



# A Study of Smart city Strategy in the Era of 4th Industrial Revolution

Development of information technology(IT), big data, artificial intelligence, and networking technology by 4th Industrial Revolution is giving hopes to solve the complex and diverse problems faced by the mankind. In the future, it will be forecasted that the smart cities will provide the right solutions for urban and social problems, and it will be more convenient, safer, and cost effective.

As urbanization becomes more deepened around the world, smart cities are emerging as alternative to various urban and social problems following the rapid population growth. Previously, Korea has lead the technology-driven smart city by leading the U-City while establishing smart infrastructures in the so-called new city and expanded the public infrastructures, yet, it had been unable to spread it to the old city center and even in the aspects of performances of the softwares, it lacked the tangible results from the citizens. due to sluggish outcomes.

In many countries including Korea, new types of urban phenomenon are emerging and various problems occurred by these needs to be solved.

In order to actively respond to these changes and to solve urban and social problems, various methods are being discussed at this moment. Living lab, platform cities, and shared cities etc are solutions or systems that have emerged as a result of their efforts to create smart cities.

Building smart city indicator is also an important issue. Smart cities needs to be properly evaluated to correct out the wrong solution and to develop them in a better direction.

The solution towards the urban problems through smart cities can be approached in accordance with the urban growth phase. The basic directions for establishing smart cities in the newly developed regions cane be suggested as in the following: 'building a test bed of future-leading technologies', 'smart city management based on data base', and 'creating a smart city led by private companies and citizens'.

In terms for the existing cities that are growing, it is necessary to develop a data hub model that can smoothly produce, manage, and share information generated in the city management and management process, while for the old and declining cities, it would be efficient to pursue a grafting of low-cost, high-efficiency, smart city renewal new deal that integrates smart solutions that improve the living environment.

Finally, the existing central government-led top-down platform is difficult to guarantee the sustainability of the innovation platform due to the redundant budget investment and the lack of ongoing management due to administrative division between departments, which in turn, limits inductions of participations from the companies. Therefore, we could consider establishing new types of city sharing platforms that are different from existing ones.

In a sharing platform for innovation, the government injects common elements of the platform such as infrastructure into commons, thereby creating incentives to participate in the platform and cooperation, while

there are also needs to minimize direct intervention, thereby ensuring the private sectors could operate freely and with creativeness.

As we suggest the policy implications that can be applied for the Gyeonggi Province, First of all, there is a need for establishing and regularizing the basic plan of GOPS (Gyeonggi Open Platform for Smart City) and to set up the working group's operation. Second, it is necessary to put the finishing touches on the standard solutions that are made in accordance with GOPS working group operation. Third, it can be considered by promoting the development of a pilot smart city by subjecting new land development parcels. Fourth, there is a need to promote the creation of a shared city based on a shared economy in the existing and old city centers. Finally, there is a need to create conditions for the citizens to actively participate in the creation of a smart city.

**Key Word** 4th Industrial Revolution, Smart City, Shared City, Platform City