



ROBOMED
N E T W O R K

White Paper

Initial Coin Offering

June 20, 2017

Summary

The Robomed Network is a medical network managed by a blockchain token and designed to provide the most effective medical care. The Robomed Network ecosystem connects healthcare service providers and patients on the basis of a smart contract, the value criteria of which are the performance metrics of a specific medical service and patient satisfaction. This particular concept of a patient-oriented medical network, based on breakthrough technology, is new to the healthcare market.

In-network clinics participating in the Robomed Network utilize Robomed EHR, a process-automation system designed for medical centers, which includes unified storage of medical data and health management tools. Robomed EHR integrates all participating clinics into a single information space, which allows different service providers to quickly interact, bypassing bureaucratic, financial, and legal barriers, ensuring that services are provided according to uniform criteria, and quickly adapting processes to desired changes. Patients interact with the Robomed Network via Robomed Mobile or Robomed Web.

The healthcare market is large and complex. Various financial institutions provide medical infrastructure, and a variety of models for organizing health services are implemented around the world. However, our proprietary smart-contract technology provides a unique opportunity to create a single system of coordinates with clinical outcomes as a reference point. Having studied the possibilities and examples of using the Ethereum Blockchain platform, the Robomed Network team was glad to find out that a decentralized, cross-border ecosystem of healthcare providers, based on an open smart contract and crypto currency, involving patients (client-oriented) and experts (self-regulating), was achievable.

This document first describes the principles of functioning of Robomed EHR, the patient's mobile application and the mobile application of the physician, then reveals the meaning of applying a smart contract and a value-oriented approach to medical services. In conclusion, the structure of the Robomed Network is put forward, and the crucial role of the medical community, when it comes to ensuring the success and balance of the ecosystem, is demonstrated.

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1. Introduction

The Robomed Network is a virtual medical network, supporting smart contracts. To ensure its full functioning, a number of software products are supported:

- Robomed EHR
- Robomed Mobile
- Robomed Web

Currently, Robomed Network already includes a number of medical centers around the world. The clinics of the network share a common approach to healthcare management and have developed uniform quality standards for medical services provided, which they constantly improve.

The RBM Token is the Ethereum Token, which gives the right to vote when determining the value of medical services within the Robomed Network and can be accepted as payment for medical services rendered by medical providers participating in the Robomed Network. All clinics that are part of the Robomed Network are obligated to accept the RBM Token as payment for any medical services provided by a participating clinic at the time of a patient encounter.

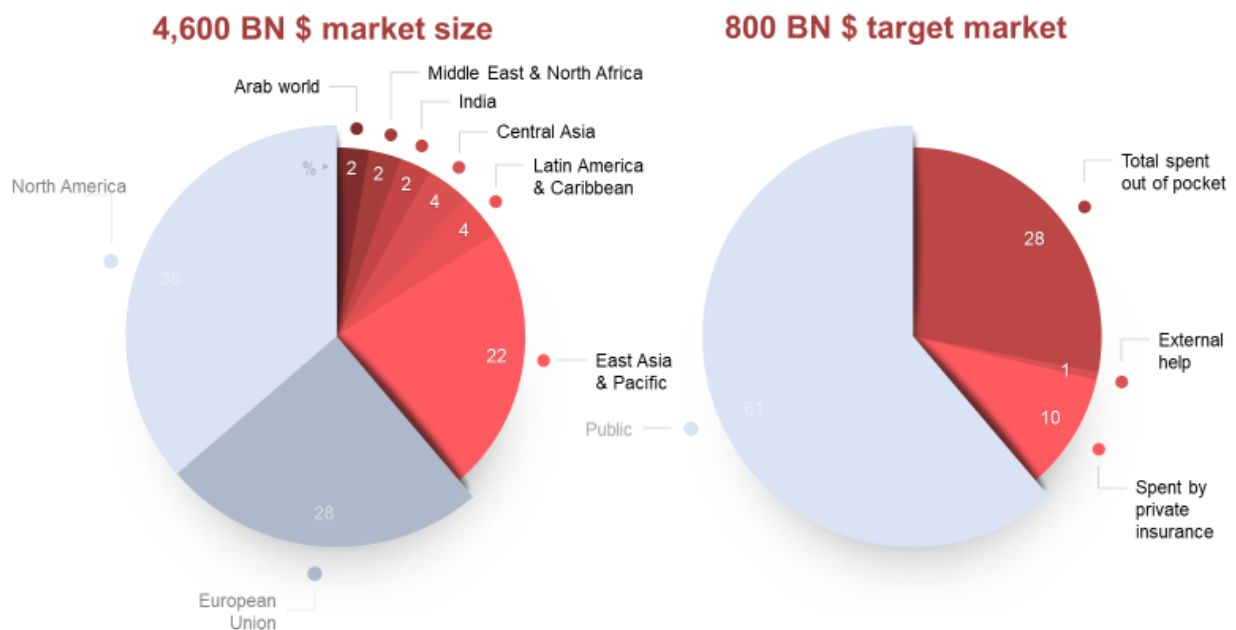
- Tokens will be offered within 55 days from October 25, 2017 till December 19, 2017.
- The ICO will be open to the public on a global basis.
- Number of tokens offered: 1,172,500,000 RBM Tokens.
- Number of tokens released: 1,675,000,000 RBM Tokens.
- Token distribution: 25 of every 100 tokens sold under this offer will be released and retained in favor of team members.
- Price of one RBM Token at the time of release: 0,000284-0,000426 ETH, depending on the date of purchase.
- Link to the website: <https://robomed.io>
- Accepted payment forms: Ether ("ETH") , Bitcoin ("BTC"), Litecoin ("LTC"), Dash ("DSH"), Zcash ("ZEC")
- Start of presale: October 25, 2017, 12.00 PM (PST)
- End of presale: November 19, 2017, 15.59 PM (PST)

- Beginning of the initial offer of the tokens: November 19, 2017, 16.00 PM (PST)
- End of the initial offer of the tokens: December 19, 2017, 16.00 PM (PST)
- Release date for the first batch of tokens: December 19, 2017, 16.00 PM (PST)

Funds collected during the initial offering will be invested in the development and production of a smart ecosystem contract in the language of Solidity (Ethereum blockchain).

