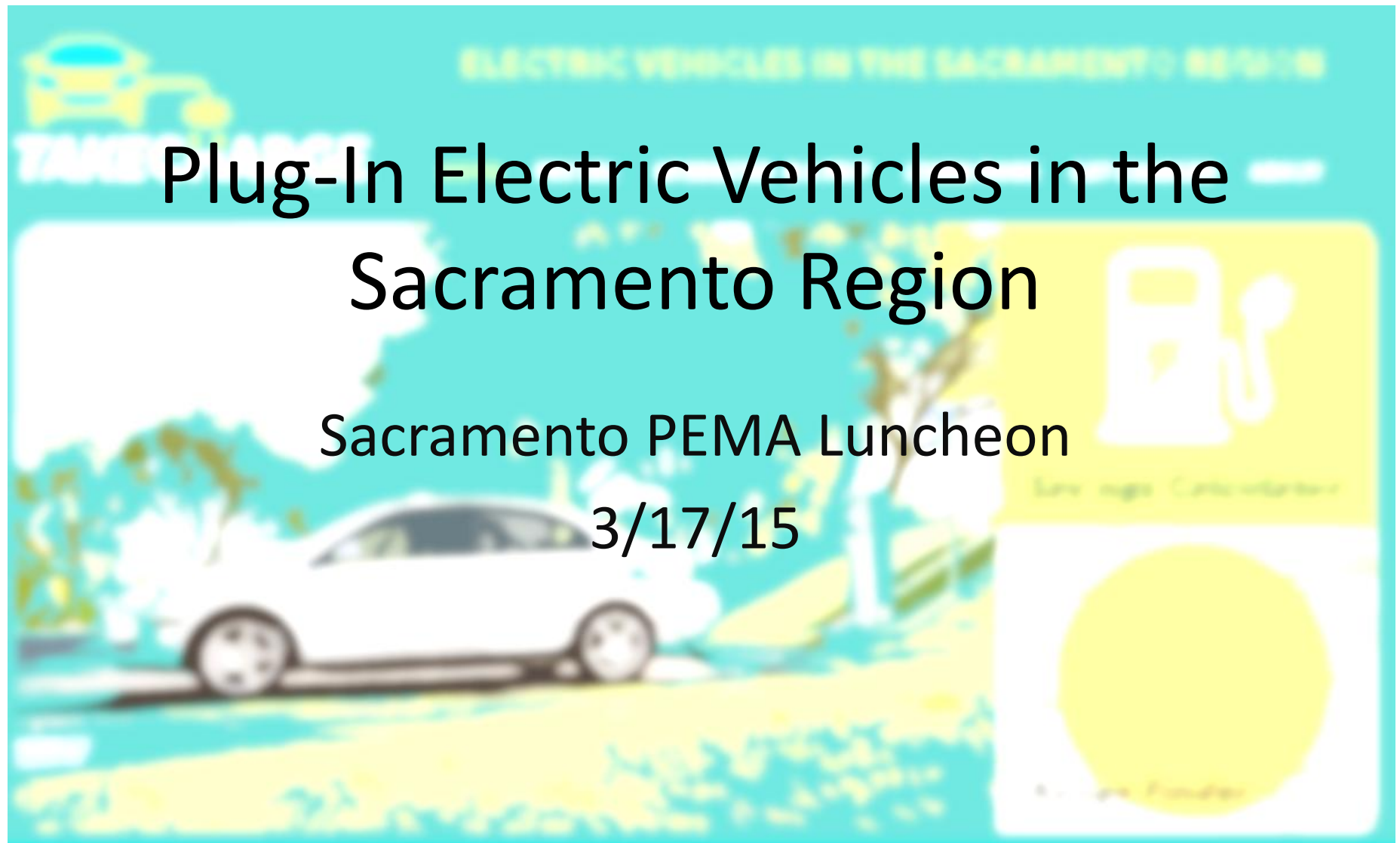


SACOG



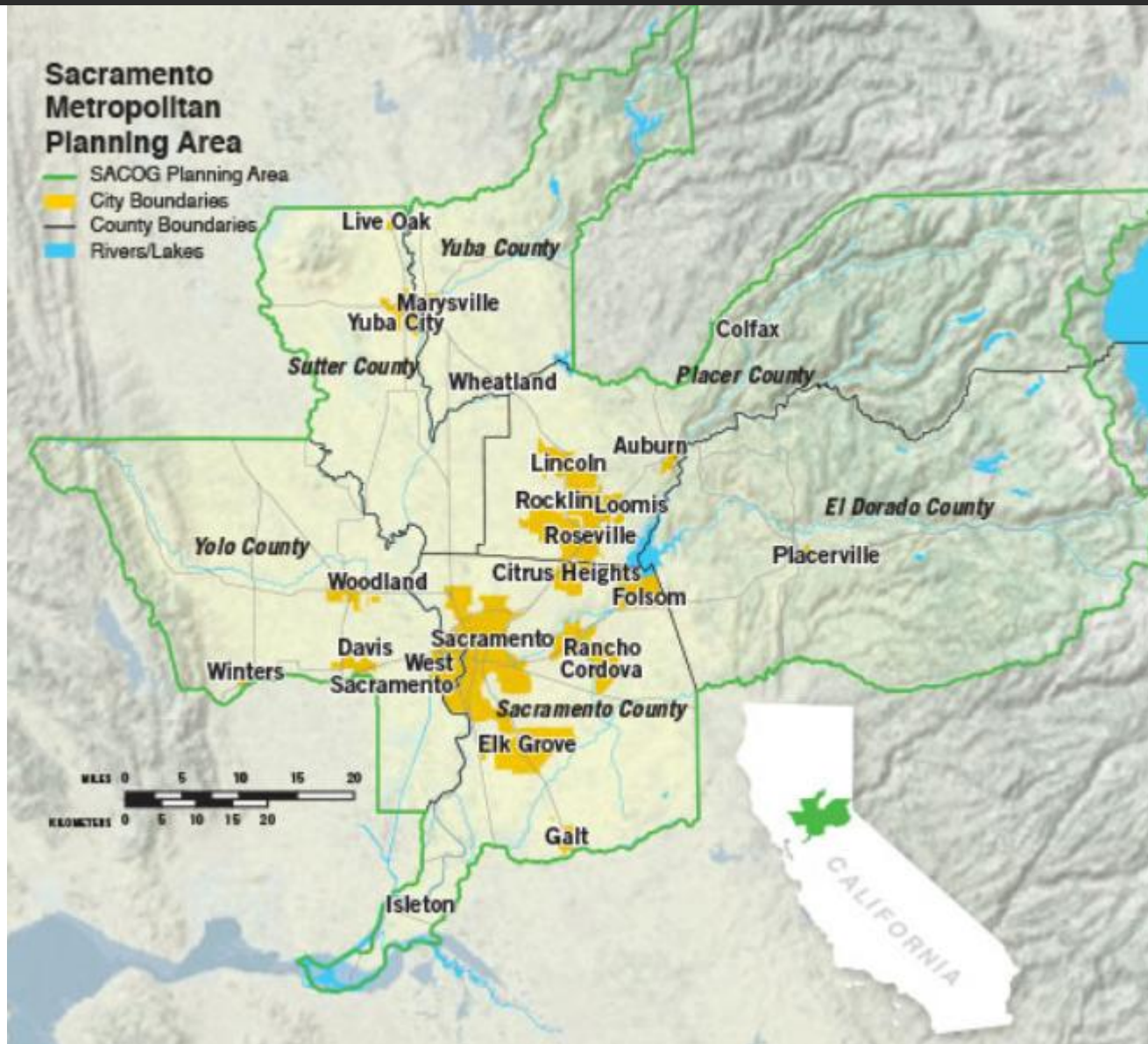


TAKECHARGE

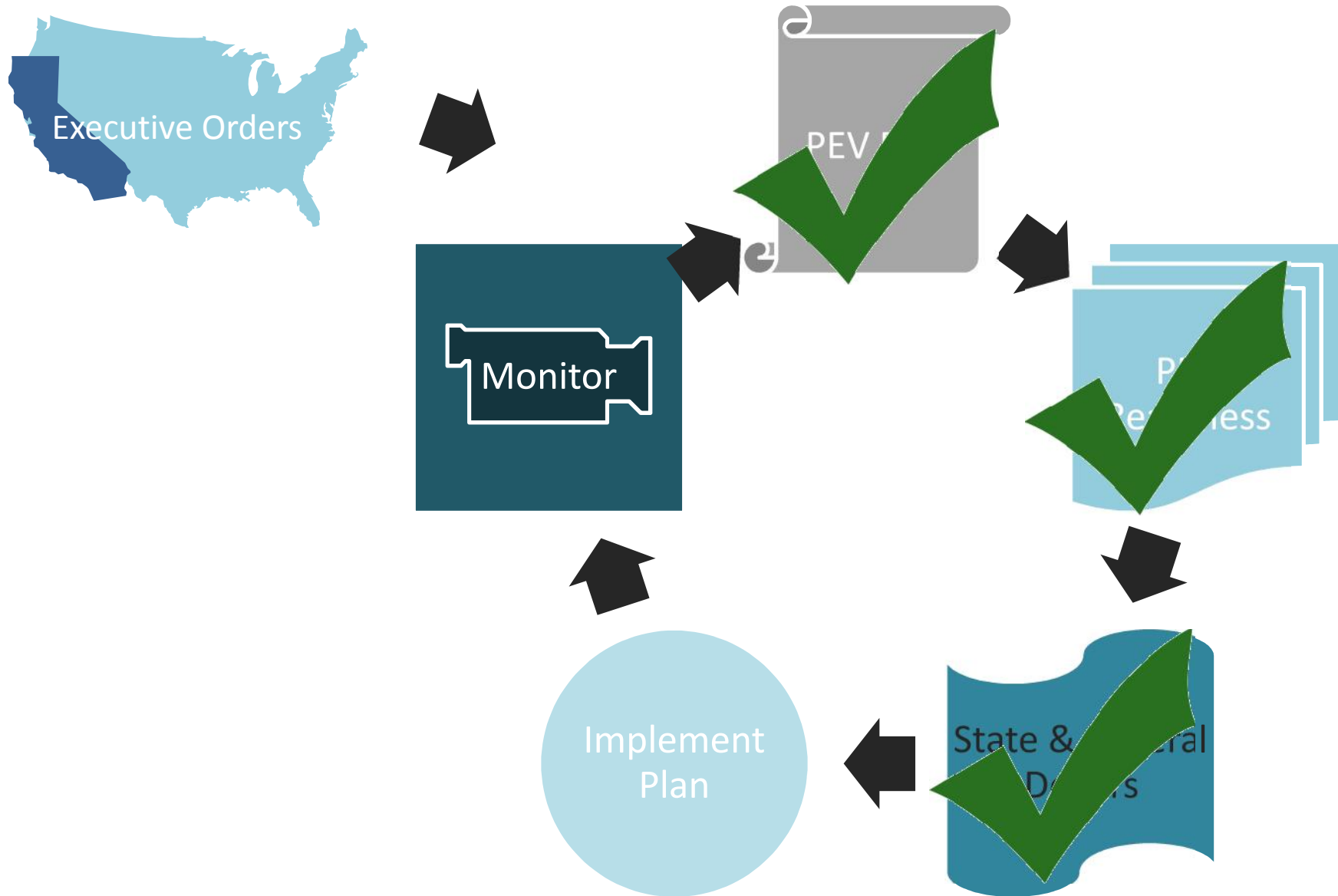
ELECTRIC VEHICLES IN THE SACRAMENTO REGION



SACOG



Goal of PEV Plan is to Position Region for Implementation Dollars



What is a PEV?





Hybrid

Hybrid Electric/
Gas Vehicles

PHEV

Plug-in Hybrid
Electric Vehicles

BEV

Battery Electric
Vehicles



Typical Range

595 miles
with a full tank of gas

375 miles
with a full charge and
full tank of gas

100 miles
with a full charge



Typical Top Speed

112 mph

