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KEY WORD : GEOGRAPHIC INFORMATION SYSTEM

NARONG CHALERMWATTANACHAI : BASEMAP UPDATING PROCESS FOR THE
METROPOLITAN ELECTRICAL AUTHORITY'S GIS/AM/FM PROJECT IN RATBURANA
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Geographic Information System is widely used in both government and private organization. Under The Mapping System and The Power Distribution Information System Project, the Metropolitan Electrical Authority (MEA), the state enterprises of infrastructure service, is also using GIS to support and update the client data in term of location which is increasing day by day. This GIS/AM/FM project has improved and highly updated MEA base map.

The objective of this research is to study how to use the existing equipment and also looking for possible way to improve base map processing system which have been used in MEA. An area selected to be studied in this research is MEA Ratburana district which covers 377.98 km² and serves approximately 100,000 clients. This area posses the diversified factors, such as real estate property, new cut road etc., which have been used to improve and mostly update the data by MEA equipment.

From the results show that GPS and Digitizer which are used in MEA perform good capability and user friendliness. GPS are used for searching requested position where as Digitizer are used for signal amplification. Data from both output will be used for base map processing to tabulate accurately map. In order to improve base map updating process for MEA , human resource must be well trained in using software , as well as some of the conventional equipments must be replaced by modern technology.

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