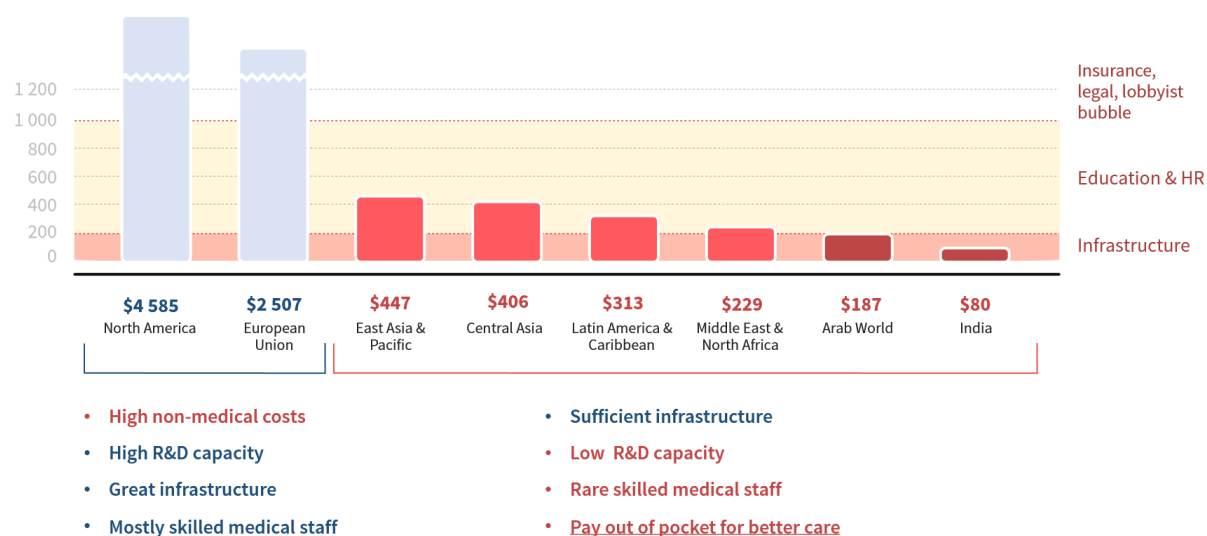
1.1. Market overview

Healthcare market is one of the most stable areas in economic growth and exceeds 7,5% of world GDP. Key markets are North America, European Union and Asia. As a B2C product company, Robomed Network aims to deliver its services to consumers willing to pay for healthcare out of pocket.



This is a 800 bn \$ market, located mainly in developing countries.

Core market overview

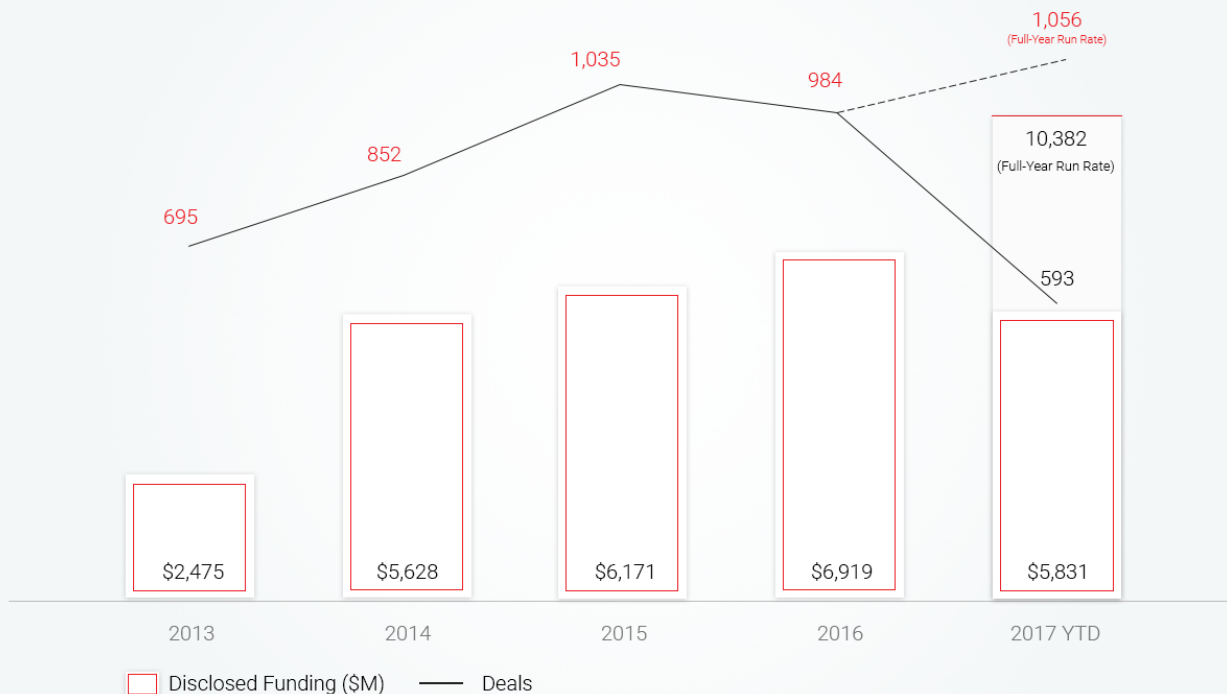


Patients pay out of pocket to find a better solution for local healthcare services.

Funding to digital health startups has increased every year since 2012, hitting a record of \$6.9B in 2016. And investors remain bullish on the sector, with 2017 on track to hit \$10B in disclosed equity funding, which would set yet another annual record.

