OneWeb Brdy

USE CASE

Space-based connectivity and healthcare

Transforming healthcare

Connection everywhere changes everything OneWeb

Digital transformation in healthcare is the positive impact of technology in healthcare.

Space-based connectivity and healthcare

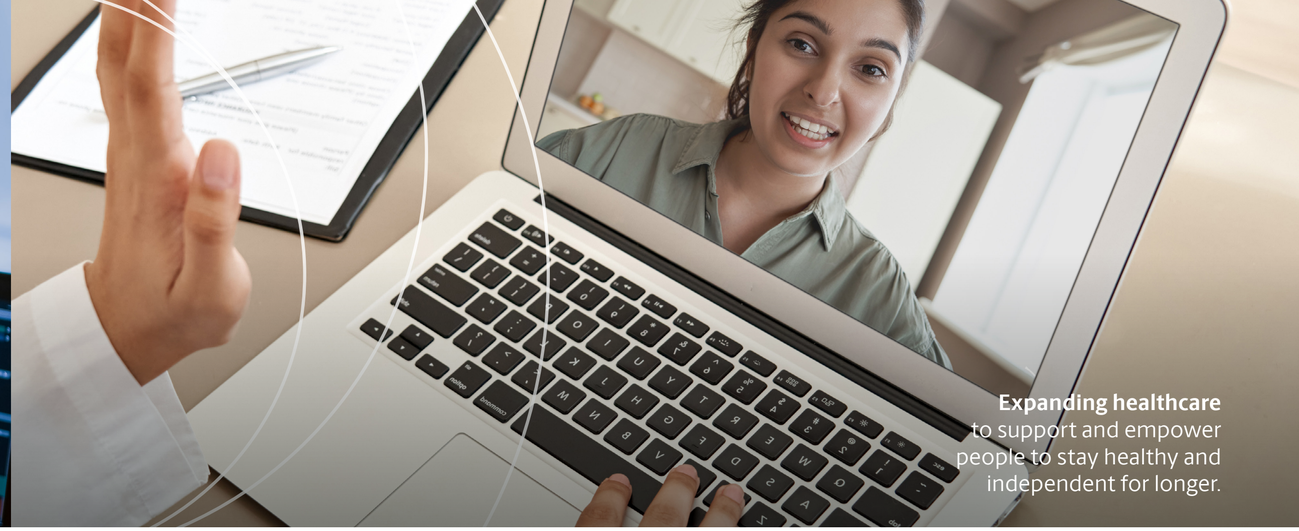
Transforming healthcare

Digital technologies are powering transformation in the healthcare industry. From caring better for an ageing population to enabling greater self-care and expanding access to healthcare services, technology is improving patient outcomes and helping providers make cost savings.

Modern healthcare relies on technologies to deliver a range of services, such as high-quality digital imaging and analysis, remote patient monitoring, and health support for home workers.

New healthcare solutions are emerging all the time. The Internet of Things (IoT) is transforming healthcare: wearable devices like smartwatches, fitness trackers and electrocardiogram (ECG) monitors can gather data and transmit it to medical professionals. Artificial intelligence (AI) and internet-enabled virtual reality (VR) headsets are being used in healthcare to give doctors real-time views of emergency situations.

Patients have become increasingly accepting of remote healthcare services and telemedicine. Digital technologies can also help reduce unnecessary hospital visits and tie up resources that could be used for more urgent cases. Ultimately, connected healthcare means better, more efficient access to treatments, less wasted time, and lower costs for the industry.



Expanding healthcare to support and empower people to stay healthy and independent for longer.

Connectivity challenges

The healthcare industry generates vast amounts of patient data, which needs to be accessed locally and in the cloud to enable informed, real-time decisions by health professionals.

Furthermore, many healthcare facilities located in rural areas still lack infrastructure, skilled staff, and on-demand access to quality healthcare services that patients need. Connectivity can enable them, but it must be reliable and geographically far-reaching.

Business continuity is a significant challenge for healthcare providers, which are frequently a target for cybercriminals. These attacks can disrupt key medical services, making fully resilient networks the key to continuing operations where possible.

Connectivity solutions

Low Earth Orbit (LEO) satellite connectivity can give healthcare providers the network they need to ensure operations stay up and running no matter where they are located. It can provide primary connectivity or back-up to support main sites and headquarters. With a target latency of less than 70 milliseconds and downloads exceeding 100Mbps, it can support essential, data-heavy systems and solutions.

Enhanced opportunities

Telemedicine

With an ageing population unable to travel easily, and many more people today working remotely, remote healthcare has become increasingly vital. OneWeb satellite connectivity can offer high speeds and low latency, with quality of service (QoS) optimized for video to enable video consultations and telemedicine to any location. Healthcare professionals can quickly and securely share large files.

Enhanced patient and facility monitoring

Healthcare facilities can be equipped with networks of sensors that can monitor the status of patients using IoT devices that send alerts if irregular readings are recorded. This is ideally suited to large hospitals which have many patients to monitor. Sensors can also track and report on numbers of available beds in hospital wings or be used to send test results directly to healthcare professionals.

Connecting first responders

Connectivity also helps patient care start before they have arrived at the hospital. Ambulance and paramedic units equipped with IoT devices can be connected remotely to doctors or surgeons, meaning early diagnosis and potential treatment while in transit.

Resilience

OneWeb satellite connectivity can provide either primary connectivity or back-up to fixed broadband and ensure healthcare facilities stay connected to patients and one another. It means that healthcare facilities can stay connected and give care to patients wherever they are, without worrying about the network dropping and patients being placed in jeopardy.

Big data can provide important benefits for the healthcare industry.

Enhanced and new applications

Connecting private and public health

Enable collaboration between private and public healthcare facilities, including sharing patient records, referrals, consultation reports and X-Ray images.

Real-time data analytics

Improve patient care and health facility management processes by monitoring and analysing data in real-time.

Enabling field staff

Empower healthcare staff to make visits to remote patient locations, removing the need for hospital visits or first responder action.

Supporting remote working

A growing workforce of healthcare professionals needs reliable bandwidth to support their data needs.

Improved resilience

Additional primary, back-up, and hybrid network solutions can reduce the risk of failure along critical data paths.

Augmenting connectivity

Alternative healthcare centres are increasingly being developed as alternatives to traditional hospitals, and can offer health services closer to people's homes with reliable connectivity.

Workforce management

Healthcare staff require management and regulatory oversight wherever they are based. Connectivity can ensure appropriate monitoring and maintenance of standards of remote health workers.

Connected CCTV

Cameras and monitoring systems can ensure safety and security of patients in healthcare facilities wherever they are located.

Enhanced patient experience

Collect and analyse patient data in real-time to enhance services and improve satisfaction on an ongoing basis.

The OneWeb system will deliver global low latency coverage by end of 2022.

Space-based connectivity made easy

OneWeb is powering the digital transformation of healthcare providers everywhere with flexible, scalable, and reliable connectivity plans designed to enhance existing communications solutions.

Access OneWeb connectivity with a new class of user terminal that brings function, design, and easy-to-use LEO technology together. Simple to order, deliver, install, and maintain, for primary, backup, and hybrid network solutions that meet the demands of today's digitally-powered **healthcare**.

OneWeb

Global space-based connectivity

Connection everywhere changes everything

Brdy

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