



MULTIFAMILY HOUSING LAND USE CODES: DISADVANTAGES AND LIMITATIONS

Many cities are reconsidering their reliance on ITE's Trip Generation Manual, now in its 10th edition. Kelly Clifton, TREC researcher and associate dean for research of Portland State University's Maseeh College of Engineering & Computer Science, is one of the people leading the charge to identify better, more nuanced ways to anticipate transportation demand; especially person (non-car) trips. In an extended series of TREC projects, Clifton and others have worked to create a more holistic approach to trip generation, particularly useful in urban areas with a greater mix of land uses.

In the latest report to come out of these efforts, Clifton and co-investigator Kristina Currans of the University of Arizona examine the advantages and limitations of ITE's land use taxonomy for multifamily residences. They find that the land use categories aiming to capture intensity of development for residential land uses (high-rise apartments, for example) do not appear to capture any more variation in the vehicle or person trip rates than can be achieved by measure of the built environment.

Using inflexible land use codes instead of built environment or socio-economic characteristics is an approach that has limited usefulness over time. Clifton and Currans demonstrate that such land use codes would best be replaced by actual information about the urban, demographic, and economic context; such as density, mixed use development, transit access and median incomes.

A more concerted effort to examine the usefulness of the various land use data will be critical as we head into the future. With the introduction of transportation network companies like Lyft and Uber, urban goods delivery, and automated vehicles, vehicle trips may not have the same qualities as previous passenger trips in automobiles.

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Cities are increasingly wanting to assess the impacts new developments have on all modes in the transportation system. This research will potentially help U.S. planners better assess transportation impacts of multifamily developments.

Multimodal Trip Generation, Vehicle Ownership and Use: Characterizing The Travel Patterns of Residents of Multifamily Housing (#2019-878)

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