Booming digital health market

Digital health annual global financing history

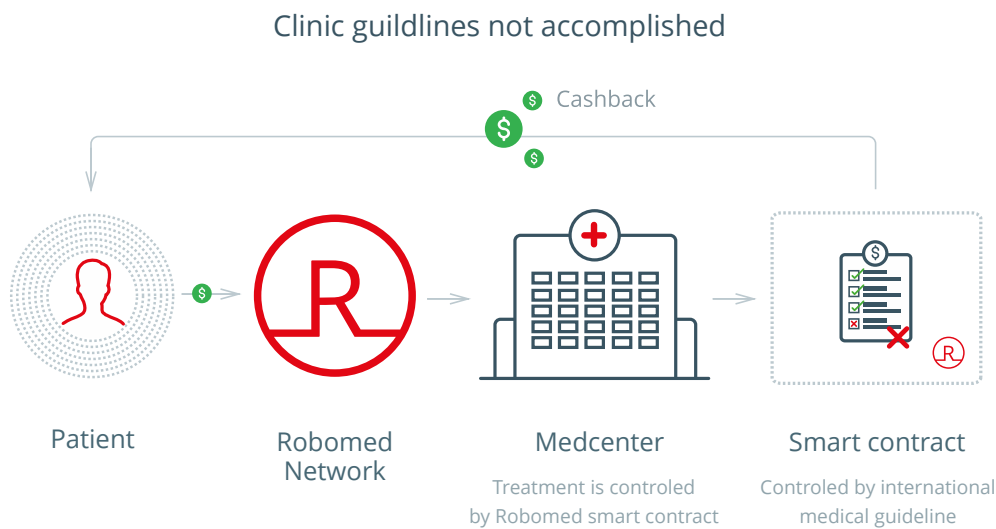
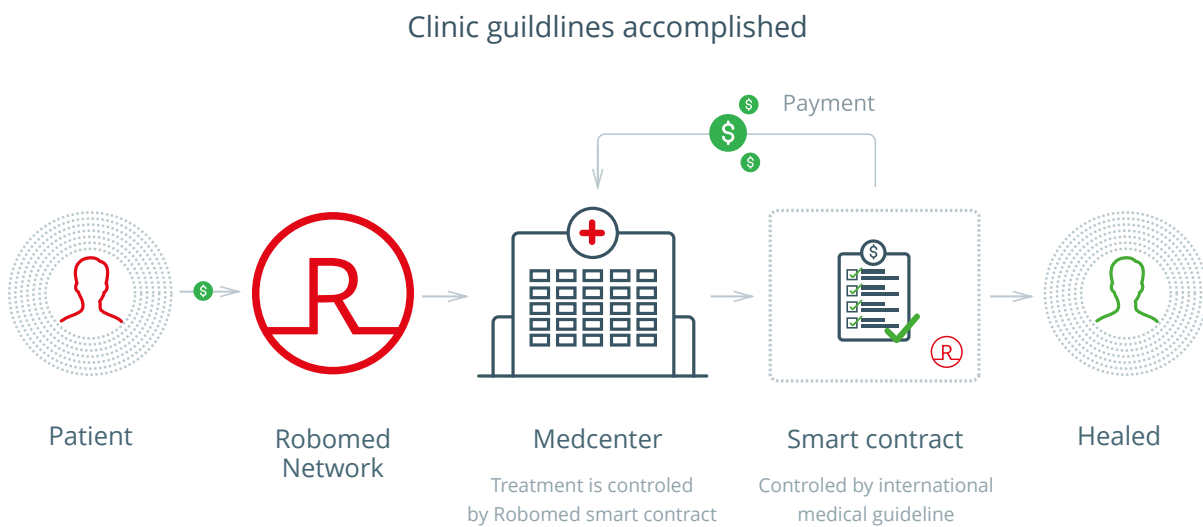


Global equity funding to digital health companies has reached \$5.8B over 593 deals in 2017 YTD. At the current run rate, 2017 is on track to reach nearly \$10.4B in funding across 1,000 deals, a potential 5-year high for the sector.

Digital health market is currently booming.

1.2. Robomed Network Smart contract

Smart medical contract is the main product of Robomed Network. By measuring patient outcomes and clinical guideline accomplishment we achieve best possible value for the patient.



This block chain version of the DRG reimbursement system lets Robomed Network scale the best medical practices to patients willing to pay for it in the developing countries.

Smart medical contracts will be available on Robomed Network marketplace soon after the token emission.

1.3. Robomed EHR

Robomed EHR allows you to connect and manage a medical organization based on Ethereum blockchain smart contracts. The smart contract transparently monitors all processes of interaction with the patient, the metrics of effectiveness and impression of the patient from interaction with the provider of medical services.

Basic functions include:

- Keeping an electronic patient chart
- Keeping a schedule of specialists and offices
- Establishment of personnel access rights
- Consolidated benefit packages
- Decision-making system for medical personnel
- Analytical system
- Real-time monitoring of personnel actions
- Calculation of staff salaries
- Financial system
- Open API

Additional functions:

- Telemedicine/IP
- Evaluation of the effectiveness of advertising

The functionality of Robomed EHR is selected to provide medical organizations with a powerful tool for management of the delivery of health services and at the same time to unite these organizations among themselves by performance standards. Thus, the ecosystem is constantly being improved, adopting the best practices and updating uniform standards.

1.4. Robomed Mobile

Robomed Mobile is a mobile EHR, provided with the capabilities of the RBM Token wallet. With the help of Robomed Mobile the patient can receive telemedicine consultations, appoint, postpone, or cancel their visits, choose whom to show their medical data and enter into smart contracts with medical organizations.

1.5. Robomed Web

Robomed Web is the desktop version of Robomed Mobile, deployed for the convenience of the patient. It allows you to fully use all the benefits of the Robomed Network on any computer without the need to download any software.

Also, Robomed Web is used to access the medical knowledge base and to conduct voting by the medical community and the patient community in determining or updating the value criteria of various health services and outcomes.

1.6. Current Limits

Ethereum blockchain features provide unique opportunities for creating and managing the value in healthcare, including record keeping, transparency, and reliability. But in order to introduce a flexible concept of value that will serve as a guide for both the patient and the medical organization, there is a need for decentralized legislative mechanisms of the ecosystem.

When designing the Robomed Network, a lot of issues were taken into consideration to ensure balance. They include:

- **Risk of disagreement between certain medical organizations with regard to the standards of Robomed Network.** In order to achieve the best value possible, it is necessary to connect both patients and the professional medical community. For this purpose, a medical knowledge base is created, where the criteria for the value of specific clinical cases and services will be determined by voting of token holders.

- **Software imperfection.** The code may contain errors, so the software must be easily updatable, and there have to be mechanisms to encourage potential intruders to go for a reward rather than attack.
- **The risk of attachment of a medical provider to another EHR system.** Not all medical service providers are ready to switch to Robomed EHR. Such providers will also have the opportunity to connect to the Robomed Network using a dedicated API, provided that they comply with HL7 data transfer protocols.
- **Compensation system.** In the early stages of the project, the advantages of a smart contract may not be obvious to strategically important partners. Therefore, a simple and understandable reward mechanism is necessary to provide a smooth development of the ecosystem.

2. Healthcare Providers and Robomed EHR

Robomed EHR is a medical information system that is a tool for the interaction between medical service providers and the Robomed Network.

2.1. Healthcare Provider Definition

Any individual or legal entity able to fully or partially fulfill the criteria for the value of medical services under a smart contract can become a healthcare provider of the Robomed Network. In order to join the Robomed Network, a healthcare provider must register in the system and download the Robomed EHR application.

