

Life it is
Live it



WHITEPAPER v1.0

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Abstract

As technology and science continue to innovate, all major industries are looking to come up with new ways to bring exciting concepts to life.

As e-commerce became mainstream, this may have been largely attributed to the warehousing strategy developed by Amazon. This made delivering products and services to people globally in the most efficient and timely manner.

Healthcare has seen marvelous strides in the past few decades. Our average life expectancy has been higher than it has ever been.

The time in human history when we witnessed the most number of newborn deaths was in the 1900s. About 40% of all newborn babies would die within the first year. This continued for decades until it was discovered that the doctors who were delivering the babies were also the ones who carried out an autopsy on the dead patients. It was found out that simply by washing their hands, there was a 90% drop in the number of newborn deaths. This is how the importance of sanitation was discovered.

Over the years, the field of medical science has seen astronomical advances, we have been successful in eradicating horrific diseases like plague, small-pox, and polio from our planet.

Air Pollution

As air pollution and global warming continue to increase at an accelerated phase, taking care of one's health and well-being has become paramount. The statistics are alarming, nearly 4.6 million people die each year from air pollution. Imagine the suffering faced and then losing your life by simply breathing. [2]

Heart Diseases

Heart diseases are also on a steep rise, millions of people suffer from heart-related ailments. 17.9 million people died from heart disease in 2016 alone, this accounts for 31% of all deaths globally. This data serves as a reminder of the importance of monitoring our health and well-being. [3]

This whitepaper discusses the challenges that the health and wellness industry is currently facing. It talks about how MediLiVes is revolutionizing the way we look at healthcare.

Introduction

Now that we have had the chance to discuss the looming healthcare problems that our planet and humankind is facing, let us look at the possible solutions.

Telemedicine

Telemedicine is the utilization of information technology and telecommunication to provide remote health care. Telemedicine has been around for quite some time. Due to the increased adoption of technology by the general population, its application in medical science is growing at an exponential pace.

One of the most important developments in the field of medical science is Telemedicine. As our technology becomes portable, a multitude of possibilities lies ahead. We can now provide healthcare services and consultation to remote areas on our planet. We can help people in urgent need of first-aid by conveying instructions over video conferencing and phone calls.

We are living in an age where a patient no longer has to physically go to the doctor for sharing medical reports and history of illness. This helps doctors and patients to cut down the overall costs associated and the time required for providing assistance and cure. Another benefit of telemedicine is that the healthcare providers are safeguarded from contracting the diseases by isolating them from the contaminated environment.

Computer programs that are based on Artificial Intelligence (A.I) and Neural Networks are quickly becoming so proficient that they can diagnose health conditions better than even the most talented doctors. They can even predict the onset of diseases a patient may face in the future.

In essence, telemedicine has transformed our approach towards medical science. It is helping us change our strategy towards saving lives in times where critical care and emergency situations call for prompt action.

Telemedicine can also be used to warn remote regions about natural calamities and the spread of dangerous diseases, prevent outbreaks.

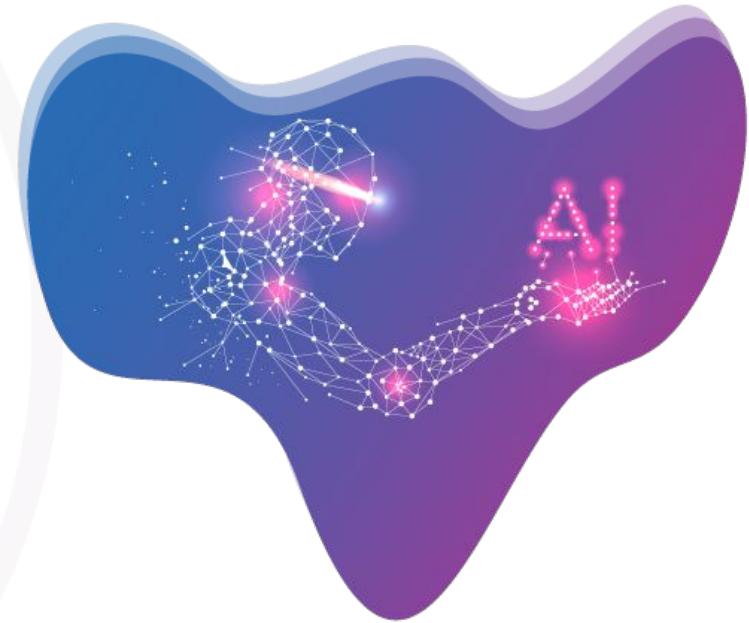
About MediLiVes

Medi-Science International Ltd is an official provider and distributor of Medi-Science technology called Analytical telemedicine system MediLiVes. Medi-Science International Ltd is also the official entity involved in the preparation and execution of the MediLiVes IEO project. It is an innovative company offering unique, new-generation telemedicine solutions. Telemedicine, based on technology that enables a patient's health condition to be monitored from a distance, is one of the fastest-growing industries in the world.

The versatile nature of our core product means that it can find abnormalities not only in cardiology but also in diabetes, dietetics, civilization diseases, and chronic illnesses.

There are countless examples around the world where comparable achievements have required many years of work. Our effectiveness results mainly from the conscious use of the latest Microsoft technologies such as cloud computing, artificial intelligence, and cross-platform software.

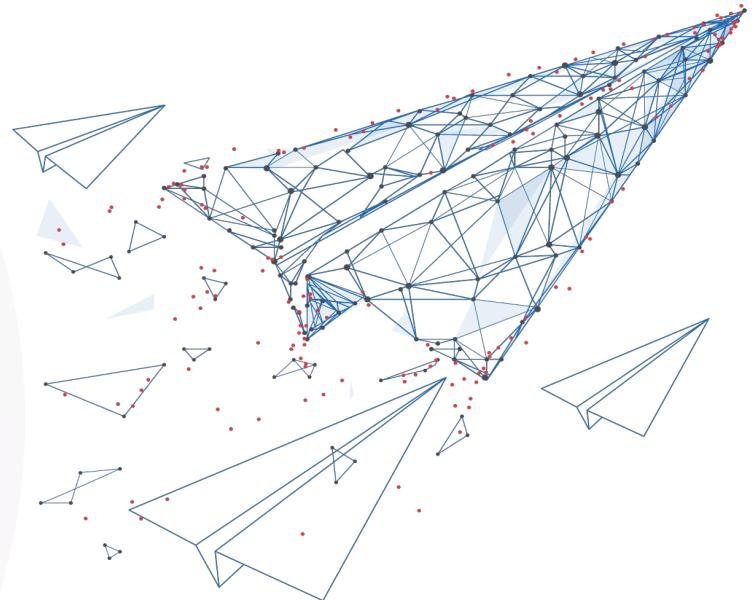
Thanks to numerous visits at scientific and industry conferences in The Middle East, London and Europe, Russia, Africa, and Asian countries, United States and many more we have built our position as experts in the telemedicine sector.



Our Mission

Life it is. Live it.

Our mission is to develop a futuristic cutting edge telemedical system equipped with the latest technologies like AI (artificial intelligence), AR (augmented reality), big data and blockchain. This will enable people to have control of their health, health-records and managing their well-being. Our aim is to provide equal access for everyone to the medical professionals in the world. In collaboration with global healthcare organizations, create MediLiVes healthcare and diagnostic centers which are easily accessible to all mankind.



“The purpose of our healthcare data analytics: using data-driven findings to predict and solve a problem before it is too late.”

