



## San Joaquin Valley Regional Planning Agencies' Directors' Committee

**Meeting Agenda**  
**Thursday, August 5, 2021**  
**Time: 10:00 a.m.**

Meeting ID: 849 3612 7285

Passcode: 304613

<https://us02web.zoom.us/j/84936127285?pwd=b2RNaTZjQ0pOUmgxNXRETWxwS0oxdz09>

Phone only: 1 (669) 900 9128

### APPROVAL OF MINUTES

Enclosure

1. July 1, 2021 Directors' Meeting

Ahron Hakimi



### DISCUSSION/ACTION ITEMS:

2. MPO Activity During Coronavirus

Ahron Hakimi

3. RTP/Sustainable Communities Strategies/Air Quality  
*Update and Discussion*

Ryan Niblock

4. Seven Year CIP for the San Joaquin Valley  
*Update and Discussion*

Ted Smalley &  
Diane Nguyen

5. California Budget and Pending Legislation  
*Update and Discussion*

Gus Khouri

Kern  
Council of  
Governments  
Ahron Hakimi - Chair

San Joaquin  
Council of  
Governments  
Diane Nguyen - Vice Chair

Tulare County  
Association of  
Governments  
Ted Smalley

Madera County  
Transportation  
Commission  
Patricia Taylor

(559) 266-6222  
(559) 314-6015 (Fax)



Stanislaus  
Council of  
Governments  
Rosa Park

Merced County  
Association of  
Governments  
Stacie Guzman

Kings County  
Association of  
Governments  
Terri King

Fresno  
Council of  
Governments  
Tony Boren

1401 19th Street, Suite 300  
Bakersfield, CA 93301

<http://sjvcogs.org>



- |   |                |                                     |
|---|----------------|-------------------------------------|
| 6. California Transportation Funding Updates                            | Ahron Hakimi   |                                     |
| ▪ <i>Trade Corridor Enhancement Program (SJCOG &amp; MCAG)</i>          |                |                                     |
| ▪ <i>Solutions for Congested Corridors Program (Fresno COG)</i>         |                |                                     |
| ▪ <i>State Transportation Improvement Program</i>                       |                |                                     |
| 7. Valley Voice DC 2021   | Michael Sigala |                                     |
| <b><i>a. Update and Discussion</i></b>                                  | Jen Covino     |                                     |
| <b><i>a. Discuss and Refine Priority Reauthorization Principles</i></b> |                |                                     |
| 8. SJV REAP Committee for Housing                                       | Michael Sigala | <input checked="" type="checkbox"/> |
| <b><i>a. Receive Update</i></b>   | Robert Phipps  |                                     |
| <b><i>b. Discuss REAP 2.0 Eligible Uses</i></b>                         |                |                                     |

### INFORMATIONAL ITEMS

*The following items are for informational purposes and require no action or vote.*

- |   |                             |                                     |
|---|-----------------------------|-------------------------------------|
| 9. I-5 Freight ZERO Pilot Study – FY 2021 Fourth Quarter Report |                             | <input checked="" type="checkbox"/> |
| 10. Caltrans Directors' Report                                  | Diana Gomez/Dennis Agar     |                                     |
| 11. California High Speed Rail                                  | Garth Fernandez/Toni Tinoco |                                     |
| 12. San Joaquin JPA for Passenger Rail                          | Dan Leavitt                 |                                     |
| 13. San Joaquin Valley Air Pollution Control District           | Tom Jordan                  |                                     |
| 14. Valley GO (MioCar) and Valley Flex (Vamos & VoGo)           | Michael Sigala              |                                     |
| 15. California Partnership for the San Joaquin Valley           | Eduardo Gonzalez            |                                     |

### OTHER ITEMS

16. Director Items
17. Public Presentations for Items Not on Agenda.  
*This portion of the meeting is reserved for persons wishing to address the Committee on items within its jurisdiction but NOT on this agenda. Unscheduled comments may be limited to three minutes. The public may comment on listed agenda items as they are considered.*