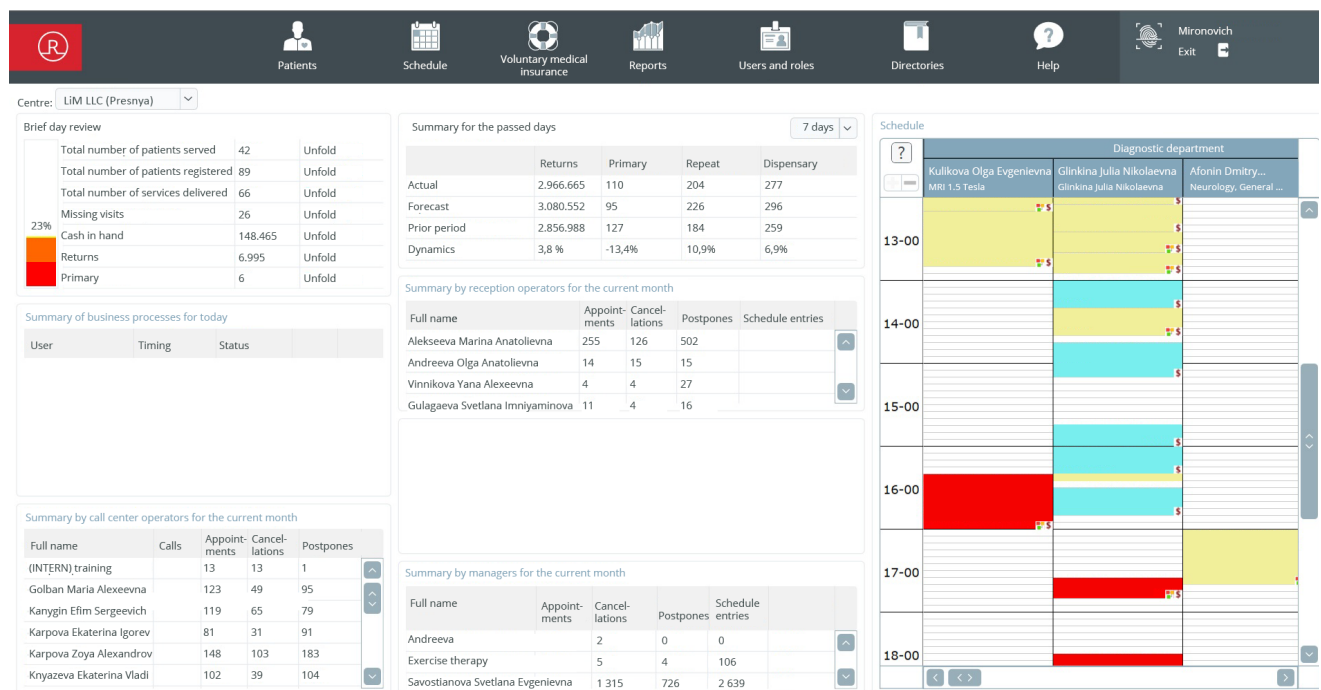


Figure1. Robomed EHR Application

Robomed EHR supplies the medical service provider with the exhaustive functionality necessary to organize modern medical processes and monitor performance metrics.

In the event that the medical service provider does not want to work in the Robomed EHR, it can use any other EHR system and connect to the Robomed Network using the dedicated API under condition of the observation of the communication protocols according to the HL7 standard.

2.2.Implementing Robomed EHR

The implementation of Robomed EHR is a routine process with clearly defined technological conditions and boundaries. Small medical service providers can use the automatic deployment of the system to save time without using the Robomed Network team.

As a rule, large medical institutions have a complex architecture of several IT systems from different suppliers. To successfully connect such a provider, it is necessary to engage a special Robomed Network unit.

- EHR
- CRM
- The "Cashier/Manager" Module
- The "Salary Accounting" Module
- The "Business Processes" Module
- The "Advertising Report" Module
- "Telephony" Module
- The "Decision Support" Module
- The "Analytics" Module
- The "API" Module
- The "LIS Integration" Module
- The Training Service
- The Customer Support Service
- The Administration Service
- The Update Service
- The Request Processing Service
- The Incident Management Service

The scheme for connecting a healthcare provider is as follows:



We implement
ROBOMED just for

31 days



The introduction of a medical
information system consists of
several stages:



01 data migration in **ROBOMED** (26 days)

We structure the initial data,
correct duplicates and input
errors. As a result, we turn the
customer base into a sales tool.

02 Correlation of the list of services with **Robomed standarts** (14 days)

We simplify integration with laboratories,
insurance companies and compulsory medical insurance.



03 Training of **employees** (25 days)



Stage 1

We teach the main processes of work
in the clinic, obtain the results on
employee awareness of his duties.

We provide the report to the clinic
administrators (10 days).



Stage 2

We train the employees to perform
their duties in **ROBOMED**, the
employees pass the final exam.

We provide the report to the clinic
administrators (15 days).



Stage 3

We teach the clinic administrators to
control employees with the help of
ROBOMED (5 days).



04 Startup and enhanced **support** (5 days)

We are constantly in the clinic
to eliminate any negative
effects.



2.3.Modular Architecture

Robomed EHR is developed as a modular system with open code elements, which allows healthcare providers to add modules of their own design or third-party development. The main condition for connecting the module is compliance with the rules and methods of the described open API and HL7/FHIR protocols.

In Robomed EHR alpha build dated June 28, 2017, Robomed EHR consists of the following modules:

- EHR
- CRM
- The "Cashier/Manager" Module
- The "Salary Accounting" Module
- The "Business Processes" Module
- The "Advertising Report" Module
- "Telephony" Module
- The "Decision Support" Module
- The "Analytics" Module
- The "API" Module
- The "LIS Integration" Module
- The Training Service
- The Customer Support Service
- The Administration Service
- The Update Service
- The Request Processing Service
- The Incident Management

Robomed EHR is a tool of the Robomed Network required for storing, structuring, and transmitting medical data, as well as reliable monitoring and updating of the medical service delivery processes according to the current value policy of the Robomed Network.

3. Patients and Robomed Mobile/ Web

Robomed Mobile is a tool of interaction between the patient and the Robomed Network.

Robomed Web is a tool of interaction between the community of patients, the medical community, and the Robomed Network.

3.1. The Value of Healthcare for the Patient

When a person faces a disease, the main goal is to return his or her body to a normal state as soon as possible. It is the achievement of this goal that is the core value in the Robomed Network agenda. The accompanying values are comfort and time-saving. But at the same time, the person's impressions of medical services do not always correlate with their real influence on the state of his or her health.

