

QUARTERLY PROGRESS REPORT

Fiscal Year 2014/2015 , Quarter 4th

Caltrans Task Manager: Bradley Mizuno Task ID/Project ID (for Caltrans use only):

Task Order No.: 006 Contract No.: 65A0529

1. Task Title: Automated Assessment of Safety-Critical Dynamics in Multi-Modal Transportation Systems

2. Describe last quarter's tasks/deliverables:

Task 1:

--Conducted a literature review of several multi-modal safety studies of signalized intersections

Task 2:

--Developing definitions for the relevant mode-specific behaviors to be studied in the project

Task 4:

--Analyzing historical data obtained from Sensys, and collected 2 hours of video and sensor data to establish ground truth

Task 5:

--Developed an intuitive interface to visualize the sensor activation at the intersection

--Calibrating the video analysis software (Traffic Intelligence) using the video data obtained for the intersection

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

Task 4:

--Collect more sensor and video data to supplement the development of analysis techniques.

Task 5:

--Use the sensors in the vehicular lanes to infer automobile counts.

--Develop algorithms to classify events on the crosswalk as events triggered by automobiles, pedestrians and/or cyclists.

--Validated the results of the classification algorithm using the ground truth obtained from the videos.

--Suitably modify the video analysis software to infer trajectories of the different modes.

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: 20%
 Estimated percent of budget expended: 6%

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
\$ 31,000	\$ 31,000	\$ 31,532	\$ 0

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

Submitted By: Offer Grembek

Date: 08/03/2015