

GIS for Decision Support of Water Resource Management at Taipei Water Management Office in Taiwan

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Abstract

Decision support of water resource management at Taipei Water Management Office (TWMO) is not an easy task. TWMO is more like a county government rather than a typical water management authority. In addition to watershed management, there are many tasks that have to be solved day after day. Citizen always comes first for every government agency in Taiwan. Although sustainable supply of drinking water comes as the top priority but in the mean time benefits of citizen at Taipei Water District have to be taken care as well. The objectives of this paper were to develop geographic information systems for decision support of water resource management in the mean time to enhance what have been done by TWMO for people living in this district. Decision support can be a simple task if there is sufficient information in the data bases. Data bases have been created continuously in the last 16 years. They are sufficient and useful. ADO.NET has been implemented to make manipulations and update of data bases at TWMO more user-friendly and simple. Several “what-if” for prescriptions of water management can be drafted right away in order to come up sufficient decision supports at director level as well as department head level. Citizen comes first is a very serious task that challenges all government agencies in Taiwan. TWMO has implemented GIS to accomplish as many tasks as possible in the office on a right away basis. For these tasks that can not be done right away can be monitored on Internet. Data bases extraction between different levels of government agencies is now the basic component for a given government GIS. At TWMO data bases can be extracted by local townships as well as central government by Internet FTP and ArcIMS.

Proposed Presenter: Mr. Jyh-Haur LU.

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