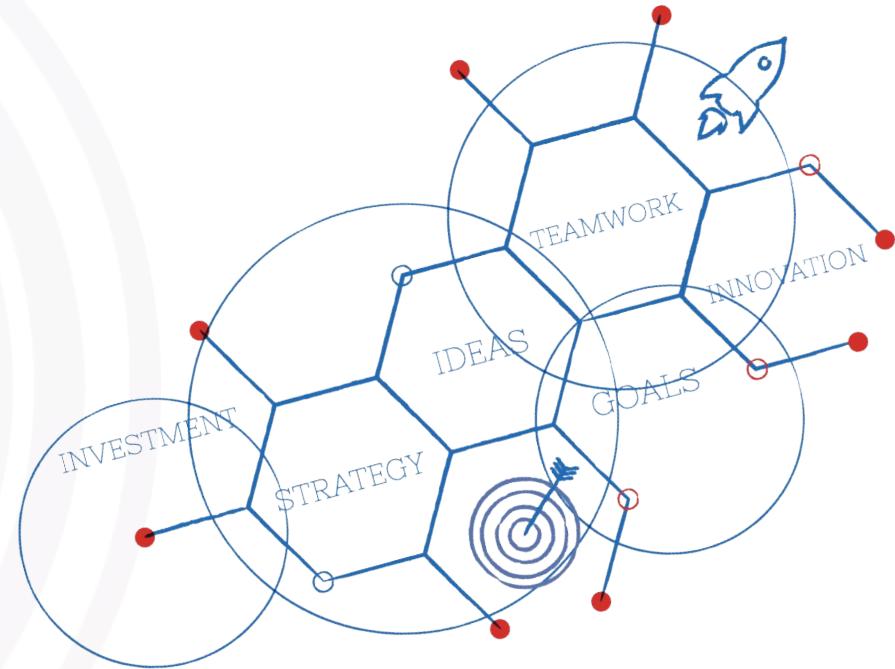
Our Vision

Our vision may sound like a dream ... but it is a reality !

MediLiVes vision is to create a global healthcare software solution where everyone has the opportunity to diagnose themselves with and access to the best healthcare providers regardless of social status, economic position, or political views.

It is possible to live longer and prevent ourselves from future civilization diseases if we start today. Specialists are present across the globe - we aim to provide access to the best scientists, doctors, and healthcare providers to each and every human being.

Our unique solution based on AI predicts your future health status and if any upcoming medical emergencies. Based on the AI predictions, the platform recommends health diagnostics and records the diagnostic results straight from the diagnostic devices to improvise future health stats.

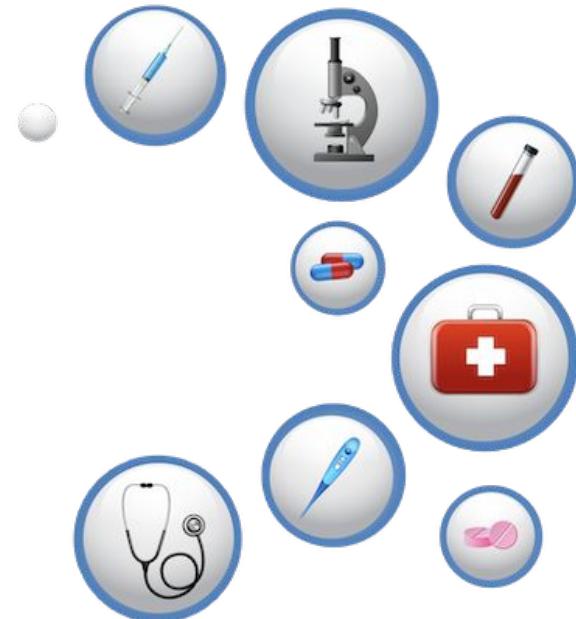


Evolution -Medi-Science

"The application of big data analytics in healthcare has a lot of positive and also life-saving outcomes."

As medical science and technology continues to evolve, we find that managing the complexities of the collected health data has become a challenge. The data is often stored in closed ecosystems such as physical files and records. This makes them significantly harder to access and analyze.

The data that is used by the hospitals, which is often not shared with the patients is an important component of our technological dispensations. This makes the prediction and diagnosis of future diseases difficult. If healthcare providers and patients have a complete record of their medical history, the process becomes quicker and more streamlined.



Integration of Big Data and AI

Big data applied to healthcare, will use specific health data of a population (or of a particular individual) and potentially help to prevent epidemics, cure disease, cut down costs, etc.

The medical community is on board with innovations in big data. However, the implementation is far from perfect. The current solution contains non-relational databases that merge information of patients from multiple sources, providing actionable metrics. This increases the need for an organized patient-information system.

Relational databases have been traditionally used to store and for accessing a patient's health data. Though the problem with this strategy is that relational databases are ill-equipped at handling unstructured information. A couple of examples of unstructured data are clinical notes and medical transcripts prepared by health providers. As of 2018, a minority of health care providers have been able to transition from relational to non-relational databases.

This was carried out using traditional Electronic Health Records (EHRs). Most organizations that have been successful in this implementation are significantly bigger and are financially sound.

Non-relational databases can be used to fully utilize all the available patient data that is often lost after being recorded. It has to be individually reviewed to convert it into usable data. If these details are readily available, it will benefit equipment and drug manufacturers by giving them statistics on the use of their medical products. Primary health care providers will also benefit from this implementation as they can prescribe medicines and tests more efficiently to their current patients.

Developed countries such as the United States has already begun the deployment of advanced non-relational databases. To make this project a success, it is important that the patients are comfortable with sharing their medical information. While these patients are mostly on-board when the information is being shared with caregivers, most people are unwilling to share this data with third-parties such as drug manufacturers.



Do you wonder ...
Why is it always called a doctor's practice?

Due to the limited availability of patient data, drug manufacturers have to take the alternate route, spending thousands and even millions of dollars on research and development. These increased costs are then passed on to the consumers in the form of increased prices.

It is essential that the patients are educated on the benefits of sharing information. This will result in reduced costs for the manufacturers as well as the patients. This free-flow of information will help advance medical science and will help healthcare providers develop a dedicated service delivery plan. If the patients understand the benefits, they will be open and willing to share their health data.

As the adoption of electronic health records grows, it is expected that more medical providers will volunteer to be a part of this innovation. Although it will require a significant investment, it can single-handedly improve the effectiveness and efficiency of the existing databases.

The Challenges

Protecting Public Health Data

Major healthcare advances incorporate Internet technologies. The industry is expected to grow to about \$300 billion by 2020. However, this convenience also extends to computer hackers. As the field of Internet-connected medical device field matures, malicious cyber-attacks are bound to increase.

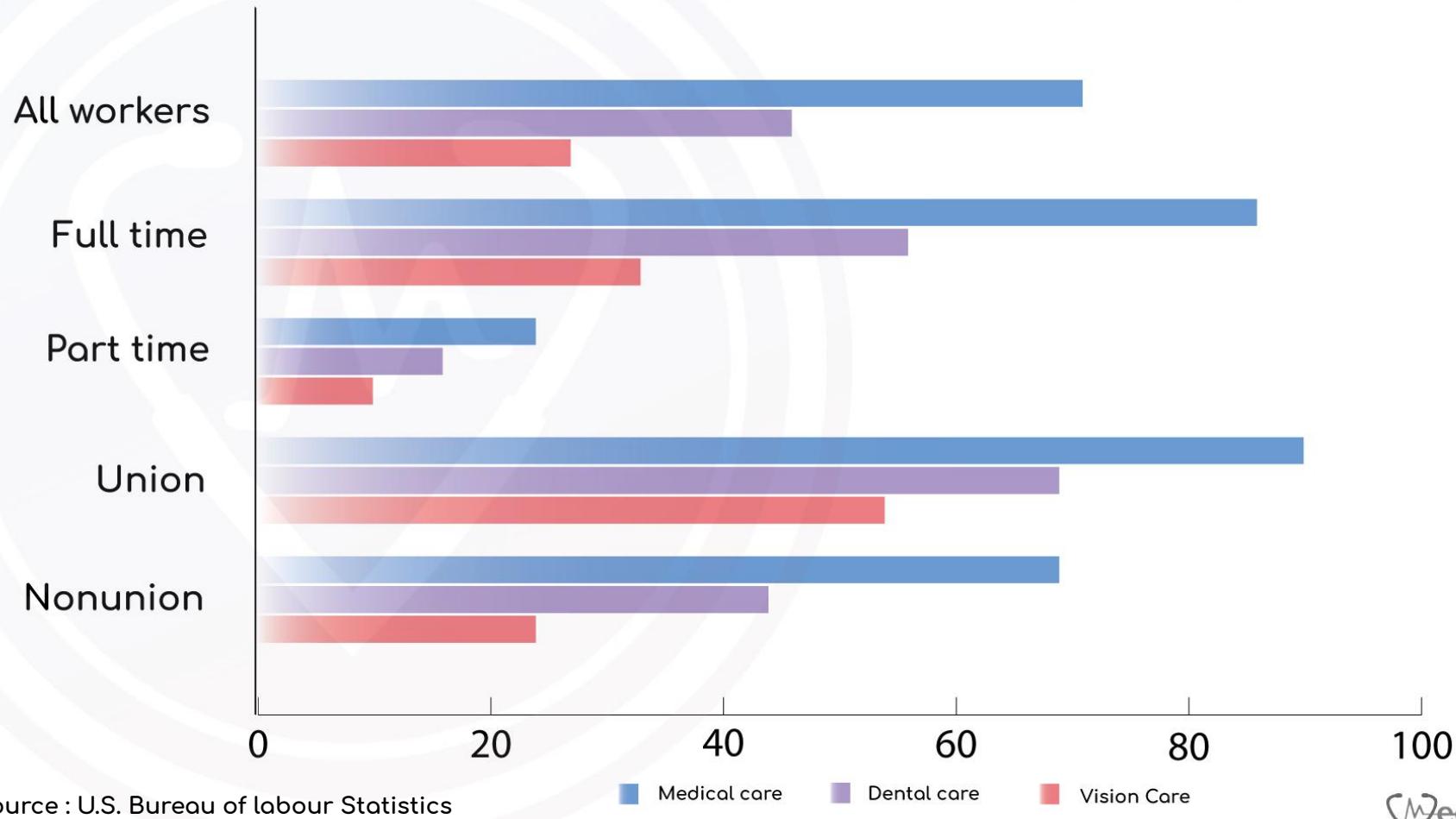
In 2015, the United States government issued a warning that hackers can instruct infusion pumps to deliver lethal medication doses. This disclosure highlights the possibilities that malicious programmers have at their disposal. They can remotely hack medical devices and cause direct harm to patients. Furthermore, hackers can use these devices to infiltrate care provider information networks and steal clinical trial and research data.



