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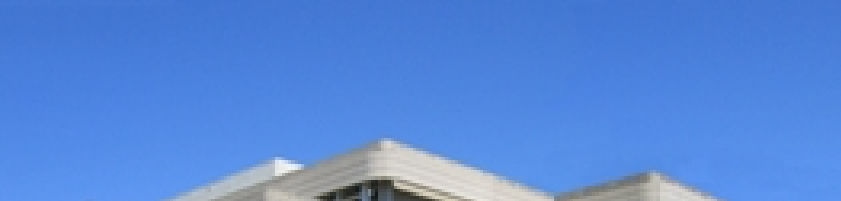
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Data Collection

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Electric Vehicle Infrastructure



Outline

- I. Data Generators within ARFVTP
 - II. Objectives
 - III. Charging In California
 - IV. Data Source
 - VI. Development
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Alternative and Renewable Fuel and Vehicle Technology Program

- Award recipients:
 - Public agencies (local, state, and federal)
 - Destination businesses
 - Workplaces
 - EVCS providers
 - Regional Readiness coalitions
 - “Fueling” stations or plazas
- Currently, agreements require 6 months of “data collection” – a glimpse in a short period of time



Objectives

Electric Vehicle Charging Stations (EVCS)

- Location/direction suitable for mapping
- Descriptive information on site (business, workplace, apartment, park, etc.)

Electric Vehicle Service Equipment (EVSE)