These are the motivators which were taken into consideration when designing the equivalent of RBM. This is how the distinction between absolute and subjective values appeared. The absolute value is determined by performance metrics collected by Robomed EHR and assigned by the medical community for each specific service or clinical pathway. The subjective metric is determined by the patient's assessment based on the results of healthcare provider performance. Thus, a balance between the service and the result is achieved.

It is important for the patient that the quality of the service rendered is provided on a transparent, decentralized basis over the blockchain technology. Neither the specific medical service provider nor the entire network is able to change the public smart contract. It is no longer necessary to appeal to outside organizations for the protection of patients' rights, hire expensive lawyers, or monitor the correctness of treatment. Only fulfillment of all the conditions of the smart contract will be the trigger event for the transfer of funds from the patient's account to the medical service provider's account. The entire chain of events in the service delivery is stored in the blockchain block, it can't be changed and is available to the entire community with the patient's anonymity preserved. Community experts have the right to make a decentralized integral assessment of the performance of services in the part

that can't be covered by the smart contract and needs yet to be formalized. Together with the professional community, the patient becomes a rightful, transparent participant in the development of the Robomed Network.

3.2. Robomed Mobile Functionality

List of main functions:

- New user registration
- User authorization
- Review of benefit package
- Possibility to quickly request services from benefit package
- Review of treatment and diagnostic services plans
- Viewing the results of services delivered and analyses performed
- Making an appointment
- Postponing an appointment
- Cancelling an appointment
- Payment of services by credit card
- Viewing the smart contract status
- Receipt of push notification
- Assessment of medical services
- Configuring notifications (including push notifications) and viewing events
- Option to add a clinic to Favorites
- Option to add a physician to Favorites
- Viewing medical providers on the map
- Giving physicians access to your medical chart

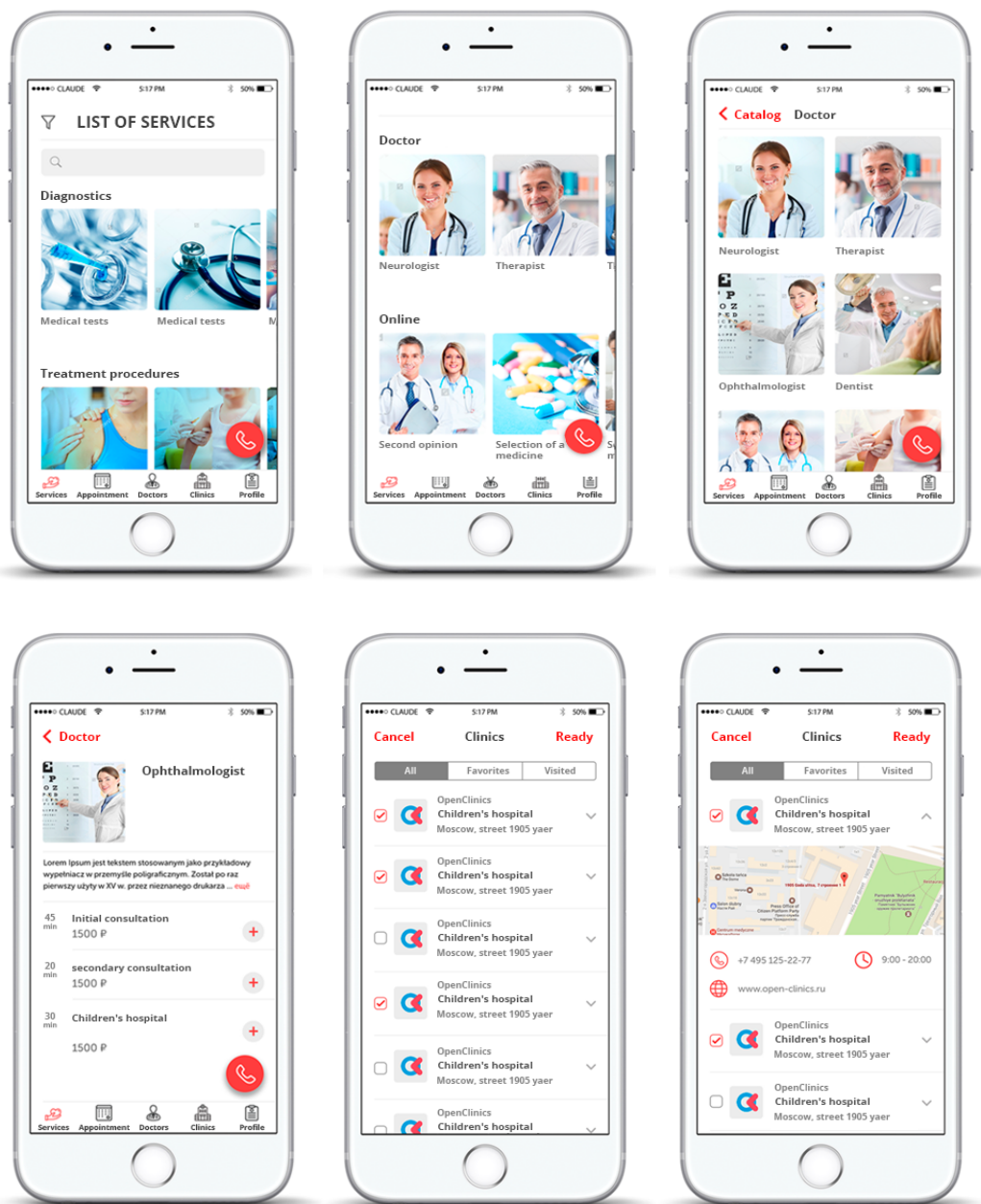


Figure 2 Screenshots of Robomed Mobile

Robomed Mobile has comprehensive functionality to satisfy a patient's every need in communication with the Robomed Network.

3.3 Robomed Web Functionality

Robomed Web completely duplicates the functions of Robomed Mobile and adds another platform for interaction between the medical community and the patients' community.

The platform for interaction between communities plays the role of the legislative body of the Robomed Network. The medical community shall by voting determine the objective

criteria for the effectiveness of each individual medical service, introduce new services, and improve the existing ones. The community of patients shall by voting determine the subjective criteria for the medical services and the priority of case consideration by the medical community. The voting period for each individual case shall not exceed three days. All voters receive an award in the form of RBM.

