

ABSTRACT

This research aims to examine the walkability level of Sudimara Station Area as a crucial component of Transit-Oriented Development (TOD). Sudimara Station plays a strategic role as a transit hub in South Tangerang; however, it faces significant mobility challenges. The primary issue lies in the lack of adequate pedestrian-supporting facilities, such as safe and comfortable walkways, and the absence of protective elements like shading to enhance pedestrian comfort. The study assesses walkability using TOD v.3 standards, focusing specifically on aspects that contribute to pedestrian accessibility and comfort. The findings reveal that the walkability level in the Sudimara Station Area is only 26.7%, achieving 4 points out of a possible 15. This score indicates that the area is far from meeting optimal standards for pedestrian-friendly mobility.

The low walkability level is attributed to several factors, including the absence of safe and comfortable pedestrian pathways, limited visual connectivity between walkways and the surrounding environment, and the lack of supportive facilities such as shading structures. These deficiencies not only reduce pedestrian comfort but also increase the community's reliance on private vehicles, hindering efforts to establish sustainable urban mobility. The study recommends improving pedestrian infrastructure in the Sudimara Station Area by providing safe walkways, protective elements like shading, and enhancing accessibility to the surrounding environment. These measures are expected to boost walkability and support the development of a more sustainable and pedestrian-friendly TOD-based area.

Keywords: *walkability, Transit-Oriented Development, Sudimara Station, transportation, mobility*