100 mph

90 mph



Typical MPG
(or equivalent)
combined for
city and highway

50 MPG

60 MPGe

99 MPGe



Level1

~110 Volt Outlet

Level2

~240 Volt Outlet

DC Fast

~440 Volt



Typical Charge
Time

~12+ Hours

~6 Hours

30 Minutes



Typical Range per
Charge

4.5 Miles
per Hour

26 Miles
per Hour

40 Miles per
10 Minutes

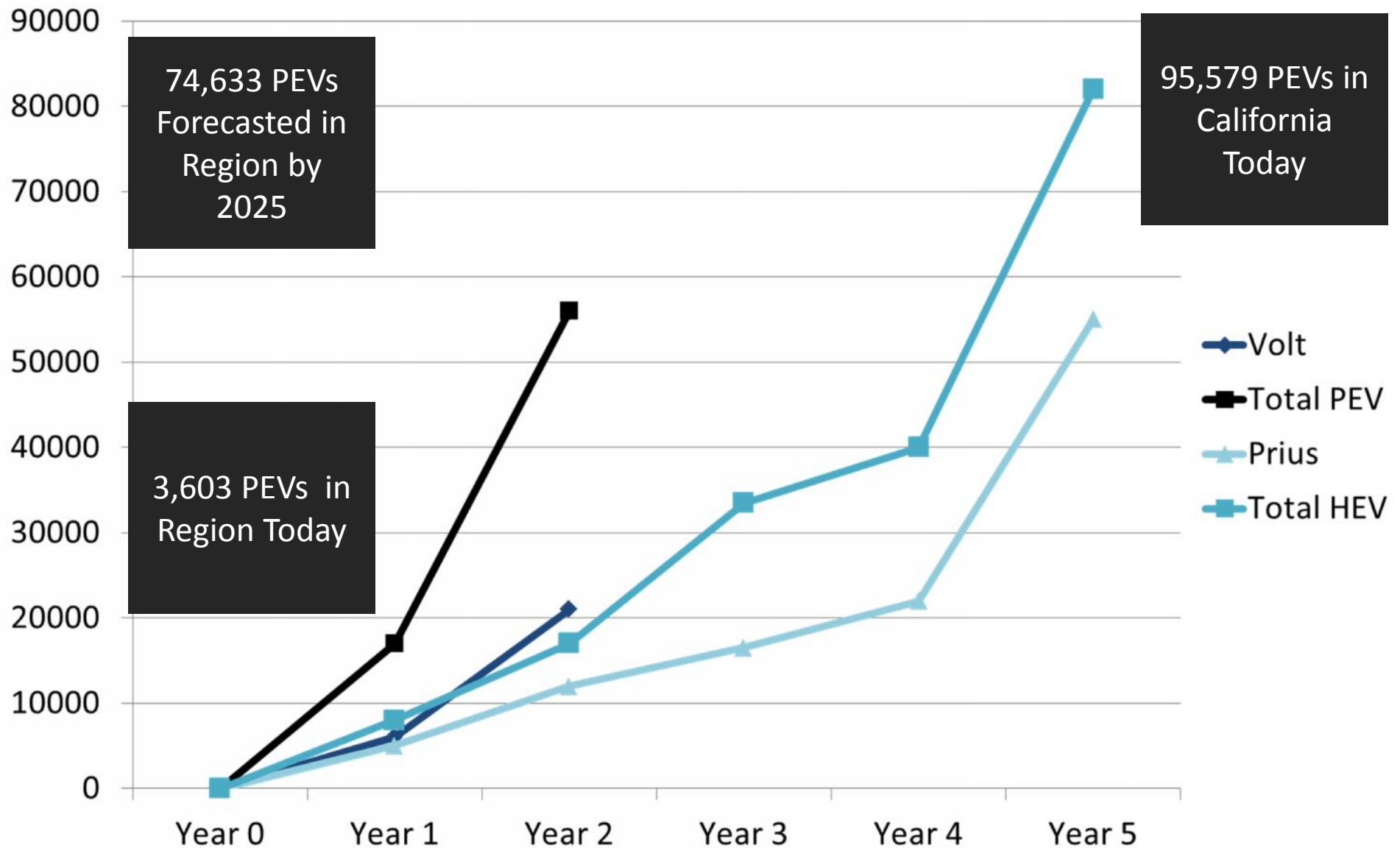
Typical Purchase
and Install Costs

\$\$\$

\$\$\$ \$\$\$

\$\$\$ \$\$\$ \$\$\$
\$\$\$ \$\$\$

Nationally, Volt and PEV Annual Sales Lead Prius and HEV Sales During First 2 Years of Rollout