“Cardiovascular diseases (CVDs) are the number 1 cause of death globally: more people die annually from CVDs than from any other cause.”

- WHO

Percent of private-industry workers with access to health care benefits by worker characteristic



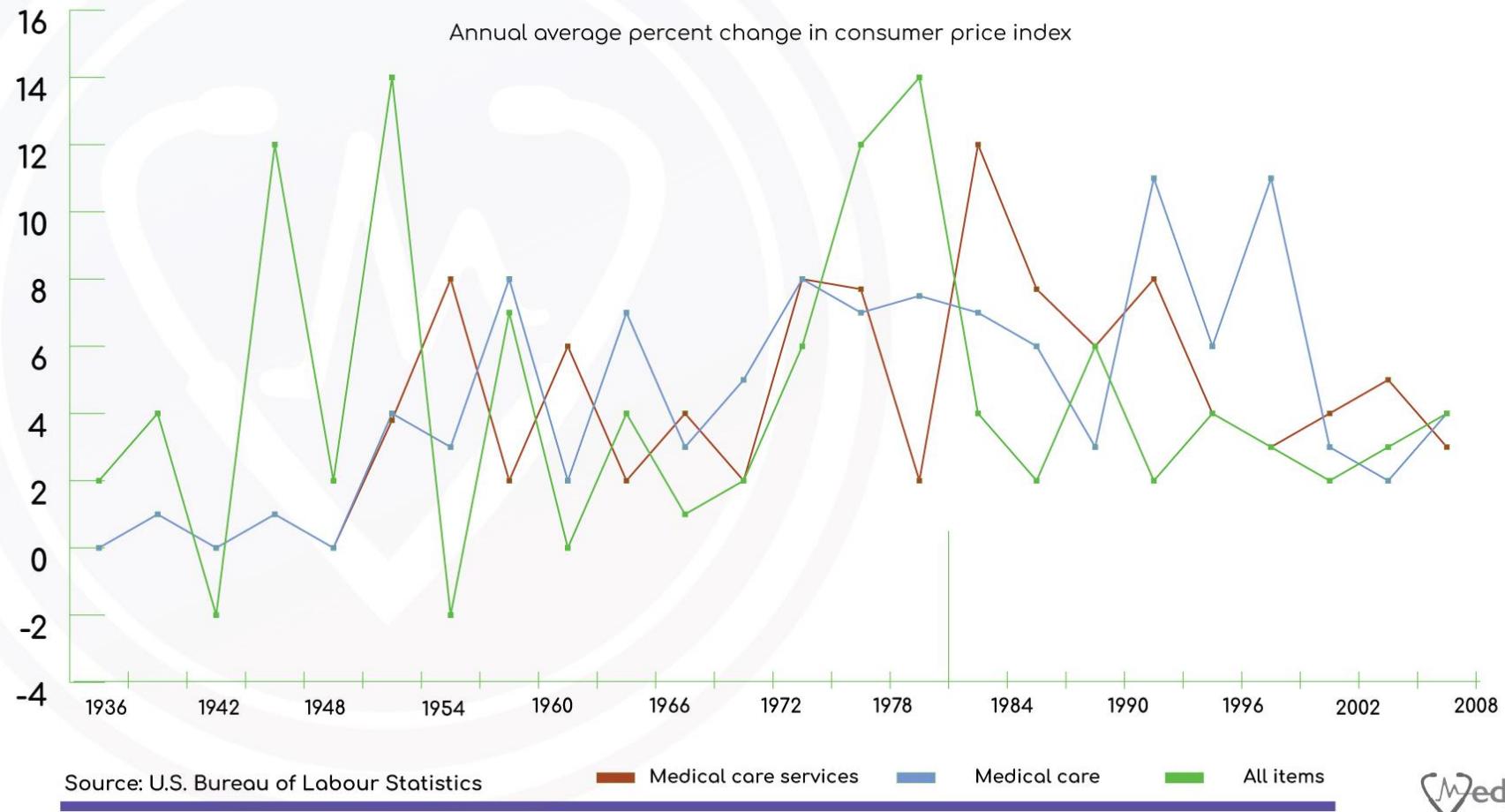
Source : U.S. Bureau of labour Statistics

Medical care

Dental care

Vision Care

Medical care services, medical care, and all items



Key Facts

by World Health Org. (WHO)

- Cardiovascular Diseases (CVDs) are the number 1 cause of death globally: more people die annually from CVDs than from any other cause.
- An estimated 17.9 million people died from CVDs in 2016, representing 31% of all global deaths. Of these deaths, 85% are due to heart attack and stroke.
- Over three-quarters of CVD deaths take place in low- and middle-income countries.
- Out of the 17 million premature deaths (under the age of 70) due to noncommunicable diseases in 2015, 82% are in low- and middle-income countries, and 37% are caused by CVDs.



- Most cardiovascular diseases can be prevented by addressing behavioral risk factors such as tobacco use, unhealthy diet and obesity, physical inactivity and harmful use of alcohol using population-wide strategies.
- People with cardiovascular disease or who are at high cardiovascular risk (due to the presence of one or more risk factors such as hypertension, diabetes, hyperlipidemia or already established disease) need early detection and management using counseling and medicines, as appropriate.

It is recommended that organizations should bear the expense of segregating external consumer medical devices using internal devices on their enterprise networks. This helps in limiting intruder access.

A PwC Health Research Institute poll reports that over 60-percent of respondents prefer device security over simplicity. The medical devices that are engineered without security protocols place patients and healthcare organizations at a huge risk. Organizations that are moving towards technological development will incur added expenses implementing these safeguards. The medical community needs to borrow practices from secure industries, such as banking and government organizations. If left unchecked, these ongoing risks may cause legislators to shift from making recommendations to enacting full regulatory medical device security mandates.

The US Food and Drug Administration (FDA) encourages medical device manufacturers to limit equipment access to non-trusted users. Additionally, the administration requires manufacturers to report and repair faulty devices promptly.

Until now, hackers have not compromised any medical device in a way that caused a death. However, cybersecurity analysts point out an attack against an unprepared care provider will devastate an organization in multiple ways. In 2014, nearly all major health networks fell victim to security breaches. 20-percent of those attacks cost more than one million dollars in recovery expenses.

Information technology experts suggest that medical organizations should be careful when planning the structure of their proprietary networks.

Enter MediLiVes

MediLiVes' approach to healthcare is through an analytical telemedicine system. The MediLiVes analytical telemedicine system is built on years of research and innovation. This tool can be used by patients for recording the medical test, while doctors can use these tests to diagnose the patient's health remotely.

The data analysis is supplemented with a built-in smart algorithm which helps in the prioritization and interpretation of the results. It also notifies the patient the need for consulting with a medical specialist.

