

Megaregion ZEV Medium/Heavy Duty Vehicle Study



The Megaregion

- 15 counties
- Locations along 5, 80, 99, 50, 580/205 corridors
- Freight and goods movement
- Public DCFC
- Public hydrogen stations
- Report in July 2024



Our approach



Stories that people tell

- Freight operators
 - FOB, fleets
- Utility companies
 - Project insights
 - Common data dictionary
- Station operators and owners
 - Conventional fuels
 - EV
 - Hydrogen
- Community members

Stories that data tells

- Data collection and analysis
 - Grid capacity research
 - Hydrogen supply research
 - Site feasibility
 - Land and road impacts
 - Cost, financing, and partnerships
 - Community benefits and harms
- For priority station locations
 - Feasibility reports
 - Conceptual drawings
 - Community engagement plans
 - Operational models
 - Factsheets

Databases show that more than 100 trucks are registered at this address



Counting Trucks

Solution:

Data from Frontier

Data from SACOG and other MPOs

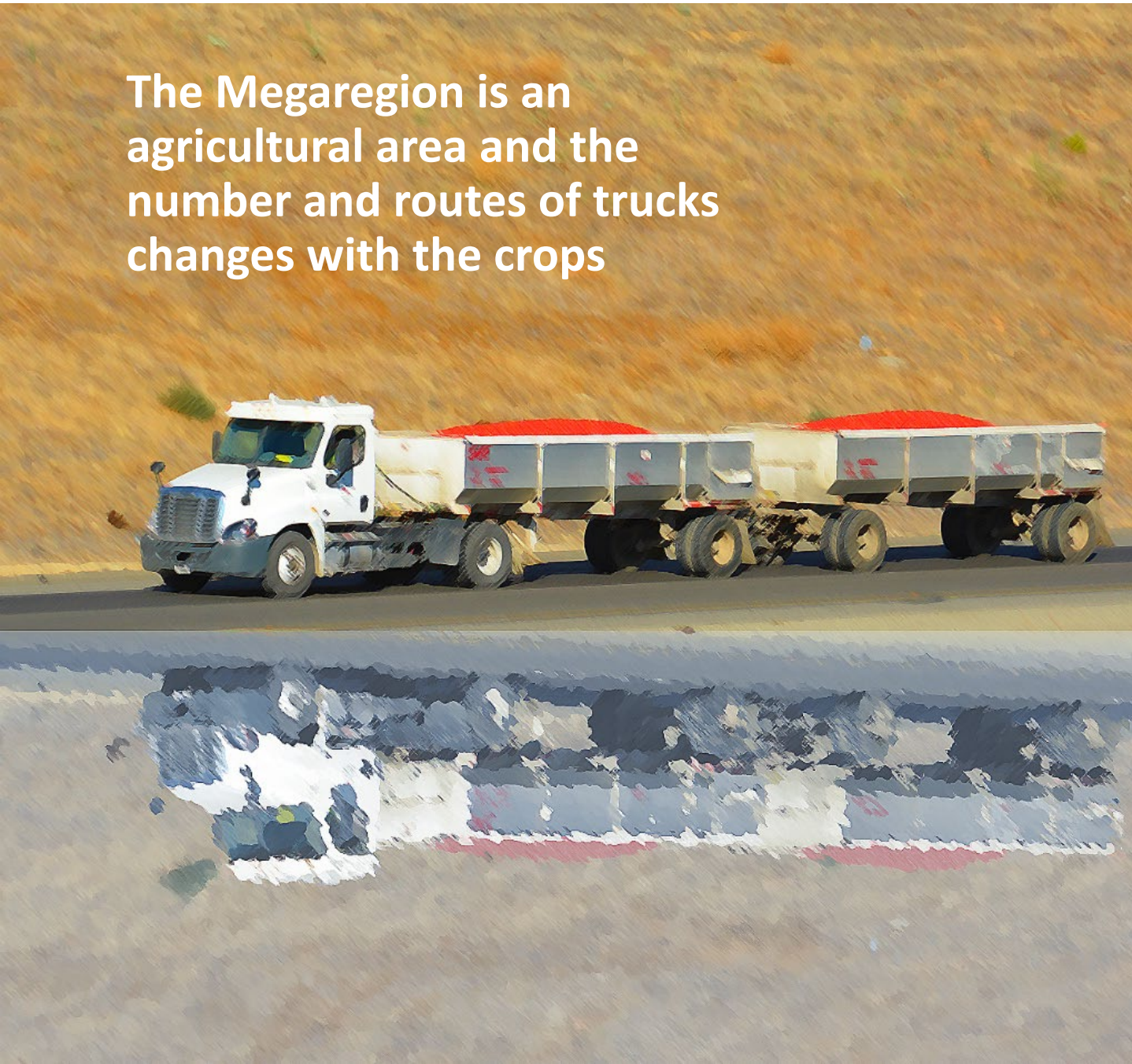
Data from MD/HD Blueprints


Interviews

The Megaregion is an agricultural area and the number and routes of trucks changes with the crops

Seasonal routes

Engagement with the ag community
Existing relationships





Grid capacity is a moving target. Small utilities and developers need common accessible tools.

