

HealthcareNXt: Redefining care in the era of 5G

The Healthcare industry landscape is changing rapidly. Key factors driving this change are the aging population, rise in chronic diseases, demographic shifts, urbanization, climate change, etc. These have led to a rapid increase in global healthcare costs. Global healthcare spend rising rapidly at a CAGR of 5.4% over the next five years to \$10 trillion, out of which providers consume around 80%.

Healthcare providers today are undergoing a fundamental shift in how they do business to reduce cost, increase their quality of care, expand healthcare benefits, and navigate new payment models. This massive shift has caused providers to adopt Virtual Care enabled by Electronic Health Records (EHRs), diagnostic and video conferencing devices at customer premises, and effective communication mechanisms. The COVID-19 pandemic has accelerated these trends and put pressure on healthcare systems.

In the next few segments, we shall endeavour to address the challenges faced by CXOs, who are looking to take advantage of technology, specifically,

- How digital transformation of healthcare business models will be enabled by 5G.
- How 5G can be leveraged to improve patient outcomes while opening up new revenue lines and enhance competitive advantage





Turning Crisis into an opportunity - digital transformation in healthcare business models

Virtual care enabled by HD video calls, remote sensor monitoring, medical data transfer, AI-powered assessment apps, and other technological advancements in the healthcare sector are expected to become the new normal.



5G Healthcare market by 2026 - **\$156 Billion**.¹



The global wireless health market is projected to **\$315 Billion** by 2025 - a CAGR of **23.5%.**²



The telemedicine market was estimated to be **\$40 Billion** in 2019 and - CAGR of **15.1%** till 2027.³



Global Healthcare spend growing at a CAGR of **5.4%** expected to reach **US\$ 10 Trillion** by 2022.⁴



Chronic diseases (Heart disease, Cancer, Diabetes) rising rapidly throughout the developed world account to over **80%** of deaths.⁵



Expected rise in life expectancy from **73.5** (2018) to **74.4** (2022) likely to further boost healthcare spending.⁶



COVID-19 like situations will fast track investment and adoption of Tele Health.⁷

Digital in 'Healthcare' is not a thing; it is the 'new way' of doing things

5G, along with its inherent benefits like Ultra-high data rate, Low latency, and High-energy efficiency, are effective healthcare transformation tools.



A 'digital-first outlook' towards healthcare can be instrumental in adapting to the customers' changing needs. With strong inroads already into digital health, it is time for healthcare providers in the UK to augment their healthcare offerings and infrastructure.



Tech Mahindra – End-to-end Solutions provider for delivery of 'Transformative Healthcare Outcomes'

Increasingly, the entire healthcare ecosystem is being pushed towards achieving the KPIs used to measure the efficiency and quality of care provided. These solutions are tools the providers can utilize to achieve those KPIs and drive differentiated business models.

The implementation of the solutions are designed to achieve the following outcomes:



Improved Patient Outcomes



Improved Surgical Outcomes



Better Management of Hospital Assets



Driving Efficiency



Improved Healthcare Access





Below is the high-level view of the end-to-end solutions (E2E) developed by Tech Mahindra in conjunction with our ecosystem partners.

Solution Offering	Real Time Remote Diagnosis in Emergency Care	Real Time Remote Monitoring & Consultation	Tele Surgery	Hospital Asset Management	Digital Supply Chain
Benefits	Improved Patient Outcomes	Improved Healthcare Access	Improved Surgical Outcomes	Enable Asset Utilization	Improved Efficiency
Use Cases	 Emergency Detection In personal cars Drone Based Delivery of Emergency Supplies AR based pre-hospital assessment Patient Monitoring inside Ambulance 	 Tele- Consulting from Mobile Health Unit (MHU) Virtual Care Point Telehealth at Skilled Nursing Facilities Virtual Patient Rounds 	 Duplicating Video on Multiple Moniters at OT Robotic aided & Tele-Surgery AR assisted surgery 	 Patient & Personnel Tracking Hospital Indoor Navigation Equipment tracking & Utilization In-Hospital Door To Treatment Reduction 	 Automated Warehouse Operations Drone based delivery of Urgent Supplies Condition Based Monitoring

Why Tech Mahindra and why now?

With its vast experience in Communications, Engineering Services, Tech Mahindra, along with HCI Group (a global leader in digital healthcare transformation), have created 5G based digital solutions for the ever-evolving healthcare sector. The key focus has been on disruptive innovation, design thinking, and cost optimization.

Tech Mahindra has put together a set of solution packs where TechM would act as a single point of contact who would deliver end-to-end solutions by bringing multiple components ranging from devices to managing the private network.



that includes diverse stakeholders such as solution providers, healthcare systems, OEMs, cloud hosting providers, telecommunication providers, and medical equipment & device manufacturers. We can be the Solutions Integrator (SI) for realizing healthcare use cases through 'Subscription-based Enterprise

 Solution As A Service - Solution Packs on a Subscription basis

 Single Window Solutions Integrator and Operator

Stay ahead of the curve by accelerating your healthcare business's digitization through reliable 5G service offerings from Tech Mahindra, the experienced and preferred 'Solutions Integrator'.

References

- 1 Ericsson Insights and Reports
- 2 Grand View Research Wireless Health Market
- 3 Grand View Research Telemedicine Market
- 4 Deloitte 2019 Global health care outlook PolicyAdvice - The State of Health Care Industry (2020)
- 5 WHO Preventing Chronic Diseases PAHO - Chronic Diseases in the Americas
- 6 Deloitte Outlook 2019
- 7 World Economic Forum Telehealth could be a game-changer in the fight against COVID-19

Tech Mahindra

www.techmahindra.com
 connect@techmahindra.com
 www.youtube.com/user/techmahindra09
 www.facebook.com/techmahindra
 www.twitter.com/tech_mahindra
 www.linkedin.com/company/tech-mahindra