

# Smart city policies and strategies in Korea

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## Abstract

Much effort has been put to implement smart cities around the world to solve the urban problems and population increase. Korea is also establishing governmental policies for smart cities at a national level and promoting various support projects. The Korea Institute of Construction Technology (KICT) is also establishing related strategies to play a role that satisfies the mission as a government-funded research institute in construction sector. This study aims to establish a promotion strategy for smart cities, which are underway by the KICT, based on the current smart city promotion status by the Korean Government.

This study consists of the following contents. First, the promotion systems and major plans for smart cities at a government level were analyzed based on the Smart City Act, which was revised in 2017. The analyses on the promotion background and contents of government policies such as Basic Plan of National Smart City, selection of national pilot smart cities, research and development project of innovation growth engine, and Smart City Challenge were conducted. Second, possibilities and current status of the KICT to participate in the certification scheme of smart city services and service Living Lab, which are currently underway in relation to government smart city promotion policies, were analyzed. To do this, this study investigated the contents about designation of smart city service support institutions and execution of designated consignment tasks. Finally, strategies of KICT to promote smart cities were derived based on the above analysis and investigations.

The smart city promotion strategies of KICT are summarized to the development of market-led sustainable commercialization model. The commercialization model has set the following goals: certification of smart city services, database development utilizing certified excellent smart city services, local government consulting utilizing the developed smart city service database, and sustainable operation with business structure that improves service certification scheme through feedback.

This study will produce foundational data to comprehensively identify the ongoing smart city-related business structure in Korea, which will be expected to be utilized as foundational data for international cooperation through the advertisement of KICT's smart city promotion strategies and businesses to Korea and overseas.

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## Biography

Seunghyun Jung received a Ph.D. (2009) in Urban Planning from Hanyang University, Korea. He is involved in several research projects related to urban environmental analysis using G.I.S. applications. Recently, he has been researching about smart City and urban regeneration research project. He works at the Smart Cities Research Centre of KICT (Korea Institute of Civil engineering and building Technology) as a senior researcher.