

**VISUALIZATION OD MATRICES USING
GEOGRAPHICAL INFORMATION SYSTEM (GIS)**

By

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DECLARATION BY THE CANDIDATE

I Nuraida Sanin, 2003355613 confirm that work is my own and that appropriate credit has been given where references has been made to the work of others.

(.....)

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ABSTRACT

Knowledge of origin destination (OD) travel information is necessary for a wide range of transportation planning activities. The high labor cost and other expenses associated with conventional survey techniques for estimating OD trip-tables have motivated the development of models that can inexpensively estimate these flows from easily available traffic link volumes. The main purpose of this report is to carry out of the investigation in the feasibility study on visualization *Origin-Destination* (O-D) matrix using the *Geographical Information Systems* (GIS) for Seberang Perai Utara, Pulau Pinang. The OD matrices that obtained from manual calculation will show the OD desire straight line map by using GIS. Besides it, the development of OD database brought the flexibility in the phase of data analysis. Through this research, the visualization OD matrices using GIS will become the important tools in transportation planning.

Keywords:- OD matrices, trip distribution, GIS

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