

| <b>UTC Project Information</b>  |   |
|---|---|
| Project Title   | Assessing the Efficiency of Mass Transit Systems in the United States (Original Title: Developing Public-Private Partnerships for Improving Regional Mass Transit Services in the United States)  |
| University  | Bowling Green State University<br>Mineta National Transit Research Consortium   |
| Principal Investigator  | Hokey Min, Ph.D.  |
| PI Contact Information  | Department of Management<br>Bowling Green State University<br>Bowling Green, OH 43403<br>hmin@bgsu.edu<br>419-372-3442  |
| Funding Source(s) and Amounts Provided (by each agency or organization) | Research and Innovative Technology Administration<br>University Transportation Centers Program (\$58,245)<br><br>Bowling Green State University (\$58,245)  |
| Total Project Cost  | \$116,490   |
| Agency ID or Contract Number  | DTRT12-G-UTC21  |
| Start and End Dates   | December 2013 – December 2016   |
| Brief Description of Research Project                                   | Frustrated with increased parking problems, unstable gasoline prices, and stifling traffic congestion, a growing number of metropolitan city dwellers consider utilizing the mass transit system. Reflecting this sentiment, a ridership of the mass transit system across the United States has been on the rise for the past several years. A growing demand for the mass transit system, however, necessitates the expansion of service offerings, the improvement of basic infrastructure/routes, and the additional employment of mass transit workers, including drivers and maintenance crews. Such a need requires the optimal allocation of financial and human resources to the mass transit system in times of shrinking budgets and government downsizing. Thus, the public transit authority is faced with the dilemma of “doing more with less.” That is to say, the public transit authority needs to develop a “lean” strategy which can maximize transit services with the minimum expenses. To help the public transit authority develop such a lean strategy, this report identifies the best-in-class practices in the U.S. transit service sector and proposes transit policy guidelines that can best exploit lean principles built upon best-in-class practices. |

|  |  |
|--|--|
| <p>Describe Implementation of Research Outcomes (or why not implemented)</p> | <p>Min, Hokey. (2014). "Public-Private Partnerships for Improving the Regional Mass Transit System: A Case Study of the Toledo Area Regional Transit Authority." <i>International Journal of Logistics Systems and Management</i>, Vol. 17, No. 2, February 26, 2014.</p> <p>Min, Hokey. "Planning and Improving Urban Mass Transit Systems." Presentation at the 13<sup>th</sup> Annual Hawaii International Conference on Social Sciences, Honolulu, HI, May 28, 2014.</p> <p>Min, Hokey. "Public-Private Partnerships for Improving Mass Transit Systems in Ohio." Presentation at the Spring CPD Conference &amp; Annual Member Meeting, Toledo, OH, June 14, 2014.</p> <p>Min, Hokey. "The Impact of Urban Sprawl on Journey to Work Times for Mass Transit Commuters in the United States." Presentation at the Midwest Political Science Panel, Chicago, IL, April 19, 2015.</p> <p>Min, Hokey and Ahn, Young-hyo. "Dynamic Benchmarking of Mass Transit Systems in the United States using Data Envelopment Analysis and the Malmquist Productivity Index." <i>Journal of Business Logistics</i>, 38, no. 1 (2017): 55-73.</p> <p>Min, Hokey, Ahn, Youngho, and Lambert, Thomas (2015), "Benchmarking and Improving Mass Transit Systems in the United States based on Best-in Class Practices: Policy Implications." <i>International Journal of Logistics Management</i>, 38, no. 1 (2017): 172-193.</p> |
| <p>Place Any Photos Here</p>   |  |

|   |  |
|---|--|
| Impacts/Benefits of Implementation<br>(actual, not anticipated)                               |  |
| Web Links <ul style="list-style-type: none"><li>• Reports</li><li>• Project Website</li></ul> | Final report (MNTRC Website):<br><a href="http://transweb.sjsu.edu/project/1235.html">http://transweb.sjsu.edu/project/1235.html</a> |