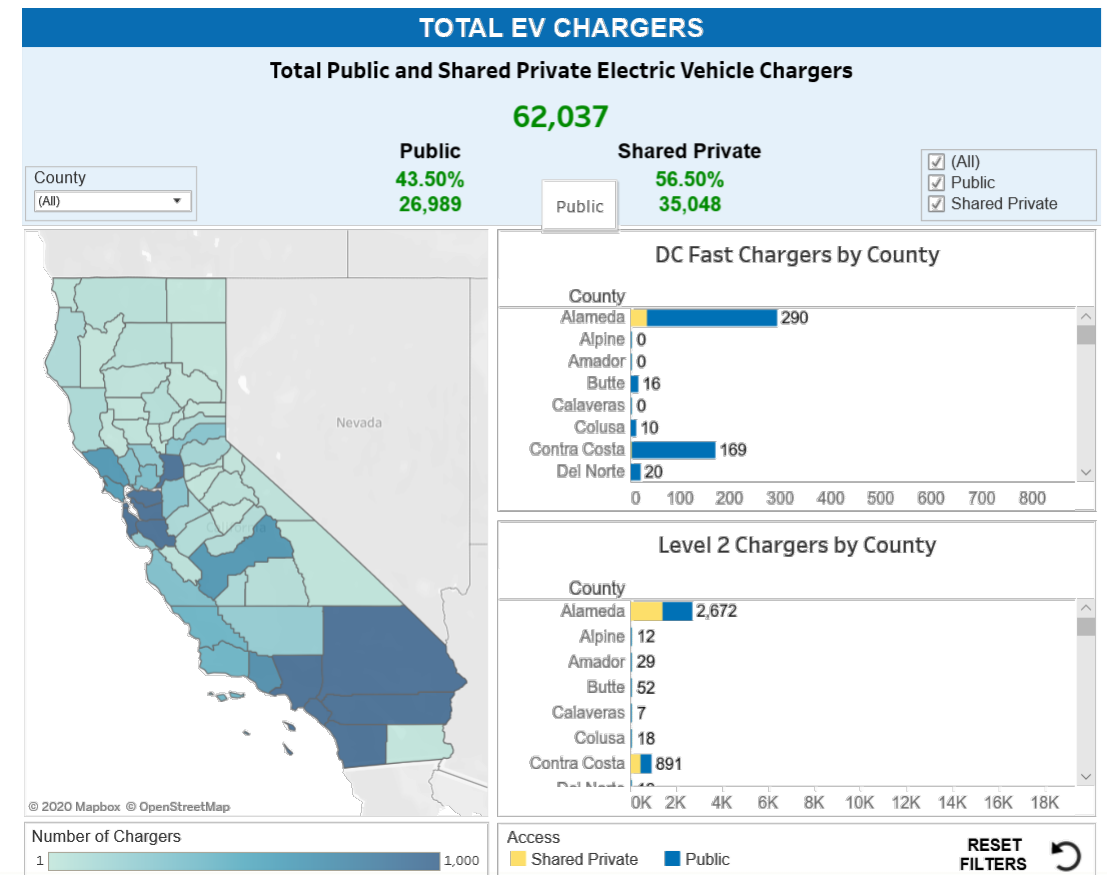


**DOCKETED**

<b>Docket Number:</b>	18-OIR-01
<b>Project Title:</b>	Energy Data Collection - Phase 2
<b>TN #:</b>	235402
<b>Document Title:</b>	EVSE Presentation
<b>Description:</b>	Presentation on Proposed EVSE Regulations
<b>Filer:</b>	Ryan Eggers
<b>Organization:</b>	Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	10/23/2020 10:15:25 AM
<b>Docketed Date:</b>	10/23/2020

# Title 20 Data Proposal Electric Vehicle Supply Equipment



Adeel Ahmad, Air Resources Engineer  
Fuels and Transportation Division

October 27, 2020



# Overview

---

1. Statutory Obligations
2. Data Needs
3. Uses of Data
4. Goals for Rulemaking
5. Coordination with Other Agencies
6. Data Comparisons Across Agencies



# Statutory Obligations

---

## 1. Primary

- Public Resources Code, Division 15, Chapter 3, Section 25229  
Electric Vehicle Charging Infrastructure Assessment (Assembly Bill 2127)
- Public Resources Code, Division 15, Chapter 4, Section 25304  
Integrated Energy Policy Report - Transportation Forecast

