

QUARTERLY PROGRESS REPORT

Fiscal Year 2015/2016 , Quarter 2nd

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 4:

- i. Collected video data and developed an interface to manually label events on the crosswalk for ground truth.
- ii. Acquired additional sensor data to test and improve the classification algorithms

Task 5:

- i. Developed models to identify events associated with drivers yielding/non-yielding to non-motorized modes.
- ii. Identified factors that are associated with the yielding behavior.
- ii. Improved the efficiency of the mode classification algorithms

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

Task 4:

- i. Collect a large sample of video and sensor data for the intersection to test the final set of algorithms.

Task 5:

- i. Complete the calibrations of algorithms associated with mode-specific and multi-modal safety-critical behavior
- ii. Compare the performance of the classification and automobile count algorithms with the ground truth as obtained from the video.
- iii. Extract the trajectories from Traffic Intelligence algorithm and compute surrogate measures.

Task 6:

- i. Develop the final report and identify opportunities for tech transfer

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: 75%
 Estimated percent of budget expended: 75%

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
\$ -	\$ -	\$ -	\$ 24,512



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

Submitted By: Offer Grembek

Date: 01/29/16