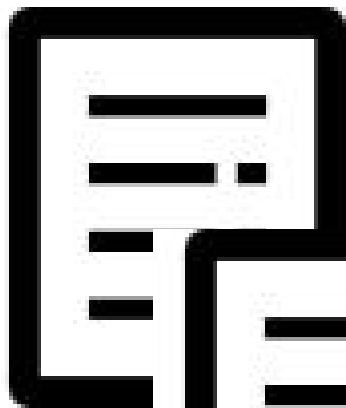
PEV Sales Since 2010 – California and Sacramento Region

El Dorado County	412
Placer County	792
Sacramento County	1,918
Sutter County	24
Yolo County	434
Yuba County	23
Regional	3,603

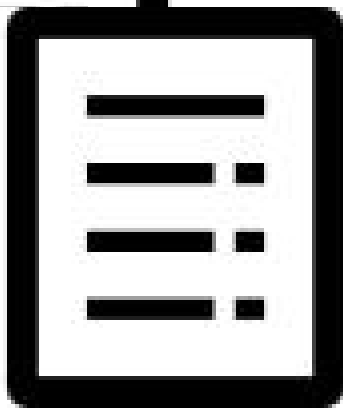
1/2 of these have sold in the last 12 months

Why SACOG?

SB 375



AB 32

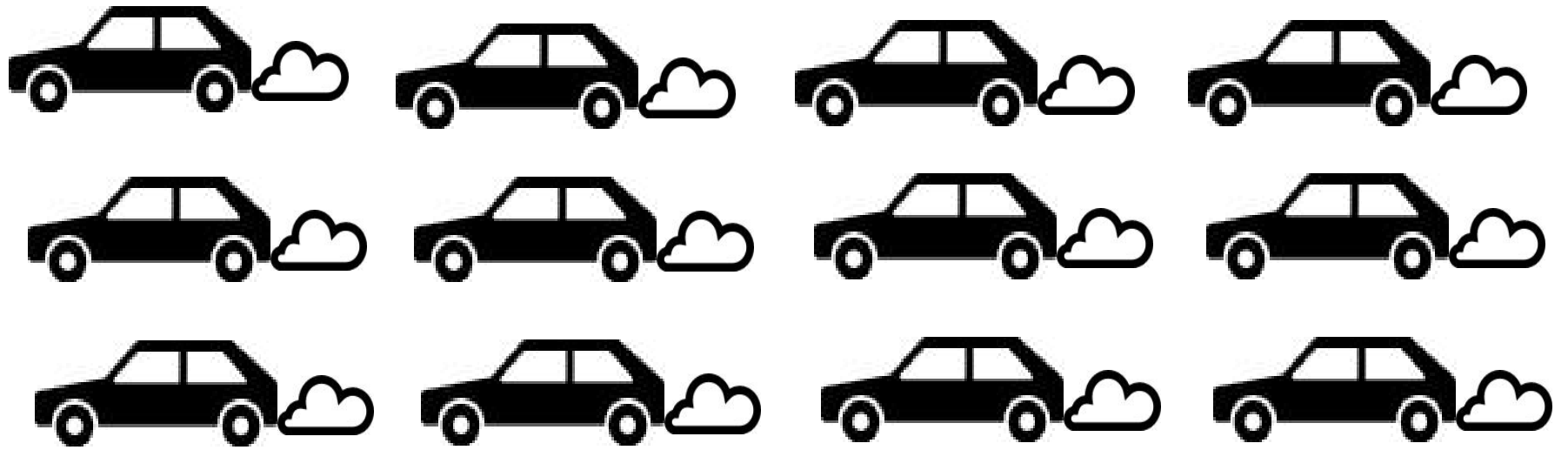


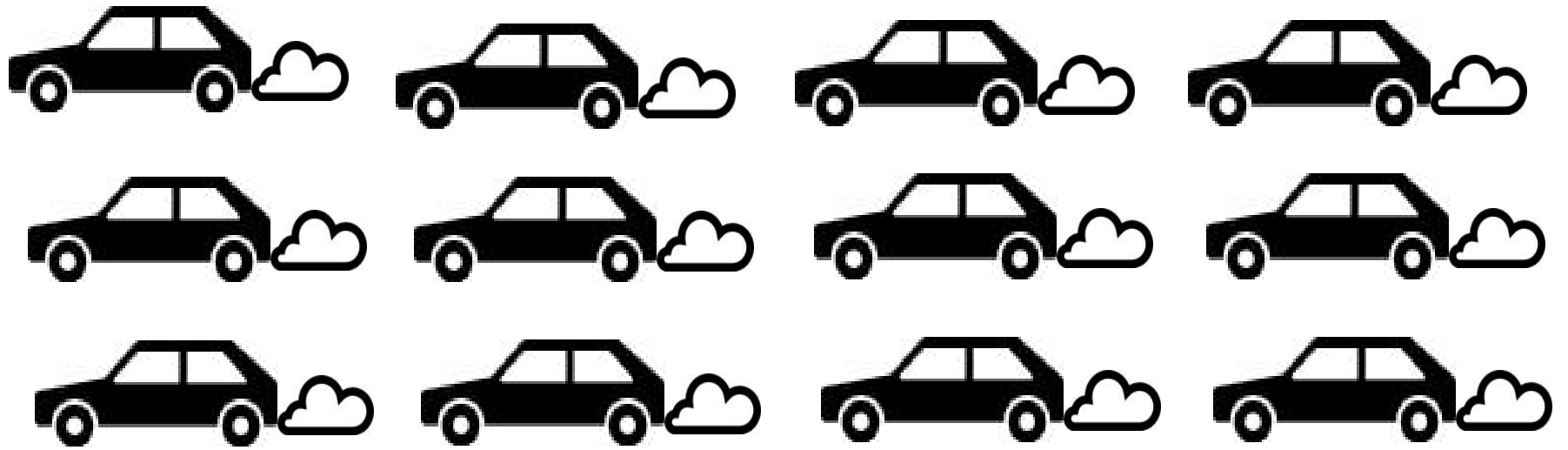
AB 32

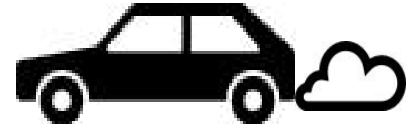
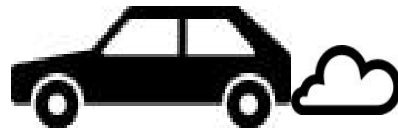
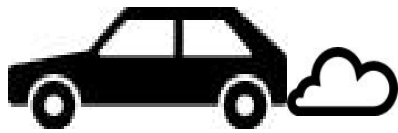
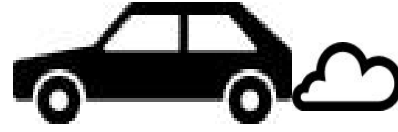
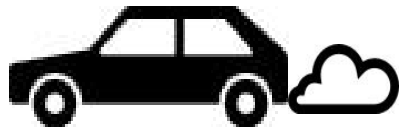
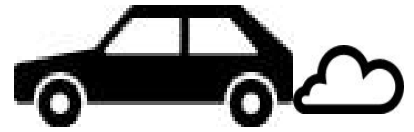
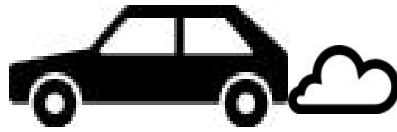
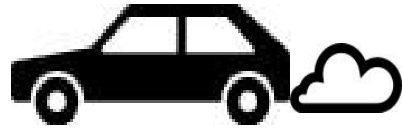
Reduce GHG levels to **1990 levels** by 2020

