

**NEW ENGLAND TRANSPORTATION CONSORTIUM  
QUARTERLY PROJECT PROGRESS REPORT – JUNE 2018**

**A. PROJECT NUMBER AND TITLE: NETC 15-2:** *“Using the new SHRP2 Naturalistic Driving Study Safety Databases to Examine Safety Concerns for Teens and Older Drivers”*

**B. PRINCIPAL INVESTIGATOR(S) & UNIVERSITY(S):**

**Principal Investigator (PI):** Michael Knodler, Ph.D., University of Massachusetts Amherst  
**Co-Investigator:** Song Gao, Ph.D., University of Massachusetts Amherst

**C. WEB SITE ADDRESS (If one exists):** *http://www.ecs.umass.edu/hpl/*

**D. START DATE (Per NETC Agreement):** 01/01/2017

**E. END DATE (Per NETC Agreement):** 12/31/2018

**F. ANTICIPATED COMPLETION DATE:** 12/31/2018

*If different from the END DATE in paragraph E., the reason must be given. It is the responsibility of the Principal Investigator to ensure that the project, including review of the draft report by the Project Technical Committee and the printing of the Final Report, is completed prior to the Agreement End Date. Costs incurred after the Agreement End Date cannot be reimbursed. Requests for extensions of the Agreement End Date must contain the reasons for the request and be submitted so as to arrive in the Coordinator’s office at least 90 days prior to the Agreement End Date.*

**G. PROJECT OBJECTIVES:**

To examine SHRP2 NDS and identify primary concerns with older driver safety as older drivers navigate left turns at permissive and protected signalized intersections.

**H. REPORT PERIOD:**

April 1st to June 30th, 2018

**I. ACCOMPLISHMENTS THIS PERIOD:**

- Conference call meetings were held on April 17th and May 25th with the project’s Technical Advisory Committee to discuss project progress and preliminary results and get feedback from committee members. We prepared and shared Powerpoint presentations for these meetings.
- We completed the initial scoring of all videos that we received from VTTI.
- We continued to meet as a research team develop strategies and computer models for analyzing the VTTI data.
- We created preliminary models for analyzing (a) the differences between younger (ages 30-49) and older (age 65+) drivers’ driving behavior at intersections, and (b) the differences between older drivers who crash and those who don’t.
- We followed up with VTTI to request additional footage from left turn videos that, in what UMass initially received, were cut off before the end of the left turn (We have not yet received these updated videos).
- We worked with VTTI to amend our data use license to give us access to a SHRP2 Dataverse dataset on crashes intersections.

**J. PROBLEMS ENCOUNTERED (If any):** *If the project is behind schedule, a detailed description of why must be included in this quarterly report.*

Receiving additional videos from VTTI has taken longer than anticipated. However, our progress in analyzing the data is still continuing at a good pace.

**K. TECHNOLOGY TRANSFER ACTIVITIES:** *List any reports, papers, presentations published/presented during the report period or anticipated for the next quarter.*

None yet.

**L. STATUS BY TASK:** *Show Work Task Number, description and % complete for each task including those completed, those underway, and those not started.*

- Task 1 complete
- Task 2, 35% complete

**M. PERCENT COMPLETION OF TOTAL PROJECT:**

Approximately 40% of the total project has been completed.

**N. ACTIVITIES PLANNED FOR NEXT QUARTER:**

The following activities are planned for the next quarter:

- One to two meetings will be scheduled with the Technical Advisory Committee.
- Completion of video scoring of the SHRP2 data from VTTI.
- Continued analysis and modeling of the SHRP2 data from VTTI, including non-linear models and models incorporating more driver demographics and the results of the pre-study questionnaires.
- A visit to a secure data enclave to view additional video footage of the left turn events is being considered.
- Preparation of the draft report on the results of the data analysis.

**O. FINANCIAL STATUS:**

*As of: June 30, 2018*

**Total Project Budget: \$150,000**

**Total Expenditures to date: \$138,106**

**Note: This report should not require more than 2-3 pages & should be e-mailed to the NETC Coordinator so as to arrive no later than fifteen (15) working days after the end of each calendar quarter.**