

SUMMARY

Fajrin Ardiansyah, *Departement of Urban and Regional Planning, Faculty of Engginering, University of Brawijaya, July 2017, Performance Level of Road Network Services in Kecamatan Batu, Academic Supervisor: Aris Subagiyo and Nindya Sari*

Transportation problems are the main problems faced by developing countries such as Indonesia, the problem is both in urban and regional areas. Transportation system is one factor supporting the economy of a region, the more people who use private vehicles to perform activities such as work, travel, and others. Batu Town is a major tourist destination in East Java. The number of tourists who visit the city of Batu very much that cause congestion caused by the high movement with the purpose of travel.

In this study, the calculation of road performance level by comparing the volume of vehicles passing by the existing road capacity in the study area. After the road performance level in the next study area will be conducted recommendation of road network optimization in the study area by using do-something analysis of capacity management. The roads studied in this research are Patimura Road, Hasanudin Street, Dewi Sartika Street, Brantas Street, Oro-Oro Ombo Street, and Jalan Trunojoyo. Selection of roads that are used as a study area because the streets are the main road that will be passed by tourists to visit tourist attractions in Batu District.

The calculation result of service level of road network in District of Batu shows the performance of road in Kecamatan Batu on average have LOS C value on weekdays and LOS E D value up to F on holiday. After knowing the performance of roads in District Batu then do-do analysis to determine the appropriate recommendations to overcome the existing problems in the Batu District road network.

Keywords: road network, service level, capacity management