

Bi-Monthly Progress Report:

Project Number and Title: 4-7, Integrated Green Infrastructure and Sustainable Transportation Planning

Research Area: Thrust Area 4

PI: *Christopher Hunter, University of Rhode Island*

Co-PI(s): *Farhad Atash, University of Rhode Island*

Reporting Period: *4/1/19 – 5/31/19*

Date: *5/31/2019*

Overview:

Provide overview and summary of activities performed during previous two months....

- Conducted a review of literature focusing on enacted legislations promoting green infrastructure in transportation sector.
- Initiated research into green infrastructure process.
- Initiated research of life expectancies of highway assets
- Initiated review of asset management software

Provide context as to how these activities are helping achieve the overarching goal of the project...

- The review of literature provides the background to accomplish the second objective of the research project that summarizes enacted legislations promoting green infrastructure in transportation sector and their potential impacts.
- Research into green infrastructure process provides the background to accomplish the third objective of the research project that defines the green infrastructure approach: Plan; Design; Build; Operations & Management; and Funding.
- Initiation of the life expectancies of highway assets and asset management software help in the Identification of specific set of infrastructure parameters to use for performance analysis and identify a modeling approach or apply asset management software to GI strategies of scenarios

Describe any accomplishments achieved under the project goals...

- NA

Describe any opportunities for training/professional development that have been provided...

- NA

Describe any activities involving the dissemination of research results (be sure to include workshops, seminars, and conferences attended/held for dissemination of information regarding this project)...

- NA

Encouraged to add figures that may be useful (especially for semi-annual reporting by the project manager and management team)...

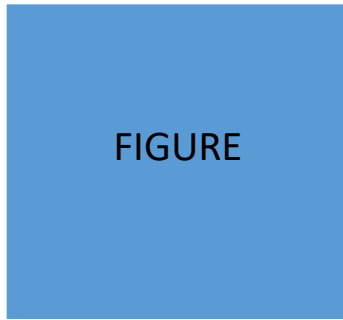


Figure 1: *Figure Title*

Participants and Collaborators:

What organizations have been involved as partners on this project?

Have other collaborators or contacts been involved? If so, who and how?

Paul Petsching, Chief Civil Engineering, (P.E.), Rhode Island Dept. of Transportation

What students have participated in the project? (Include class standing, major, role in the research)

None yet, but we hope to bring a student on board soon, with the final approval of the year one project officially.

Changes:

We did have to revise our proposal, so there is a small change, and we're hoping to finalize that and move forward with the tasks stated.

Planned Activities:

Description of future activities over the coming months.

- Define green infrastructure approach: Plan; Design; Build; Operations & Management; and Funding.
- Explain the importance of green infrastructure for climate resiliency.
- Researching existing models that deal with life expectancy and making determinations of parameters that are important with respect to resiliency and infrastructure performance; looking into infrastructure management software that may be applicable with adjustments to account for Green Infrastructure potential impacts.