### ADJOURN MEETING

***Directors Only Closed Session***

**Next Directors' Meeting: Thursday, September 2, 2021 (Hybrid – Zoom/Visalia)**

**Americans with Disabilities Act (ADA) Accommodations** The meeting room and restrooms are ADA accessible. Representatives or individuals with disabilities should contact the SJV Regional Planning Agencies at (559) 266-6222, at least three days in advance, to request auxiliary aids and/or translation services necessary to participate in the meeting. *At this time, all meetings will be conducted via Zoom until further notice.*



## Meeting Minutes

Thursday, July 1, 2021

Time: 10:00 a.m.

ITEM 1

Meeting Location:

HYBRID – FRESNO COG & ZOOM CONFERENCE

Directors	MPOs
Ahron Hakimi– Chair	Kern Council of Governments
Diane Nguyen – Vice Chair	San Joaquin Council of Governments
Patricia Taylor	Madera County Transportation Commission
Rosa Park	Stanislaus Council of Governments
Tony Boren	Fresno Council of Governments
Stacie Guzman	Merced County Association of Governments
Ted Smalley	Tulare County Association of Governments
Terri King	Kings County Association of Governments

*Please see Appendix A for a list of other attendees*

Chair and Vice Chair responsibilities were assumed by Ahron Hakimi and Diane Nguyen

### APPROVAL OF MINUTES

#### 1. June 3, 2021 Directors' Meeting

Terri King

There was a motion to approve the June 3, 2021 Directors' Committee Minutes.

First Motion: Ted Smalley  
Second Motion: Stacie Guzman  
Motion Carried

Kern  
Council of  
Governments  
Ahron Hakimi - Chair

San Joaquin  
Council of  
Governments  
Diane Nguyen - Vice Chair

Tulare County  
Association of  
Governments  
Ted Smalley

Madera County  
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## DISCUSSION/ACTION ITEMS:

### 2. MPO Activity During Coronavirus

A. Hakimi

Fresno COG reported staff back in the office. Kern COG is at 25 percent of staff at the office.

### 3. RTP/Sustainable Communities Strategies/Air Quality

R. Niblock

Ryan Niblock reported a June 16<sup>th</sup> IAC meeting to continue to address the EMFAC issues. 2022 conformity strategy was submitted to Caltrans, EPA and FHWA so that they are aware of all the steps needed to use EMFAC 2014. Conformity templates are being finalized in July. A RPA letter is forthcoming stating emission counts have officially begun for the 2022 RTP/SCS. Certain elements of the 2018 PM 2.5 SIP are anticipated to be disapproved by EPA due to a missed attainment deadline in 2020. This could trigger a conformity freeze for one to two months.

Tony Boren discussed the need to meet with new executive staff and leadership at ARB. Kristine Cai discussed GHG target issues for the next SCS. ARB executive staff and board chair will be invited to the September Directors' meeting.

### 4. Seven Year CIP for the San Joaquin Valley

T. Smalley & D. Nguyen

Ted Smalley reported that he and Diane Nguyen put together a spreadsheet of projects broken down into four categories: goods movement, rail, multimodal, and environmental projects. This is a starting point and further discussion and "filling in" of projects is needed. Ted reported that Madera, Tulare and Stanislaus have submitted projects to date. Ted asked that additional projects be submitted over the next two weeks. Ted reviewed the preliminary list and encouraged close to "shovel ready" projects (beyond PSR and well into design) to be on the list. Discussion ensued surrounding prioritizing projects across the valley and the need to collectively work on prioritizing interregional projects of significance.

### 5. "Finish the 99" Coalition

T. Smalley

Ted Smalley reported that in a couple of months an official unveil of the efforts will be announced. A pending list of supporters, a web site, strategic meetings in Sacramento, and other efforts are underway. Ted noted a recent meeting with Egon Terplan and Darwin Moosavi to discuss SR 99. The need to identify mitigation measures pertaining to widening SR 99 was discussed. The SR 99 Summit was also mentioned. Ahron Hakimi noted the link between economic development and moving people and goods on SR 99.