Utility Coordination

Meet with all utilities to streamline coordination and engineering studies.

NCPA, SMUD, PG&E, and CaETC are on the steering committee

Many projects and technologies are on the horizon. How do we coordinate and not compete?



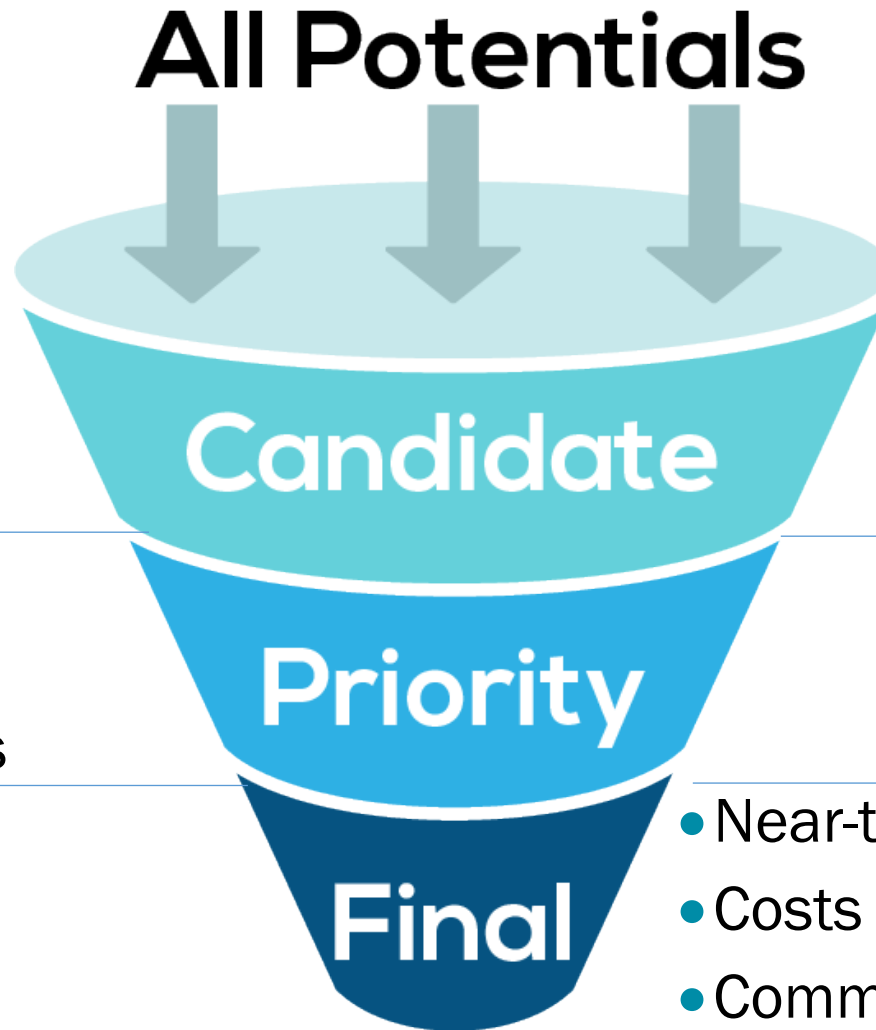
Integration

Coordinate with regional and statewide projects like the TradePort California, Valley Link, and ARCHES H2 Hub.



Choose and evaluate sites

- Existing data
- Stakeholder input
- [Social Pinpoint](#)



- Grid capacity/H2 availability
- Readiness
- Projected ZEV use

- Criteria
- Feedback
- Opportunities

- Near-term/Longer-term viability
- Costs and partnerships
- Community benefits

Actions

- Who do we need to engage?
- What are the opportunities?
- Where are the potholes and speed traps?



FRONTIER
energy

DKS



DIYSL



SACOG

Sacramento Area
Council of
Governments

Thank you!