## Strategy for Territorial Policy in Response to the Fourth Industrial Revolution

Jeong Woo-seong et al. Associate Research Fellow ☐ In order to establish a national territorial development strategy in consideration of local conditions, it is necessary to understand the Fourth Industrial Revolution from the perspective of national territory and predict its impacts. ☐ Potential changes in national territory following the Fourth Industrial Revolution can be predicted in terms of the structure of territorial space, national territorial infrastructure and land use management and related industries. Changes in the structure of territorial space: Hyper-connectivity, which is one of characteristics of the Fourth Industrial Revolution, reduces time-spatial limitations and can strengthen both the distribution and concentration of territorial spaces. Metropolitan areas are expected to expand further based on high potential for innovation in terms of technology, industry, human resources, and physical infrastructure. Demand for multi-purpose and multi-dimensional land use in cities is projected to increase. Expansion of new industries related to transportation: Demand for accurate spatial data based on GPS is expected to skyrocket. Advancement of urban infrastructure will be promoted, enabling various urban data to be connected and used through urban platforms. This is projected to increase the growth of industries related to traffic and logistics. More jobs can be created by new businesses including those in the sharing economy, etc. Improvement of land use management and service: The quality of life of citizens can be improved through enhanced responsiveness of proactive and sophisticated policies based on evidence supported by big data on major social issues and thus can improve satisfaction in daily life. ■ The efficiency and convenience of transportation services are expected to increase through multidimensional use of road spaces, self-driving cars, and drones. ☐ In response to the Fourth Industrial Revolution, it is necessary to come up with national territorial

development strategies customized to South Korea including strategies to promote innovative national

territorial spaces, apply intelligent technologies to land use management and spaces for daily life, and establish a strategy to strengthen smart regulation of national territory.

## | Policy Suggestions |

- ①Strategy for innovative national territorial spaces: For large cities, it is necessary to build an innovative system to nurture new industries customized to large cities. For small and medium-sized cities, the strategy should focus on establishing a hub for the growth of innovative cities and upgrading industrial complexes. And for shrinking cities, a proactive countermeasure is needed from the perspective of urban regeneration when concerns over decline are raised.
- ② Intelligent technologies for land use management and spaces for daily life: While a smart city plan should be considered at the time of building a new city, it is also necessary to expand services to improve the daily life of citizens through pilot projects for smart communities, manage aging infrastructure through sensing technologies, establish a national territorial monitoring system, build an open-source national territorial big data platform, and expand its application.
- ③ Strategies to strengthen smart regulation of national territory: It is necessary to provide land for business sites of advanced new industries, amend regulations on new industries including the sharing economy and drones to nurture smart technologies, and strengthen a collaborative system for different policies to meet demand such as establishing an inter-city data platform.