Smart City Concept

Umida Uzakova Ruziyevna | Tashkent Institute of Architecture and Construction

ABSTRACT

A smart city is largely composed of Information and Communication Technologies (ICT), which is the basis for developing, deploying and stimulating sustainable development practices to solve growing urbanization problems.

A large part of this ACT system is the intellectual network of connected objects and machines (also known as the digital city) that transmit data using wireless technology and the cloud.

How does a smart city differ from a simple city? Approaches to the concept of a smart city are diverse, but it refers to a residential area that is always enriched with technology. The essence of such technologies is understandable—devices interact with the outside world without human participation, but they serve for its well-being. A simple example is street lighting, which starts when natural light is lacking.

What makes smart cities succeed

Apart from people, residential, commercial and traditional urban infrastructure, there are four important elements necessary for smart cities to thrive:

Common wireless connection
Open Data
Security you can trust
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What is the best wireless technology for smart cities?

The first building block of any smart city app is a reliable, widespread wireless connection.

While not the only size that suits everyone, the developing low-power broad network (LPWAN) technologies are well suited to many smart urban apps for their economic efficiency and presence everywhere.

These technologies include LTE Cat M, NB-IoT, LoRa, Bluetooth, etc., all of which contribute to the structure of connected cities.

The rise of 5G technology is expected to be a milestone that will bring smart urban technology into the mainstream and speed up new installations.

Rating of smart cities. At a time when problems like climate change and shortages are expected on the horizon, the need for smart cities is stronger than ever. Fortunately, many of the world's largest metropolitan areas have taken steps to become smarter, greener and greener. The following cities are among the smartest cities in the world by 2021, including real public transport systems, buildings built of recycled materials, innovative technologies, smart urban planning. and a strong sense of social solidarity. London Kopengagen Masdar Tokio Amsterdam Parij New York Reykyavik Vena Gonkong

London was named the smartest city in the world in 2021, according to the sixth annual Forbes magazine. This success is due to the number of quality universities, as well as the transportation system and urban architecture Copenhagen is on track to become one of the greenest and most habitable cities on the planet. The Danish capital aims to bring carbon

emissions to zero until 2025 and is proud of smart technology on its historic streets. About 40% of Copenhagen residents use bicycles to keep the city green.

Technically, this is the Abu Dhabi region, Masdar is the real city of the future. Masdar, which ranks among the world's greenest cities, is home to electric car charging devices and houses built from recycled industrial waste.

Masdar is the first city to use completely renewable energy. The city has a research institute, as well as many restaurants and cafes. Tokyo's rating as one of the smartest cities in the world is driven by its strong labor productivity, as well as advances in urban architecture, technology, mobility and transport. One of the best, but least known, things to do in the Japanese capital is to admire the city's views from the Tokyo Metropolitan government building.

From the culture of cycling to technological advancement, Amsterdam is known as one of the most promising cities in the world. Many homes in the city canals have paved the way for the construction of new housing, which is a great way to handle traffic jams and use many waterways.

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1. "Where Smart Cities Find Seats" 2021
2. Social Networking (Hozir.org)