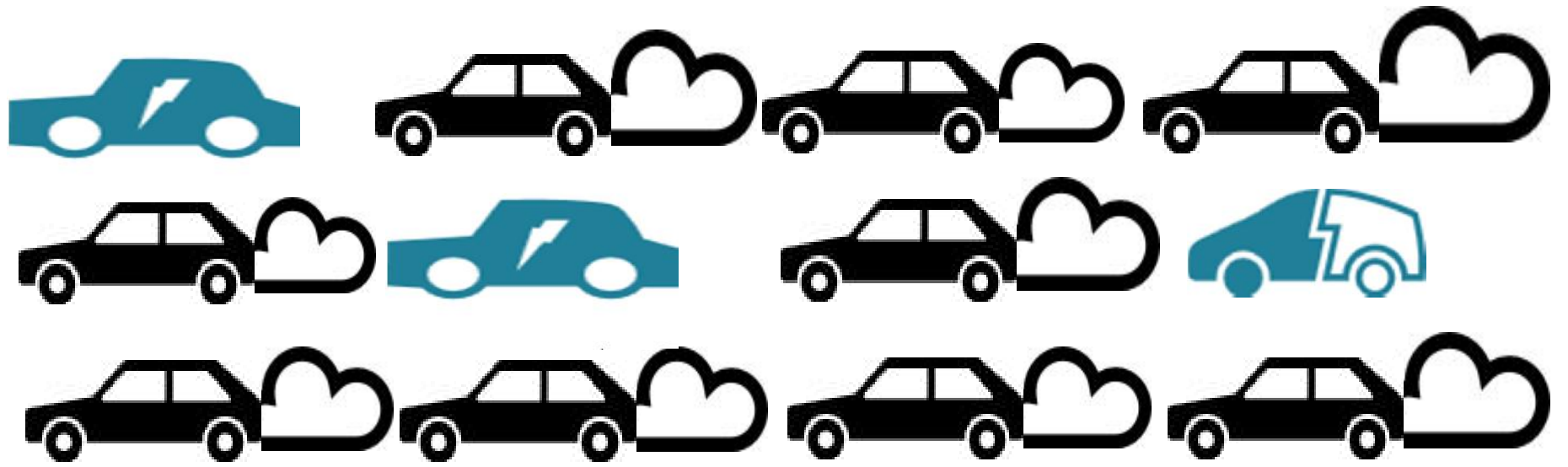
SB 375

Regional transportation agencies must create **Sustainable Communities Strategies (SCS)** to reduce GHG emissions from passenger vehicles

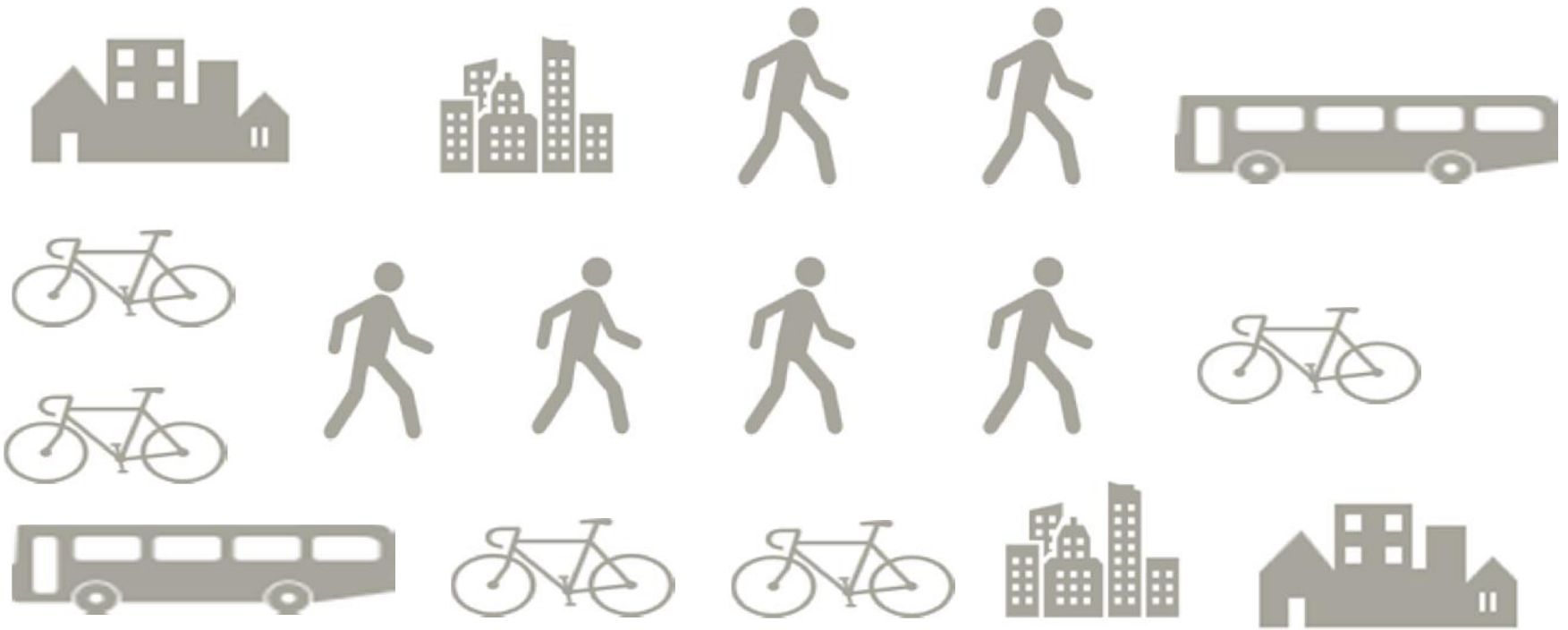
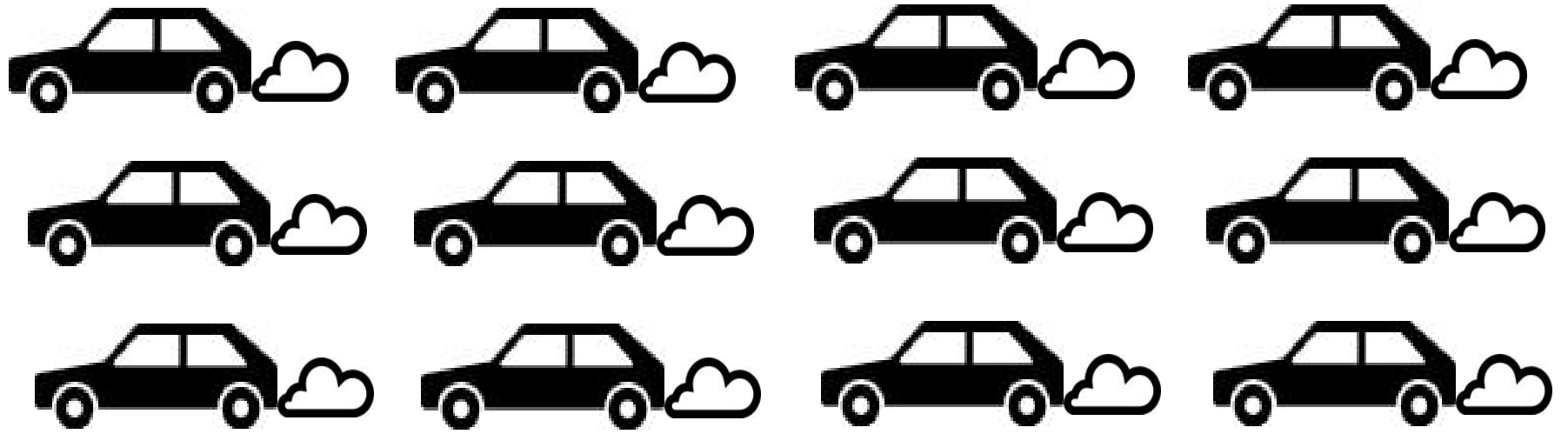


