Wavenet
Health Tech Solutions

Internet of Medical Things (IoMT)

The healthcare industry today is seeing improved quality and better access with the payer-provider collaboration at the heart of the consumer-centric model. Multiple Internet of Things (IoT) devices are gathering and sharing information to Cloud, enabling the collection, recording and analysis of data streams fast and accurate.
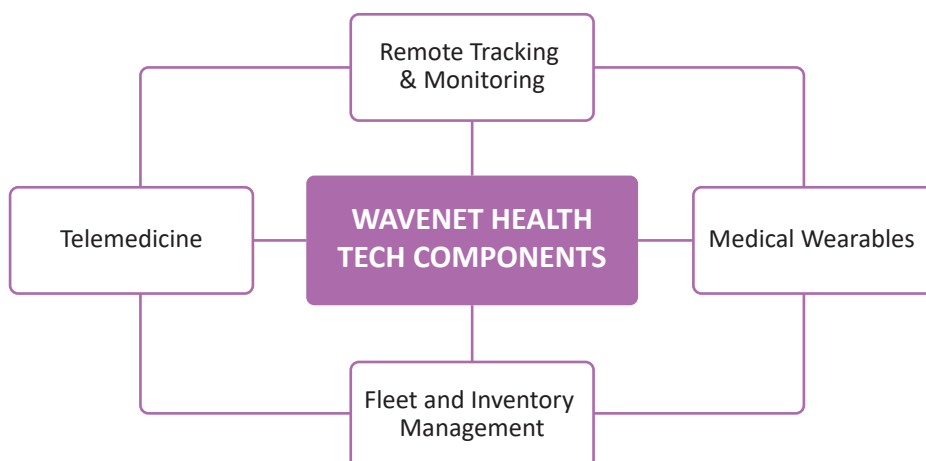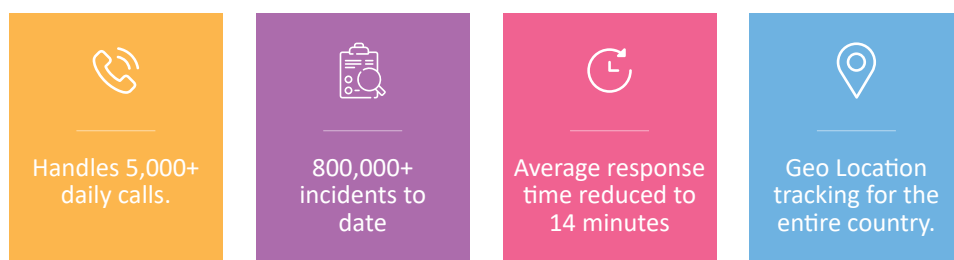
This has resulted in a healthcare ecosystem with interconnected stakeholders. Global Wavenet, as a world-class technology provider has embarked on the IoMT journey to provide smart healthcare systems, to move the healthcare technology dial from a traditional diagnosis and treatment process to a more transitional and wholistic Preventions-Treatment-Wellness-Care Model.

BUILDING IoMT CAPABILITIES IN MEDICAL AND EMERGENCY SERVICES

Wavenet's Emergency Response Management System (ERMS) is a state-of-the-art emergency response management system developed to handle emergency vehicle units in real-time. It accurately locates the victim's location through Google's geo-location tracking capability, provides the fastest route to reach the location, and once the unit reaches the patient, the unit is then automatically guided to transfer the patient to the nearest hospital or medical centre.

Use Case:

Wavenet ERMS, today, powers Sri Lanka's national ambulance service and was highly recognized by the Sri Lankan Government due to its exceptional capability in assisting to improve the country's emergency ambulance dispatch system and saving lives of many citizens of Sri Lanka.

Handles 5,000+ daily calls.	800,000+ incidents to date	Average response time reduced to 14 minutes	Geo Location tracking for the entire country.

