ABSTRACT

This study analyzes the determinants of commuting mode choice in Jabodetabek, where motorcycles remain dominant despite extensive public transport investment. Using data from the 2023 Jabodetabek Commuter Survey, three binary logistic regression models were estimated: (1) public transport versus all private vehicles, (2) public transport versus motorcycle among motorcycle-only owners, and (3) public transport versus motorcycle among dual vehicle owners.

The results show that trip characteristics especially multimodality, along with perceived cost and practicality, are the most consistent predictors of public transport use. Socioeconomic factors such as gender, age, and marital status matter mainly when private vehicle access is limited, but their influence diminishes once commuters own both a motorcycle and a car. Public transport remains more attractive to cost-sensitive and older commuters, while those with greater autonomy prefer private modes for their speed and flexibility. These findings highlight the need for policies that improve intermodal integration, reliability, and convenience in order to make public transport a viable alternative to motorcycles and cars in Jabodetabek.

Keywords: Commuter Worker, Commuting Behavior, Binary Logistic Regression, Transportation Mode Choice, Public Transport.