

NHDOT SPR2 PROGRAM

RESEARCH PROGRESS REPORT

Project # 26962R	Report Period Year Q1 (Jan-Mar) <input checked="" type="checkbox"/> Q2 (Apr-Jun) Q3 (Jul-Sep) Q4 (Oct-Dec)		
Project Title: Active Transportation Accounting: A three-pronged approach to developing metrics for project prioritization, monitoring, safety assessment, and evaluation			
Project Investigator: Amy Villamagna Phone: 603-535-2217		E-mail: amvillamagna@plymouth.edu	
Project Start Date: October 26, 2016	Project End Date: June 30, 2019	Project schedule status: <input checked="" type="checkbox"/> On schedule <input type="checkbox"/> Ahead of schedule <input type="checkbox"/> Behind schedule	

Brief Project Description:

This project will leverage *a*) existing datasets (participatory mapping of facility activity through the Strava App), *b*) statewide on-the-ground bike-ped monitoring initiatives (conducted in partnership with the 9 regional planning commissions in NH) (Tufts et al. 2015), *c*) efforts to develop and apply a Level of Traffic Stress (LTS) model for bicycling (MTI Report II-19), and incorporate novel public participatory GIS approaches to assess patterns of current bicycle activity and identify potential barriers to access and participation.

Progress this Quarter (include meetings, installations, equipment purchases, significant progress, etc.):

- Continued LTS model tool revision based on feedback from RAC partners
- LTS model tool user guide has been revised based on feedback from meeting
- Revised ArcGIS Online webmap application to reflect changes in the LTS models. The goal is to share it with as many people across the state as possible.
<https://plymouthstate.maps.arcgis.com/apps/webappviewer/index.html?id=633223a8e5b348f09da3873d3c26f62f>
- Completed Arc toolset for analyzing Strava data.

Items needed from NHDOT (i.e., Concurrence, Sub-contract, Assignments, Samples, Testing, etc...):

NA

Anticipated research next 3 months:

- Gather (April –July) and analyze (Sept-Oct) LTS model feedback from web application
- Final report and presentation to NH DOT RAC by Dec 2018

Circumstances affecting project: Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and budget, along with recommended solutions to those problems.

We have paused the project until the fall to provide time for data to be collected using the webmap application. The CPA Amendment was approved by G&C on April 11, 2018.

Tasks (from Work Plan)	Planned % Complete	Actual % Complete
<ul style="list-style-type: none"> • Analyze web application feedback* 	0%	0%

* These tasks were not on the original task list for this project, but the RAC deemed it a valuable next step. We have been awarded a no-cost extension to enable us to complete these tasks before submitting final report.