### 6. California Transportation Funding

A. Hakimi

#### ***Program and Project Funding Updates:***

- ***Trade Corridor Enhancement Program (SJCOG & MCAG)***  
There was no update provided.
- ***Solutions for Congested Corridors Program (Fresno COG)***  
There was no update provided.
- ***State Transportation Improvement Program***

Ahron Hakimi stated concerns about limited STIP funding available in the budget. The abundance of bike/ped funding over roads was discussed.

### 7. Pending California Legislation

M. Sigala

Michael Sigala briefly reviewed various California bills pending legislation but indicated budget issues and trailer bills are a priority at this time. AB 1147, SCS Block Grant, was noted.

AB 106 (regions rise together), SB 640 (joint proposed projects) and AB 1499 (design build) are still moving forward. Gus Khouri added that AB 1147 should remain on the watch list. Reducing GHG through VMT reductions were noted. The state budget did meet the June 15<sup>th</sup> deadline. There are a lot of trailer bills still pending. The \$4.2 billion needed appropriation for High Speed Rail was noted. SB 129 was noted for investments in EV vehicles. Gus reviewed a series of other budget proposals, all dependent on the funding allocation for high speed rail between the legislature and the administration.

**8. Regional Policy Council Meeting**

M. Sigala

Michael Sigala discussed follow up items from the June 25<sup>th</sup> meeting, particularly Valley Voice DC. Jen Covino noted that since the June 25<sup>th</sup> meeting, there has been a lot of movement in DC regarding transportation funding, including the passage of the Invest in America Act. Climate change measures like California are also found in the federal transportation funding proposals. Ted asked about CMAQ and STIG budget impacts.

**9. SJV REAP Committee for Housing**

R. Phipps/M. Sigala

Michael Sigala noted four technical assistance contracts being approved at Fresno COG. The comprehensive housing report was noted and jurisdictional surveys. A REAP newsletter is forthcoming and workshop series. Michael noted that each COG/MPO will have a RHNA consultant, he asked that each RHNA scope of work should contain a task for regional cooperation.

**INFORMATIONAL ITEMS**

**10. Caltrans Directors' Report**

D. Gomez/D. Agar

Michael Navarro, District 6 Director of Planning, noted the Caltrans Sustainable planning grant program and the abundance of applications from District 6. Letters of support for SR 99 in Madera (RAISE) was noted. The 99 Summit was discussed. There is a draft agenda, planning is still in the works; there is a need to have the summit in person. Dennis Agar, District 10 Director, noted offices are scheduled to be open in September. Dennis encouraged the development of the seven year CIP for the Valley.

**11. California High Speed Rail**

T. Tinoco

No report was provided.

**12. San Joaquin JPA for Passenger Rail**

D. Leavitt

Dan Leavitt noted bringing back the fifth train on the San Joaquins, this one runs from Oakland to Bakersfield. Ridership is steadily increasing. July 23<sup>rd</sup> is the next board meeting.

**13. San Joaquin Valley Air Pollution Control District**

T. Jordan

No report was provided.

**14. Valley GO (MioCar) and Valley Flex (Vamos & VoGo)**

M. Sigala

Michael Sigala noted the Miocar expansion schedule with the pending DOE grant application and the continued need for matching funds or in-kind support.

**15. California Partnership for the San Joaquin Valley**

E. Gonzales

Shebly Gonzales noted the next Partnership meeting on September 10<sup>th</sup> in Merced. The water work group is reengaged again. Patricia Taylor asked for a written update on the board nomination process.

## OTHER ITEMS

### 16. Director Items

### 17. Public Presentations for Items not on Agenda

No public comment.

