

QUARTERLY PROGRESS REPORT

Fiscal Year 2015/2016 , Quarter 3rd

Caltrans Task Manager: Harold Hunt Task ID/Project ID (for Caltrans use only):

Task Order No.: TO 19

Contract No.: 65A0529

1. Task Title: Potential Greenhouse Gas Emission Reductions from Optimizing Urban Transit Networks
2. Describe last quarter's tasks/deliverables:

The fourth quarter of our project runs from January 1 to March 31, 2016, which corresponds to the 3rd quarter of the 2015-16 fiscal year.

We finished Task 3 (Case Study) and submitted a paper to a technical journal describing the results of our research in Task 3. The current societal costs and GHG emissions of the Muni system were compared with the Pareto frontier obtained from network optimization. We found that reductions in societal costs and GHG emissions can be achieved simultaneously by bringing the system from the current state to the cost-optimal state. And this can be accomplished by reducing the spatial availability while increasing the temporal availability of the current bus service.

This paper is the deliverable due at the end of this quarter.

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

Finish the final project report, which is due at mid May.

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: 100%
 Estimated percent of budget expended: 95%

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 16/17; Q4
\$	\$	\$	\$



Use this area for any additional information. Clearly identify which Section this information applies to.

Submitted By: Samer Michel Madanat

Date: April 13, 2016