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Abstrak

City of Surabaya is Indonesia's second largest city which has several sub-districts. Population of Surabaya sangat solid and so well sangat rapid growth. In a city that large and rapid population growth will require a Transport as well as Lyn T2 is the process of moving from Base Wismapermai - Terminal Joyoboyo. Lyn T2 which is past the 5th District sangat rapid population growth in the years 2010-2015 on Mulyosari 1:10%, 1:08% Fishpond Sari, Gubeng 1.06%, Tegalsari 1:06%, 1:05% so sangat Wonokromo require Transpotrasi for 2015 will come.

The problems that underlie this thesis aims to analyze the movement of passengers at the time now in the form Destination Matrix (OD). As a basic prediction of MAT 2015 using the Furness method. It is necessary for a good survey of passenger origin destination survey conducted by recording the Rise Down town passenger transport, as well as occupancy survey conducted in specific locations with a record number of vehicles of public transportation and the number of passengers passing through per hour. Occupancy survey was conducted from 06.00 to 18.00. Results obtained from the MAT in 2010 and then used to analyze the loading of each vertebra, Head Way and load factor as the basis of the needs of urban transport fleet in the years 2010 and 2015.

Performance Analysis System for Transportation Operations Lyn T2 in 2010 and Year 2015 planning to come and needs of the fleet in the years 2010 to working day is 18 fleet with Head Way 9 Minutes to routes Joyoboyo - Wisma Permai and 14 minutes for the route Wisma Permai - Joyoboyo with a load
factor of 0.7 plan, and the needs of fleet size in 2015 for the working day is 18 fleet with nine minutes to Head Way route Joyoboyo - Wisma Permai and 12 minutes for the route Wisma Permai - Joyoboyo with load factor 0.7 plan. And has been described previously in Chapter IV that the total fleet to Lyn T2 there currently are 80 Fleet.