This system is available on a wide variety of platforms including Android, iOS and Windows 10. MediLiVes is designed from the ground up to be a modular system.

This means that it can function even without the implementation and installation of the complete solution. Furthermore, the data obtained is stored in the cloud in an encrypted form. This protects the patient's personal and confidential information from potential data breaches.

Our application is designed to function online as well as offline. When an internet connection is absent, which is usually the case in remote areas, patients and doctors can still review the data obtained. This allows the analysis of data from virtually any location on earth. Patients can also share their health data and medical tests with doctors for further consultation and analysis.

Once a specialist has reviewed the medical reports, all measurable aspects of the health report are automatically identified by MediLiVes's algorithm. The collected data can now be presented graphically in the form of charts and tables.

As new data is added to the database, statistics become even more useful, making the specialist's work easier and streamlined. This allows healthcare professionals to provide a faster diagnosis which facilitates the speed at which the prognosis proceeds, this greatly boosts the chances of cure and survival.

The final result is a professionally prepared document which contains all the test reports, investigations and findings from the available data.

Indeed, for years gathering huge amounts of data for medical use has been costly and time-consuming. With MediLiVes always-improving technologies, it becomes easier not only to collect such data but also to convert it into relevant critical insights, that can then be used to provide better healthcare. The purpose of our healthcare data analytics: using data-driven findings to predict and solve a problem before it is too late, but also assess methods and treatments faster, keep better track of inventory, involve patients more in their own healthcare provisions and empower them with the tools to do so.



Continuous Research-Based Developments

Medi Science will form Strategic Alliances with related organizations such as the:

- Universities globally;
- Telemedicine organizations;
- Manufacturers of medical equipment;
- Different arms of UN and NGOs, such as the UNICEF, Doctors without Borders just to mention but a few.

The aims of such Alliances are to:

- Bring about a continuous and never-ending improvement in the healthcare sector;

- Train, develop and educate junior doctors and other medical professionals in bringing about improvement in every aspect of diagnostic and monitoring of patient's healthcare. Such research centers at Universities will be funded with annual grant awards by Medi Science in order to further advances in our healthcare systems globally

MediLiVes System

MediLiVes Analytical Telemedicine System

Here are the products categories in which the MediLiVes system is divided:

1. MediLiVes Care - application for patients
2. MediLiVes System - application for medical professionals

There are two more product that supports the aforementioned systems

1. MediLiVes AR - augmented reality application
2. Server - 24/7 cloud-based server responsible for data encryption and harvesting from telemedical devices



MediLiVes Token

We built the MediLiVes Token to focus on healthcare services. This token enables people to purchase services in an easy, efficient way. All users will be able to buy services regardless of physical borders and even donate medical exams for people in need. The MediLiVes Token will also allow users to purchase telemedical devices as well.

MediLiVes is a brand new crypto-economic tool for telemedical purposes. It will be used by patients and medical specialists. This secure token will be utilized for various medical services.

All participants should use MediLiVes tokens to gain access to MediLiVes systems. The token will enable transactions of health-related services between consumers and medical professionals/facilities. Our products will benefit investors in multiple ways, more information coming soon.



We created our own ERC20 token to reward people who use it on the platform. This means that if someone holds more than 10,000 tokens on the platform, then they are entitled to discounts. Thus, everyone who decides to store his funds in tokens will reap the benefits. This token is necessary for the platform as users will be able to use fiat money as well, without the discounts. We are building a community around this token. Anyone who holds more than 10,000 MLIV tokens, is entitled to 20% discount on the products or services offered on the platform. When they use the discount facility, funds cannot be withdrawn for the next 4 weeks.

Holders of MediLiVes tokens cannot sell their tokens within the first 6 months on the date is listed on the exchange. This is part of the conditions of purchase. However, they will be entitled 2% per month of the total tokens held for up to a period of 12 months.

Prototype & POC

Introduction

MediLiVes is already working AI-based analytical telemedicine system. It is an innovative tool that enables patients to record the results of medical examinations and, as a result, obtains quicker analysis by specialists. Our telemedicine equipment is certified by specialists and approved organizations with the hallmark for quality assurances, guarantees and warranties such as CE, FDA, and other relevant recognized authorities.

Data analysis is performed based on intelligent algorithms that interpret and prioritize results requiring immediate intervention by medical professionals.

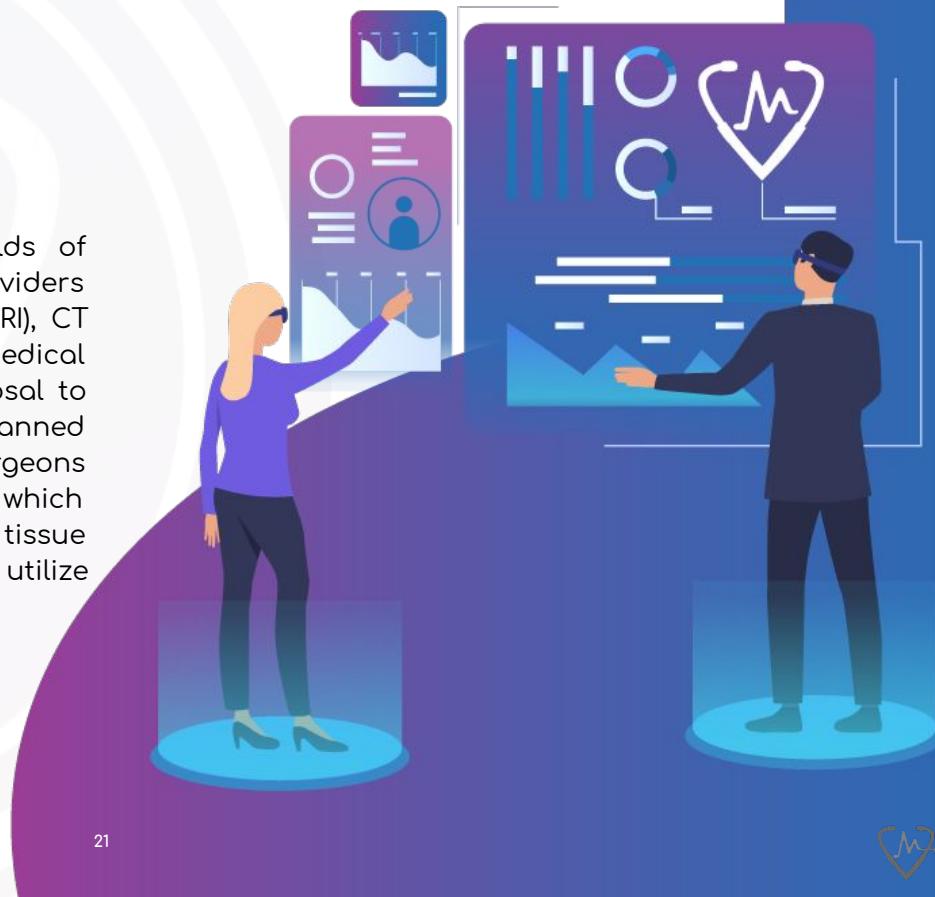
MediLiVes is a software developed by Medi-Science with our global partners known in the industry with a wealth of experience and expertise in the medical arena.

We're looking to build the largest collective community for healthcare providers and users that collaborate to optimize global health for everyone in need. We are focused on improving the system so that more lives can be saved. We believe that the foundation laid down by MediLiVes has the potential and possibility to prevent, manage, monitor and diagnose most diseases in the next decade. The advancements in computing power, machine learning, artificial intelligence has enabled us to build the future of modern healthcare services.

Our mobile app allows physicians, medical specialists, facilities, and nurses to offer their services for patients. This enables direct transactions between consumers and service providers.

MediLiVes AR

MediLiVes- AR prime application lies in the fields of radiography and surgery. It helps healthcare providers visualize scans of magnetic resonance imaging (MRI), CT tests and even echocardiograms in 3D. The medical professionals have plenty of options at their disposal to study the organ thoroughly. For example, the scanned organ can be rotated and inspected, which helps surgeons plan for the invasive procedure, devising a strategy which results in smaller operating times and reduced tissue damage. The best way to experience and utilize MediLiVes-AR is through the app that allows viewing renders in Augmented Reality (AR).





