



Cities Are Getting Smarter Than Ever Before

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Abstract. Technology enables National or City governments around the globe to improve various aspects of daily life. Smart-City is currently the next urban model for most of countries in the world. For the developing countries, Smart-City can be the most effective tool model to solve urban problems because of the uncontrolled fast urban population growth and for the developed countries, Smart-City can be the model for next economic growth and energy efficient.

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Smart City has three main elements: (1) Infrastructure, (2) Service, and (3) Platform. The infrastructure and services are linked to each other in the Smart City Platform.

The Smart-City platform is a solution that collects data and information from all around city and provides these data and information in the form of proper services or solutions to citizens at the right time. (1) how to collect a lot of different data and information; (2) how to store and manage data and information, and how to convert data and information into services; (3) How to provide citizens services. Cloud, IoT, Big Data and other cutting-edge technologies are important for better service. IFEZ, Korea's famous smart city, embeds innovative technologies to build an intelligent and connected community.

IFEZ Smart City Software Platform is the core software of city control service, and we have completed the integrated software framework that provides various smart services by combining ESB, Big-Data, CCTV video system and GIS technologies. It collects data based on standardized interface definitions for all on-site facilities in the city (CCTV, traffic equipment, sensors, etc.) and monitor equipment status. It uses data gathered through linkage with external organizations to provide information to citizens.

IFEZ Smart City Hardware Platform adopted Cloud datacenter technologies and design concept to Smart City' infra environment configuration and operation system.

The IFEZ cloud data center has standardized system units for all the elements that make up the data center: data center facilities, center network infrastructure equipment, and center system infrastructure equipment. In addition, the cloud data center has been configured to expand step by step to respond to the follow-up business of IFEZ Smart City. It is also designed to integrate the available resources of existing businesses into one, and utilize infrastructure resources flexibly as needed.

From now on, IFEZ Smart City will continue to develop services to create a future city by combining with new service technology of the 4th revolution and will expand services based on IFEZ Smart City H/W and S/W platform. The IFEZ Smart City business area will continue to grow by expanding smart city services to the whole city rather than being limited to specific areas.