

Evaluating Performance and Benefits-Costs of Road Diets In Tennessee

Purpose of the Project

The purpose of this project is to identify best practices and innovative approaches to assess and deliver roadway reconfiguration projects (road diets and complete streets) that meet multiple objectives in urban and rural areas. The project will inventory road-diet examples in Tennessee, evaluate impacts of significant case studies, and present best practices for implementing them in different contexts.

Scope and Significance

The scope of the research project includes:

- Conducting and inventory of large scale and representative road diets in Tennessee cities and rural areas and present a guide that highlights features of road diets in the state.
- Develop a Cost Benefit Analysis (CBA) framework of road diet projects
- Conduct in-depth case study evaluations of road diet projects in Knoxville, Tennessee
 Make recommendations for road diet implementation planning

Expected Outcomes

- The findings of the research will inform city planners and policy makers about the advantages and limitations of road diet projects should the cities consider them as a way to address street safety, operations, air quality, and livability.
- Methods presented here will be important to informed decision making.
- City planners, engineers, and policy makers will benefit from examining the case studies provided in this research by understanding the tradeoffs of road diet projects, and distinguishing what are the intended and unintended outcomes, what works and what does not for a particular road diet case study.
- Stakeholders will have a better understanding to decide if road diets are helpful for their cities, what type of road diets may work the best in a specific application, and what to avoid when planning and implementing road diets.

Time Period

The time period for the project is 12 months.

Contact Information

| | |
|--|--|
| <p>Principal Investigator (PI): Name: Chris Cherry Department: Civil and Environmental Engineering University: University of Tennessee Address: 851 Neyland Drive, Knoxville, TN 37996 Phone: 865-974-07710 Email: cherry@utk.edu</p> | <p>TDOT Lead Staff: Name: Jonathan Russell Division: Long Range Planning Division Phone: 615-532-3563 Email Jonathan.Russell@tn.gov</p> |
|--|--|