MediLiVes-AR (Augmented reality)

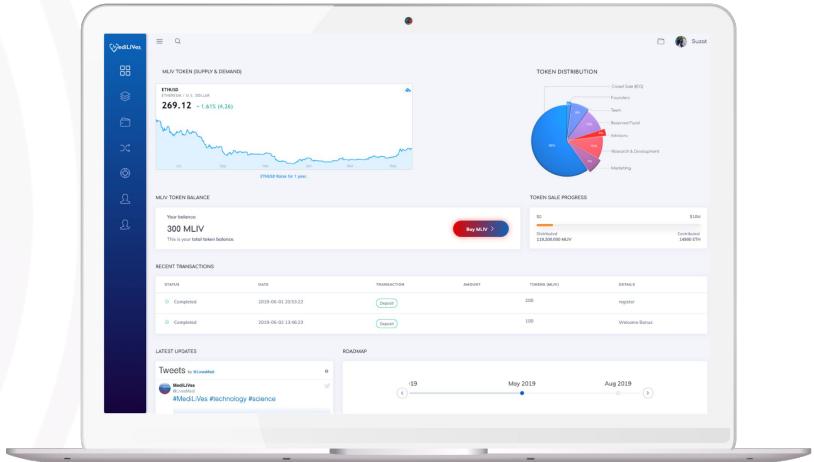
MediLiVes feature responsible for advanced visualization of scans from 3D medical imaging (computed tomography, rotational angiography, magnetic resonance or echocardiography).

A specialist, namely radiologist, physician, surgeon or other clinicians, has the facility of rotating, looking inward and looking through the scanned volume, for a pre-operative and intraoperative scenario. The current version of MediLiVes-AR module performs a volume rendering with a color transfer function and advanced shading. The content can be displayed on a MediLiVes-AR device in real-time using any standard Wi-Fi connection.

MediLiVes Platform

The main focus for these modules is cardiological diagnostics. It also has the ability to verify a patient's test results in close to real-time. This enables doctors to regularly monitor the patient's vital health data. This includes the state of the patient's diabetes, high blood pressure, fever, tachycardia, or cardiac arrhythmias. The app can automatically generate alarms in case of life-threatening situations.

The feature that separates the MediLiVes System from MediLiVes Pro is the facility of managing multiple users of system and institutions. This allows a system administrator to assign doctors and patients to specific locations or branches within any medical facility.



MediLiVes Apps

Tests that can be recorded in this application:

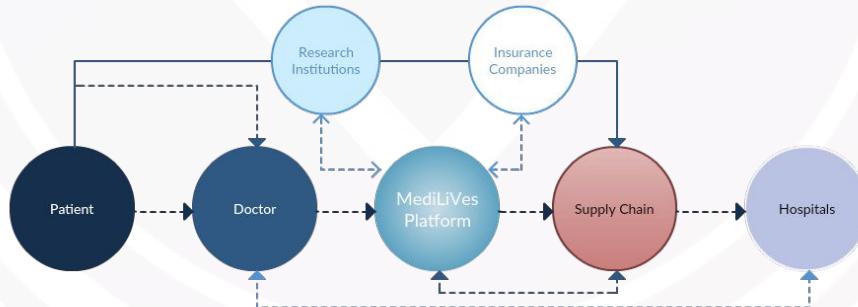
- ECG/EKG (electrocardiogram)
- Diabetes
- Home dialysis
- Spirometry
- Pulse oximetry
- Lab Tests - Cholesterol, morphology, urine
- Temperature
- Weight
- Blood sugar level
- Blood pressure
- Monitoring of daily intake of fluids/foods
- Body composition analysis
- Computed tomography (CT)
- Resonance
- Hearing test
- Cardiotocography (CTG)
- Dermatological testing



This module can be used by patients to track changes in their overall test results. They can also share these comprehensive medical reports with doctors for further interpretation. This allows the user to monitor types of diabetes, blood sugar levels, blood pressure, fever, hypothermia, cardiac arrhythmias and tachycardia from a single convenient location.

MediLiVes Blockchain

MediLiVes Server is a cloud application that operates 24x7 as it is installed on Microsoft's Azure server. This server is used to archive medical data, patient data, and for the analysis and interpretation of the tests obtained from biomedical equipment. Tests that are manually added by doctors or patients can also be investigated using cloud computing. The tests can be added using an internet connection through Wi-Fi or cellular data.



Technologies Used

Blockchain Technology

We need to use blockchain for the utility of the tokens. It will be used for signing medical documents and procedures using digital signatures. To be sure that they were completed in the provided time.

Artificial Intelligence

Presently, our AI-based algorithms can diagnose ECG/EKG examinations. It is capable of detecting different types of cardiac arrhythmias including:

- Sinus rhythm
- Sinus Bradycardia
- Sinus Tachycardia
- Pause

- Single supraventricular beat
- Double supraventricular beats
- Supra-ventricular bigeminy and trigeminy
- Ventricular bigeminy and trigeminy
- Single supraventricular beat
- Double supraventricular beats
- Supraventricular Tachycardia

We aim to combine various types of examination results into a single diagnosis in the future. Our AI system will be utilized for learning trends of results variability for each patient. This will enable us to provide better diagnostics.

MediLiVes Benefits

For Medical Practitioners

There are plenty of doctors who prefer to practice solo medicine. The downside of this strategy is that the doctor is limited by the specialty in which he/she is trained. MediLiVes's services allow doctors from various disciplines to help with the diagnosis and medical tests. For instance, a diabetologist can provide an EKG at the clinic location or directly at the patient's home.

For Small and Medium-Sized Clinics

Small and medium-sized clinics can provide inexpensive telemedicine services. Even in the absence of cardiology services, the MediLiVes system gives these clinics the option to expand their service package to include on and off-site EKG tests as per requirements. The home monitoring facility for patients will allow mid-sized clinics to provide additional capacity for new patients.



For Medium and Large Clinics

The MediLiVes analytical telemedicine system provides the flexibility and convenience of managing patients more effectively. It enables the clinic to generate a new revenue stream for clinics. It also allows for a wider range of provided services, which in-turn leads to increased healthcare quality.

For Physicians

- **Rapid payments** – the mobile app will allow receiving of payments from patients quickly and efficiently.
- **Reduced costs and time** - Using AI, algorithms and cloud services all work will be focused on the necessary medical exams.
- **Access to the new markets** – Physicians can diagnose and cure patients across the globe.
- **Professional medical documentation** – all reports will be presented in a standard medical documentation format
- Brainstorming for problems with other specialists
- More patients can be attended in lesser time.

For Patients

- **Safe medical data** – all data is secure and encrypted. Users can choose which details are shared.
- Access to facilities and from around the world

- Discounted services with MediLiVes Token
- Personalized diagnostic procedures
- Treatment plans for specific diseases

For Clinics:

- Extended Cardiology diagnostic services for patients
- Revenue diversification
- Increased patient satisfaction
- Cost of medical tests remains unchanged
- More tests can be performed at the same time
- Additional tools provided for the patient's health monitoring, providing a competitive advantage to clinics.
- Digital repository of tests
- Possibility to provide telemedicine services to other clinics
- Mobile access (Android, iOS, Windows) to all clinic staff
- Administrative account for user and patient management

Project Architecture

In MediLiVes, the content on the block represents data ownership and viewership permissions shared by members of a private, peer-to-peer (P2P) network.

Blockchain technology supports the use of “smart contracts,” which enables us to automate and track certain state transitions (such as a change in viewership rights, or the birth of a new record in the system). Using smart contracts on an Ethereum blockchain, we log patient-provider relationships that associate a medical record with viewing permissions and data retrieval instructions (essentially data pointers) for execution on external databases.

We include a cryptographic hash of the record to ensure against tampering, thus guaranteeing data integrity on the blockchain. Providers can add a new record associated with a particular patient, while patients can authorize the sharing of records between providers.[1]

In both cases, the party receiving new information receives an automated notification and can verify the proposed record before accepting or rejecting the data. This keeps participants informed and engaged in the utility of their records.

Medi-Science prioritizes usability by offering a designated contract which aggregates references to all user's patient-provider relationships, thus providing a single point of reference to check for any updates in medical history. We handle identity confirmation via public key cryptography and employ a DNS-like implementation that maps an existing and widely accepted form of ID (e.g. name, or social security number) to the person's Ethereum address.[1]

A syncing algorithm handles data exchange “off-chain” between a patient database and a provider database after referencing the blockchain to confirm permissions through our database authentication server. In the sections that follow, we present the design principles of our distributed system and its implementation.

