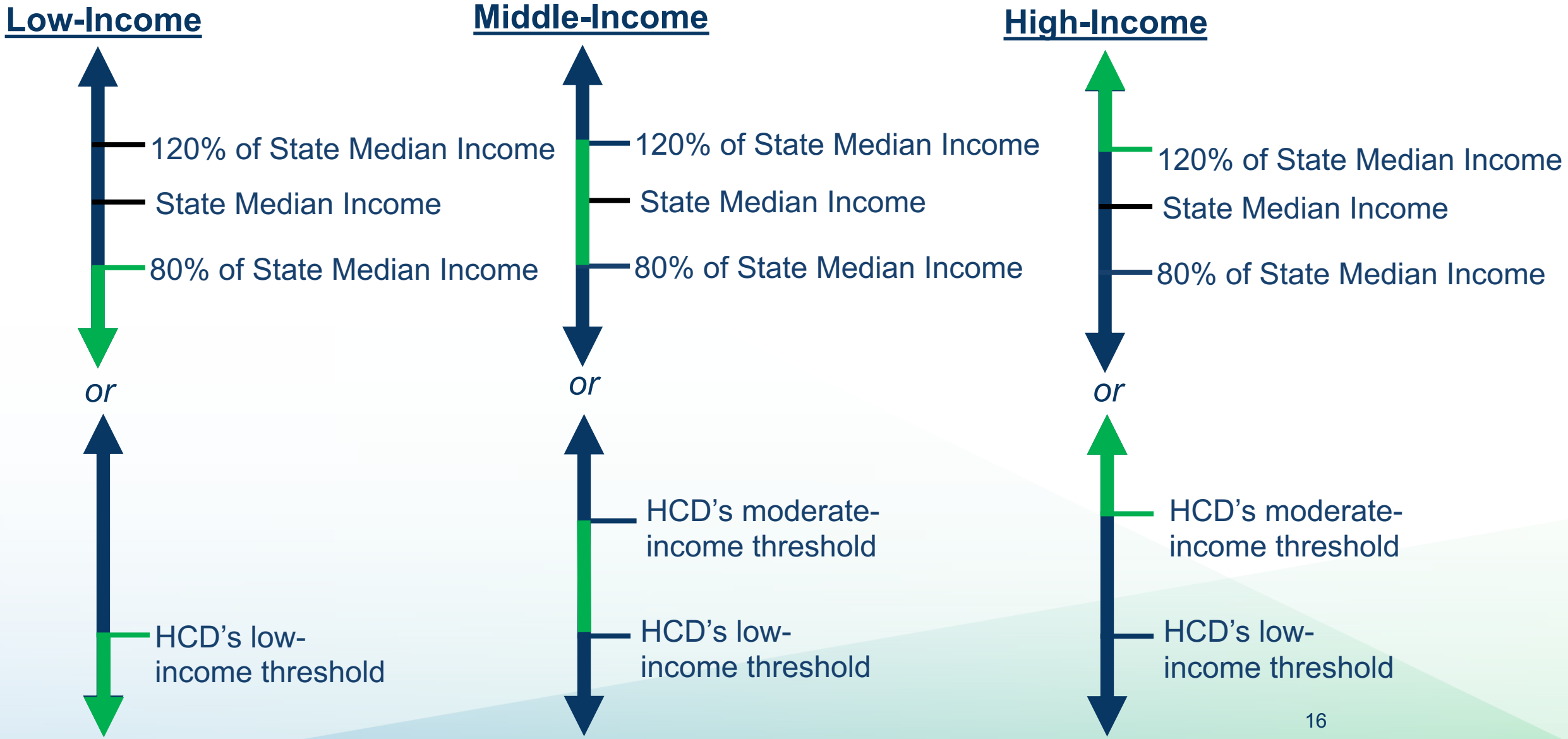
Overview of Proposed Methodology

1. Define low-, middle-, and high-income levels; population density; geographical area
2. Collect and assess available charging station infrastructure data
3. Assess infrastructure distribution and access across population income levels, population density, and geographical area

