There is a growing awareness that gender-sensitive transportation data collection, although challenging, cannot be ignored by urban mobility policy makers and planners. A review of the literature confirms that sociodemographics—a critical determinant of travel behavior by gender—have been studied inadequately (1–2).

For example, a study in Amman, Jordan, investigated travel-related decisions made by private car, bus, and taxi commuters. The results indicate that morning departure time decisions are influenced by the presence of young children only for commuters who use private cars. After work, bus and taxi commuters pursue household maintenance activities and do not pursue a chain of activities; private car commuters, on the other hand, are more likely to carry out a chain of activities after work (3).

This study would have been even more informative to policy if gender differences in travel behavior and trip patterns had been examined. The literature review does confirm, however, that the socioeconomic factors affect women’s mobility patterns across the globe.

In studies from 1988 and 2016, data show that women seek jobs closer to home because of family responsibilities and that they often choose cheaper transportation methods.
gap between men and women—leading to low employment rates, part-time jobs, and low wages—still is significant and affects women’s mobility patterns (4–5).

In 1988, Wachs indicated that women are involved in complex activities because they retain their family obligations as nurturers, shoppers, and homemakers, and most often seek jobs closer to home (6). Ng and Acker’s 2018 study in eight cities—Auckland, New Zealand; Dublin, Ireland; Hanoi, Vietnam; Helsinki, Finland; Jakarta, Indonesia; Kuala Lumpur, Malaysia; Lisbon, Portugal; and Manila, Philippines—also indicated that women still travel differently than men, using cheaper transportation alternatives and traveling shorter distances (2).

Research Gaps

A review of the current literature further shows 1) a scarcity of gender mobility data and statistics, 2) the need both to broaden the understanding that gender-friendly mobility services are beneficial and to develop flexible transportation alternatives, and 3) inadequate resources to study gender mobility and accessibility disparities around the world (7–9).

Transportation policies that affect both men and women require multiple data collection methods to ensure appropriate statistical analysis. Faulty methodology in data collection (e.g., incorrect sample size, sampling methods based on sociodemographic characteristics, bias in questions about travel patterns, or inadequate effort to supplement quantitative data with qualitative data) can lead to inadequate inferences about travel patterns and needs.

A 2004 study using 2001 U.S. National Household Travel Survey (NHTS) data compared the travel patterns of foreign-born adult women living in the United States with those of native-born women. The study showed that foreign-born women are less likely to drive and more likely to use public transportation than native-born women. The authors of the study admitted that the survey data were not enough to indicate why these differences exist, however (10).

The complexity of women’s travel activities make gender a key sociodemographic determinant of daily mobility, but most transportation policies assume that women and men keep the same travel patterns and have equal access to different transportation modes (2). Also, these policies overlook the socioeconomic differences in travel behavior by gender, thereby inadequately serving women’s travel needs.

For example, women’s use of public transportation can be affected by the physical and practical considerations relating to the structural design of bus stops (see photo at top of page). Also, vehicle design may not address women’s preferences or safety needs (see photo above).

Better Awareness for Better Data

At the 2019 TRB Annual Meeting, the Standing Committee on Women’s Issues in Transportation hosted a workshop, Bridge the Gap: Eliminating Gender Bias in Transportation Research. Cosponsored with
several other standing committees, the workshop examined the data and presenters concurred that transportation needs for non-work-related trips are underevaluated in conventional assessments that focus on work commutes (11). Speakers and attendees suggested that gender bias occurs because researchers’ stereotypes and prejudices about gender—for example, that women are caregivers rather than commuters—become implicit in the data collection methods.

For example, the photo at right depicts a woman traveling with a child strapped to her back. If researchers do not capture her traveling while caregiving, this type of mobility data would never get collected.

One possible reason why these data are not captured is that fewer women are involved in transportation decision-making, planning, and operations (5, 12). TRB standing committees and subcommittees plan to broaden and mobilize awareness to collect more comprehensive and useful data on women’s travel patterns and caregiving trip activities. Through these collaborative efforts, gender data ideally will become richer and more useful, reflecting the multiple mobility roles assumed by women so that future transportation infrastructure and policies can be responsive to their needs.

REFERENCES