MediLiVes Blockchain Architecture

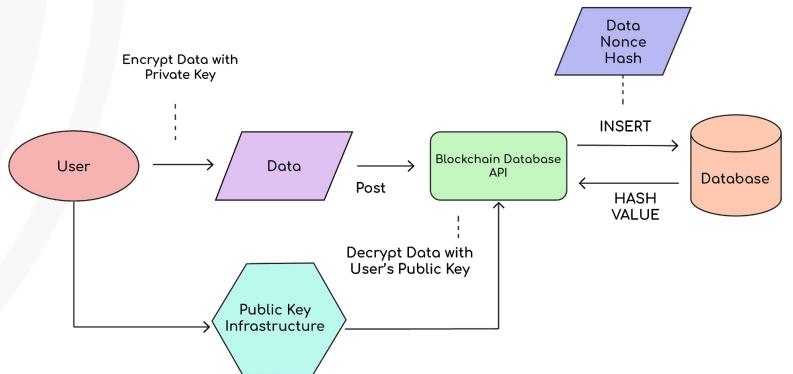
Originally designed for keeping a financial ledger, the blockchain platform can be extended to provide a generalized framework for implementing decentralized computing resources. Each computes resource can be thought of as a single state-machine that can transition between states through cryptographically-secured transactions.

When generating a new state-machine, the nodes encode logic which defines valid state transitions and uploads it onto the blockchain. From there on, the blocks journal a series of valid transactions that, when incrementally executed with the state from the previous block, morph the machine into its current state.

The underlying peer-to-peer protocol helps in securing the machines' state and secures logic from tampering. Simultaneously, this information is shared with all the participating nodes in the system. Nodes can, therefore, query the machine's state at any time and obtain a result which is accepted by the entire network with high certainty. This transaction-based state-machine generalization of the blockchain is also referred to as smart contracts. [8]

Ethereum was the first to attempt a full implementation of this concept. It builds into the blockchain a Turing-complete instruction set to allow smart-contract programming and a storage capability to accommodate on-chain state.

We regard the flexibility of its programming language as an important property in the context of data and records management. This property can enable advanced functionality (multi-party arbitration, bidding, reputation management, and more) to be coded into our proposed system, adapting to comply with differences in regulation and changes based on stakeholder needs.



We utilize Ethereum's smart contracts to create intelligent representations of existing medical records that are stored within individual nodes on the network. We construct the contracts to contain metadata about record ownership, permissions and data integrity. The blockchain transactions in our system carry cryptographically-signed instructions that allow the management of these properties.

The contract's state transition functions carry out policies, enforcing data alteration only through legitimate transactions. Such policies can be designed to implement any set of rules which govern a particular medical record, as long as it can be represented computationally.

For example, a policy may enforce that separate transactions representing consent are sent from both patients and care providers before granting viewing permissions to a third party.

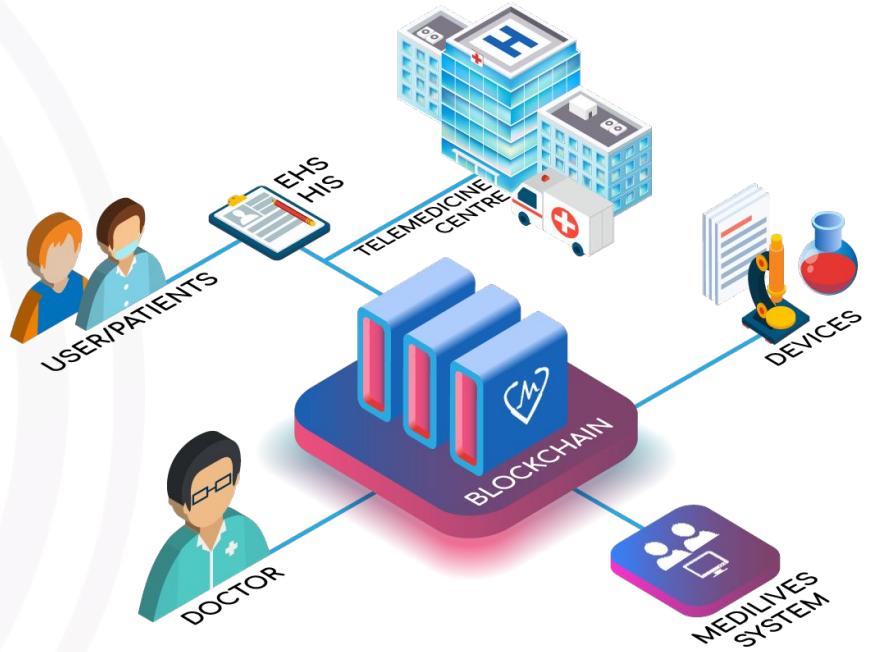


Business Model

Effective Payment Model Discovery and Implementation

A report issued by Academy Health, a non-profit medical association states that to decrease costs and increase service quality, insurers and benefactors are instituting new payment models. Under these models, financial incentives depend on patient outcomes rather than the quantity of service. The new models contain incentives that include:

- Bundled payments
- Disbursements to patient-oriented care providers
- Global payments
- Shared savings



The medical community widely regards the way insurers disburse funds as the primary cause for high healthcare expenses in the United States. Because many insurers simply pay for services rendered, patient advocates believe traditional models incentivize care providers to deliver quantity rather than quality. Additionally, since care providers receive disbursements directly, they have little reason to collaborate with others. This typically results in increased expenses and unsatisfactory patient experience.

The new payment models seek to alleviate these problems. Large organizations, such as Medicare, serve as proving grounds for these new models. The group has dedicated an entire business unit to developing, testing and implementing new payment models for improving patient outcomes while decreasing costs.

The shared savings model has garnered plenty of attention among care providers. Many versions of this payment model exist, but Accountable Care Organizations (ACOs) has implemented the most notable approach. Under ACOs, healthcare groups

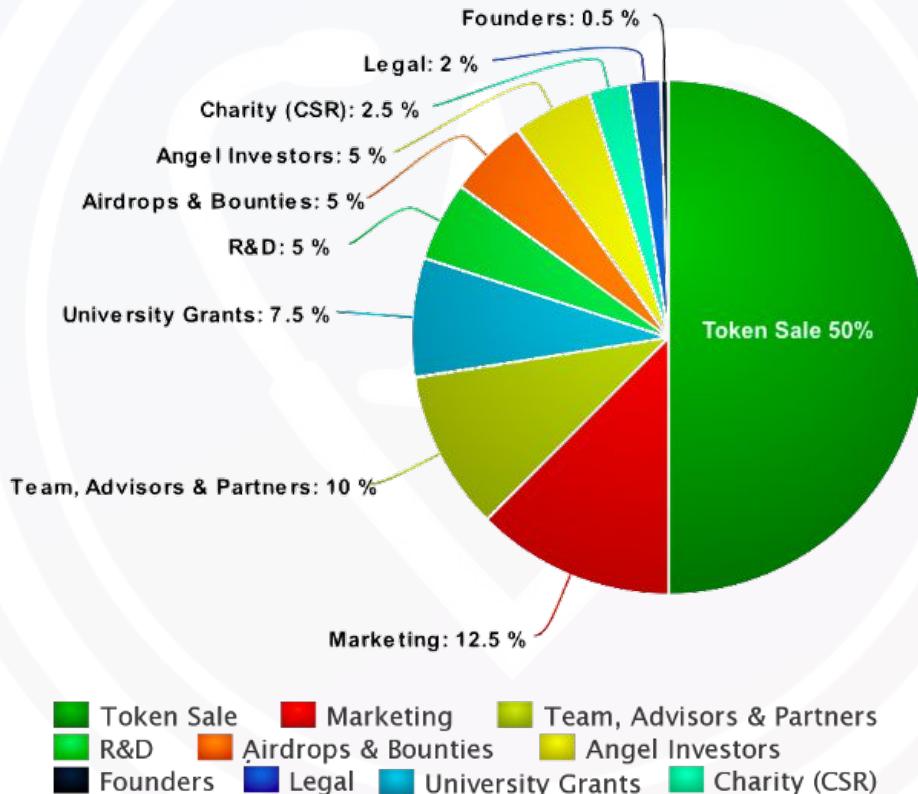
assume responsibility for improving patient outcomes at reduced costs. When they meet these criteria, the participants share the savings produced by their collaboration.