A medical service is considered executed under a smart contract in the Robomed Network if at least 65% of all performance criteria are achieved. At the same time, the specific weight of medical efficiency criteria is 66.7%, and that of service criteria, 33.3%. Such a distribution is necessary to exclude a placebo effect, where the low medical efficiency of a service is compensated by a high level of comfort and a situation in which the patient's personal opinion is formed by a low level of comfort, but the service itself has been only performed efficiently from a medial point of view. Also, such a mechanism makes it impossible for the patient to unilaterally refuse the contract, provided that the medical provider fulfills all objective criteria recognized by the Robomed Network community.

In case the medical service provider does not reach a minimum threshold of 65% of all performance criteria, the Robomed Network determines the value of such a medical service as not rendered and the smart contract as not completed. The RBM spent by patient in this case shall be returned to his Robomed Network personal account by the smart contract mechanism.

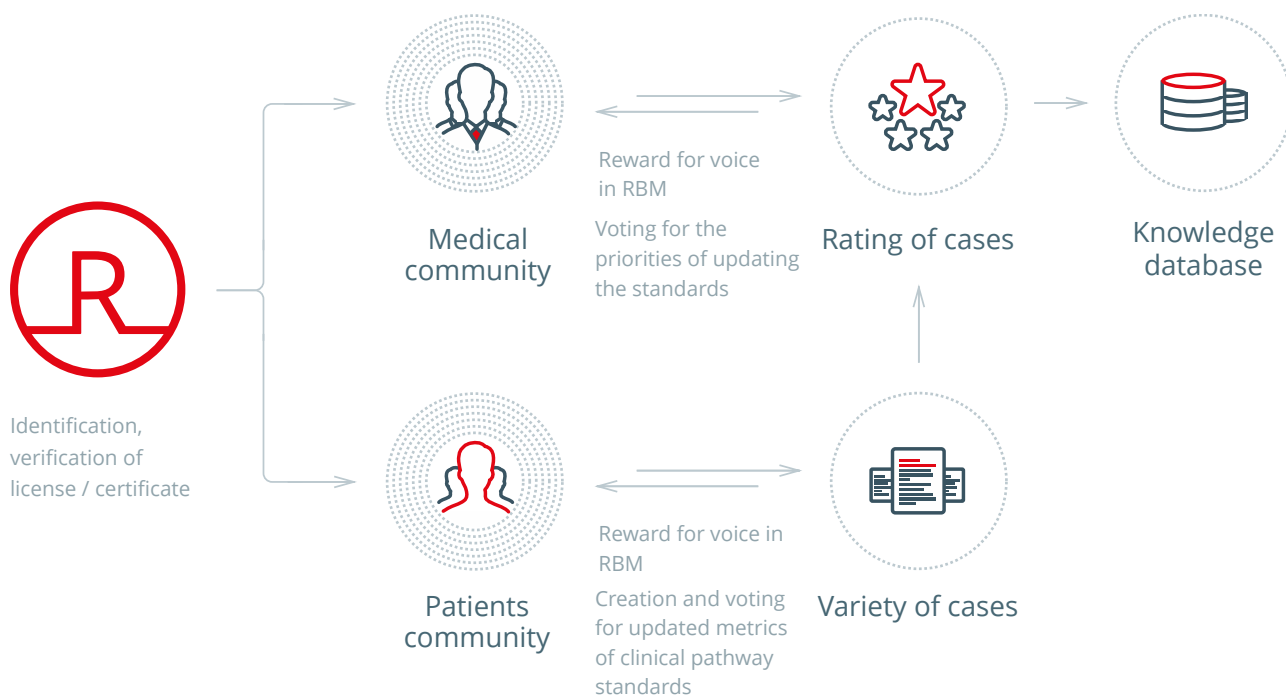


Figure3.The Scheme of Robomed Network Communities' Interaction

4. Robomed Network

Robomed Network is the result of many years' experience of the project team in healthcare business. Preparation for the current stage of the project can be divided into three stages:

Stage 1: – Several own medical institutions of the full cycle were built, payback agreements were reached, basic principles of forming the value of medical services for the patient were developed.

Stage 2: Creation of basic versions of Robomed EHR and Robomed Mobile software products, beta testing under the conditions of real operation by medical institutions and patients.

Stage 3: Scaling of the Robomed Network on various medical service providers, ensuring sufficient coverage of the partner network for the start of sales of value-oriented medical products.

All of these three stages have been successfully passed by the current date, and the project Robomed Network is proud to announce the launch of issue of RBM Tokens to secure our mission - the evolution of medical services.

The combined throughput of the medical providers connected to the Robomed Network as of June 26, 2017 was \$59,322,033 per annum. The average growth rate of the total throughput of the Robomed Network is 112% per annum.

Services from healthcare providers of the Robomed Network with a guaranteed result can be bought for RBM Tokens.

