

| UTC Project Information | |
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| Project Title | Improving Livability Using Green and Active Modes: A Traffic Stress Level Analysis of Transit, Bicycle, and Pedestrian Access and Mobility (Former Title: Sustainable and Green Access to Transit: Multimodal Service Area Modeling AND A Tool to Evaluate and Optimize Multimodal Transit Access) |
| University | San José State University Mineta National Transit Research Consortium |
| Principal Investigator | Maaza C. Mekuria, Ph.D. |
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| Funding Source(s) and Amounts Provided (by each agency or organization) | Research and Innovative Technology Administration University Transportation Centers Program (\$30,500) California Department of Transportation Office of Research—MS42 (\$30,500) |
| Total Project Cost | \$61,000 |
| Agency ID or Contract Number | DTRT12-G-UTC21 |
| Start and End Dates | August 2013 – December 2016 |
| Brief Description of Research Project | Understanding the relative attractiveness of alternatives to driving is vitally important toward lowering driving rates and, by extension, vehicle miles traveled (VMT), traffic congestion, greenhouse gas (GHG) emissions, etc. The relative effectiveness of automobile alternatives (i.e., buses, bicycling, and walking) depends on how well streets are designed to work for these respective modes in terms of safety, comfort and cost, which can sometimes pit their relative effectiveness against each other. In this report, the level of traffic stress (LTS) criteria previously developed by two of the authors was used to determine how the streets functioned for these auto alternative modes. The quality and extent of the transit service area was measured using a total travel time metric over the LTS network. The model developed in this study was applied to two transit routes in Oakland, California, and Denver, Colorado. |

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| Describe Implementation of Research Outcomes (or why not implemented) | |
| Place Any Photos Here | |
| Impacts/Benefits of Implementation (actual, not anticipated) | |
| Web Links <ul style="list-style-type: none">• Reports• Project Website | Final report (MNTRC Website): http://transweb.sjsu.edu/project/1205.html |