

Importance of Iot in the Public Sector

*Umrbek Sabirov*¹

Throughout the place, linked gadgets are becoming commonplace. The term "Internet of Things," or IoT, has gained popularity recently. The key component of this technology is networked devices. Optimizing the processes, entails sharing data, assessing the data gathered, and taking appropriate action. It is a world of connectedness, sensors, and actuators. We are surrounded by connected gadgets that use the data we provide to provide individualized services. IoT is essentially changing how we live and work.

Any device with a sensor or actuator and an Internet connection may transmit and receive data. This vast volume of data is used by IoT for analysis and to allow automated operations. Every industry is looking at the possibilities of IoT. There is no dispute as to why municipal and federal governments are making investments in connected devices and using their power.

How IoT accelerates innovation in the public sector?

The desire to transform cities into "smart cities" is widespread. Every government is using a different strategy to grow their economies. Moving to digital is also a no-brainer! In reality, we can already see signs of digitization in the shape of mobile apps for paperless working and citizen reporting, specialized government portals, and dedicated websites. IoT will improve the game. It will support their online initiatives. By utilizing the Internet of Things, digital administration will enter a new age.

The use of IoT will aid government decision-making. The difficulties of cost and income can be overcome by the public sector by making full use of the data that has been acquired. The use of less manual labor will simplify operations thanks to modern technologies.

What are the public sector's IoT potential areas?

IoT, then, ushers in a new era for the whole public sector. They should begin looking at IoT applications to best serve their residents. Although the government cannot instantly modify everything, starting with the fundamental procedures can be useful. Healthcare is only one of the many possible IoT applications.

The true assets are healthy folks. It is essential to reach out to patients, make care services available, and guarantee an accurate diagnosis. IoT makes healthcare easier. It permits real-time tracking for mobile healthcare, sensor-based devices, ingestible sensors, smart hospital beds, remote monitoring, and prompt care. IoT promises to make healthcare services more accessible and cheap.

Transportation and Traffic

It is not new for IoT to provide car condition information. IoT may be used by the public sector to track traffic conditions. The management of public transportation benefits from IoT. It can employ sensors to estimate waiting times, adjust vehicle frequency to accommodate passengers, and communicate with other cars to reduce traffic jams and accidents.

Environment

A government must achieve its sustainability objectives. IoT sensors are very helpful in reducing pollution and giving people a better environment. For instance, measuring the amounts of air, noise, and water pollution with sensors. On the other hand, IoT may also support the detection of issues with assets and structures, their early repair, and mitigation of environmental damage.

¹ Toshkent davlat iqtisodiyot universiteti Samarqand filiali talabasi



Crisis Services

With the help of IoT, the public sector may get ready to handle emergency management and natural disasters. Data collection and analysis provide insights into potential emergencies in the future. The pressure, fog, smoke, temperature, fire, and approaching problems may all be measured by sensors. Even if there is no way to prevent it, the loss will be limited.

Waste Control

IoT-based waste management solutions include garbage collectors and smart bins. In 2025, the market for smart waste collection will be worth more than \$220 million. Bins with sensors can alert waste collection services to schedule their pickups. Trucks with GPS technology can choose the best path. It advertises services for integrated trash management and recycling.

Security and Monitoring

Security has been a worry for the administration in light of the troubling terrorism and bomber occurrences. Modern drones equipped with IoT technologies enhance security and monitoring systems. When an anomaly is detected, it facilitates real-time coordination and prompt notification.

IoT innovation

The potential of IoT in the public sector cannot be disputed. There is a catch, though! There is an unlimited supply of data with IoT. Only if the firms have the proper solution to handle and utilize this data can they benefit from it. The appropriate use of the acquired data will be ensured by choosing the right platform. The government must set up a highly secure platform that may be customized. They will have some degree of influence over it. Like centralized master data management, agile principles are used to control data flow. The solution can handle data from many sources. It sets up the silos for predictive analytics in a standard way.

1. Umrbek S. NIMA UCHUN BIZNES RAZVEDKASI MUHIM //Current Issues of Bio Economics and Digitalization in the Sustainable Development of Regions (Germany). – 2022. – C. 236-239.
2. <https://www.linkedin.com/pulse/importance-iot-public-sector-mark-eves/>
3. <https://www.diva-portal.org/smash/get/diva2:1379492/FULLTEXT01.pdf>