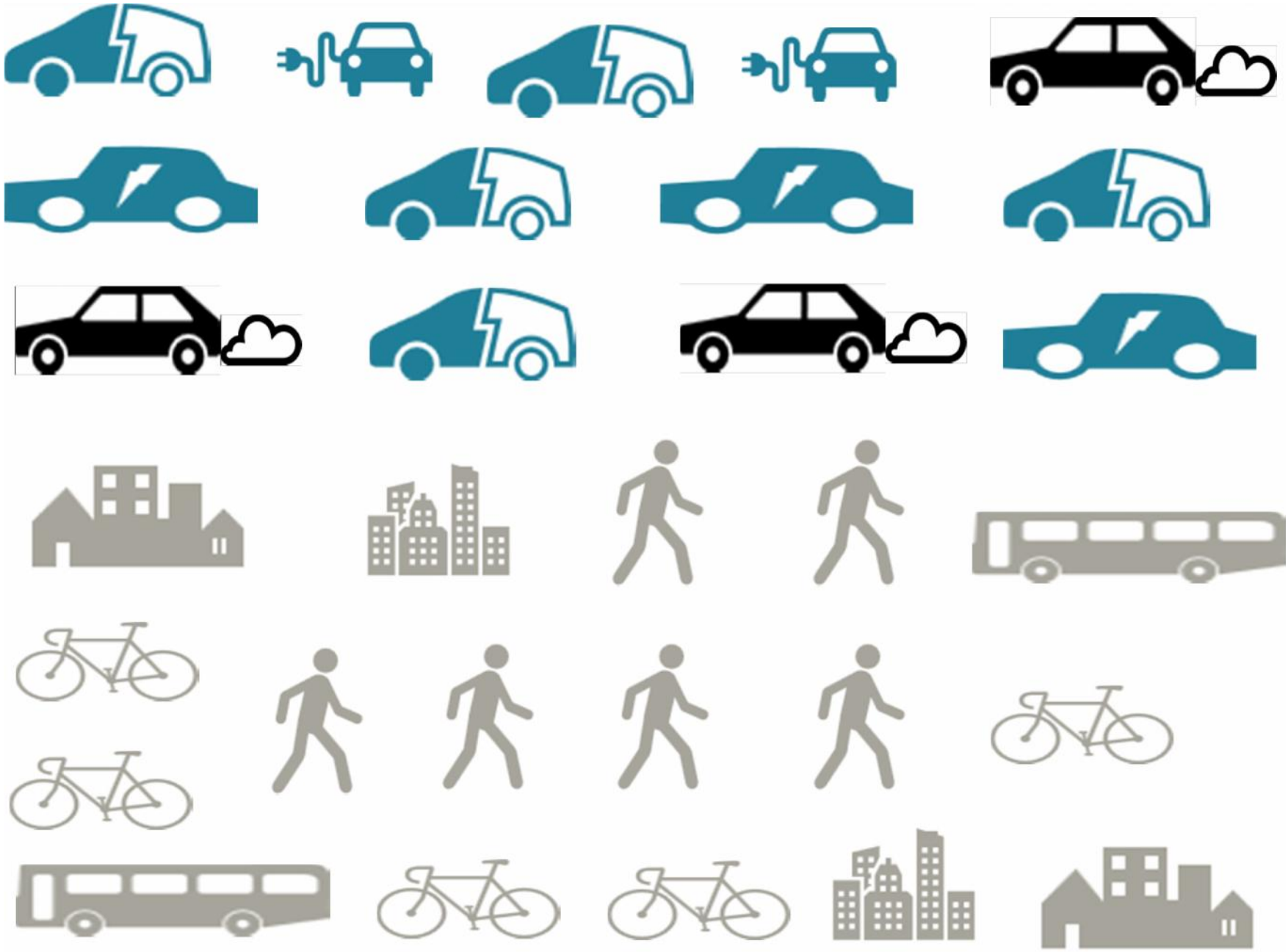












How...?

How do you move people out of ICE cars into other modes, including EVs?

1. Education and behavior change
2. Make it easier
3. Incentives

PEV Sales Since 2010 – California and Sacramento Region

???

QUIZ???

Which County in the SACOG region has the most PEVs per capita?

Hint: SACOG = El Dorado, Placer, Sacramento, Sutter, Yolo, and Yuba

PEV Sales Since 2010 – California and Sacramento Region

		Cars / 1000 people
El Dorado County	412	2.27
Placer County	792	2.16
Sacramento County	1,918	1.31
Sutter County	24	0.25
Yolo County	434	2.12
Yuba County	23	0.31
Regional	3,603	

Who Are PEV Drivers?

Common Driver Demographics

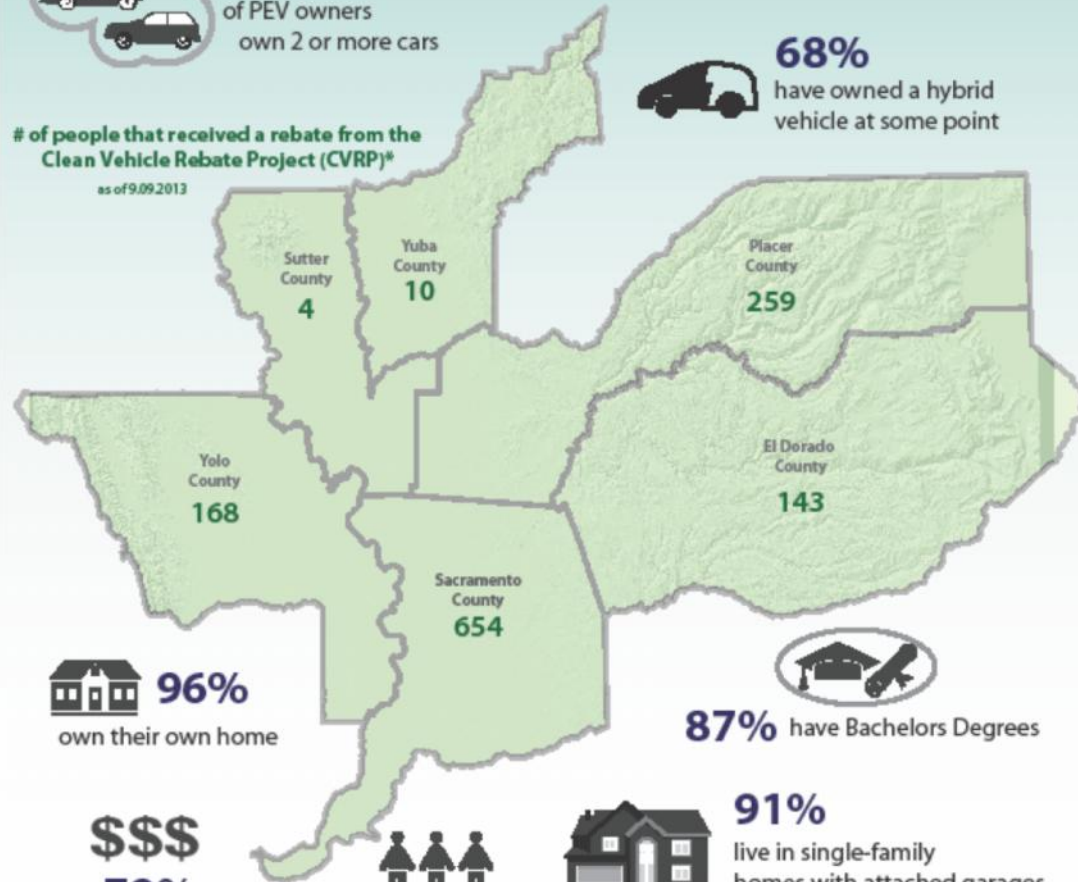


95%
of PEV owners
own 2 or more cars



68%
have owned a hybrid
vehicle at some point

of people that received a rebate from the
Clean Vehicle Rebate Project (CVRP)*
as of 9/09/2013



