DESIGN OF SURABAYA’S ONLINE TRAFFIC INFORMATION SYSTEM

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Currently, transportation is a critical need, this is because people and goods had to get to the other place to get the value added they need. Congestion is a problem that arises when the transportation need can not be fulfilled because road capacities and road facilities are limited. Surabaya as one of the major cities in Indonesia is also have transportation problems because of its high transportation flow, either to the city or vice versa. Transportation problems causes great loss. Less accurate information of the road causes users and other parties related difficult to know the condition of the road. Therefore, we need a system that can inform the traffic density accurately and real time.

In this research, we calculate the value of traffic saturation degree (DS) and also the travel time (TT) that are required to pass the certain arterial road. And then we categorize the road density by derive it from the value of road saturation degree. The reason to categorize the degree of saturation is to make easy to the users to understand the value of road saturation degree. In the end, an Surabaya’s online traffic information system was created based on website, so that can be easily access by users.

Keyword : traffic information system, road density category