DETERMINING KIND OF THE ACTIVITY IS BASED ON ROAD PERFORMANCE IN KETINTANG CORRIDOR SURABAYA

Name : Ersad Timah
ID Number : 3606 100 025
Departement : Perencanaan Wilayah dan Kota-ITS
Advisor : Ir. Sardjito, MT
Abstract

Ketintang road is an alternative that connect Achmad Yani area with Gunungsari, there are many activity which is expanding in road’s corridor, it is housing, offices, education, commerce, and service. Those activity gives impact to road performance. The activities along corridor of ketintang resulting mounting traffic volume in the road so it degradating intensity of road service, from the first calculate result, especially when peak hour road volume reaching 1578,5 smp/hour with road capacity 1494,08 smp/hour, resulting intensity of road service equal to 1,056 that means there is traffic trouble (stuck). So, it needed a way to solve it by determining the kind of activity based on performance of Ketintang Surabaya.

The method of this research is by identifying the used existing area by descriptive analysis, count the trip generation and the impact for road performance by quantitative descriptive analysis, measure the trip generation if happened area used change by quantitative descriptive analysis. Then, to determine kind of the activity is by simulation (choosing kind of the activity which has highest generation value), then degraded as according to capacities had in each segment.

Determining kind of the activity in Ketintang Surabaya corridor is based on condition of ideal road performance with $I$ equal to <0.8, it means change suggested activity type group, for example : printing office (fotocopy, print, photo), showroom (motor cycle showroom), financial institution (bank, pawn, cooperation), and service (tailor, doctor). Change of kind of activity group which prohibited are : restaurant (booth, fast food), shop (shop, haberdasherry, counter), park area (Royal’s outside park), office, and workshop.

Key words : kind of activity, road performance