96%
own their own home



87% have Bachelors Degrees



79%
have household incomes
≥ \$100,000



93%
live in a multi-
person household



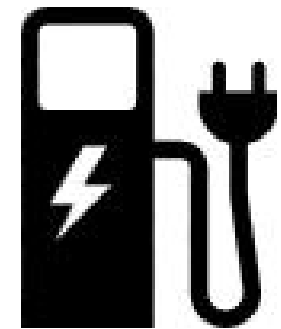
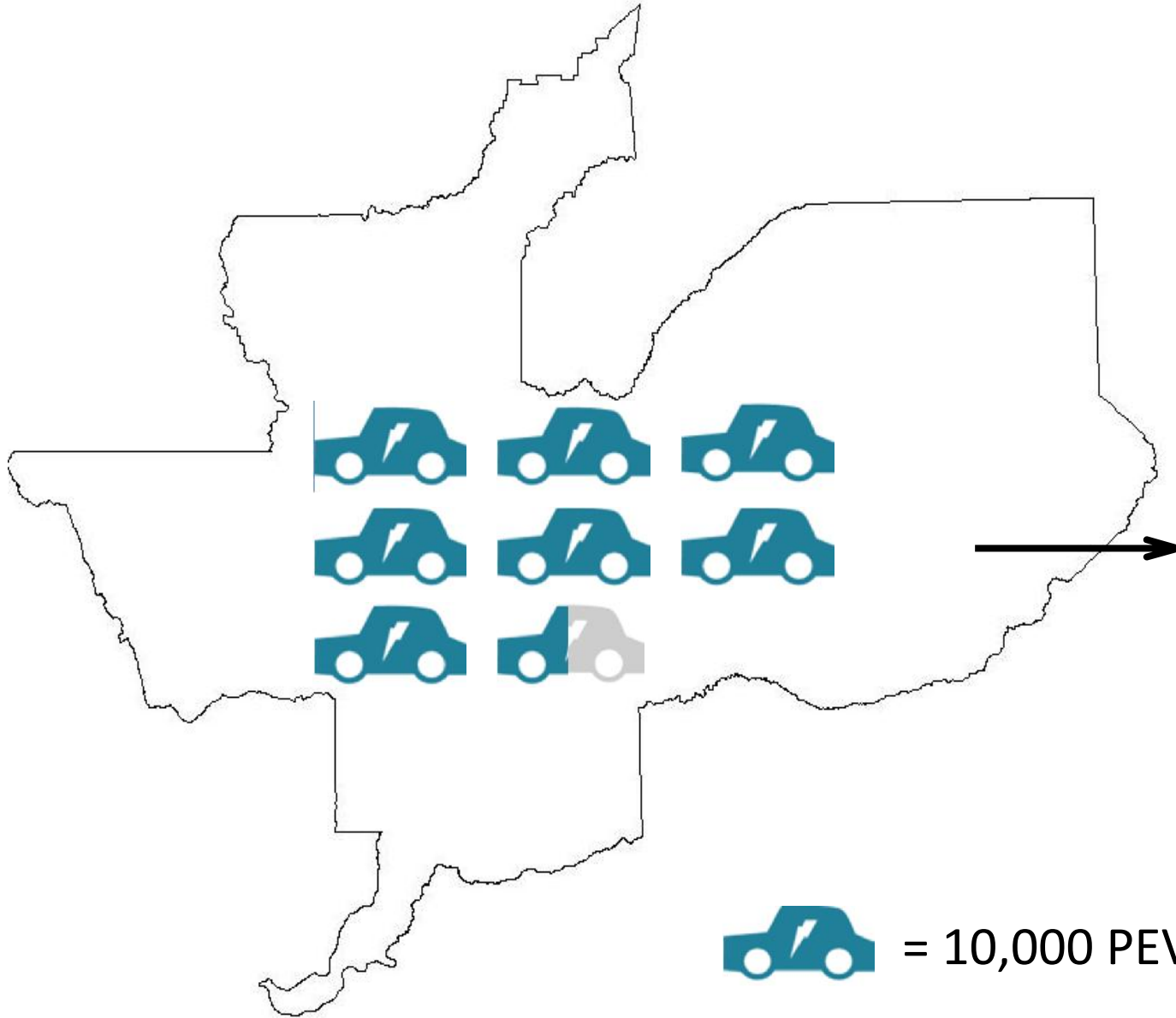
91%
live in single-family
homes with attached garages



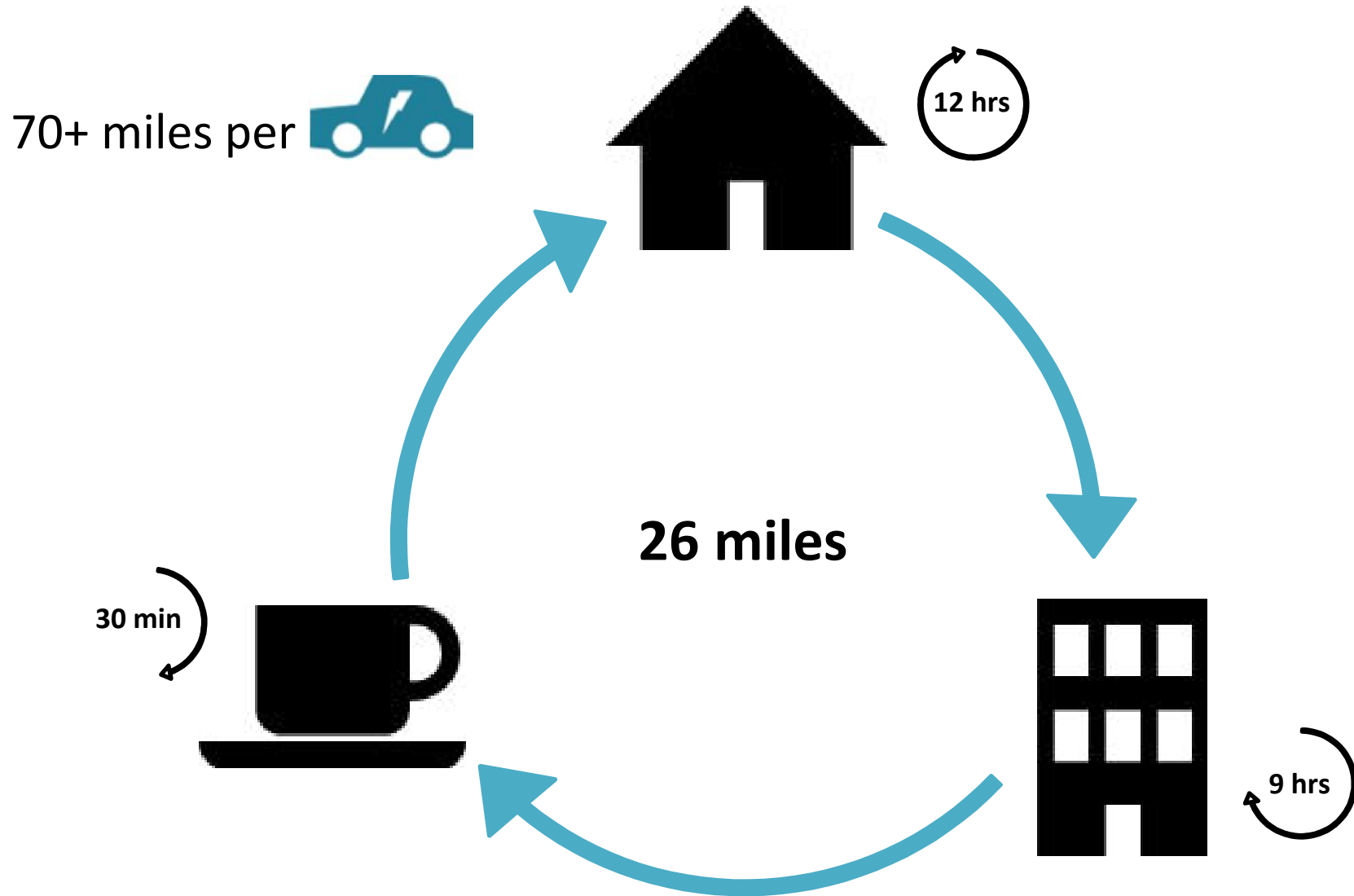
42% have solar panels on their
homes

*The CVRP provides incentives of up to \$2,500 for the purchase or lease of zero-emission and plug-in hybrid electric vehicles. The CVRP is funded by the CA Environmental Protection Agency's Air Resources Board.