**Meeting Adjourned at Approximately 11:53 A.M.**

### Appendix A – Additional Meeting Participants

<b>In Attendance:</b>	
<b>Individual(s)</b>	<b>Organization(s)</b>
Dan Leavitt	San Joaquin JPA
Michael Sigala	Valleywide Coordinator, Sigala Inc
Ryan Niblock	San Joaquin Council of Governments
Michael Navarro	Caltrans District 6
Robert Phipps	Fresno Council of Governments
Jennifer Soliz	Fresno Council of Governments
Trai Herr	Fresno Council of Governments
Meg Prince	Fresno Council of Governments
Isael Ojeda	Stanislaus Council of Governments
Sam Becker	Stanislaus Council of Governments
Steve Dial	San Joaquin Council of Governments
Braden Duran	Fresno Council of Governments
Steve Ingoldsby	Tulare County Association of Governments
Kristine Cai	Fresno Council of Governments
Linda Urata	Kern Council of Governments
Ben Kimball	Tulare County Association of Governments
Dennis Agar	Caltrans District 10
Melanie Arriola	Stanislaus Council of Governments
Christine Corrales	San Joaquin Council of Governments
Gus Khouri	Khouri Consulting
Jen Covino	Simon and Company
David Gellman	Simon and Company
Jeff Findley	Madera County Transportation Commission
Becky Napier	Kern Council of Governments
Roberto Brady	Tulare County Association of Governments
Shelby Gonzales	Fresno State Community and Economic Development
Rob Ball	Kern Council of Governments



**San Joaquin Valley REAP Update  
August 5, 2021**

- Housing Technical Assistance to Valley jurisdictions is now available utilizing the following consultants:
  - AECOM
  - Mintier Harnish
  - Precision Engineering
  - QK (Quad Knopf)

A potential additional contract with HDR for valleywide GIS/available sites development and assistance is pending.



Jurisdictions can request technical assistance via a web site portal:  
<https://sjvcogs.org/reap/reap-technical-assistance/>

We are processing our first jurisdictional request at this time.

- Work efforts continue on the **Comprehensive Housing Report**. Stakeholder, Director, and Jurisdictional surveys are complete. Results are being compiled for inclusion in the housing report.
- REAP website updates are complete: [www.sjvcogs.org/reap](http://www.sjvcogs.org/reap).
- The monthly REAP TAC meeting was held on July 13th. Discussion centered on suballocation updates, RHNA coordination, and GIS data and staffing capacity at the MPO/COG level.
- The monthly workshop series has commenced. The first workshop, **Housing in the San Joaquin Valley**, was held on July 27<sup>th</sup> with over 30 participants attending.

The next workshop, **Accessory Dwelling Units in the San Joaquin Valley**, will be held on August 24<sup>th</sup>. There are currently over 30 registrants.

REAP Workshop Series: <https://sjvcogs.org/reap/reap-workshops/>



# San Joaquin Valley REAP

**REGIONAL EARLY ACTION PLANNING**

**The San Joaquin Valley Regional Early Action Planning (REAP) program is providing technical assistance to jurisdictions to help with planning activities to meet the sixth cycle of the regional housing needs assessment, and to spur affordable housing production.**

Technical assistance is being provided free to jurisdictions for planning, temporary staffing or consultant needs associated with updating local planning and zoning documents, expediting application processing, and other actions to accelerate additional housing production.