## 2. Additional

- Public Resources Code, Division 15, Chapter 4, Section 25231  
Charging Infrastructure Disproportionality (Senate Bill 1000)



# Data Needs

- Station-, EVSE-, and session-level data from public networked EVSEs
- Static and dynamic data

## Static

- **Station**
  - Commission Dates
  - Location
  - Protocol
  - Availability
  - Payment Methods
- **EVSE**
  - Service Dates
  - Protocols
  - Hardware Make/Model/Serial
  - Type
  - Active Ports
  - Port Profiles

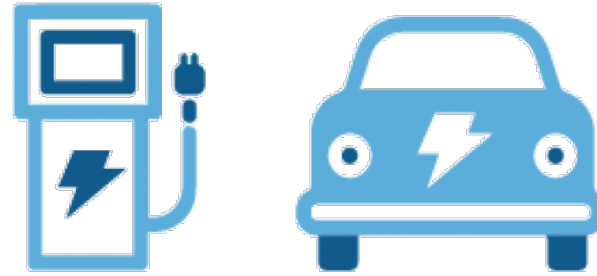
## Dynamic

- **Session**
  - Timestamps
  - Duration of Charge
  - Peak Power
  - Energy Discharged
  - Payment Method/Price
  - Vehicle-to-Grid Services

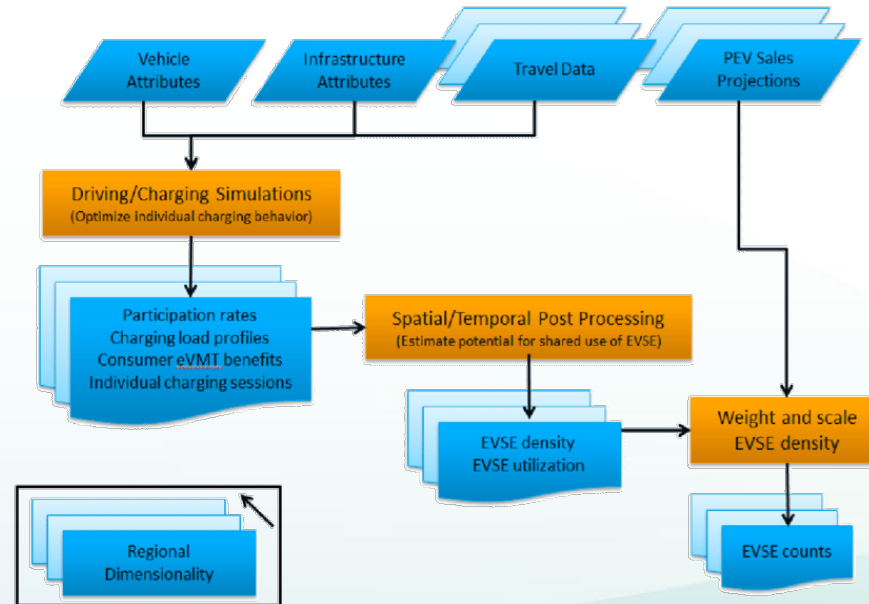


# Uses of Data

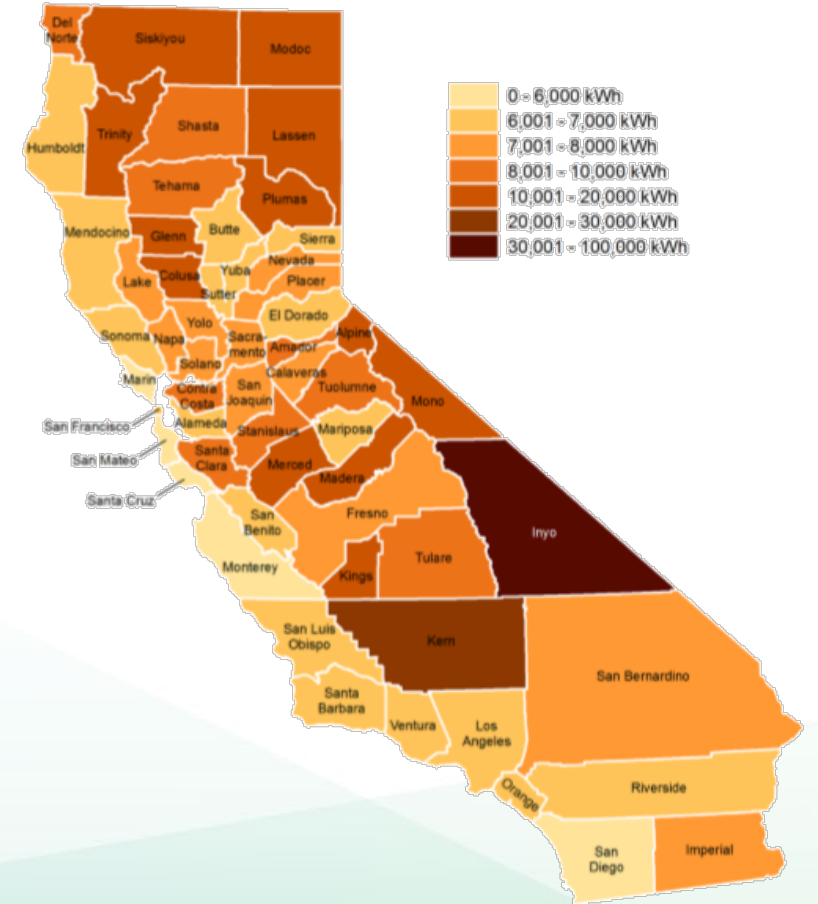
- Driver Behavior
- Modeling
- Demand
- Forecasting
- Technology
- Hardware



