

An Approach to Application of Integrated Land Administration Data

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SUMMARY

Korea's modern land system was enforced after the land survey project performed in the early 1900s during the Japanese colonial period, which was actually focused on tax collection. With various changes in the land markets accompanying the dramatic economic growth from 1970 to 1990 (what so called 'Miracle on the Han river'), soaring land values and demand were generated. The Korean government realized that land administration had to deal with not only tax collection but also land usage plan, national decision making, and policy. Therefore it set up strategic plans for land administration. In 1995, the government enforced the 'Master Plan for National GIS Establishment' as four plans which have been implemented consecutively every 5 years since 1995. The first and second Master Plan for National GIS were mainly focused on computerizing and organizing the land administration data, and constructing database because paper-based administration required considerable time and labor, and public wanted service faster and more accurate. In terms of system, the Korean land administration has been separately operated and managed by two system: cadaster and registration. 15 types of data related to cadaster, land, land value, and architecture have been managed by the Ministry of Land, Infrastructure, and Transport (MOLIT). 3 types of data related to registration have been controlled by the Supreme Court. Through the National GIS Establishment project, the land administration data (18 type of data) including cadaster, registration, land value, architecture and so on have been changed from paper-based data to digitized and electronic one. In fact, there are some issues need to be resolved. As the land administration data (18 type of data) have been operated and managed separately by different authorities, it has brought about duplicated investment, inconsistency, and uncertainty due to lack of compatibility and synchronized update. Furthermore, public carries out complicated and duplicated process in doing land administrative business, which leads to unnecessary social expenses and time. Years ago, the Korean government suggested new national admission named 'Government. 3.0' for the administrative renovation. The Gov. 3.0 indicates new paradigm to promote active sharing of public information and remove barriers existing among government ministries for better collaboration. In particular, the government considered geospatial data as important factor to realize its goal. In this manner, the MOLIT is pushing ahead 'The project on land administration data integration' starting from 2010 by 2014. The primary scope of this project is aimed to adjust incorrect and discordant data, and integrate 18 type of land administration data into single type of data. After the project is completed, integrated data shall be able to provide public with better access, precise data, faster and easier process of land administration business. In addition, it shall be able to cut down duplication, inconsistency, inefficiency, and unnecessary waste of time and money. Integrated administration data can be regarded as valuable spatial data, so that it can be utilized for national land use planning, national decision making. In order to effectively share and utilize integrated data, there should be some channels that enable users to easily access and use spatial information with visible geographic reference everywhere and anytime. In Korea, the open platform V-WORLD is currently providing public with geospatial information on the web. This platform satisfy requirement that

information can be easily shared, and two-way communication is possible. To maximize the application of integrated data, it is necessary to make a connection with the V-WORLD. In this paper, it deals with an overview and outcome of 'The project of land administration integration'. The way of Connection with the open platform V-WORLD is suggested.