This encourages providers to coordinate services and collectively promote preventive practices.[9]

Medicare is an official U.S. Government organization which caters to the healthcare sector. Medicare provides coverage for several tests, items and services (covered and not-covered) to patients. Over the years, Medicare has always maintained a positive stance when it comes to improving the treatment options for patients. They are also highly supportive of new and upcoming treatments and strategies.

Medicare is the premier healthcare coverage provider in the United States. The organization receives funding through the Hospital Insurance Trust Fund and the Supplementary Medical Insurance Trust Fund. The collective funding is used towards making healthcare accessible to everyone.

Tokenomics



MediLiVes requires funds for valuable features that extend the possibilities of our system in medical diagnostics. We intend to utilize the investor's resources in the following way:

- Hard cap - \$8 Million USD
- Soft cap - \$1 Million USD

Token Name	:	MediLiVes Token
Token Ticker	:	MLIV
Token Supply	:	12 Billion MLIV
Token Value	:	0.008 USD
Token standard	:	ERC20
Tokens for Sale	:	6 Billion
Min. purchase	:	0.1 ETH

Economic Model

The MediLiVes token aims to serve as a multi-purpose healthcare solution for every one. MediLiVes platform is built on business cases, individual solutions, and services. It employs state-of-the-art technology. We have worked towards a linear model that will make understanding it a lot easier, which helps instill user confidence in MLIV tokens.

MediLiVes plans to use the funds collected during the ICO/IEO and pre-sale to expand globally. The MediLiVes Tokens (MLIV) can be used by patients to avail healthcare services. Patients can buy MLIV tokens from MediLiVes platform, early investors or exchanges once they get listed after the IEO is over. These tokens can then be used to avail MediLiVes services. Patients can also purchase medical products from MediLiVes using the MLIV tokens where applicable.

Doctors and healthcare providers can receive payment for their services in the form of MLIV tokens. This will also help save the additional costs for foreign transactions as transaction charges and exchange rates volatility will be removed from the equation.

MediLiVes Server presents an opportunity for clinics and hospitals of all sizes to streamline their data management. They can easily maintain and manage their medical data, resources and test results from a single app. Moreover, it allows clinics to manage their employee data conveniently.

Collection of medical data serves as an invaluable tool for our Artificial Intelligence module as allows the system to become more proficient at diagnosis. As the accuracy and predictions improve, existing health conditions and future diseases can be accurately provided to the patients and doctors.

The MediLiVes Token will enable doctors, clinics, healthcare providers and paramedics to receive compensation for their services efficiently. The MLIV token allows patients from across the world to gain access to healthcare through expert medical professionals, leading our world one step closer to curing diseases and improving their quality of life.

MediLiVes Tokens (MLIV) can also be used to purchase franchise rights from MediLiVes. This will allow clinics to provide additional medical services and tests without any major restructuring to their existing operations. This also enables the providers to purchase MediLiVes equipment using MLIV tokens.

The best part about this process is that patients can select the medical data that they are willing to share with medical professionals, care providers and third party manufacturers in a secure way. It will allow patients to gain second opinions by the way of remote consultations. This will also result in reduced wait times. Doctors and clinics will be able to attend more patients in the same amount of time through remote diagnostics.

Security is ensured as smart contracts are utilized for all transactions that occur on MediLiVes's platform. Records are maintained on the blockchain on every step of the process. Due to the nature of the blockchain technology, these records are immune to changes. This allows parties to establish mutual trust without the requirement of a middle-man or third party. This also leads to reduced costs which benefits all the parties involved.



The data that is obtained by medical professionals will enable them to cater to the requirements of the market better. As less money is needed towards research and development, this results in reduced equipment and medicine costs. The benefits are directly transferred to the patients.

Patients will also get to choose where applicable the equipment manufacturers from across the world based on their unique needs. This will ensure that the right product or medicine reaches the right person.

MediLiVes Debit Card

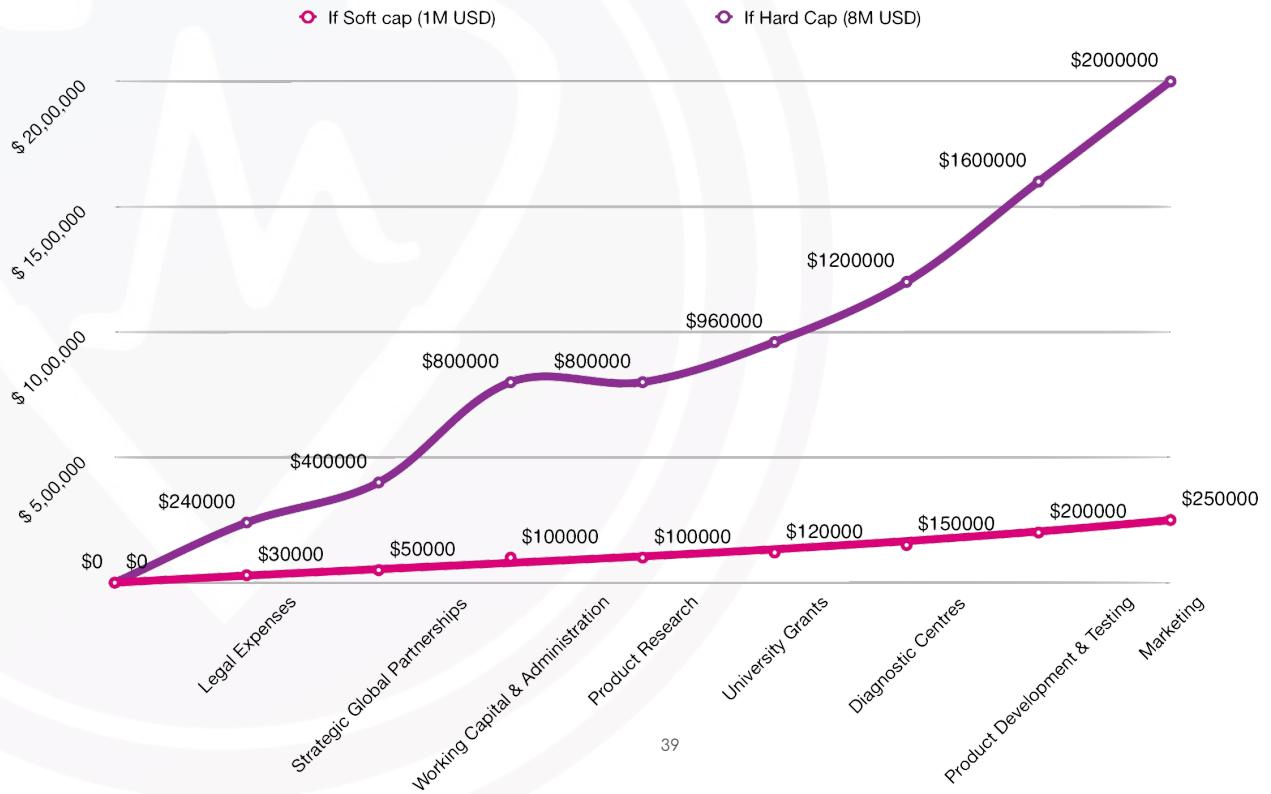
Other avenues of the utility of MediLiVes tokens is the ability for it to be loaded onto a prepaid debit visa/master card and this can be used to purchase general household goods globally.

Cryptocurrencies are gradually becoming a viable payment option across a range of markets and jurisdictions. If there is a tool that significantly expands the usability of digital coins in a world still dominated by traditional payment systems, it's the crypto debit card. A growing number of reliable platforms offer the fintech product to crypto enthusiasts.



Use of Proceeds

Use of Proceeds is the summary to help our readers to gain an appreciation of how or where we intend to spend our funds.



