



RESEARCH NEED STATEMENT

Call for Projects 2015

Project Research Title: Freight Diversion

TDOT Sponsor Director: Tanisha Hall on behalf of Toks Omishakin

List TDOT Research Team Lead: Robert Rock

List TDOT Research Team Members: Carlos McCloud, Angela Midgett, Liza Joffrion

1. Define the problem or research requested. What is the goal/objective of the research?

Freight diversion is often talked about during DOT discussions, but rarely implemented. This research is requested to review State DOT investments in freight diversion.

2. Is this research a continuation of a past or present project?

No Yes

If yes, provide current research project title, RES # and reason for the project continuation.

3. Describe anticipated benefits/expected deliverables.

This research will allow TDOT to identify successful freight diversion best practices and see if they are applicable in Tennessee.

4. What is your timeline for completion of the research?

The project would have a 12 - 18 month duration.

5. List the anticipated tasks for this research.

1. Review TDOT's freight investments 2. Perform a best practices analysis of other Transportation agencies' freight diversion 3. Perform analysis of TDOT's network and our ability to divert freight. 4. Coordinate with TDOT staff to determine feasibility of other DOT programs within TDOT. 5. Develop Performance measures and ROI documentation. 6. Identify potential funding sources for recommended diversion projects. 7. Coordinate with TDOT leadership on findings. 7. Implement selected best practices.

6. Describe how the project results will be implemented?

The project will be developed with coordination between the Chief of The Environment and Planning Bureau, TDOT Long Range Planning Division, and Multimodal Division. Once viable options are analyzed showing

acceptable ROI and funding source identified, project will be coordinated with appropriate TDOT divisions and local partners to implement.

7. Will this study produce software, web page or other technology that will involve the Information Technology Division?

No Yes, please describe:

8. Will training be provided to employees as a result of this research?

No Yes, please describe:

Appropriate staff will be trained to review plans and projects for freight diversion.

9. Will this research involve equipment or materials purchase?

No Yes, please describe:

10. Research must support the Long Range Transportation Plan Policy Recommendations **and/or** TDOT Operational Goals and/or Strategic Initiative. (*See attachments for additional information*)

Please indicate which categories the research will support:

Transportation Long Range Plan Policy Recommendations

- (A) Accessibility
- (B) Safety, Security, and Transportation Resilience
- (C) Coordination, Cooperation, and Consultation
- (D) Demographic and Employment Changes and Trends
- (E) Freight Logistics and Planning

(F) Financial

(G) Mobility

(H) Travel Trends and System Performance

TDOT Operational Goals and/or Strategic Initiative

(A) Deliver transportation projects on schedule and within budget

(B) Maintain the state transportation system to protect the long term investment in our infrastructure assets

(C) Operate and manage Tennessee's transportation system to provide a high level of safety and service to our customers and workers

(D) Expanding mobility choices to maximize access

(E) Dramatically change the paradigm for delivery of transportation products and service to improve the efficiency and effectiveness of Tennessee's transportation network

11. Please explain how the research supports the Long Range Transportation Plan Policy Recommendations **and/or** TDOT Operational Goals and/or Strategic Initiative selected above:

This research supports the LRTP by looking at ways to reduce the number of trucks on the road.

For additional information, please contact:

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