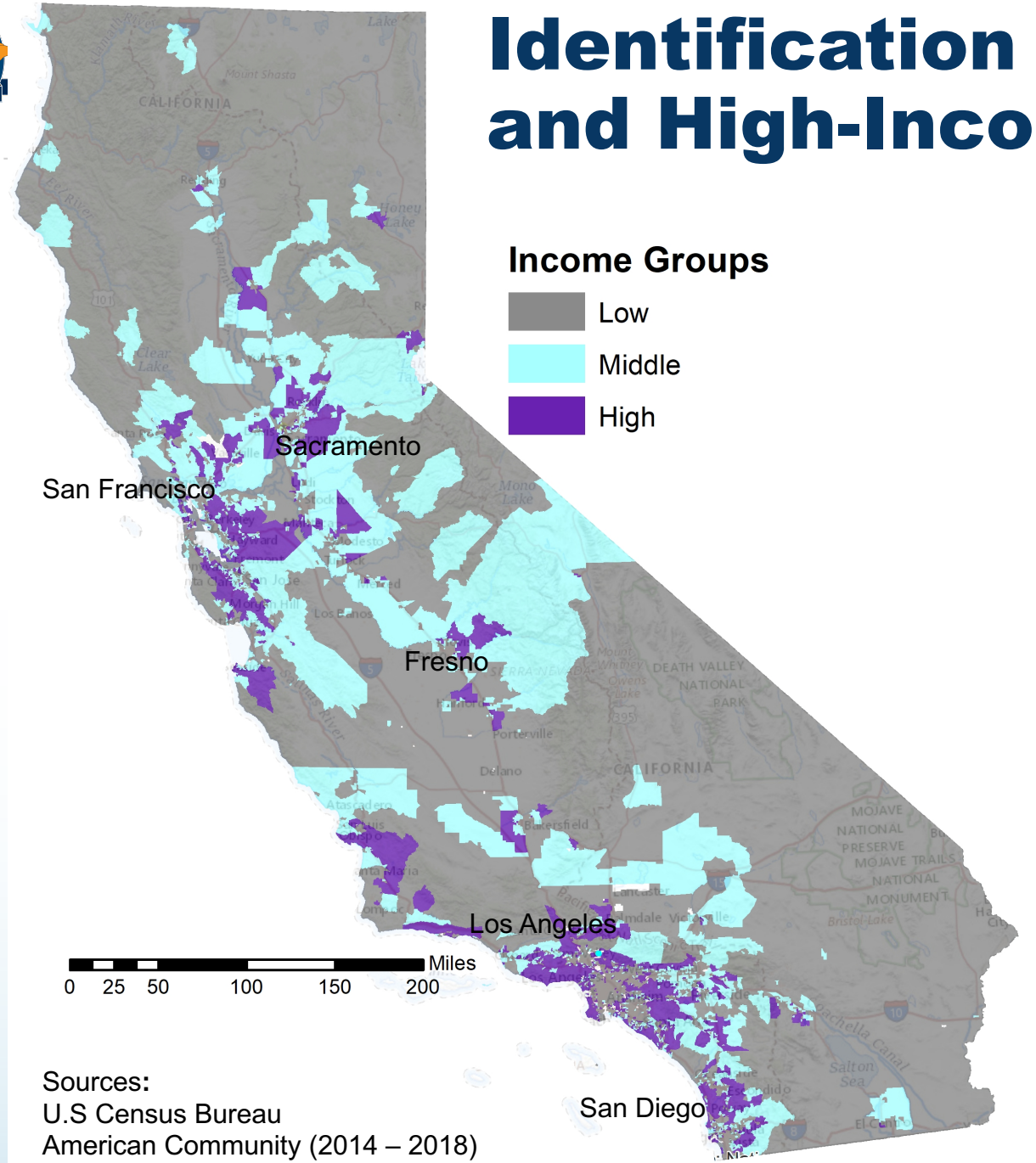
Covered in this presentation

4. Assess whether infrastructure is disproportionately deployed by population income level, density, or geographical area
5. Conduct an infrastructure gap analysis using EVI-Pro estimations
6. Inform station deployment and investment decisions
7. Reassess deployment yearly

Proposed Definitions for Income Communities

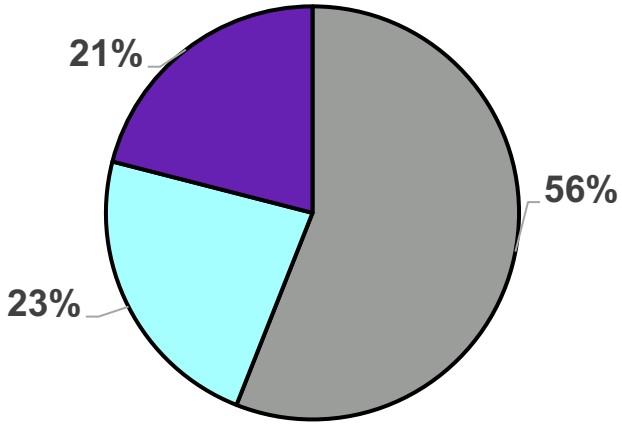


Identification of Low-, Middle-, and High-Income Communities

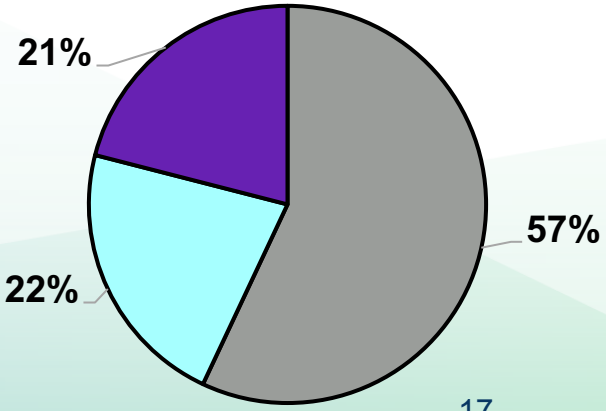


Sources:
U.S Census Bureau
American Community (2014 – 2018)