***The following is a list of technical assistance activities covered under the REAP program:***

- Affordable housing production assistance
- Housing Element “101” assistance
- Zoning code and audits assistance
- Streamline permitting assistance
- Available sites identification assistance
- Grant funding assistance
- Support for existing SB2 and LEAP activities
- Infrastructure planning to include sewers, water systems, transit, roads, or other public facilities necessary to support new housing and new residents
- Affirmatively Furthering Fair Housing (AFFH) assistance
- Implementing Pro Housing Policies assistance
- Development impact fee advisement, linkage fees, inclusionary housing policies
- Feasibility studies to determine the most efficient locations to site housing
- Education and community outreach
- Accessory dwelling unit adoption assistance
- Other activities subject to review and approval

**To sign up for technical assistance please visit: [www.sjvcogs.org/reap/reap-technical-assistance](http://www.sjvcogs.org/reap/reap-technical-assistance)**

**Information about the San Joaquin Valley Regional Early Action Planning (REAP) program: [sjvcogs.org/reap](http://sjvcogs.org/reap)**

For questions, please contact your MPO representative or Michael Sigala at michael@sigalainc.com or (559) 266-6222





SAVE THE DATE

# ACCESSORY DWELLING UNITS IN THE SAN JOAQUIN VALLEY

SAN JOAQUIN VALLEY REAP WORKSHOP SERIES

Legislation // Ordinances // Plans & Programs

FREE WEBINAR HOSTED BY PRECISION CIVIL ENGINEERING, INC.

**TUESDAY, AUGUST 24, 2021 | 11:30 AM - 12:30 PM**

To register, visit

[https://us02web.zoom.us/webinar/register/WN\\_xoRDvnVvTkS3FaIPFcD0Xw](https://us02web.zoom.us/webinar/register/WN_xoRDvnVvTkS3FaIPFcD0Xw)



**QUARTERLY PROGRESS REPORT****Fiscal Year 2020/2021, Quarter 4 (April 1 – June 30)****Project Title: I-5 FREIGHT Zero Emissions Route Operations (ZERO) PILOT STUDY****Principal Investigator:** Miguel Jaller**Award No.:** A20-3269-0**Project Term:** January 16, 2020 – August 31, 2021 (Requested extension until April 30, 2022)**Project Abstract:**

It is imperative to improve the efficiency of the freight movements in the San Joaquin Valley to mitigate the air quality issues generated by the freight activity, in general, and the vehicles and equipment, in particular. Specifically, this project seeks to evaluate qualitatively and quantitatively different zero emission and near zero emission fuel and vehicle technologies that could be implemented in the Valley along the I-5 and other important corridors. In doing so, the research team will synthesize the freight patterns in the study area, and the set of feasible strategies and technologies identified in a number of recent guidelines and freight plans.

Using public information, the team will conduct a preliminary evaluation and benchmarking of such strategies and technologies, and considering the freight patterns, local issues, and goals, update a previously defined pilot study concept for the large-scale implementation of the feasible strategies and technologies. Moreover, the project will conduct a small-scale demonstration of some technologies to collect data that could help update and improve the preliminary assessments and bring the knowledge and practice closer so that the pilot study concept is feasible and optimum.

Finally, the team will update the pilot concept, with the findings from the small-scale pilot. The team expects to learn from the pilot development and implementation, not only factors for technical improvements but also for the implementation process of such efforts. Furthermore, the findings will allow identifying regulatory, operational changes, and/or prioritize investments required for the introduction of different technologies. The results of this project will provide supporting material for the development of a federal proposal for the implementation of the pilot study concept and transform the I-5 corridor into a worldwide example of an efficient and sustainable transportation system. Throughout the project, the research team will consider the implications to the affected communities, the planning agencies, the freight agents, and the potential for unintended consequences.

**Project Objective:**

Considering the current and projected freight volume and movement conditions in the San Joaquin Valley, the main objective of this project is to **prepare a feasibility study of zero emission technologies for potential implementation along the I-5 corridor in the San Joaquin Valley.**

### Project Main Activities:

- i) Assess the freight patterns along the corridor (and other important corridors, e.g., SR 99);
- ii) synthesize different technologies such as zero emission vehicles, autonomous and connected vehicles, and truck cargo utilization based on the recent guidelines and plans;
- iii) develop a pilot study concept for large-scale implementation of such technologies;
- iv) conduct a small-scale data collection pilot with available<sup>1</sup> zero emission vehicle technologies;
- v) use the empirical data to quantify the benefits and costs of the technologies; and,
- vi) considering the results from i), and the evaluation of the different technologies (from ii), provide insights for the development of a plan that considers the implementation of the pilot study concept from iii).

