## Semi-Annual 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:** *10/1/2018-2/28/2019* **Date:** *3/31/2019* 

#### **Overview:**

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

- Conducted a comprehensive review of literature focusing on the topic of green infrastructure: definition, types, approach and importance for climate resiliency.
- Initiated research into the use of the asset management system of the Rhode Island Department of Transportation

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 first objective of the research project that determines the potential impact of green infrastructure on the transportation planning process. Integrated green infrastructure and transportation planning provides a more effective context for resiliency for transportation infrastructure.
- The initiation of the asset management system allowed the researchers to begin considering the parameters for impact and the types of data needed for input in such a system

Describe any accomplishments achieved under the project goals...

• A literature review was accomplished.

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 outputs, outcomes, and the ways in which the outcomes/outputs have had an impact during the reporting period)...

NA

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

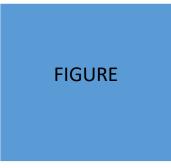


Figure 1: Figure Title

A figure is accompanying this portion at the end of the document.

#### **Participants and Collaborators:**

List all individuals who have worked on the project.

• Farhad Atash and Christopher Hunter

List all students who have participated in the project. (Include class standing, major, role in the research)

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• No students at this point

What organizations have been involved as partners on this project?

• Rhode Island Department of Transportation

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

#### Changes:

Discuss any actual or anticipated problems or delays and actions or plans to resolve them...

We have been asked to revise our initial proposal, and we haven't resubmitted that to determine how we wanted to finalize it. We will continue with the stated tasks and modify if needed.

Discuss and changes in approach and the reasons for the change...

#### **Planned Activities:**

Description of future activities over the coming months.

- Review enacted legislations promoting green infrastructure in transportation sector.
- Define green infrastructure approach: Plan; Design; Build; Operations & Management; and Funding.
- Identify specific set of infrastructure parameters to use for performance analysis





Climate change is impacting urban areas in many ways, from exacerbating the urban heat island effect to elevating flood risk. Build green infrastructure to help improve community resilience.



For more information on green infrastructure, see: www.epa.gov/greeninfrastructure

al Protection

inelibrary.wiley.com/doi/10.1111/jfr3.12043/pd

media/2010/100720.asp .globalchange.gev/report ). Global Climate Change Impacts in the United St Isbillo, and T.C. Paterson (eds.). United States Global Isbillo, and T.C. Paterson (eds.). United States Global  www.nrdc.org/water/pollution/files/GreenRoofsReport.pdf
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Knuton, P.J., R.B., Rhch, W.N.Seetig, and M. Inskeep. 1982. Wave Damping in Spartina alterniflora Marshes. Wetlands. 2:87-104.
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