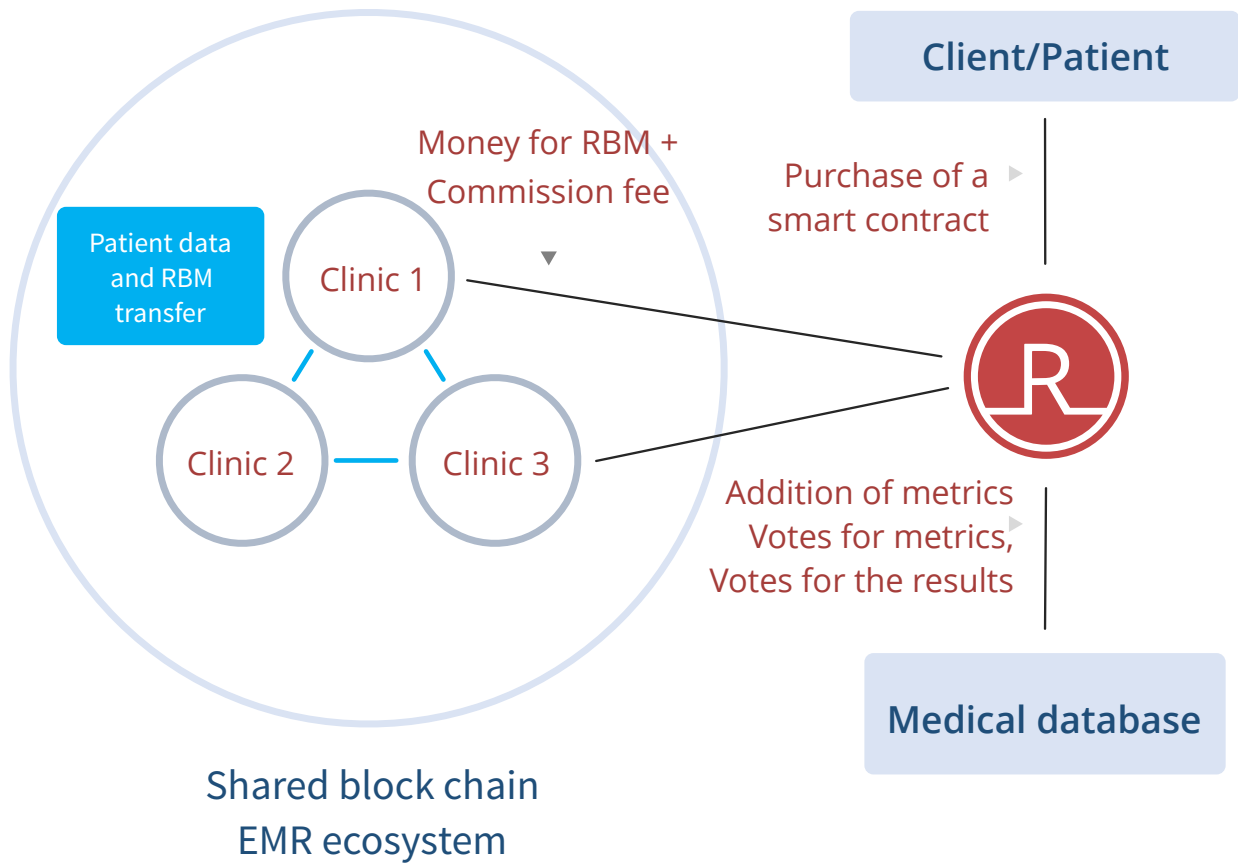


Figure 3.Ecosystem of Robomed Network

- Patient controls the medical data with Robomed mobile, powered by block chain technology.
- All interactions with medical data are securely recorded on the block chain.
- Healthcare providers can participate in one smart contract together.
- All members of the ecosystem are bind by one true purpose.

5. RBM, the Robomed Network Token

RBM is an Ethereum token, which serves as a tool for securing transactions in the Robomed Network. It can serve as a means of paying for medical services between the patient and the provider, between two or more providers, two or more patients, or between the provider and the provider's employee. RBM complies with the ERC-20 standard. The RBM smart contract guarantees:

1. Transparency
 - 1.1. Balance. Information about the number of tokens in circulation is public.
 - 1.2. Transfer. All information about a transfer is public and can be tracked in real time.
2. Ownership Rights
 - 2.1 Volume. Only Ethereum users and contracts can be holders of tokens.
 - 2.2. Uniqueness. Each token belongs to only one user – the owner. There is no joint possession of the tokens.
 - 2.3. The right to transfer. A token can be transferred to another user only through a direct command of its owner or the command of its recipient at the direct permission of the owner. The transfer of tokens can't be authorized by another user.
3. Restriction on Release of Tokens
 - 3.1. Exclusiveness of the issue. Only one user, the owner of the contract, can issue tokens.
4. Contract Management
 - 4.1 Replacement. The owner of the contract may waive his or her ownership rights in favor of any other Ethereum user or contract.
 - 4.2 Blockade. The contract holder may at any time stop or resume the transfer of tokens between the holders of the tokens.
5. Other Provisions

5.1 Return to initial state. Any team facing a contract that causes an error shall not change the balance of the tokens or the User Ether, except for the gas used to make the transaction.

5.2 Limits. A maximum number of tokens in circulation can be set and executed.

A smart contract does not guarantee the following ("Provisions on Uncertainty"):

1. Reality of the user. An account with a positive balance of tokens may or may not be a real Ethereum user or contract, and, consequently, may or may not have a private key. The tokens transferred to a user may thus be lost.

2. Stock of the Ether. The contract prohibits most but not all possible ways by which the Ether can be transferred by users who are not contract holders.

5.1. Emission of RBM

Demand for RBM is provided by the properties of a smart contract. The possibility of decentralized settlements with the healthcare provider in terms of the latter's fulfillment of the values of the medical service is a preference factor tested on the target audience. As a result, the provider connected to the Robomed Network gets a competitive advantage.

A minimum volume of tokens does not exist: healthcare providers are already connected to the Robomed Network, and new providers are already in the connection process as of the date of writing of this document. Any RBM Token purchased can be implemented into a medical service under a smart contract at any time after release (December 19, 2017, 15:59 PM (PST)).

The current limit of 1 675 million of RBM Tokens is established on the basis of the forecast of the annual throughput of healthcare providers connected to the Robomed Network at the end of 2017. The current throughput, as of June 26, 2017, is \$59,322,033 per annum.

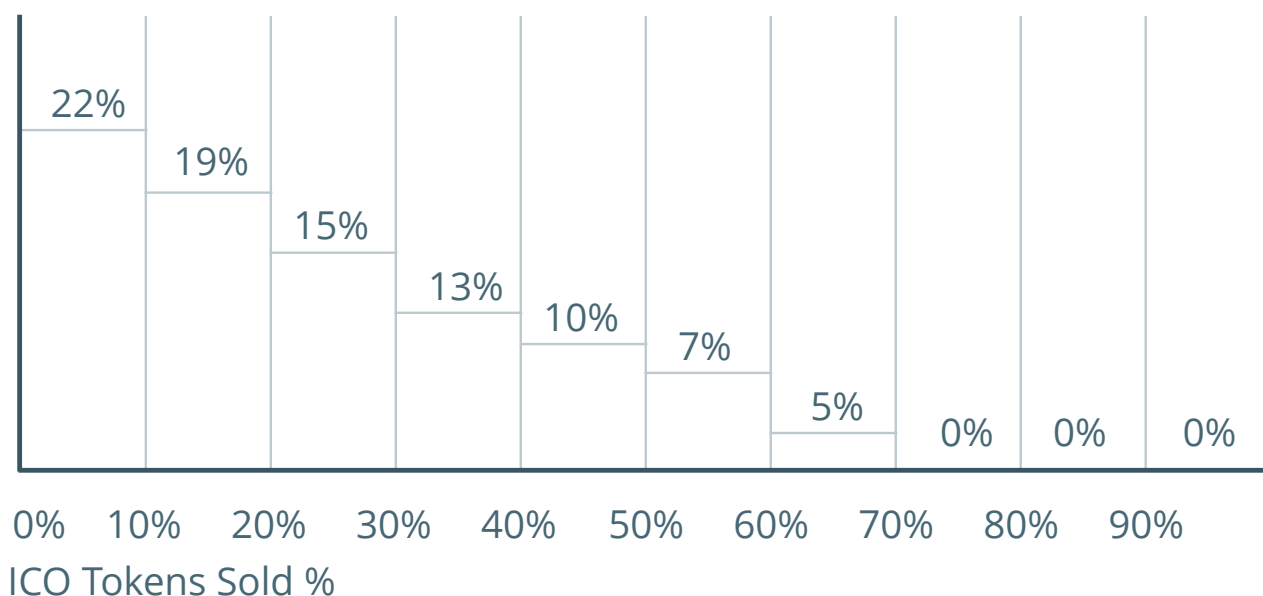
If the demand exceeds the established limit on the volume of RBM Tokens offered for sale, which means that the Robomed Network does not have enough healthcare providers to fulfill all medical services equivalent to the number of purchased RBM Tokens within a year, a queue for medical services will be formed in the order of buying of RBM Tokens. Funds received in payment for services that cannot be provided within a year due to the limited throughput of the Robomed Network will be placed in an escrow account until such a possibility arises.