- Ratings in kW
- Cost
- Charge events over defined time period

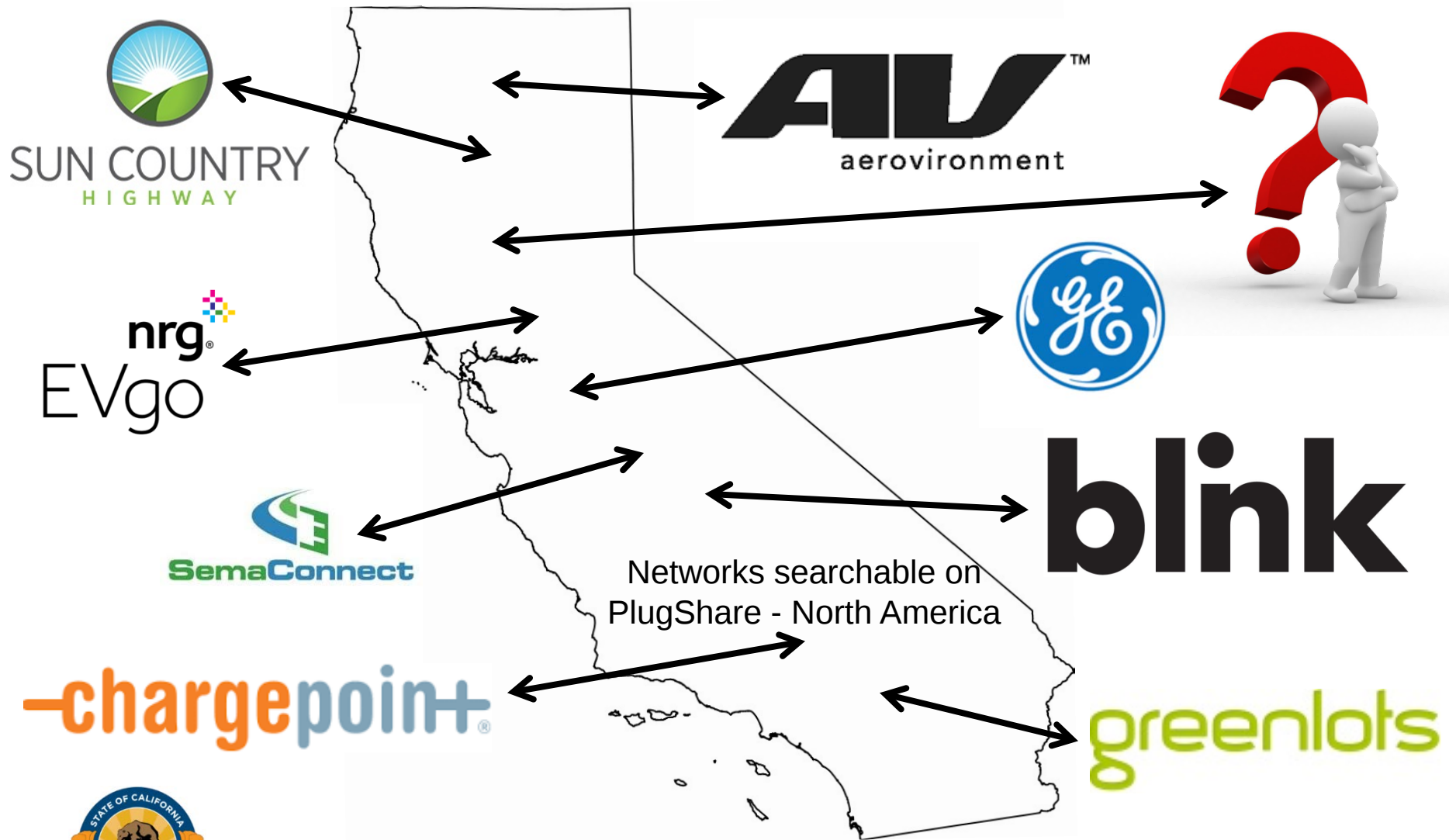


Objectives

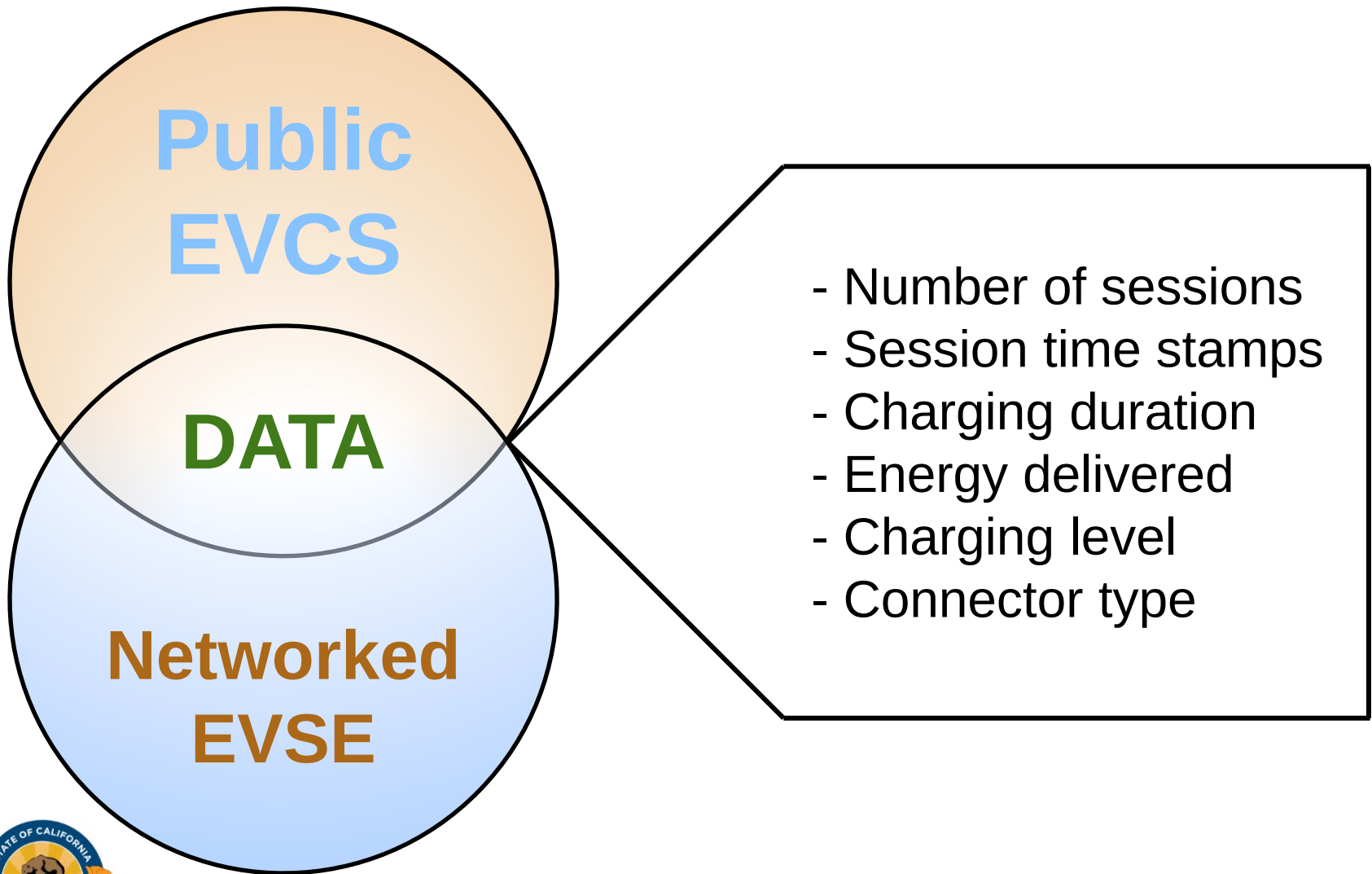
- Need better data collection and analytics to:
 - Track impact of investments
 - Monitor charger usage
 - Be able to pinpoint areas for charger deployment
 - Determine how charger deployment supports battery electric vehicle deployment
 - Determine alternative deployment options for sectors that present unique challenges
 - Determine what sector of drivers are served by different types of chargers and locations (commuter, visitor, long-distance traveler)