### Project Tasks:

These activities had the following deliverable schedule. With the extension, there has been a revision of the due dates for some of these tasks and deliverables.

Task	Deliverable Description	Due Date	Status
<b>1 – Kickoff Conference Call/Meeting</b>	Principal Investigator and key personnel will meet with Kern COG Program Manager and other staff to discuss the overall plan, details of performing the tasks, project schedule, items related to personnel or changes in personnel, and any issues that may need to be resolved before work can begin.	Month 1: February 2020	100%
<b>2 – Review of Freight Patterns in the San Joaquin Valley</b>	Report of the reference review synthesizing freight patterns	Month 5: June 2020	100%
<b>3 – Assessment of Vehicle &amp; Freight Efficiency Technologies</b>	Preliminary evaluation of strategies and technologies	Month 8: September 2020	100%
<b>4 – Development of Pilot Study Concept</b>	Draft Pilot Study Concept	Month 19: August 31 <sup>st</sup> , 2021	95%
<b>5 – Small Scale Pilot Demonstration and Data Collection</b>	Results from small-scale data collection	Month 24: November 30, 2021	40%
<b>6 – Data Analysis</b>	Results from data analysis	Month 25: February 28, 2022	10%
<b>7 – Updates to Pilot Study Concept</b>	Updates to Pilot Concept from Task 4	Month 26: March 31, 2022	-
<b>8 – Reporting</b>	Included in the Final Report	Month 27: April 15-30, 2022	50%

## Project Progress Report:

### 1. Summary of Project Status:

- Is the project on time with the schedule?

☐ YES

☒ NO

Estimated percent of work completed: 55 %

The team has requested a no cost extension until April 30<sup>th</sup>, 2022. As with most efforts, the simple response is that the delay was due to the response to COVID. The longer response would be how COVID impacted the project. The main two areas were (a) as a teaching professor, the Principal Investigator and the students assigned to the project research had their schedules impacted as they navigated the need to shelter-in-place, establish communications, and adjust to new technologies; and, (b) finding fleets using alternative fuel technologies has been challenging. The additional time will allow the team to finalize the data collection task (and subsequent tasks dependent on the data collected), which has been the most challenging, especially because of (b) above, as there has also been delays in the timelines of vehicle and technology market readiness from the originally planned when the project was developed in 2019.

This report will outline the planned activities for the next period and a plan for the project. The research team is confident that the project will progress as expected under the new schedule.

- Is the project on budget?

☒ YES

☐ NO

Estimated percent of budget expended: 70 %

During this fourth quarter of the project, the team did not spend funds from this project. The team leveraged other existing funding to continue to support the students. This is because the majority of the remaining funds are reserved for the data collection effort.

- Is the project on scope?

☒ YES

☐ NO

If the answer to any of the above is NO, please explain below:

The team has been able to conduct the tasks as scheduled; however, there are concerns about the small pilot due to the unavailability of new vehicle technologies to participate. The team will communicate with the Sponsors to evaluate the scope of the remaining tasks.

### 2. Brief narrative account of project tasks completed or partially completed since the last progress report:

**Task 2: Review of Freight Patterns in the San Joaquin Valley (*completed*)**

**Task 3: Assessment of Vehicle & Freight Efficiency Technologies (*completed*)**

**Task 4 – Development of Pilot Study Concept (*in progress*)**

During this period, the team continued to revise and improve the draft concept, leveraging information gathered through other ongoing projects and partnerships.

