

QUARTERLY PROGRESS REPORT

Fiscal Year 2015/2016 , Quarter 2nd

Caltrans Task Manager: Frank Law Task ID/Project ID (for Caltrans use only):

Task Order No.: TO 003

Contract No.: 65A0529

1. Task Title: From Trend Spotting to Trend Setting: Modeling the Impact of Major Technological and Infrastructural Changes on Travel Demand
2. Describe last quarter's tasks/deliverables:

61- Finalizing model application for technology diffusion project

Forecasting adoption into the future for several hypothetical scenarios to try and understand the effect of having stations versus on-street parking in new zipcodes. Also, we were interested in using the model to understand the potential effectiveness of new pods placed in different locations. Results portray aggregate adoptions of the one-way carsharing system for the next 10 months for the various policies/strategies.

2- Assessing dynamic discrete choice model

We have estimated several HMMs by varying the number of modality styles. We ended up identifying four classes (modality styles) found in our sample that best describe the data. The four modality styles are: multimodal users with drivers comprising the bulk, transit users, bus-metro users and auto-metro users. Each of the modality styles vary in their choice set consideration and sensitivity to level-of-service attributes (travel time, travel cost, et). The model could be used to forecast mode shares for the various modes of transport into the future to cater for changes in socio-demographics or in the transportation system.

3. Describe next quarter's tasks/deliverables and their due dates:

We are finalizing two technical papers based on the two aspects described above. We are also working with Co-PI Prof David Zilberman to develop a more theoretical foundation for understanding the future of automobile ownership and use.

Need to work with Frank Law (Caltrans Task Manager) to determine tech transfer deliverable.

4. Describe Project Status:

- Are you on time with your schedule?

YES

NO

- Are you on budget?

YES

NO



- Are you on scope?
 - YES
 - NO

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

5. Estimated percent of work completed: 90%
 Estimated percent of budget expended: 90%

6. What are your expenditure projections for the next four quarters or until the project's end?

| FY 15/16; Q1 | FY 15/16; Q2 | FY 15/16; Q3 | FY 15/16; Q4 |
|--------------|--------------|--------------|--------------|
| \$ | \$ | \$ 4600 | \$ 14,260 |



Use this area for any additional information. Clearly
this information applies to.

identify which Section

Submitted By: Joan Walker
Date: 2/12/2016

A handwritten signature in black ink that reads "Joan Walker".