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Information and Communication Technologies-Based Urban Spaces: From Planning and Design to Implementation

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Abstract : As to the development of the capitalist economy, local governments put their focuses on economic growth and quality of life including the management of declined urban area. Together with the rapid advances in ICTs (information and communication technologies) Korean government tried to adapt ICTs to urban spaces to catch these two goals. Ubiquitous city, concept introduced by Mark Weiser in 1988, is a kind of ICTs based urban space which can provide IT services anytime and anywhere. This paper introduces the experience of developing ICTs-based urban planning and it's implementation process and discusses the effect of the R&D based U-City test-bed project. For a community center of a residential zone in a newly developing city, spatial problems and citizen's needs were identified to plan IT-based urban services. The paper also describes the structure and functions of Community O/S (COS) as an IT platform which controls data and urban devices such as media facades and U-poles. Not only one-way information but also Interactive services were included. Public creating activities using this platform also added –CO2 emission management and citizen making safety map, etc. The effects of the comprehensive U-City planning in S/W, H/W and human-ware were discussed on the case study of similar individual projects.

Keywords : ICTs-based urban planning, implementation, public IT service, U-City
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