

Development of management and operation model for smart city R&D Project

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Abstract

The Smart City R&D Project in Korea has been launched in October 2018 with the Innovation Growth Engine (IGE) Project that creates new industries and leads economic growth through innovation in response to the Fourth Industrial Revolution. The Smart City IGE Project consists of three sub-divisions under the Project Division. The sub-tasks in the sub-divisions consist of 13 tasks. For the tasks, the role of the KICT is to develop a model for operation and management of all tasks in the IGE Project, and apply the operation and management model to two demonstration cities, Daegu and Siheung for promotion.

The smart city IGE project conducted by the KICT are largely divided into three tasks. First, it is to develop a project management tool to manage, inspect, and evaluate the progress of the smart city R&D project. This management tool, which was called “smart city project hub”, is now developing by benchmarking the Smart Columbus model in the state of Ohio in the USA. It aims to secure technologies that can respond to extended application to other cities in the future by monitoring and managing the progress status of demonstration cities based on the system. Second, it is to develop the Korean smart city index. The smart city index is to measure and evaluate the performance made from each task, which is developed in link with the project management tool. Third, it is to construct the smart city collaboration program. It is a role to support the development of the smart city fusion alliance, identify improvement requirements for legal systems needed to expand smart city services, and propose policies to promote smart city-related industries based on the identification.

As described in the above, KICT is currently playing a core role in developing the smart city IGE project in Korea, and will play a hub role for local and international collaboration, development of assessment guidelines, and supply of project management tool that can contribute to the expansion of smart cities in Korea through the development of Korean smart city operation and management model.

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Keywords: *Smart City, management model, Innovation Growth Engine*

Biography

Seongsig Kim received a M.S. (2000) in Electronic Computer Science from Hanyang University, Korea. He has been researching about Development of Smart City Project Management, Evaluation Model and Cooperation Program Research R&D project. He works at the Smart Cities Research Center of KICT (Korea Institute of Civil engineering and building Technology) as a Director.