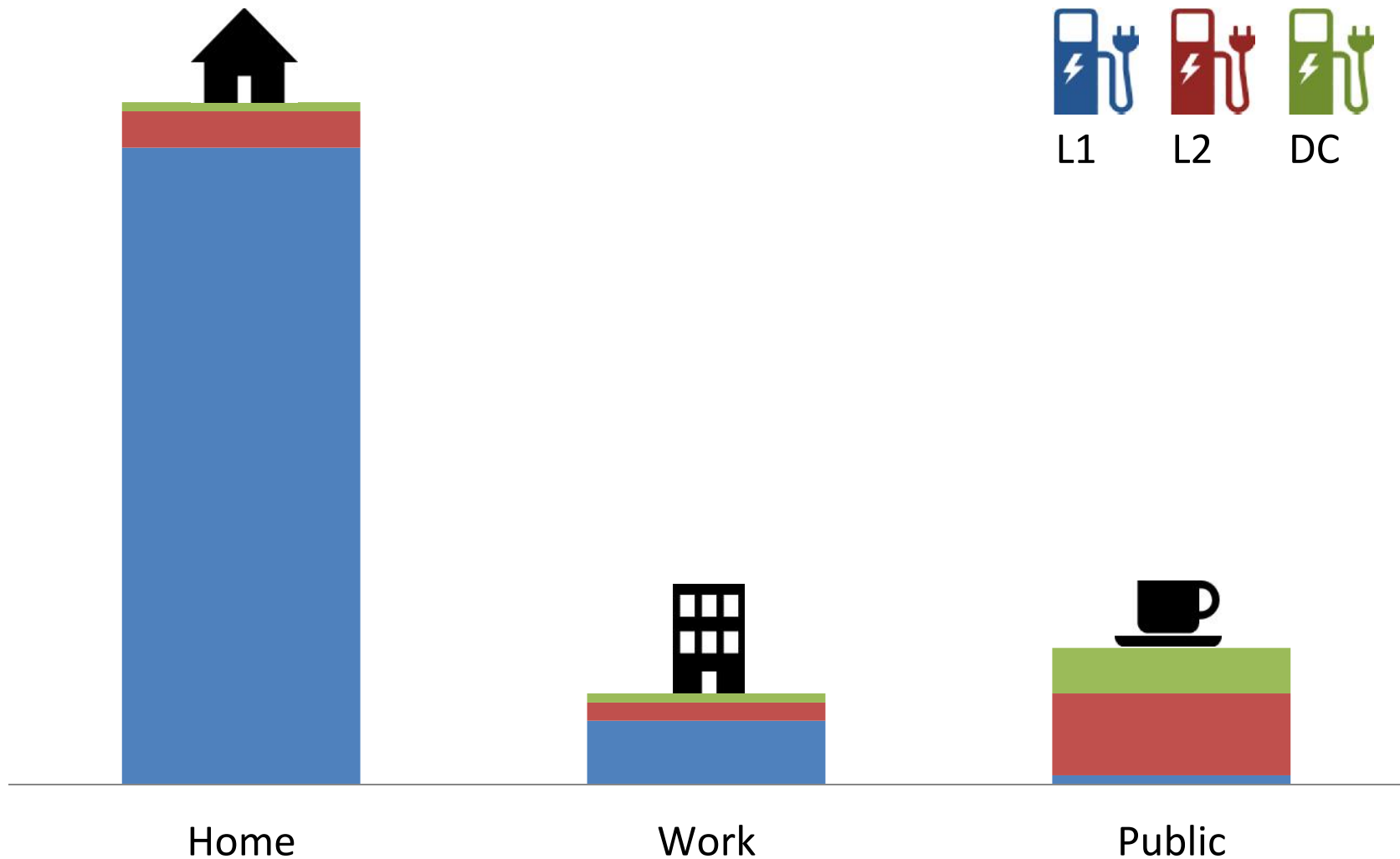
Infrastructure Forecast



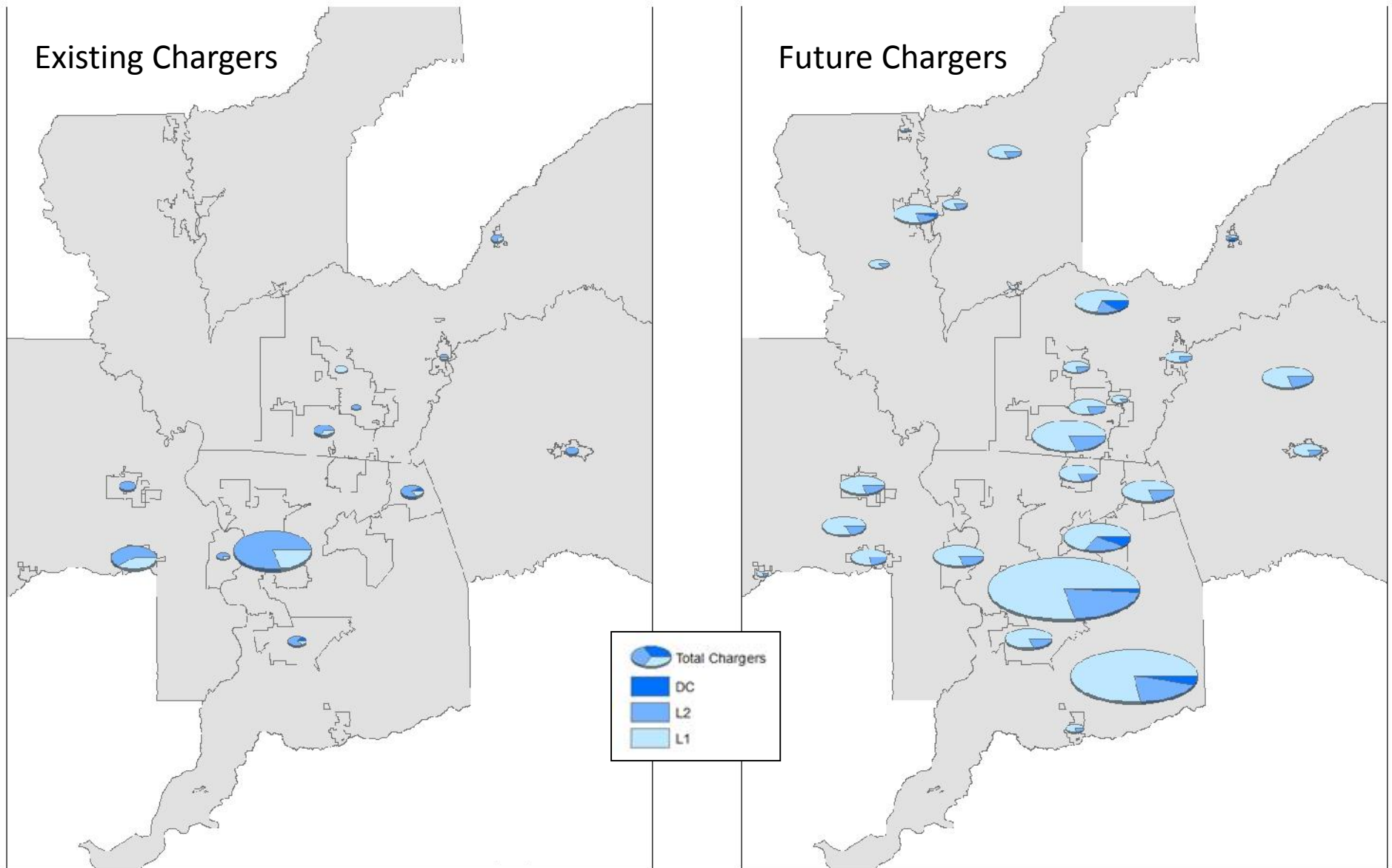
Driving Behavior Influences Charging Behavior