**Tasks 5-7 (*in progress*)**

For Task 5, the team continued to refine the design of the small data collection effort. Using secondary data, the team analyzed existing corridor conditions to identify alternatives to conduct the data collection considering the potential vehicle technology limitations of pre-market vehicle options. This work is specific to Task 5.1. This is with respect to the locations of the data collection. Specifically, initially, the team considered the rest stops at Wesley and Buttonwillow as the end points of the 1-day data collection. However, the team is also considering Firebaugh and Huron rest stops as potential replacements for Wesley. The team will discuss with Caltrans and other partners for the suitability of these locations. In addition to providing a shorter distance between locations, the team is also considering the availability of other services at or near these locations. Moreover, a preliminary analysis of the data, indicate that there is reduced variability in travel conditions therefore, the data could be collected for shorter distances.

Additionally, the team has continued conversations with OEMs, and private operators to identify, which types of vehicles technologies that are currently in pilot phases could be suitable for the data collection as part of this project. One OEM already indicated that their demonstration vehicles would not be available for data collection, but the team continues conversations to have the vehicles displayed during the showcase event.

During the review period, the team also engaged with potential partners for the data collection including Cox Petroleum Transport, B&N Trucking, Convoy Solutions LLC, and WattEV Inc.

Cox Petroleum agreed to participate in the data collection event, and during the next period, the team will be coordinating with the company for the number of trucks involved. Additionally, Cox Petroleum will provide access to their telematics data, and shared a sample dataset for analyses.

B&N Trucking (and Dynamic Renewable Solutions) will be a key partner and stakeholder during the data collection.

**Task 8: Reporting (*in progress*)**

During the review period, the team continued to work on the report describing the proposed pilot study concept. Additionally, the team conducted a number of engagement activities:

Thursday, June 3rd. Progress report presentation at the San Joaquin Valley Regional Planning Agencies' Directors' Committee.

Friday, June 18th: The team conducted a with the funding partners CARB, Caltrans, and the San Joaquin Valley Air Pollution Control District. It was agreed that the data collection would take place in September 2021. Also, if additional funds are needed for the data collection, those could be raised through sponsorships of the Showcase Event.

June 22nd: The PI met with Linda Urata and Jerrad Johnson of Dynamic Solutions and B&N Trucking to begin planning a Showcase Event. Identified possible speaker topics, vendors, trucks. Date set: November 10 or 17, 2021. 9am networking, visit trucks and vendors. 10am to Noon presentations. Potential location: SoCal Gas.

**3. Brief discussion of problems encountered during the reporting period and how they were or are proposed to be resolved:**

During the reported period, the team progressed as expected. The main challenges remain to engage with additional fleets and have more vehicles participate.

**4. A brief discussion of work planned, by project task, before the next progress report:**

During the next quarter, the team will work on:

**Tasks 4: Development of Pilot Study Concept**

- Finalize and submit the draft pilot study concept. Update the concept based on the observations and comments received from sponsor agencies.

**Task 5: Small Scale Pilot Demonstration and Data Collection**

- The team will concentrate on the planning and conducting the data collection and demonstration. The data collection will have two components:
  1. Collecting data from regular operations in the SJV. The team will either use data already being collected by the fleets or instrument a sample of vehicles. Cox Petroleum already provided a sample data, and the team has been analyzing the data to determine the need for instrumenting the vehicles to gather other data channels. The team will be working with B&N Transport to instrument the vehicles, and with other potential participants through the help of Convoy Solutions. As mentioned before, the team continues to try to find additional fleets to participate and will continue working towards this goal. Overall, the data will be gathered/collected from the fleet's regular operations and post-processed. The team will analyze fuel/energy consumption, and trip and network characteristics. For the network, the team will concentrate on major corridors in the SJV on which the vehicles travel.
  2. Data collection event on I-5. This event will be conducted in September, 2021. The team will coordinate with various stakeholders for the event. Specifically, the team



will coordinate with Kern COG and Caltrans for the process of using the rest areas as transfer locations of cargo during the corridor data movement. The team expects to have 5-6 vehicles traveling between Buttonwillow station and the rest areas previously discussed. The vehicles will travel with empty and full loads. During the next few weeks, the team will coordinate with the agencies and the fleets to identify the best date for the event considering weather, and fleet commitments.

