Study about the Construction Techniques for Locally-Specified U-Waterworks Information Management System

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ABSTRACT

The budget which in link of the while information policy etc. is enormous in water's informatization was committed. But it is judged that each local government's C-waterworks management system will reduce relevant work's efficiency. The purpose of this study is to analyze necessary system functions to each region based on the results drawn from comparing and analyzing the c-waterworks information management system with the U-waterworks information management system, and is to suggest locally-specified water informed-management system construction technique by region.

Keywords: C-waterworks information management system, Informatization system, U-City, U-waterworks information management system

1. Introduction

Water & Sewage Informatization Project pursued by the Department of Water & Sewage in Ministry of Environment is a large-scale facility and administration informatization project to secure people's trust by making the water administration more efficiency and transparent information open. This Water & Sewage Informatization Project will be developed nationwide through 10 years to construct and apply the unit system including functions monitoring and managing all water & sewage facilities' functions under each local government's responsibility, detecting a water leakage, establishing the facility automation and remote management system, analyzing and evaluating the project's results. This project is composed of an integrated system collecting such unit systems, to receive some information necessary for each local government's water & sewage facility management and linking the information with the central government's relevant DB, and the data open system quickly announcing relevant information over the Internet (Ministry of Environment, 2001). Through these results, it can be known that each local government's water & sewage management system is constructed as the information system. Among the water & sewage information system, this study set the waterworks information management system as its research range. As the result analyzing the C-waterworks information management systems[1] currently introduced by each local government, relevant departments charging from the production to the consumption operate their own system separately due to the system's nature. Such dispersed management system is worried for the possibility to reduce the efficiencies of information delivery and acquisition. Besides, as U-City (Ubiquitous City) is being constructed and exiting work roles related to C-waterworks information management system, local governments are dichotomized, there happen some cases duplicating the work systems. Like that, although the construction of waterworks information management system introducing new technology is important, it is judged that the efficient, systemic management of the built system is very also important. As a part of efforts to solve above problems, The purpose of this study is to analyze necessary system functions to each region based on the results drawn from comparing and analyzing the C-waterworks information management system with the U-waterworks information management[2] system, and is to suggest locally-specified water informed-management system construction technique by region.

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[1] C-waterworks information management systems : waterworks information management system which is traditional

[2] U-waterworks information management systems : The system which is composed of Ubiquitous functions which include an existing water information management system

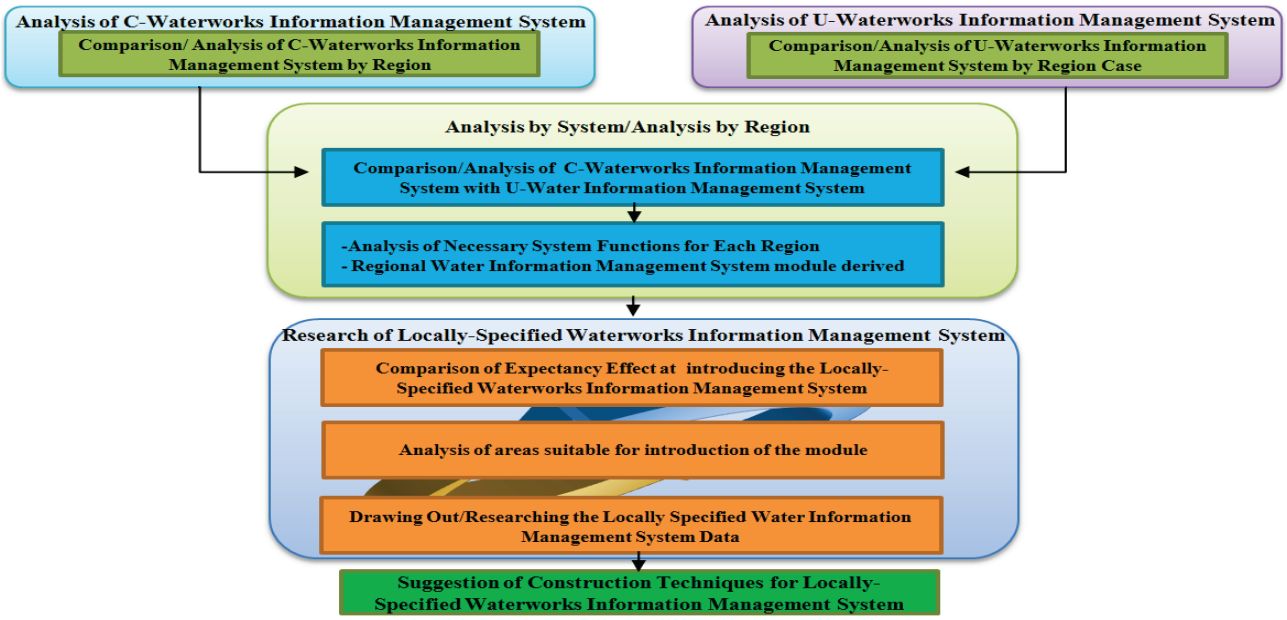

FIGURE 1. Research Methodology

2. Research Methodology

This study is developed according to the Fig. 1. The study compares each local government's C-waterworks information management system by unit system and analyzes management system's features by region. U-Waterworks Information Management System is also compared with each local government's constructed unit system, and each region's management features are analyzed. Then, based on the analyzed results, this study compares and analyzes the C-waterworks information management system with U-Waterworks information Management System and their features. And each local government's system efficiency is analyzed. At this point, this study analyzes necessary system functions for each region's water facility and draws some supplemented, specified functions from the existing system. After the work, based on the analyzed data, this study intends to investigate each water-serve management system specified by region, following to analyze the expected effects at introducing the new system, and to suggest the construction technique for locally-specified waterworks information management system.

3. Conclusions

With the drawn data from the work comparing and analyzing the C-waterworks information management system and U-Waterworks information Management System by region, this study is developed to suggest the construction technique for locally-specified water information management system. Based on the result of this study, future studies will need to construct some modules to draw out highly efficient, specified functions and to be easily applied to a commonly-used system through continual analysis on local water facility cases. It respects a module construction it stands and to compare and analyze each area by C-waterworks information management system and a U-waterworks information management system "U-Only" parts it separates. The hereafter part reflects each area by quality to the C-waterworks information management system where the architecture improves and selection the accomplishment which it implants in form of the type which is possible is necessary.

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