EVI-Pro Schematic



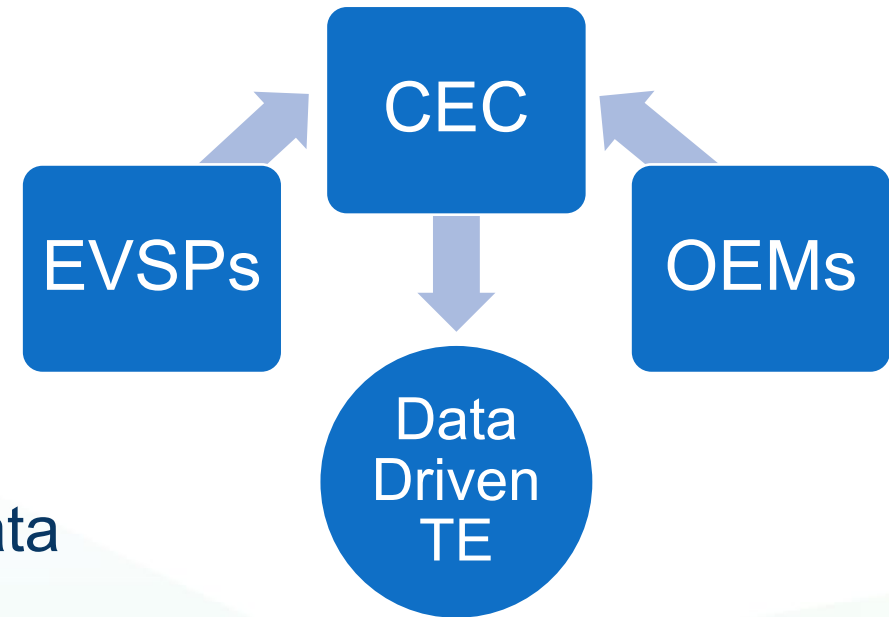
EVSE Deployment and Grid Evaluation (EDGE)





# Goals for Rulemaking

- **Collect Data to Satisfy Statutory Mandates**
- Define Reporting Parties and Method(s)
- Automate the Reporting Process
- Establish a Reference for Reporting Requirements
- Establish Regular Reporting Intervals
- Reduce Ad-hoc Requests for Data
- Minimize Burden of Compiling and Transmitting Data
- Ensure Consistency in Reporting
- Avoid Temporal Gaps in Data





# Coordination with Other Agencies

- State Agencies
  - California Air Resources Board
  - California Public Utilities Commission
  - Governor's Office of Business and Economic Development
- Program versus Regulation for Data Collection
- Differences in Data Types







# Data Comparisons Across Agencies

Data Set	Limited by Program	Limited by Utility Territory	Limited by Grant Funding	Statewide
CEC Counting Chargers	Yes	No	No	No
CEC Incentives	Yes	No	Yes	No
CEC Title 20 EVSE Data	No	No	No	+
CARB EVSE Standards	No	No	No	Yes
CPUC Transportation Electrification Framework (TEF)	*+	+	No	No
CPUC SB 350	*	Yes	No	No
CPUC DRIVE OIR	*	Yes	No	No

\* Limited by Defined Time Periods  
 + Pending Ratification



**Together we can accelerate transportation electrification in California**

**Thank You!**