Remote Tracking & Monitoring

Telemedicine

WAVENET HEALTH TECH COMPONENTS

Medical Wearables

Fleet and Inventory Management

FLEET & INVENTORY MANAGEMENT

The ERMS system is equipped with an advanced fleet management module to keep track of multiple emergency fleets, help in maintaining stocks of various equipment inside fleets and to assist in maintaining up-to-date administrative records of units in order to efficiently respond and react during emergency situations. The system also has the capability to generate detailed reports to help analyse and report on past data of all recorded incidents.

Wavenet's ERMS comprises of an Inventory Management module which allows Emergency Medical Technicians (EMT) in ambulance to request medical stocks form warehouses. It also allows regional distribution of inventories as per the created request from warehouse and has the capability to check and accept received material and return expired material/medicine back to the warehouse.

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THE IoMT SPACE AT WAVENET

The use of IoMT spans across several key areas of our work at Wavenet, and our Research and Development teams are heavily involved and equipped in delivering high standards of quality in our Health Tech Solutions. With IoMT, Wavenet is able to deliver a technology that delivers ROI and adds value to our customer solutions required in the following areas.

REMOTE TRACKING & MONITORING

Ability to monitor patients or victims remotely is a necessity today due to unpredictable emergency situations arising around the world today. The remote tracking capability of Wavenet ERMS can assist the emergency ambulance system to locate victims within a short time and transfer them quickly to the nearest hospital to save hundreds of lives.

Imagine having the capability to send real-time information such as the victim's heart rate, live camera feeds of the patient with visual status whilst on their way to the hospitals.

With a single click of a button imagine sending this information to the receiving hospital's emergency care unit to be able to understand the criticality of the patient that it to arrive at the care unit, and to prepare in advance with all necessary equipment and services before the patient arrives, to be ready to provide immediate assistance. Every second matters!

TELEMEDICINE

With the uprising of the COVID-19 pandemic, it is no secret that every single country in the world is experiencing travel restrictions and lockdowns. Day-to-day operations have been disrupted massively and people are finding it difficult to attend to their healthcare and medical routines more frequently.

Telemedicine is another key IoMT capability that Wavenet is investing in, to digitalize everything related to medical services such as developing systems that can handle doctor appointment bookings, video consultation, mobile medical test requests and report delivery, online medical drugs purchases and delivery and everything else that is covering the entire digital healthcare landscape.

MEDICAL WEARABLES

In a world where everything is now at the hands of a single click of a button, why not also address all our medical and emergency needs through technology use cases with wearable devices which are supported by IoM?

Think of a wearable device that can be used by a senior citizen or a child which triggers an alert during a medical or any other critical situation and notifies the situation to their next-to-kin while triggering a call for an ambulance to be dispatched.

In a hospital, it would be possible to provide a paperless or document-free mechanism to execute smooth patient operations process efficiently by offering a simple wearable device at the time of registration at the hospital. The doctors and medical staff will then be able to access the patient's records and real-time information through a digital display by connecting remotely to the patient's wearable device.

MEDICAL WEARABLES

The world is shifting towards one whole connected network through internet which improves efficiency. The medical services industry will no longer require queues, bookings or time-consuming operational processes, and instead, all will be at the fingertips of those who use a smart IoMT technology infused system which makes everything just a click away.

Speak to Wavenet about how you can incorporate smart IoMT technology in your business and embark on the future of advance healthcare. Wavenet will ensure our state-of-the-art Healthcare IoMT solutions will be architected to suit your business needs by our experienced software architects, and our business solutions teams will work with you to ensure that a wholistic solution is offered to meet your corporate objectives and future goals that reap higher ROI though your business technology investments.

Get in touch with us today by visiting www.globlawavenet.com

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Global Wavenet is a leading telco software, systems, and infrastructure solutions provider to wireless and wireline carriers, with core expertise in delivering carrier focused solutions specializing in digital transformation of BSS and VAS platforms through an extensive portfolio of messaging, voice, media, API orchestration and rich digital channel enablement. Wavenet has long-standing expertise working with multinational companies around the world, and our award-winning technology solutions portfolio assists Wavenet clients to stay ahead in the market and gain a competitive edge, while optimizing revenue and ROI.

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