Core Team



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Chief Executive Officer &
Chief Relationship Officer



Martin Territt
International Affairs
Advisor



John McKay
Chief Operating Officer



Suzat Fernandes
Chief Marketing Officer



Garry Singh
Chief Marketing Strategist



Mavis Amankwah
Chief PR Officer



Caroline Garnham
Chief Legal Officer/Advisor



Kyaw Zaw Htoo
Chief Business
Development Officer



Grant Murrell
Chief Business Analyst



Alex Wan
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Sanna Soini
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Desmond Amey
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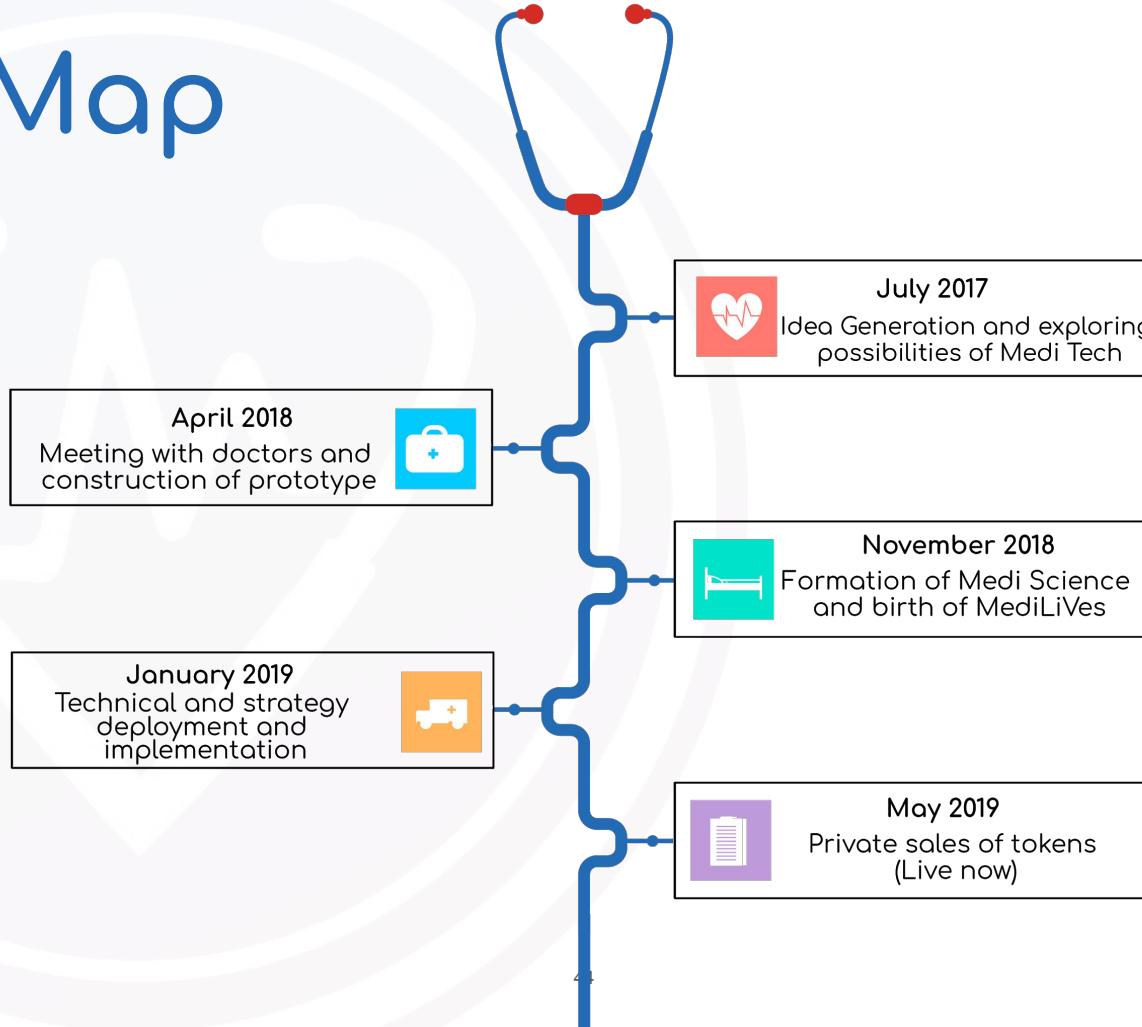


Tyrone Marcelle
Ambassador and Investor



Richard Banji Owoyinka
Ambassador and Investor

RoadMap





Terms & Conditions

The complete Terms and Conditions for participating in the MediLiVes Token Sale are published on the official MediLiVes website at <https://MediLiVes.io> and are the prevailing legal documents related to the MediLiVes Token Sale.

General Information

The MLIV token does not have the legal qualification of security since it does not give any rights to dividends or interests. The sale of MLIV tokens is final and non-refundable. MLIV tokens are not shares and do not give any right to participate in the general meeting of Medi-Science.

MLIV tokens cannot have a performance or a particular value outside the MediLiVes platform. MLIV tokens shall therefore not be used or purchased for speculative or investment purposes.

The purchaser of MLIV tokens is aware that national securities laws, which ensure that the investors are sold investments that include all the proper disclosures and are subject to regulatory scrutiny for the investors' protection, are not applicable. He/she has carefully reviewed this white paper and fully understands the risks, costs and benefits associated with the purchase of MLIV tokens.

Knowledge required

The purchaser of MLIV tokens undertakes that he/she understands and has sufficient experience of cryptocurrencies, blockchain systems and services, and that he/she fully understands the risks associated with the MLIV Token Sale as well as the mechanism related to the use of cryptocurrencies (including storage).

Medi-Science shall not be responsible for any loss of MLIV tokens or situations where it is impossible to access MLIV tokens, which may result from any actions or omissions of the user or any person undertaking to acquire MLIV tokens, as well as in case of hacker attacks.

Risks

Acquiring MLIV tokens and storing them involves various risks, in particular the risk that Medi-Science may not be able to launch its operations and develop its blockchain and provide the services promised.

Therefore, and prior to acquiring MLIV tokens, any user should carefully consider the risks, costs and benefits of acquiring MLIV tokens in the context of the MLIV Token Sale and, if necessary, obtain any independent advice in this regard. Any interested person who is not in the position to accept or to understand the risks associated with the activity (including the risks related to the non-development of the MLIV platform) or any other risks as indicated in the Terms & Conditions of the MLIV Token Sale should not acquire MLIV tokens.

References

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Legal Disclaimer

This white paper shall not and cannot be considered as an invitation to enter into an investment. It does not constitute or relate in any way nor should be considered as an offering of securities in any jurisdiction. This white paper does not include or contain any information or indication that might be considered as a recommendation or that might be used as a basis for any investment decision.

MLIV Tokens are hybrid tokens, according to the **Financial Conduct Authority (FCA)** definition, since they have the nature of utility tokens that the users can use in relation to the services offered by the MLIV platform, as well as the nature of payment tokens, according to the specifications given in the white paper.

In any case, MLIV tokens shall not be intended to be used as an investment. It is not an FCA regulated product.

The offering of MLIV tokens on a trading platform is done in order to allow the use of the MLIV platform and not for speculative purposes. The offering of MLIV tokens on a trading platform does not change the legal qualification of the tokens, which remains a simple means for the use of the MediLiVes Platform and are not a security.

All mentions of “Medi-Science” herein contained are specifically referring to Medi-Science International Ltd as the sole entity involved in the MediLiVes IEO project.

Medi-Science is not to be considered as an advisor in any legal, tax or financial matters. Any information in the white paper is provided for general information purposes only and Medi-Science does not provide any warranty as to the accuracy and completeness of this information.

Purchasing MLIV tokens shall not grant any right or influence over Medi-Science's organization and governance to the purchasers.

Regulatory authorities are carefully scrutinizing businesses and operations associated to cryptocurrencies in the world. In that respect, regulatory measures, investigations or actions may impact Medi-Science's business and even limit or prevent it from developing its operations in the future.

Any person undertaking to acquire MLIV tokens must be aware of the Medi-Science business model, the white paper or terms and conditions may change or need to be modified because of new regulatory and compliance requirements from any applicable laws in any jurisdictions. In such a case, purchasers and anyone undertaking to acquire MLIV tokens acknowledge and understand that neither Medi-Science nor any of its affiliates shall be held liable for any direct or indirect loss or damage caused by such changes.

Medi-Science will do its utmost to launch its operations and develop the MLIV platform. Anyone undertaking to acquire MLIV tokens acknowledges and understands that Medi-Science does not provide any guarantee that it will manage to achieve it. They acknowledge and understand therefore that Medi-Science (including its bodies and employees) assume no liability or responsibility for any loss or damage that would result from or relate to the incapacity to use MLIV tokens, except in case of intentional misconduct or gross negligence.



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