

Manoon Aksornchant 2005: Bus Accessibility in Greater Bangkok Area.
Master of Engineering (Civil Engineering), Major Field: Civil Engineering,
Department of Civil Engineering. Thesis Advisor: Professor Wiroj Rujopakarn,
Dr.Eng. 266 pages.
ISBN 974-9827-92-9

In Greater Bangkok Area, the inefficiency of public transport, among other causes, is responsible for the severe traffic congestion. This study presents the serviceability of the bus system during the 4th - 8th National Economic and Social Development plans (1977-2001), through the Accessibility Index concepts in aspects of bus network, its relation to job/activity distribution as well as the operations.

In the aspect of Bus Network, it is found that the Accessibility Index continually declined during the action of the 4th to 6th plans (1977-1991), however, it increased during the next 7th to 8th plans (1992-2001) as a result of the better traffic condition. The other index, related to job/activity distribution, kept on rising in the studied period the 4th to 8th plans (1977-2001) owing to the growths of employment and population. For bus operation aspect such as bus frequency, routing and serviceable area the index gradually increased during the 4th to 5th plans (1977-1986) but it rose with higher rate in the 5th to 7th plans (1982-1996). However, it gradually increased again at the time of the 7th to 8th plans (1992-2001), the major reason was the non-steady route adjusting and service frequency.

Finally, all the data collected and results from this study is to be integrated in a form of GIS database (Geographic Information System). This database serves as a monitoring tool of upcoming traffic measures such as re-routing and bus-route extension.

Student's signature

Thesis Advisor's signature

____ / ____ / ____