

## QUARTERLY PROGRESS REPORT

Fiscal Year 2015/2016 , Quarter 1st

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 5:

- i. Development of algorithms to differentiate between automobiles and non-motorized modes.
- ii. Validating and refining the results of the algorithms using ground truth from the intersection.
- iii. Calibrating the computer vision software, Traffic Intelligence, to make it functional for the given intersection.
- iv. Developing algorithms to estimate automobile counts for various turning movements.

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

Task 4:

- i. Collect more video and sensor data to test the algorithm developed for the study.
- ii. Manually label the sensor events on the crosswalk to differentiate between different modes.

Task 5:

- i. Analyse the sensor data to infer yielding/non-yielding patterns of right turn movements
- ii. Compare the performance of the classification and automobile count algorithms with the ground truth as obtained from the video.
- iii. Modify the Traffic Intelligence algorithm to improve the efficiency of detecting non-motorized 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:         40%  
        Estimated percent of budget expended:        44%
  
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; Q2	FY 15/16; Q3
\$ -	\$ -	\$ 27981	\$ 27981

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

Submitted By: Offer Grembek



Date: 11/16/15