The actions to undertake will be to:

- i) Coordinate with the fleets to determine the number of participating vehicles;
  - ii) Define the two locations to serve as relay/transfer points;
  - iii) Coordinate with the agencies to conduct the event;
  - iv) Define the date for the data collection over I5;
  - v) Instrument vehicles
  - vi) Conduct field visit at locations
  - vii) Data collection
- **Showcase Event:** This event will be in November, 2021. Ms. Linda Urata is helping the team to find a suitable location to conduct the event. It is anticipated that the event will be on November 17<sup>th</sup>, at SoCal Gas facilities. Jerrad Johnson from B&N is also helping the team to setup the event. As mentioned, the event is planned for a 2-hour period consisting of presentations, networking, and information dissemination. Mr. Johnson will be helping identify vendors, and other event participants. The team will be coordinating with partner agencies to identify potential speakers on the topics of vehicle transitions, purchase incentives, and other relevant regulations.

The actions to undertake will be to:

- i) Define location and date;
  - ii) Event logistics (vendors, presenters, etc.);
  - iii) Advertisement and potential fund raising (sponsorships);
  - iv) Procurement of materials for event;
  - v) Event
- **Update and finalize Task 5.1.** Specifically, the team will define the requirements for the data collection, including the data collection method, sampling technique, location, and technologies.

## **Task 6: Data Analysis**

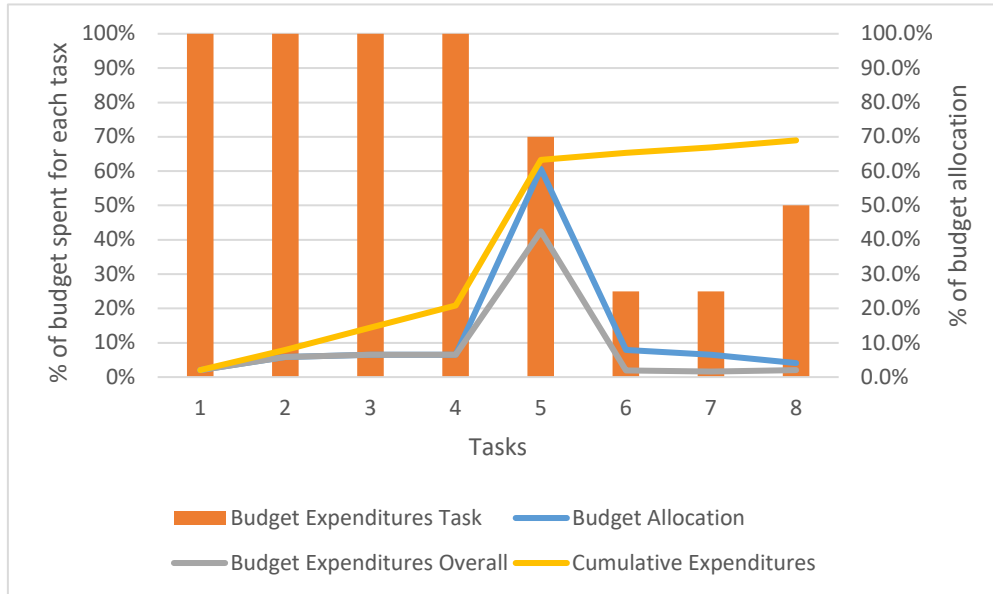
- The team will analyze the data collected (or provided by the fleets) to characterize trips, vehicle operations, and network characteristics. The team will use the data to update the preliminary technology assessment analyses.



## Task 8: Reporting

- i) Finalize the progress report discussing the results of Tasks 4 and submit in the third quarter of 2021.

### 5. A graph or table showing allocation of the budget and amount used to date:



### 6. A graph or table showing percent of work completion for each task:

