

ABSTRACT

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Study Program : Urban and Regional Planning

Title : The Effect of Land Use on Traffic Movements Around Jalan Gatot Subroto Kuningan Jakarta

The Traffic Department of the Transportation Service (2014) shows about the use of private vehicles every day is very high, causing traffic jams. Land is a place for various activities that can attract people to come. The highest number of passing vehicles and the highest density level are on the Inner Jakarta TOLL Road and 89.767.540 are vehicles that cross Cawang-Tomang TOLL Road. PT. Jasa Marga said the Kuningan TOLL exit point had very heavy traffic with a speed of only 20 Km/hour and caused long queues.

With these problems, this study aims to determine the effect of land use types on traffic movements around Jalan Gatot Subroto Kuningan Jakarta, namely around the exit of the Kuningan Toll Road. Using 5 stages of analysis, land use analysis, traffic movement analysis, road capacity analysis, generation pull analysis, and linear regression analysis

The result is the type of land use within a radius of 600 meters around Jalan Gatot Subroto is dominated by residential land use types with an area of 44.90 hectares and offices, trade and services with an area of 19.06 hectares. Traffic movement in the study area has the largest volume of vehicles on Jalan Gatot Subroto as much as 7,215 vehicle with a degree of saturation of 1.46 (F) and Jalan Captain Tendean of 3,447 vehicle with a degree of saturation of 1.04 (F). The largest vehicle generation pull occurred in the types of office land use, trade, and services of 7,448 vehicles and the type of government land use of 3,650 vehicles. Activities of the types of use in the form of government, office, trade, and services have a significant influence on traffic movement in the research area with predictions of the addition of generation attraction to traffic movement of 201 and 140 passenger cars, respectively.

Keyword : Land Use, Traffic Movements, Kuningan