

ABSTRACT

Evaluation and Implementation Advanced Traffic Control System (ATCS) in Overcoming Congestion in DKI Jakarta

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Congestion is one of the main problems that are currently occurring in Indonesia, especially the city of DKI Jakarta. All power and efforts have been made by the local government to reduce or minimize the occurrence of congestion, one of which is by using a state-of-the-art technology system, the Intelligent Transportation System (ITS). Intelligent Transportation System (ITS) is planned to be applied in dki Jakarta public transportation mode, namely buses. The difference between the existing bus transportation mode and the bus that will be updated is in the service, such as the payment service system that will become digital, digital travel information, enhanced security by installing CCTV in each mode, but the fare, time, and other attributes remain. This research was made with the aim to find out whether the public transportation users, especially users of public transportation DKI Jakarta want to move from conventional buses to buses based Intelligent Transportation System (ITS) or not. This research uses stated preference technique. After conducting research to 399 respondents and processing data using the help of SPSS 16.0 application software obtained the results that one of the factors that support for mode transfer is gender. In the payment system switching option there is an 80% probability, for digital bus information of 72.9%, for CCTV implementation of 91.2%, for travel information of 48.8%, for operator monitoring of 74.3%, and for advanced travel information of 94.3% From the probability that has been produced, it can be concluded that most of the services that will be updated using Intelligent Transportation System (ITS) can be accepted by the public transportation users of DKI Jakarta Province.

Keywords: ITS, probability, DKI Jakarta.

Libraries : 30

Publication Years : 1990 – 2020