Charging Networks Operating In California...



What are we interested in

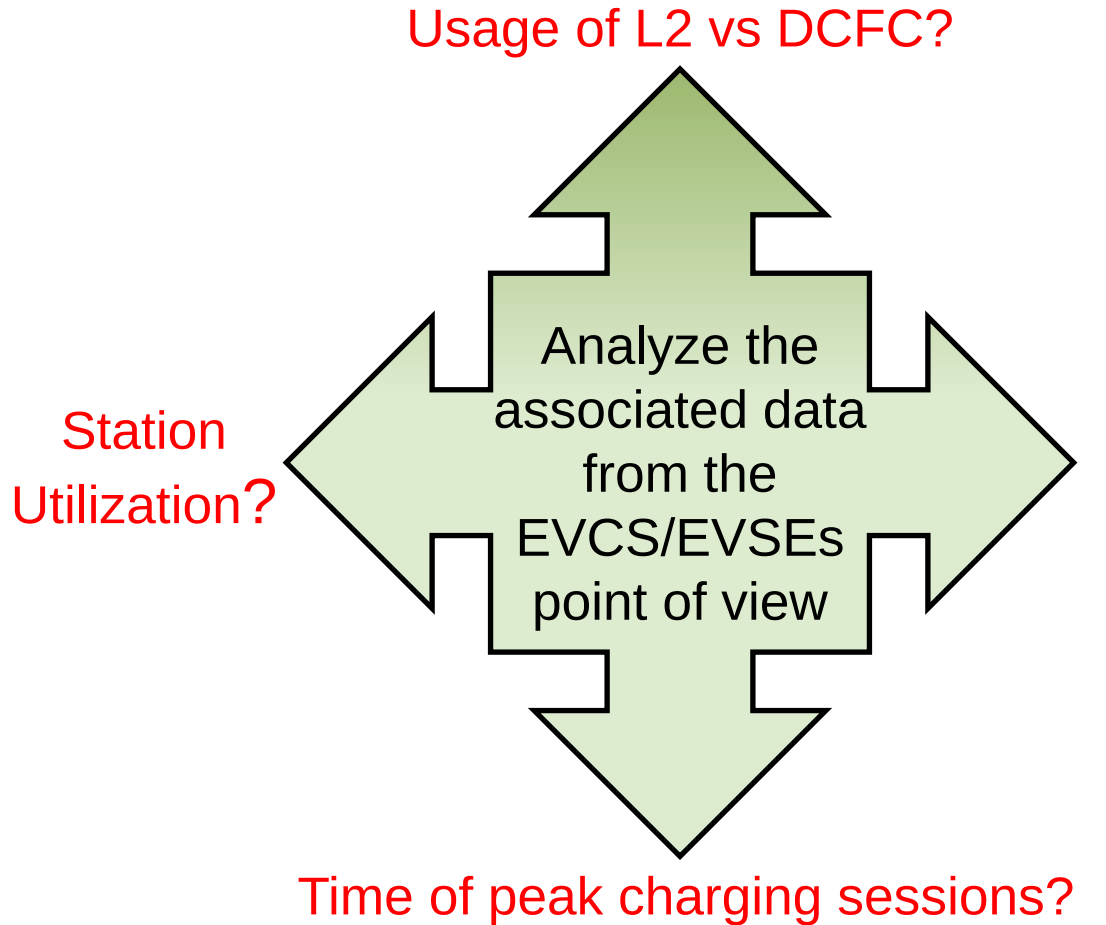


What are we planning to do

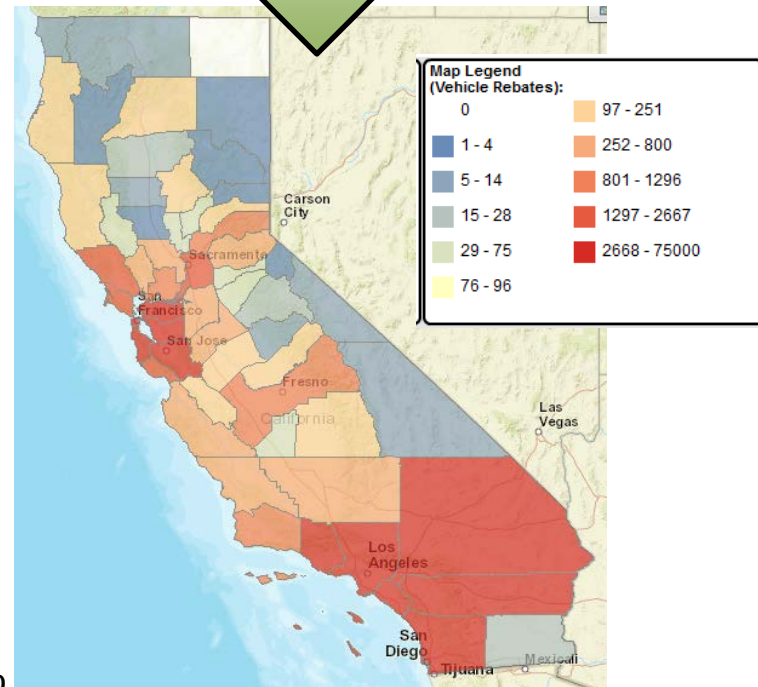
- Create an automated data collection repository of networked EVCS
- Frequently update the database – Daily?
- Analyze EVCS charging events by individual station
- Use the data to strategically plan for additional sites that will increase the rate of plug-in EV adoption towards the goal of ensuring 1.5 million vehicles are on California's roadways by 2025.



Questions we would like to answer



Example of tracking rebates issued by the Clean Vehicle Rebate Project (CVRP)



<https://cleanvehiclerebate.org/eng/cvrp-rebate-map>

Partnerships for Data

- Collecting data from different sources
- Ability to validate
- Getting data from non-networked chargers
- Creating an automated data collection system for networked EVCS
- Frequency of data collection – Daily?
- Being able to analyze EVCS charging events by individual station
- Using the data to strategically plan for additional sites that will increase the rate of plug-in EV adoption towards the goal of ensuring 1.5 million vehicles are on California's roadways by 2025