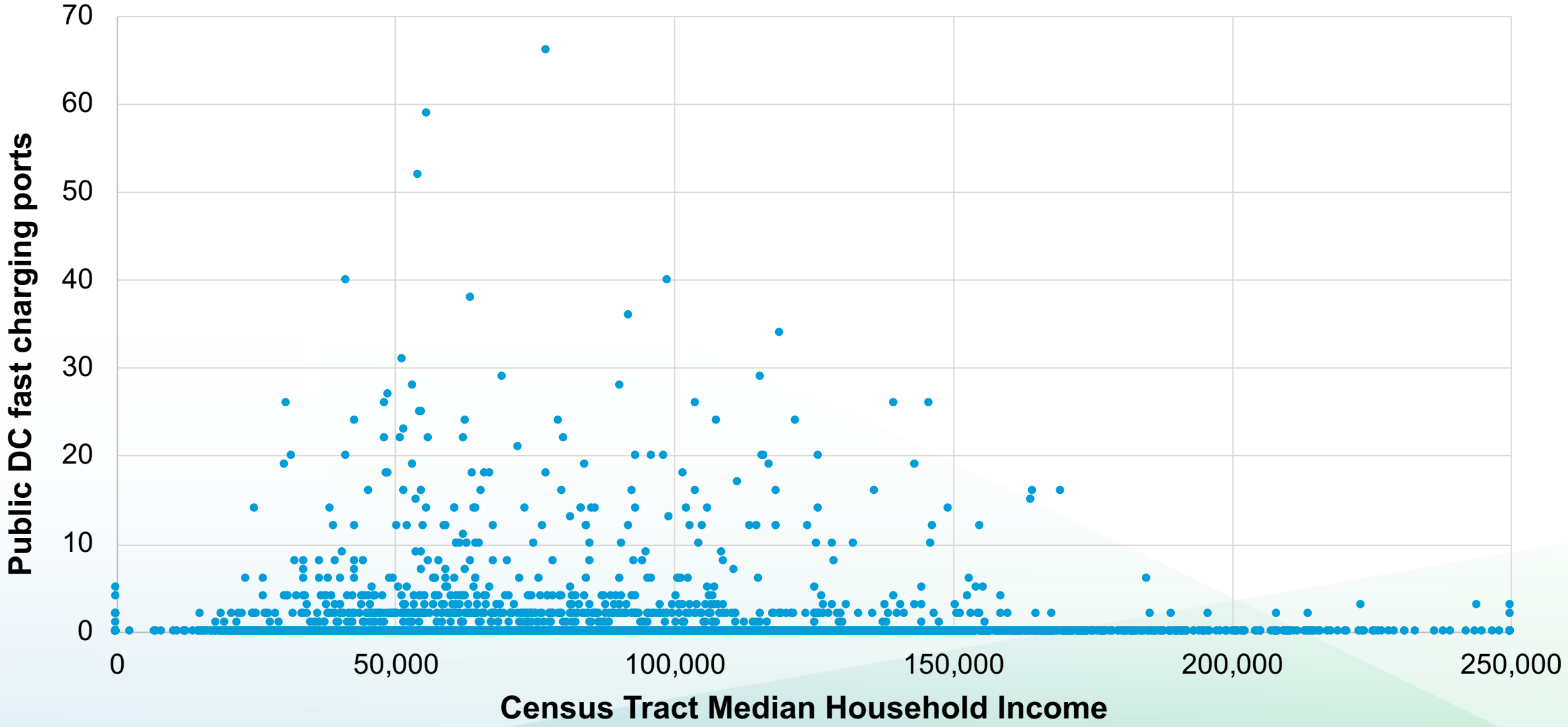
Total Population



Census Tract Communities

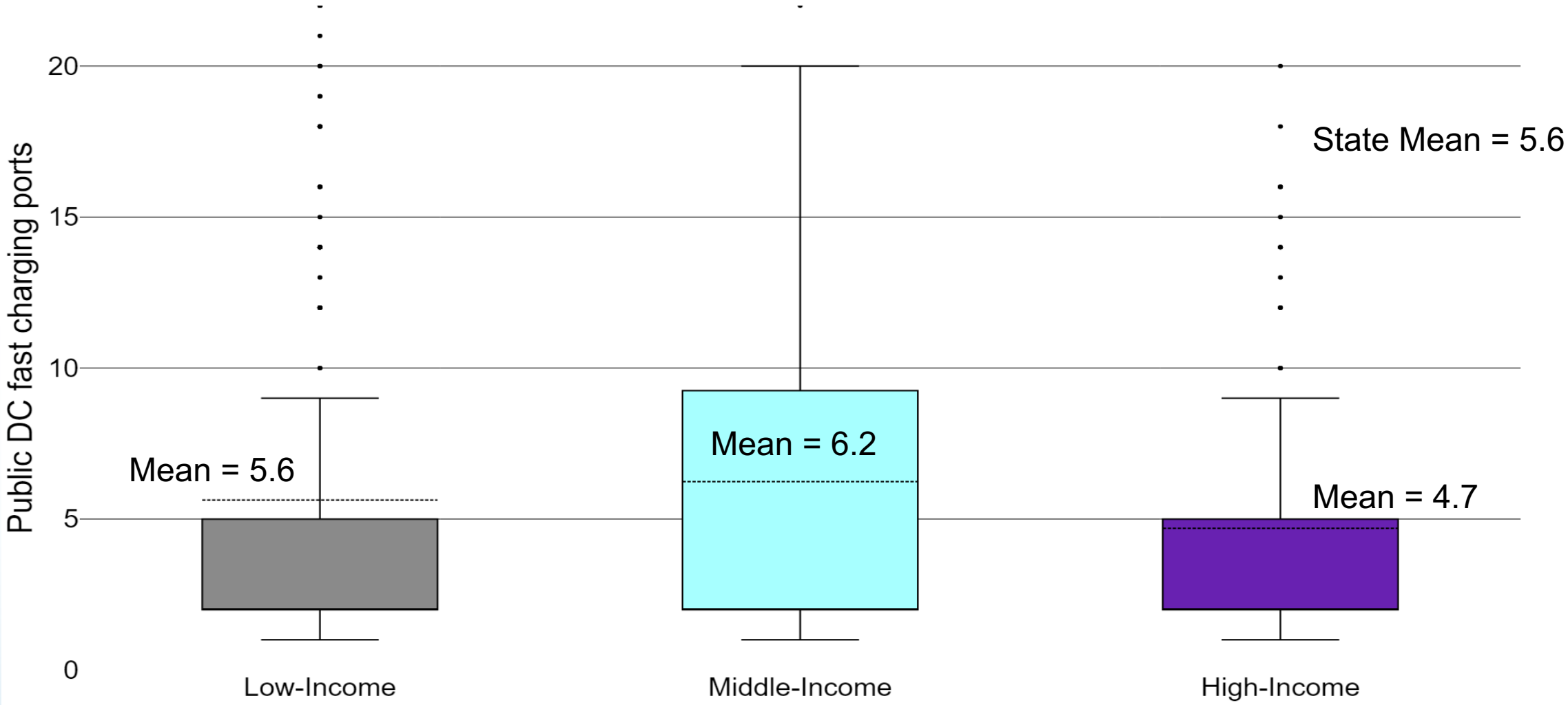


DC Fast Charging Port Distribution by Census