STUDY OF TRAIN’S TRIP MODEL OF JUANDA AIRPORT-GUBENG TRAIN STATION

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Abstract

Surabaya as the one of big cities in Indonesia, also has degree of traffic’s volume which is high in every year. It can be seen from its increase in population annually that can effect increase of traffic exists in Surabaya.

Juanda as the one of international airports has traffic flight frequency that high enough in every day. It means that we need an enough amount of transportation to carry away the passenger to avoid problem such as traffic jam. For a long time transportation that connects Gubeng Station and Juanda Airport only use personal car or public vehicle. This is not efficient to carry passenger that always increase. Because of that, this research is trying to use train mode with hope it can fulfill problem of increasing passenger enhance the quality of transportation in Surabaya.

Before knowing if there is passenger that will be exchange the mode, we do need the survey. The survey will be spread to passengers in Juanda Airport. It is 50 samples for each terminal (International and Domestic) except on Arrival International terminal that only 20 samples. From this research, we’ve got the result of characteristic of passengers that use private vehicle who want to exchange the mode for Domestic Departure is 40%, Domestic Arrival is 56%, International Departure is 58%, and International Arrival is 50%. While for passengers that use taxi there are 60%
passengers for Domestic Departure, 44% for Domestic Arrival, 42% for International Departure and 50% for International Arrived. For knowing assignment that will be occurred, it use furness methode. There is 184 trip generation and trip attraction will be occurred on 2013.

Keywords: Moda Angkutan KA Bandara, Trip Generation and Trip Production, Permodelan perjalanan, Juanda airport