QUARTERLY PROGRESS REPORT
Fiscal Year 2014/15, Quarter ___4_____

Caltrans Task Manager: Jerry.Kwong@dot.ca.gov  Task ID/Project ID (for Caltrans use only):

Task Order No.:  TO 027  Contract No.: 65A0529

1. Task Title:
   What can a bike lane do? Performance metrics for proposed bicycle infrastructure

2. Describe last quarter’s tasks/deliverables:
   Task 1 (Literature review) – The main task for this quarter has been the literature review, which is 95% complete. We are in the process of finalizing our draft of the review, to be submitted to Caltrans within the next week. Topics covered include existing performance measures for bicycle infrastructure, existing methods of estimating link-level bicycle volumes, bicycle safety performance functions, previous attempts at including Bicycle Environment Factors in mode choice models, and statistical methods for accounting for class imbalance.
   Task 2 (Modeling approach): Work to date on the modeling approach has focused on methods of overcoming biased parameter estimates due to “class imbalance” in the mode choice model, which refers to the relatively small proportion of the sample (and population) who bicycle, compared with driving. We have also been exploring methods of connecting the travel demand model to counts along links (10% completed).
   Task 3 (Case Study): We will be developing a case study of our proposed modeling approach for the City of San Francisco. We have processing data for this task, including acquiring automated and manual bicycle count data, crash data, and travel diary data and converting it into a usable format. (10% completed)
   Task 4 (Final report): 0% completed

3. Describe next quarter’s tasks/deliverables and their due dates:
   Task 1: The literature review draft is nearly complete and will be submitted within the next week.
   Task 2: The majority of our work in the next quarter will be on task 2, developing the modeling approach. In particular, we will be focusing on how to establish the connection between the travel demand model and the link-level exposure model. A memo describing the modeling approach will be due in mid-March, 2016.
   Task 3: Simultaneous with developing the mathematical model framework, we will continue preparing our datasets for application of the model in San Francisco. A model describing the case study will be due in mid-April, 2016.
   Task 4: The final report will not be started in the next quarter. It will be submitted at the end of May, 2016.

4. Describe Project Status:
   • Are you on time with your schedule?
     _x_  YES
     ___  NO

   • Are you on budget?
     _x_  YES
     ___  NO

   • Are you on scope?
     _x_  YES
     ___  NO

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

5. Estimated percent of work completed: 25 %
   Estimated percent of budget expended: 17 %
6. What are your expenditure projections for the next four (4) quarters?

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<td>$55,910</td>
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Use this area for additional information. Clearly identify which Section this information applies to.

Submitted By: Joan Walker & Offer Grembek          Date: __15 July, 2015______