Tract Median Household Income



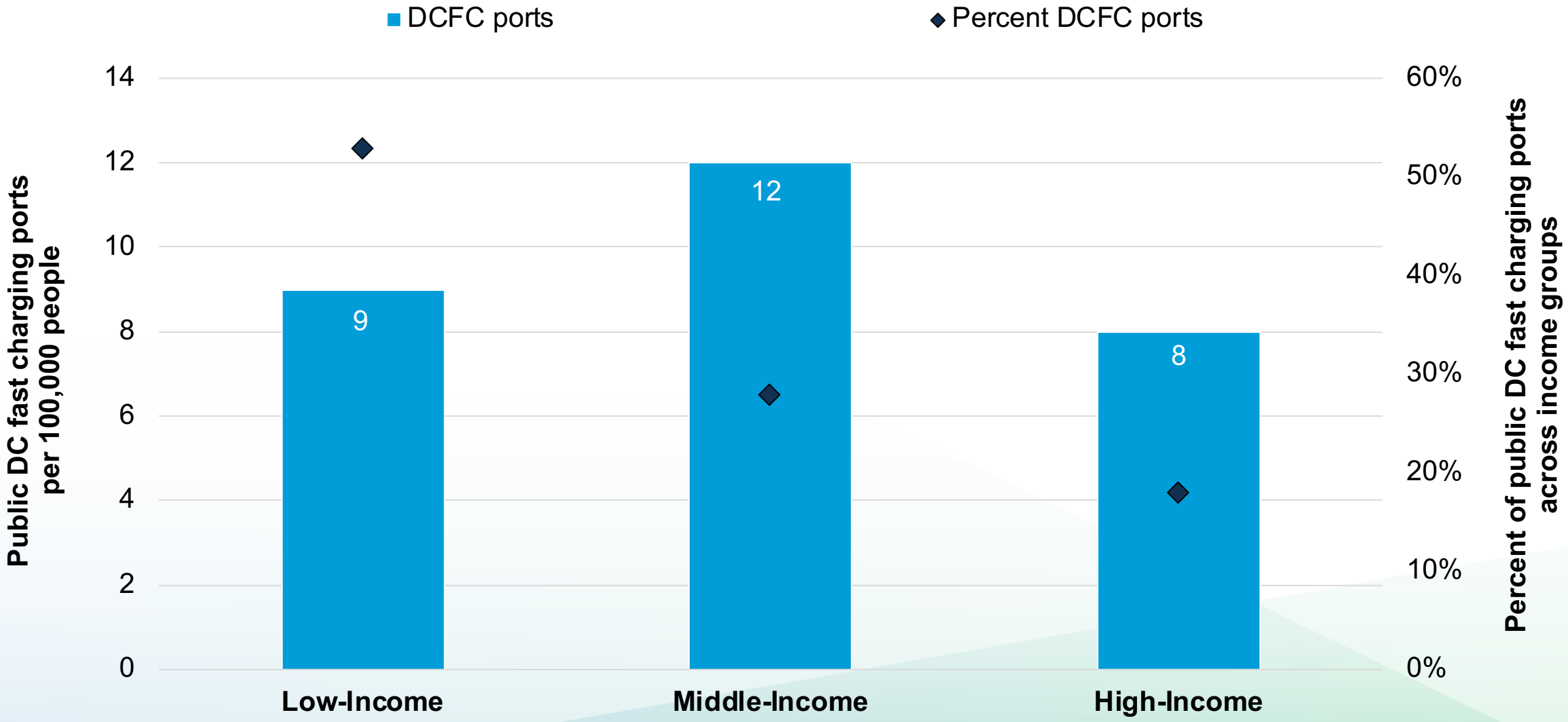
Sources: Alternative Fuels Data Center, American Community Survey 2014 - 2018 5-year estimates

Distribution of Census Tract DC Fast Charging Port Counts across Income Communities



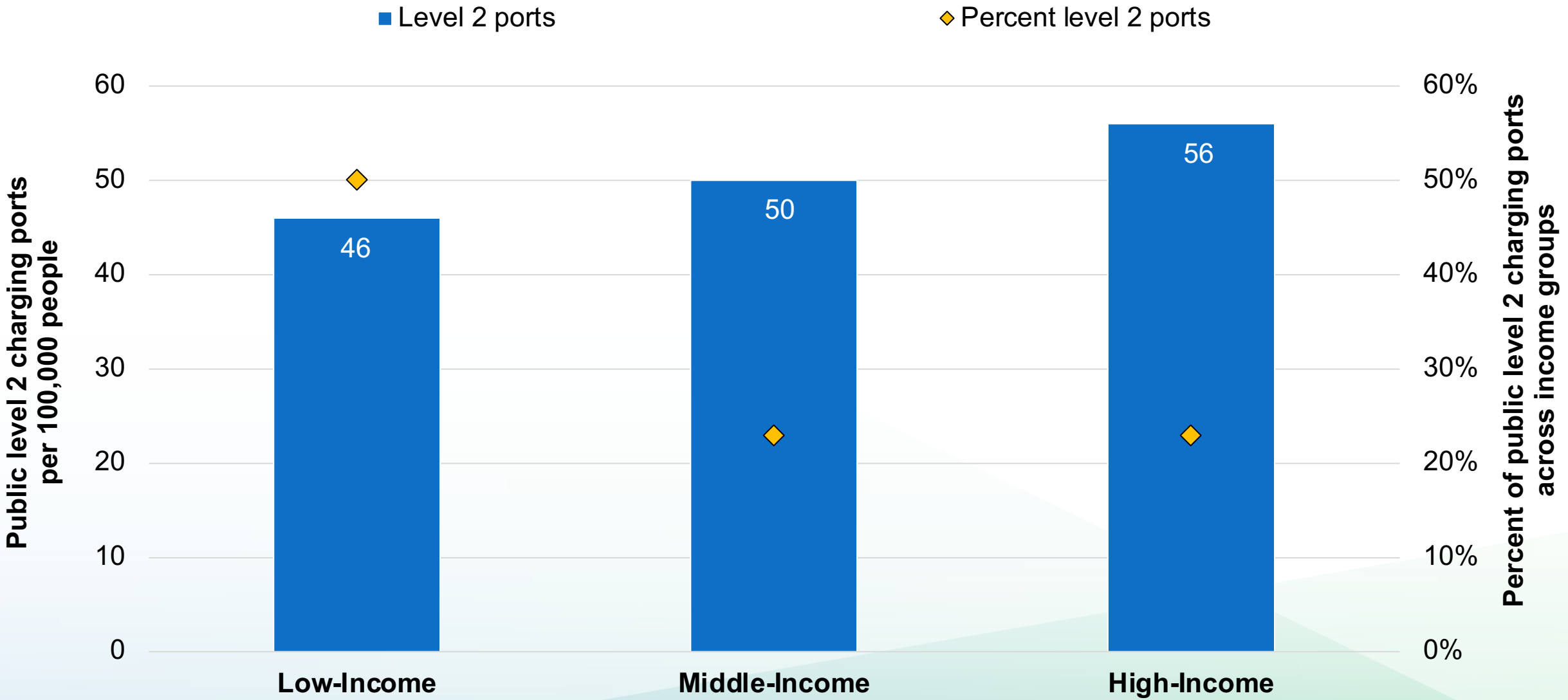
Sources: Alternative Fuels Data Center, American Community Survey 2014 - 2018 5-year estimates

DC Fast Charging Port Access and Distribution across Income Communities



Sources: Alternative Fuels Data Center, American Community Survey 2014 - 2018 5-year estimates

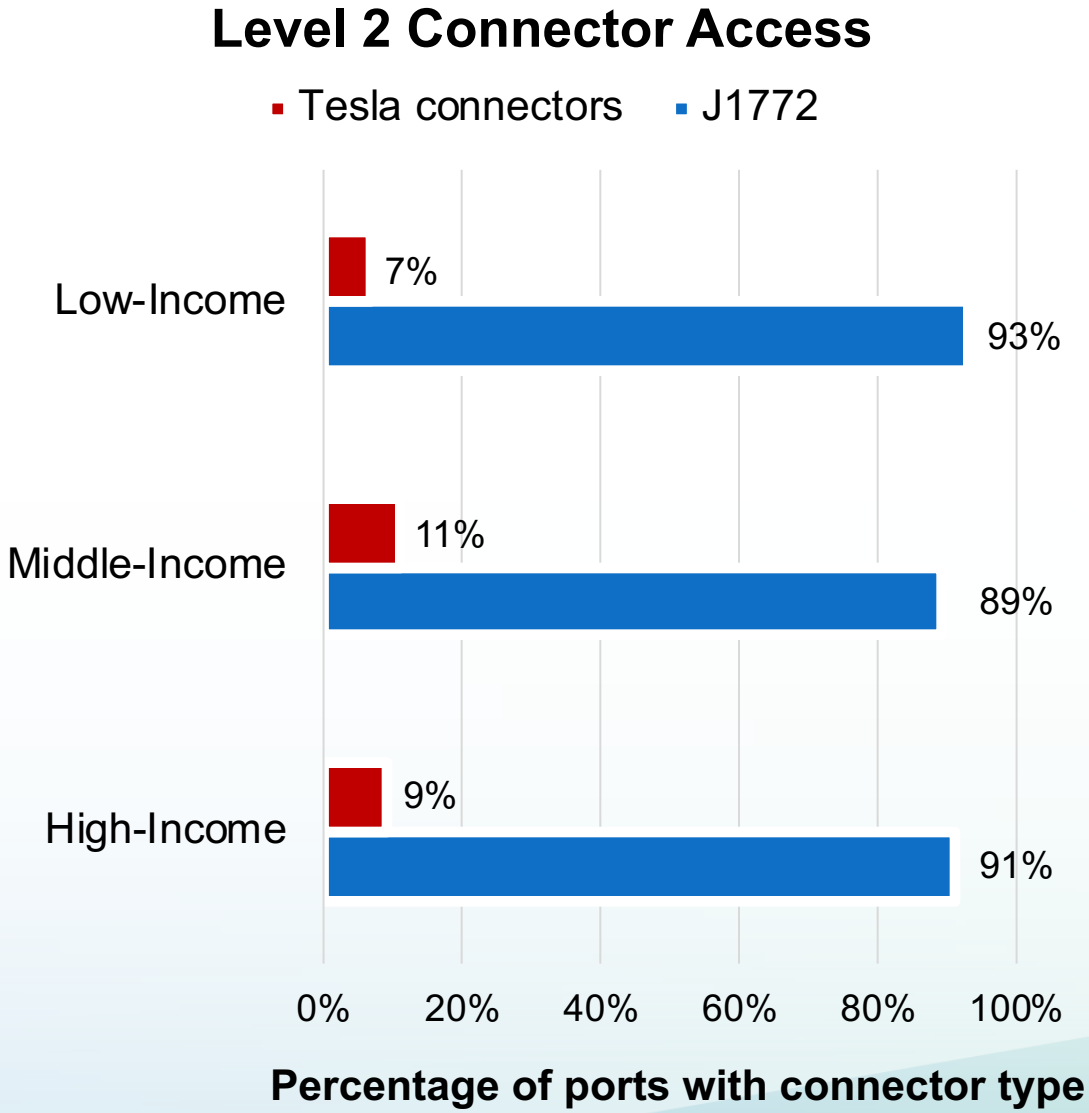
Level 2 Charging Port Access and Distribution across Income Communities

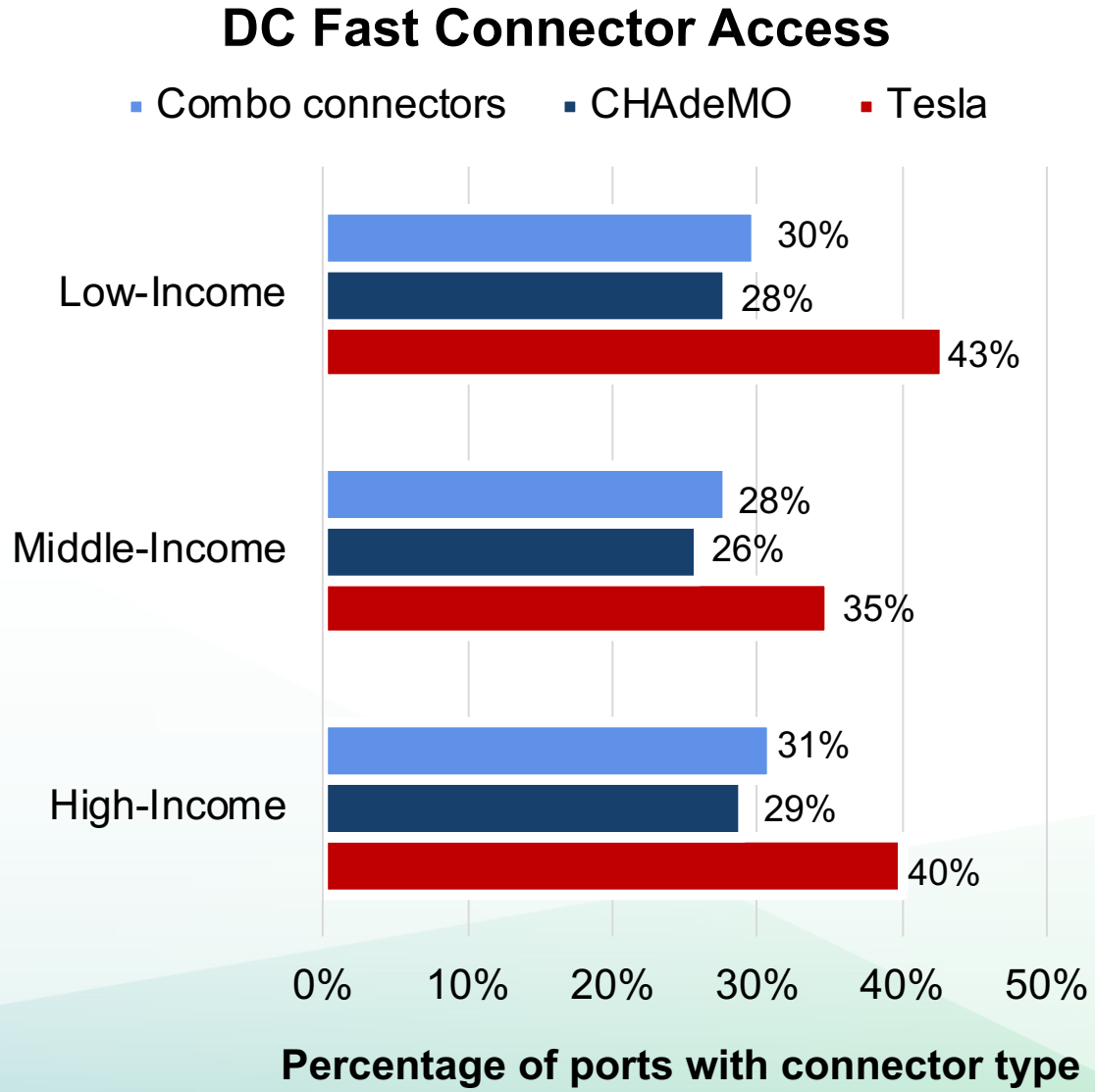


4% of public level 2 ports are in census tracts with no reported median household income.

Sources: Alternative Fuels Data Center, American Community Survey 2014 - 2018 5-year estimates

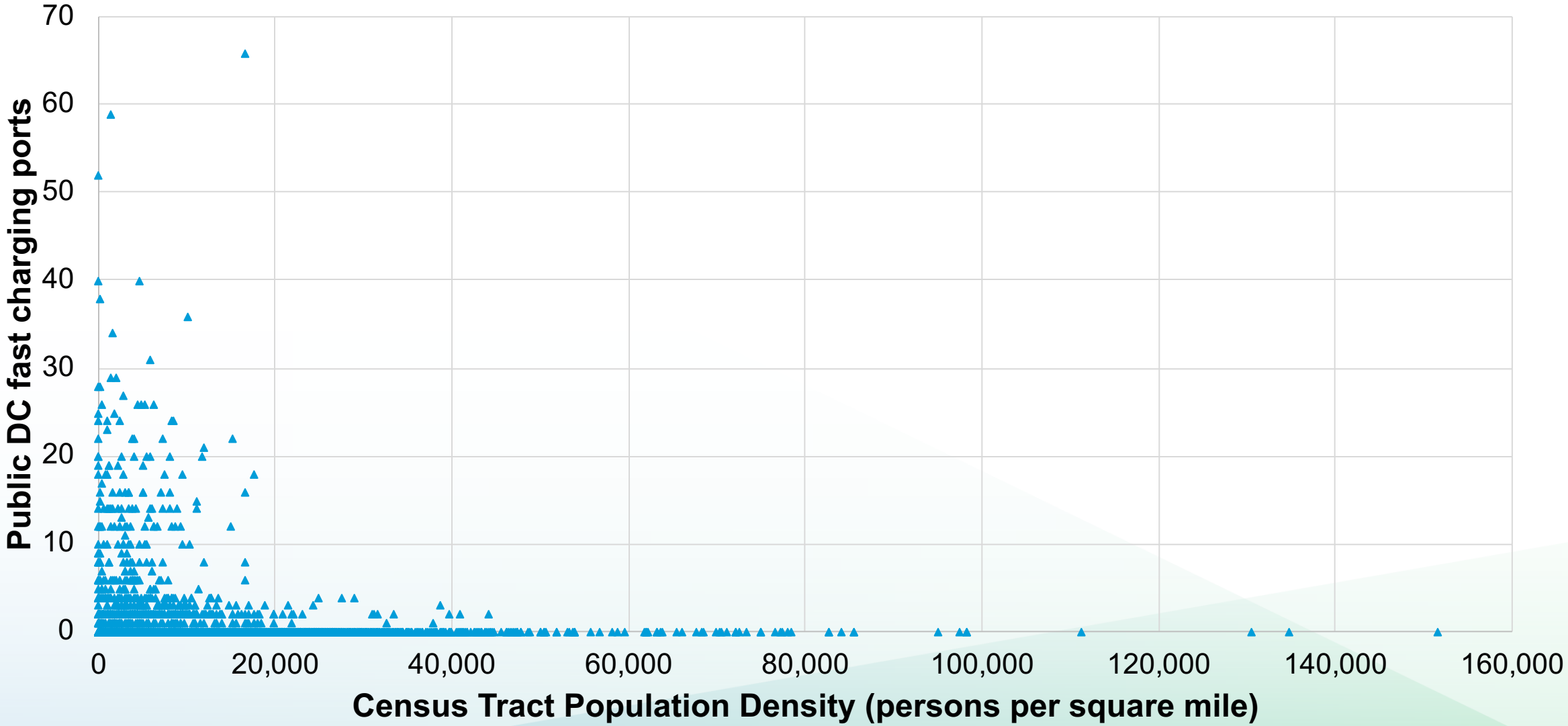
Charging Access and Distribution across Income Communities





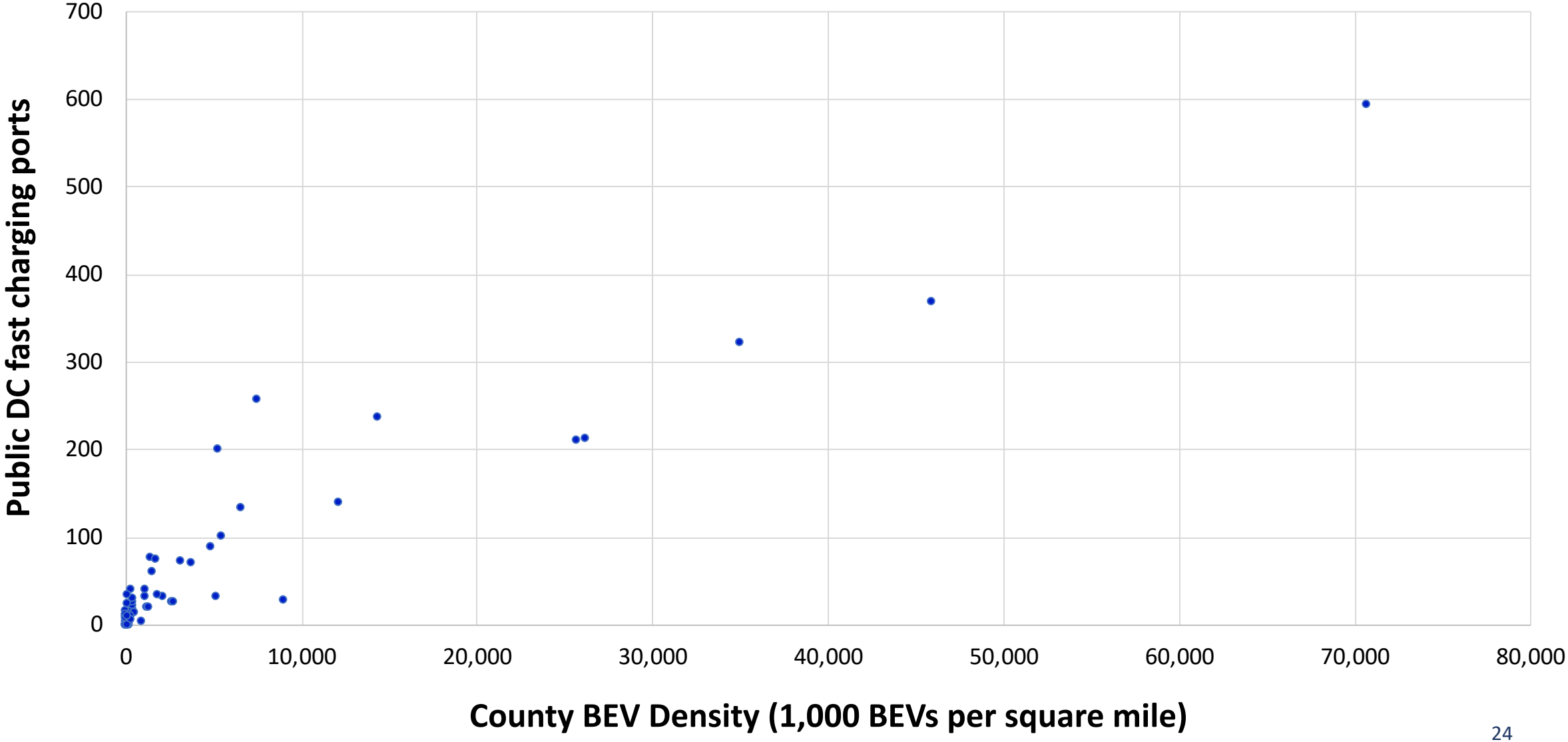
Sources: Alternative Fuels Data Center, American Community Survey 2014 - 2018 5-year estimates

DC Fast Charging Port Distribution by Census Tract Population Density



Sources: Alternative Fuels Data Center, American Community Survey 2014 - 2018 5-year estimates

DC Fast Charging Port Distribution by County Battery Electric Vehicle Density



Sources: Alternative Fuels Data Center, California Department of Motor Vehicles

Questions

Parameter Definitions

1. Do you recommend other definitions, data sets, or identification methods for population income level, population density, or geographical area?

Infrastructure Deployment

1. Are distribution and access the same?
2. Do you have recommendations for measuring charging infrastructure distribution and access?
3. Are there other indicators for deployment that we should evaluate?
4. Do you have recommendations for how to look for disproportionate deployment?

Open Discussion

Q&A / Public Comments

1. Phone lines
2. Raise hand feature
3. Q&A questions

Email or call the Public Advisor's Office:

PublicAdvisor@energy.ca.gov

(916) 654-4489

(800) 822-6228 (toll free)

Request for Information & Feedback

Docket #: 20-TRAN-02

- Docket log 20-TRAN-02: https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=20-TRAN-02
- Submit comments via the CEC E-Commenting System: https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=20-TRAN-02
- Email Docket Unit: DOCKET@energy.ca.gov

Reference “SB 1000 Electric Vehicle Charging Infrastructure Deployment Assessment” in the subject line. If providing comments to questions included in this presentation, please reference the slide number and/or question.

All comments due by 5:00 p.m. on Thursday, June 18, 2020

Thank You!

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