RBM Tokens held to the distribution in favor of the team will be distributed only when there are no funds left in the escrow account waiting to increase the annual capacity of the Robomed Network.

The initial value of the RBM Token depends on the acquisition date. Step bonus system depends upon the percent of tokens sold.

RBM Tokens will be offered with a discount rate starting at 22% while dropping down subsequently.

1 ETH = 2000 RBM



5.2. Model of RBM Circulation

Released RBMs get into the patient's account when they purchase a smart contract for medical services. Upon fulfillment of the terms of the smart contract by the provider or group of providers, RBM gets to the provider and then can be used to pay for the services of other providers connected to the system, or exchanged for other currencies.

Healthcare providers pay a commission from their own turnover of RBM to the Robomed Network. The commission is automatically collected according to the results of a transaction.

At the project development stage, until the demand for value-oriented medical services reaches the saturation limit, it is expected that monthly purchases of RBM will exceed RBM

sales (exchange for other currencies). Thus, the price of RBM will grow over the long term, backed by the real product fulfilment with confirmed demand.

5.3. Ecosystem Management

The Robomed Network includes a tool for decentralized management of the criteria for the effectiveness of medical services. The active involvement of the professional medical community will be motivated by RBM payments for each vote, and the competence of holders of RBM Tokens admitted to professional medical voting will be checked throughout the authorization process. To authorize a member of the medical community of the Robomed Network, it is necessary to register in Robomed Web and apply for membership. The process of authorization of a member of the medical community requires mandatory confirmation of such a person's identity, medical education, current license or certificate.

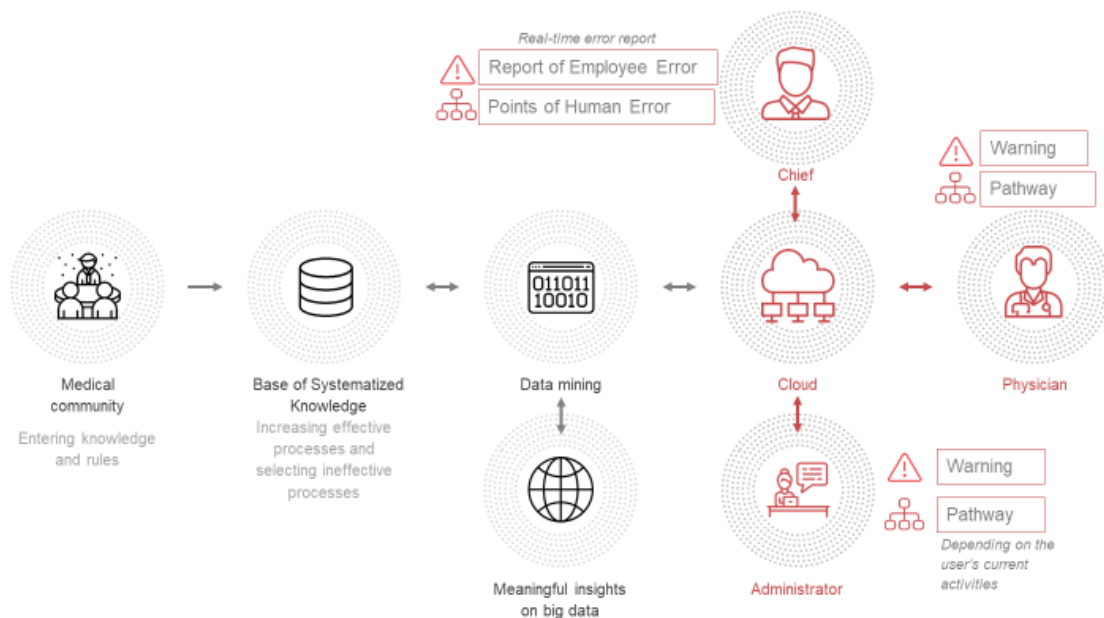


Figure4.The scheme of Robomed Network and healthcare provider workflow

The Robomed Network Patient Community is a public vote for all RBM Token holders without an authorization process. It defines priorities in the order of medical-community voting and criteria for standard-compliant medical services of the Robomed Network.

As part of the Robomed Network, basic criteria for the effectiveness of medical services have already been implemented and defined, and a pool of authorized members of the medical community has been formed. During the development of the ecosystem, this pool will grow

steadily, thereby increasing the volume and quality of the medical-knowledge database of the Robomed Network and at the same time enhancing the effectiveness of medical services.

5.4. Changes in the Ecosystem

The Robomed Network project team did everything possible to envisage the future of the ecosystem in the smallest details. However, the practical application of a smart contract in healthcare is a step that we are the first ever to take in the entire global industry. Therefore, the Robomed Network reserves the right to add to and modify the current configuration of decentralized mechanisms of establishing criteria for the effectiveness of medical services.

Also, we are always open to ideas and suggestions put forward by members of the Robomed Network community.

6. Conclusion

The Robomed Network is a bold step forward in the progress of one of the most conservative fields of human activity. Healthcare business today is in dire need of change, more than any other area of commerce.

The Robomed Network does not try to change the course of medical research or offer revolutionary methods of treatment. We have created a new tool that helps the patient and the medical community to choose the right priorities in the process of their interaction. The tool is both convenient and time-saving for the patient, and it provides economic incentives for healthcare providers to live up to their important mission.

Join our community of like-minded people – let's improve the healthcare industry together!

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