

GIS for Optimizing O&M of Huế Water Corporation's Water Supply Facilities, Vietnam

Kokusai Kogyo (President, Osamu Nakahara; Headquarters, Chiyoda, Tokyo) been contracted by Huế Water Corporation (HuếWACO), of Thua Thien-Huế Province¹ in the Socialist Republic of Vietnam, to develop a management system for operation and management (O&M) of its water supply facilities.

Thua Thien-Huế Province in central Vietnam is experiencing rapid economic growth and urbanization. This has rapidly expanded the area needing water supply, therefore appropriate and efficient management of facilities related to water supply is becoming a major issue.

Kokusai Kogyo started investigating the feasibility of developing a water works O&M system using a geographic information system (GIS) for HuếWACO in September 2011; and has since been working together with HuếWACO to study how to make its work more efficient, to appropriately manage its water supply facilities and to safely supply water to its residents. This contract for developing a full-scale system is a result of the proven feasibility of accurate and efficient system for operation and management of water supply facilities using a GIS.

This work will involve customizing the water works O&M system developed by Kokusai Kogyo, Genavis Series²: Sesaragi³, to suit the local conditions in Vietnam, then to 1) create data, 2) give training on how to use it, 3) set up the system, and 4) give support in its operation.

As a result of adopting this new system HuếWACO will be able to 1) strengthen its staff's O&M capacity, 2) improve work efficiency, 3) reduce costs, and 4) reduce the rate of unaccounted-for water (a ratio of how much water goes to waste from when water is treated until it reaches households; the lower the ratio the better).

Moving forward Kokusai Kogyo will continue to expand its presence in the Vietnamese and Southeast Asian markets, focusing on the growing demand for water works infrastructure development from local governments. At the same time it will continue to expand its Genavis Series line-up and its water supply facility O&M systems.

※1 About Thua Thien-Huế Province

Located in central Vietnam it has an area of approx. 5,000k m², and a population of 1.2 million. The provincial capital is Huế City, which was the seat of the Nguyen Dynasty. This city, with a population of 360,000 people, is rapidly urbanizing, and is aiming to become a centrally-controlled municipality by 2015. Over 90% of the city has access to the water supply. The city boasts the best water quality in Vietnam, so much so that it has issued a Declaration of Safe Drinking Water. With the agricultural areas on the outskirts of Huế City in the process of becoming urbanized, the provision of a stable water supply is a pressing issue.



※2 Genavis Series

Genavis is a comprehensive system for supporting public administrative services using GIS developed by Kokusai Kogyo. The Genavis line-up includes: UrbanMap, an information system for urban planning; Tao, a road network information system; Sesaragi, a water supply information system; and Sesarain, a sewerage information system.

※3 Sesaragi

Meaning creek in Japanese, Sesaragi is a system using GIS to optimize operation and maintenance of water supply related facilities. Its PC edition was first released in 1996 and is now being used by 239 clients in Japan, including Yokohama City.