

การพัฒนาระบบสารสนเทศภูมิศาสตร์เพื่อการพัฒนาเมืองสงขลาและเมืองหาดใหญ่
Development of Geographic Based Information System for Urban
Development of Songkhla and Hat Yai



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Abstract

The thesis presents design and development of a Geographic Information System (GIS) for Urban development of Songkhla and Hat Yai. The system is based on a PC ARC/INFO software package and 386 base AT microcomputer with 80287 mathematic co-processor with 80 Mb hard disk and 16 colours Enhance Graphic Adapter (EGA) display.

The database covers the area of the cities of Songkhla and Hat Yai as announced by the Department of Town and Country Planning. Several layers of data showing administrative boundaries, main land transportation routes, water resources, location of industries, and road network of the cities of Songkhla and Hat Yai.

The geographic based data were digitized and stored by using ARC/INFO software. The database can be queried by using ARC/INFO language interactively and can be plotted on a colour plotter. The developed system was found to be very useful for urban planning for development of Songkhla and Hat Yai cities.