

Megaregion ZEV Medium/Heavy Duty Vehicle Study

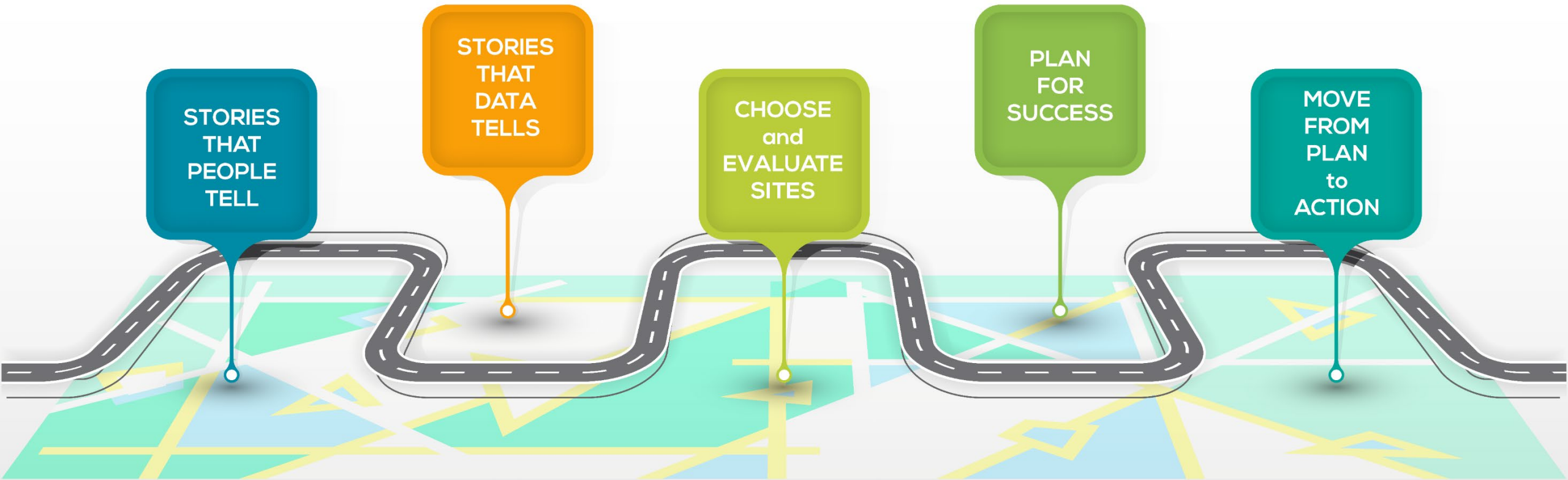


The Megaregion

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

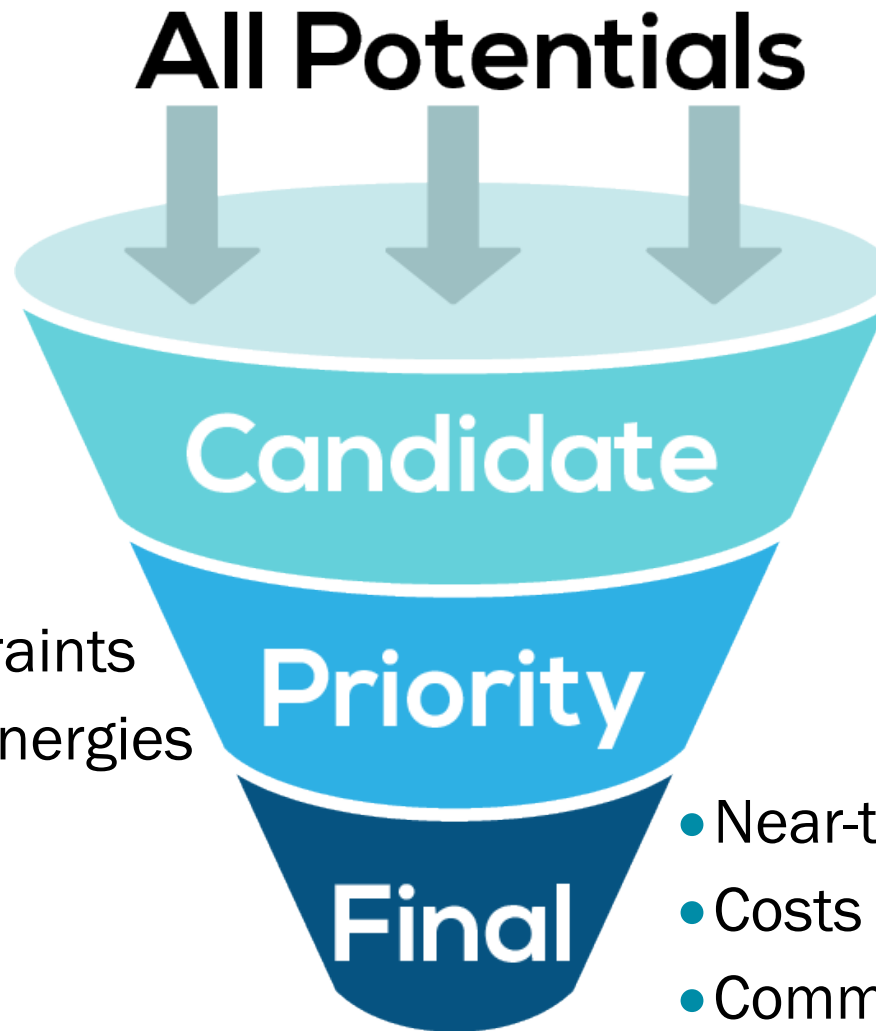


Our approach



Locations

- Existing data
- Stakeholder input
 - Meetings, interviews



- Demand
- Cost & constraints
- Benefits & synergies

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

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

Meetings and interviews:

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

Project team work

- 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



Challenge: Counting Trucks

Solution:

Data from Frontier

Data from SACOG and other MPOs

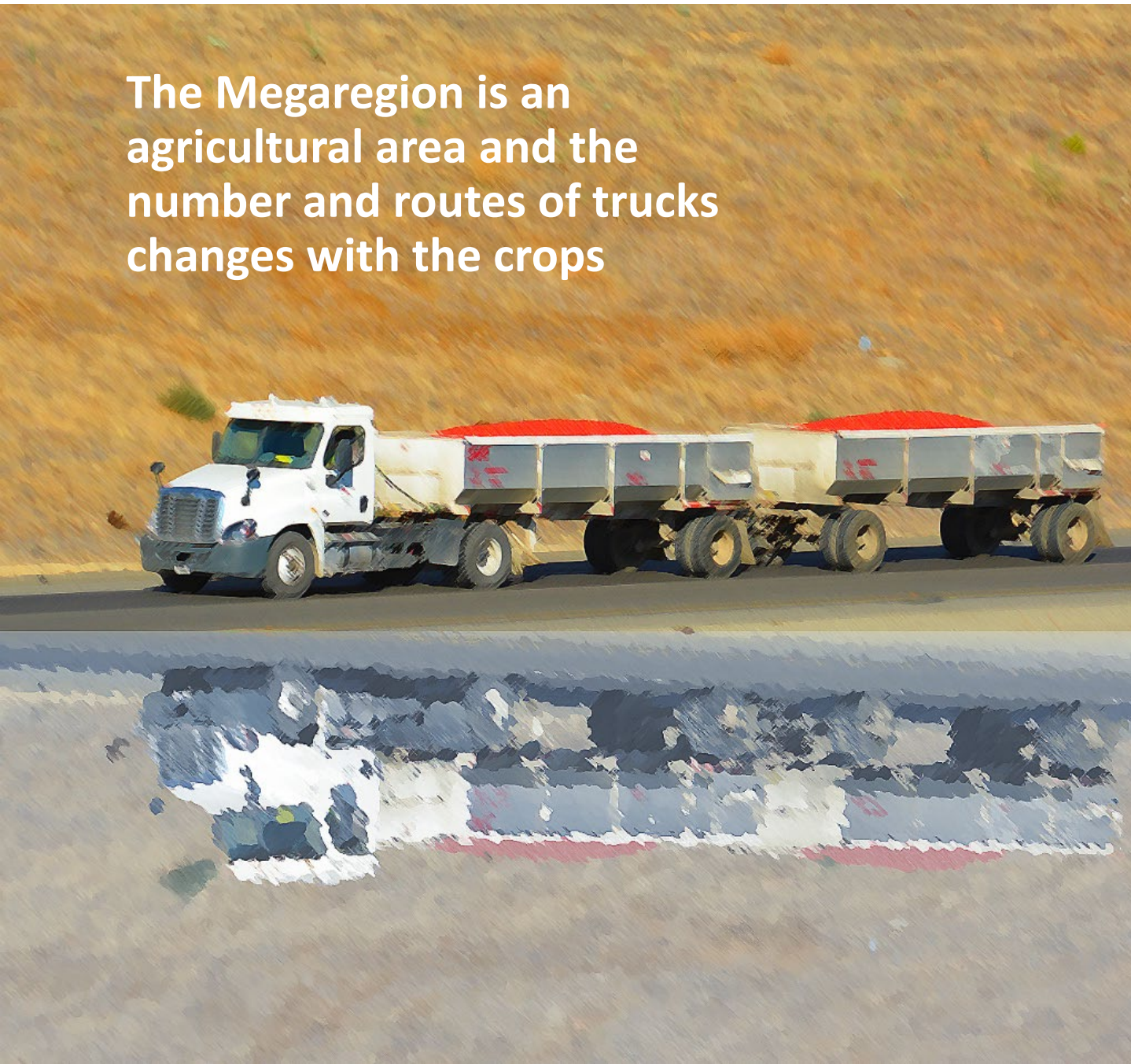
Data from MD/HD Blueprints


Interviews

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

Challenge:
Routes change with the season

Solutions:
Engagement with the ag community.
Existing relationships.





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

Challenge: Utility Coordination

Frontier and B&V will coordinate with all utilities to streamline coordination and engineering studies.

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

Many projects and technologies are on the horizon. Which are real and which are theories?

Challenge:
Planning for an uncertain future

Solutions:

The project team is already coordinating with regional and statewide projects like the TradePort California, Valley Link, and ARCHES H2 Hub.

DKS will lead exploration of new and novel technologies that show promise in the mid- and long-term.



How to help

- Send Chris White names and contact information for people to include in meetings and interviews.
- Share MHD ZEV projects that you know about.
- Warn us about potholes and speed traps!



FRONTIER
energy

DKS



DIYSL



SACOG

Sacramento Area
Council of
Governments

Thank you!