



IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, texnologik, ilmiy, ommabop jurnal



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THE ROLE OF DIGITALIZATION OF HEALTHCARE IN THE IMPLEMENTATION OF THE SAFE CITY PROJECT

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Abstract: As cities grow and become increasingly complex ecosystems, ensuring the safety and well-being of residents requires innovative and integrated solutions. One of the most transformative elements in this landscape is the digitalization of healthcare, which plays a crucial role in the implementation and success of the Safe City project. Safe City initiatives aim to enhance urban safety and resilience through the application of smart technologies — and digital healthcare stands at the intersection of public health, emergency response, and citizen engagement.

Key words: digitalization, medicine, healthcare, institution, emergency, Safe City project, urbanization, data, monitoring.

Annotatsiya: Shaharlar o'sib, tobora murakkab ekotizimlarga aylanar ekan, aholi xavfsizligi va farovonligini ta'minlash innovatsion va integratsiyalashgan yechimlarni talab qiladi. Ushbu landshaftdagi eng o'zgaruvchan elementlardan biri sog'liqni saqlashni raqamlashtirish bo'lib, u "Xavfsiz shahar" loyihasini amalga oshirish va muvaffaqiyatida hal qiluvchi rol o'ynaydi. Xavfsiz shahar tashabbuslari aqlli texnologiyalarni qo'llash orqali shahar xavfsizligi va barqarorligini oshirishga qaratilgan - va raqamli sog'liqni saqlash jamoat salomatligi, favqulodda vaziyatlarda javob berish va fuqarolarning ishtiroki chorrahasida joylashgan.

Kalit so'zlar: raqamlashtirish, tibbiyot, sog'liqni saqlash, muassasa, favqulodda vaziyat, "Xavfsiz shahar" loyihasi, urbanizatsiya, ma'lumotlar, monitoring.

Аннотация: Поскольку города растут и становятся все более сложными экосистемами, обеспечение безопасности и благополучия жителей требует инновационных и комплексных решений. Одним из наиболее преобразующих элементов в этом ландшафте является цифровизация здравоохранения, которая играет решающую роль в реализации и успехе проекта «Безопасный город». Инициативы «Безопасный город» направлены на повышение безопасности и устойчивости городов за счет применения интеллектуальных технологий, а цифровое здравоохранение находится на стыке общественного здравоохранения, реагирования на чрезвычайные ситуации и вовлечения граждан.

Ключевые слова: цифровизация, медицина, здравоохранение, учреждение, чрезвычайная ситуация, проект «Безопасный город», урбанизация, данные, мониторинг.

What Is Digital Healthcare?

Digital healthcare, or eHealth, refers to the use of digital technologies to support and deliver medical services. This includes electronic health records (EHRs), telemedicine platforms, AI-powered diagnostics, wearable health monitors, mobile health apps, and integrated health data systems. These tools are revolutionizing how healthcare is delivered, managed, and accessed — especially in urban environments where efficiency and real-time response are essential.

Enhancing Emergency Medical Response

One of the core components of a Safe City is the ability to respond quickly to emergencies. Digital healthcare significantly enhances this capability in several ways:

Real-time Data Sharing: Emergency medical teams can access a patient's medical history via cloud-based EHRs, allowing for more informed and faster treatment decisions.

Smart Ambulances: Equipped with telemedicine tools, smart ambulances can transmit patient vitals to hospitals ahead of arrival, enabling immediate preparation for critical care.

Integrated Command Centers: In a Safe City, healthcare is part of the centralized command structure, where emergency response units, hospitals, and public health departments coordinate in real time.

Preventive Healthcare and Public Health Surveillance

A digitized healthcare system is essential for proactive public health management, which is a cornerstone of urban safety:

Epidemic Monitoring: IoT devices and AI analytics help detect early signs of infectious disease outbreaks, enabling swift containment measures.



Health Trend Analysis: Big data from wearable devices and health apps can inform city officials about prevalent health issues and guide resource allocation.

Vaccination and Alert Systems: Digital platforms can send personalized health alerts, reminders for vaccinations, or air quality warnings, helping residents take preventive measures.

Improving Access and Equity

Safe City projects are not just about surveillance and emergency response — they are about building inclusive, livable environments. Digital healthcare contributes by:

Expanding Reach: Telemedicine eliminates geographical barriers, making quality care accessible even in underserved urban areas.

Reducing Strain on Infrastructure: Remote consultations and AI-powered triage reduce the burden on hospitals and clinics, allowing them to focus on critical cases.

Empowering Citizens: Mobile health applications give citizens more control over their health, promoting a culture of wellness and personal responsibility.

Data Integration and Smart Governance

The digitalization of healthcare enables data-driven decision-making, essential for responsive and adaptive urban governance:

Unified Platforms: Integration of health data with other smart city systems (e.g., traffic, environmental monitoring, law enforcement) provides a holistic view of urban dynamics.

Policy Formulation: Real-time health data can influence urban planning, such as optimizing locations for clinics or improving pollution control strategies.

Cybersecurity and Ethics: As sensitive health data becomes central to city operations, robust data governance and cybersecurity protocols become vital to protect citizen privacy.

Despite its potential, integrating digital healthcare into Safe City frameworks comes with challenges:

Infrastructure Gaps: Not all cities have the digital maturity required to implement advanced eHealth systems.

Digital Divide: Socioeconomic disparities can limit access to digital healthcare tools.

Privacy Concerns: Balancing surveillance with individual rights requires clear ethical and legal frameworks.

The digitalization of healthcare is not merely a technological upgrade — it is a foundational pillar of the Safe City vision. By enhancing emergency response, supporting public health surveillance, improving accessibility, and enabling smarter governance, digital healthcare transforms cities into safer, healthier, and more resilient environments. For Safe City projects to succeed in the long term, they must place digital healthcare at the heart of urban strategy — ensuring that safety and health evolve hand in hand in the cities of tomorrow.

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