

# **The Current Status and Reform Strategies of GIS Projects for Urban Infrastructure Management in Korea**

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**Key words:** GIS, Urban Infrastructure, Underground Facility, NGIS Master Plan.

## **ABSTRACT**

As IT has developed rapidly and 21<sup>st</sup> century has become highly information-based period, the level of informationization\* has become the basis of development of a community. Furthermore, as the civic society has developed and the concentration on city has become more serious, it is required to make a decision reasonably through efficient management of basic facilities such as urban space and underground utility, and through analysis and rapid collection of every information. The pan-government organized Steering Committee in the NGIS master plan so that each department of the government, autonomous body and enterprise may promote the base to develop and utilize GIS.

The 1st NGIS master plan was established in May, 1995 and its first step was carried out in 2000. The 2nd NGIS(2001-2005) was established and the two-phased project is under way at present. Each municipality was trying to utilize GIS systematically in management of basic facilities such as water, sewage pipeline, road and transportation to promote efficient administrative affairs and administrative service for people. Also, they were striving to use GIS systematically to minimize the possibility of disaster and to deal with internal and external environmental changes actively and inconvenience caused by the increase and superannuation of urban basic facilities.

This research presented the reform direction of GIS to manage urban infrastructure efficiently on the basis of them, after finding state and problems of GIS related to city infrastructure focusing on underground utility which covered the majority of basic facilities.

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\*Informationization: to have the activity be done in various social areas through producing, using and distributing the most of digital information

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