

**NEW ENGLAND TRANSPORTATION CONSORTIUM  
QUARTERLY PROJECT PROGRESS REPORT - OCTOBER 2017**

**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:** Siby Samuel Ph.D., University of Massachusetts Amherst

**Co-Investigators:** Michael Knodler Ph.D., & 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 when navigating left turns at permissive and protected signalized intersections.

**H. REPORT PERIOD:**

July 1<sup>st</sup> to September 30<sup>th</sup>, 2017

**I. ACCOMPLISHMENTS THIS PERIOD:**

- Held Meetings with the Technical Committee (August 17, 2017).
- The acquisition of the RID data is complete now and we have the complete data set from the Roadway Information Database. We received the data set two weeks ago and it is inclusive of the latest version update (RID v2.0).
- We have completed the Institutional Review Board approval necessary for obtaining SHRP2 data from VTTI.
- We have completed a signed agreement with Miguel Perez at VTTI that gives VTTI until the end of October to provide us the data given that the Data User License is finalized and IRB approval is obtained.
- We have finalized the Purchase order with VTTI for the SHRP2 data.
- We are in the final stages of completing the Data User License (DUL) defining data security and management plans with VTTI for the SHRP2 data.

- As a part of the new data release of additional coded events in the SHRP2 database, we were able to obtain several more baseline, crash and near crash events to provide us better strength in our analysis.
- We have defined hypotheses pertaining to what we would initially test. And we will likely define several additional hypotheses to test as well.

Overall, we are making good progress on this project. While we are waiting on the delivery of the SHRP2 data, we will continue to chart out analysis strategies and identify any critical challenges in the meantime.

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

No significant problems.

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

**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 (25 percent complete)

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

Approximately 20 % of Phase 1 may be deemed complete.

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

The following activities are planned for the next quarter: -

- Two additional meetings for next quarter will be scheduled.
- Acquire requested data from the SHRP2 database
- Conduct additional data mining and data reduction to the acquired data
- Perform initial data analyses on the naturalistic study data to address study objectives in Task 2.

**O. FINANCIAL STATUS:**

*As of: September 30th, 2017*

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

**Total Expenditures: \$ 50,000**

The award was set up in the University of Massachusetts Amherst accounting system towards the end of March 2017. Expenses have been invoiced towards 2 graduate students working on the project, PI Samuel and key investigator and research fellow, Tracy Zafian.

**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.**