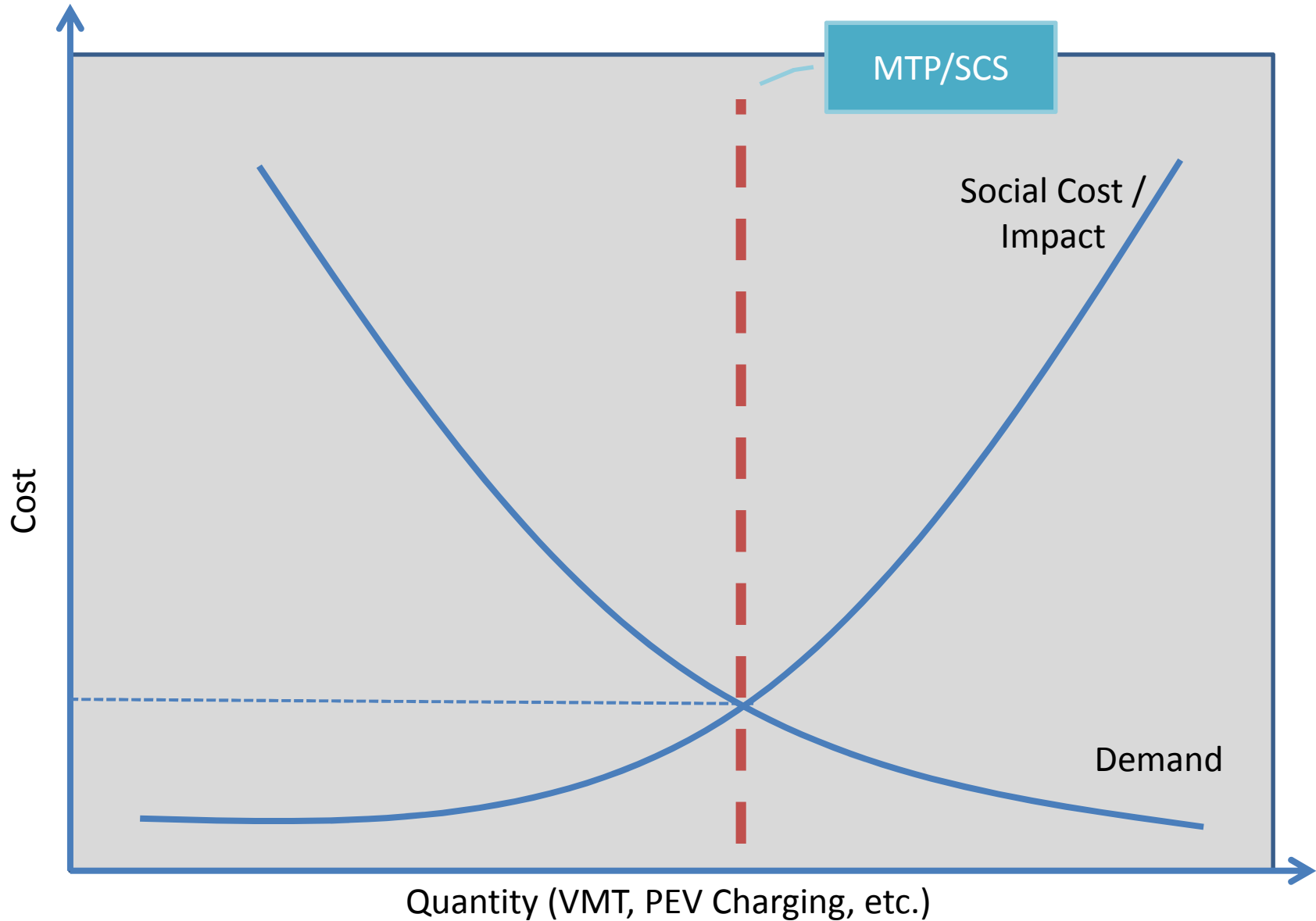
Most Charging will be Low-Voltage Charging at Home



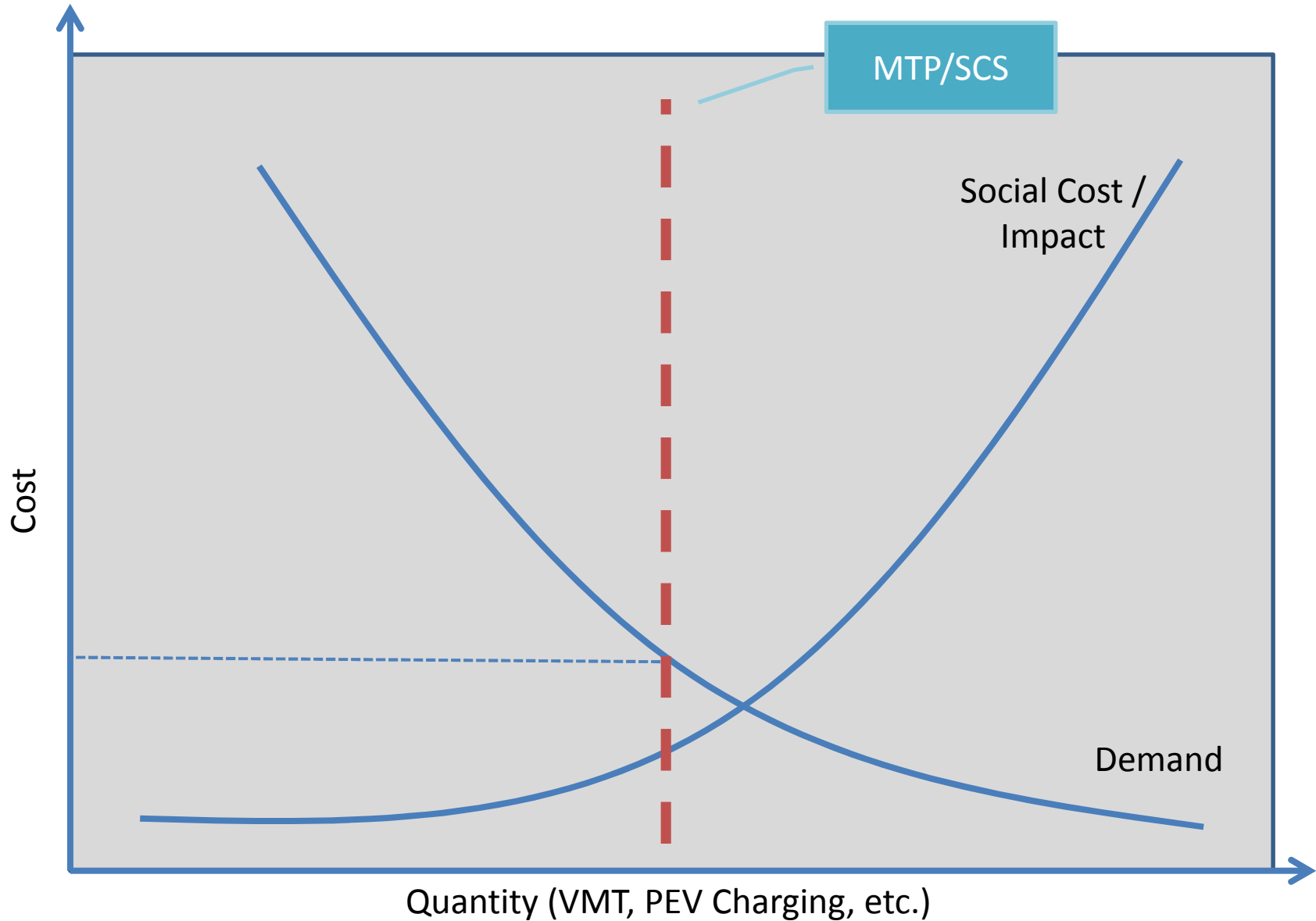
More Workplace and Public Charging Throughout Region in 2025, with an Emphasis on Level 1



The MTP/SCS Provides Guardrails for PEV Policies



The MTP/SCS Provides Guardrails for PEV Policies



Thank You!

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rporter@sacog.org