



BIORITMAI

PERSONALIZED MEDICINE OF FUTURE

CONTACT INFORMATION:

<https://bioritmai.com>

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CONTENTS

Brief description of the project	3
Introduction	3
Premises to making a project	6
Solution – project of system Bioritmai	10
Aim of the project	10
Mission of the project	10
Background of the project	13
Competitors	14
Differences from the existing solutions	15
Target audience	15
Market and industry	16
Bounty program	17
Map of development (Roadmap)	18
Project economics	19
Raised funds distribution	21
Visualization of the project with a brief description	23
Legal aspects	25
The project team	26
Glossary	29
Conclusion	31

Brief description of the project

Bioritmai is a publicly available system for monitoring the state of the body and early detecting of circulatory system diseases (CSD). It belongs to the sphere of personalized medicine and is developed with the use of blockchain technology. Bioritmai is designed to struggle with one of the main causes of mortality from cardiovascular diseases.

Our aim is personalized forecasting of risks, detecting and analysis of cardiovascular diseases, which includes use of technologies of deep neural networks as well as a biorhythm-bracelet, in which high-accuracy sensors for determining arterial blood pressure, heart rate (pulse), body temperature, saturation of blood with oxygen, electrical activity of the skin, electrocardiogram (ECG), measuring the dynamics of human body's biorhythms will be used. Further on the list of measured biomarkers will be expanded and the functional will be constantly improving.

The Bioritmai system was created to simplify the exchange of data, to forecast dangerous pathological disorders and to take measures to eliminate them on time.

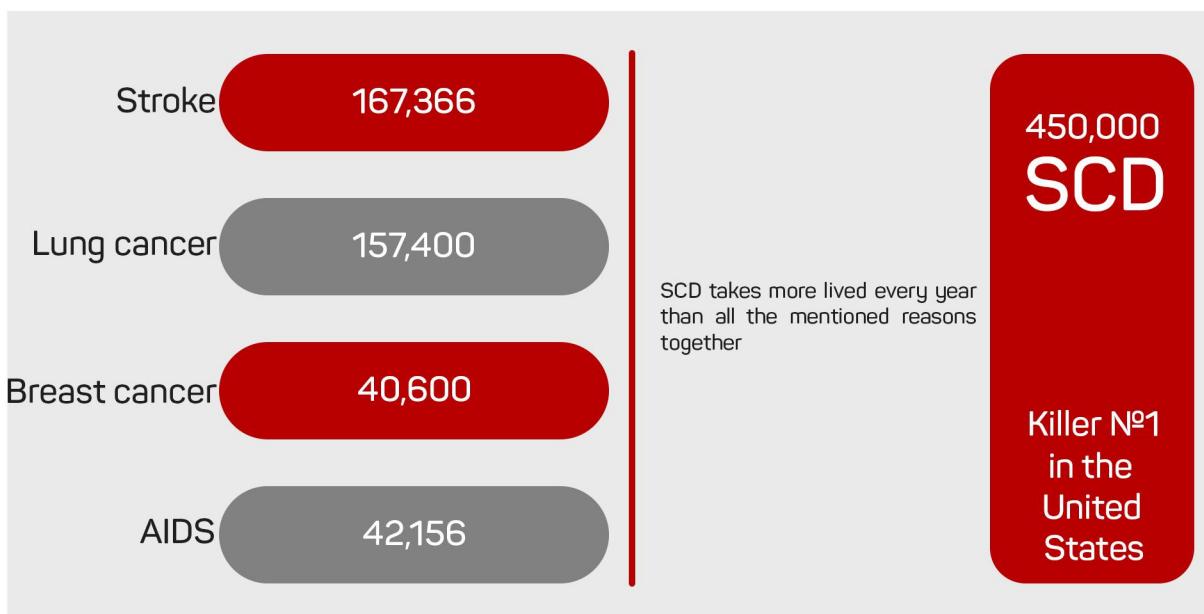
Introduction

The main priority is human life and health, therefore the goal of all persons concerned is the effective use of limited resources in order to meet the population's requirements in supporting health.

As the average life expectancy of people has increased, the number of the elderly people is growing either, which, in turn, increases the demand for medical care.

Nowadays the world healthcare system can't ignore any more all the innovative achievements in the spheres of IT, radio electronics, network and mobile technologies, which are developing in geometric progression.

A huge amount of expensive medical equipment, produced in the world, is intended to improve the quality and treatment of the patients. Nevertheless, sudden cardiac death (SCD) still continues to lead in statistics of mortality. Thus, in the USA, one of the most technologically developed countries in the sphere of health care, SCD is the No. 1 death reason in the structure of mortality.



Geography	Occurrence	Surviving
All the population	3 000 000	< 1%
USA	450 000	~ 5%
Western Europe	400 000	< 5%

Electrophysiological community [Electronic resource]. URL: <http://www.ep-society.org/vss3/>

Annually it carries away 450 000 lives in the USA, which means 1200 people daily. Thus every minute one American dies all of a sudden, whereas in the world it is about 8220 people daily.

The first place in the structure of the immediate causes of sudden death (SD) is occupied by heart rhythm disturbances - 88%.

It's quite logical that CSD can't develop without precursors, but exactly the identification of these precursors on time is a big problem in fact.

Routine diagnostic methods, including Holter ECG monitoring, 24-hour monitoring of blood pressure (BP) – don't allow to identify the "predictors" of life-threatening heart rhythm disturbances and other urgent conditions on time. They also don't allow to analyze and determine how these violations will develop in the future due to the time frame and often to the "human factor". Moreover, the necessity of this examination is performed by a doctor only on certain indication. In order to provide a personalized approach to the patient and assess the potential threat to his health and life on time, it is necessary to create a system, which:

allows constant monitoring of the main biomarkers, which are analyzed by a special automated network online. It makes it possible not to visit health care facilities so frequently and lessens the overemployment of medical personnel;

allows to send the patient to get specialized medical care on time, or, if a critical situation occurs, ensure the call of emergency medical care to the location of the patient;

allows to interact its personalized device both with the others, which are implanted in the patient's body (ECS (electric cardiostimulator), ICD (implantable cardioverter-defibrillator)), and with that gadgets of the patient, which are in the zone of visibility of the device. It can have both analytical and practical significance;

doesn't bring the patient any discomfort in the process of his daily life, at work, at the moments of sleep and rest.

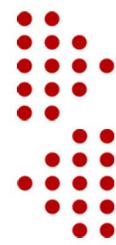
Bioritm is just such a system:



YOU



PERSONALIZED DEVICE
(BYORHYTHM BRACELET)



AI-NETWORK

Premises to making a project

The studies carried out by the World Health Organization (WHO), showed the data, which allow us to talk about the causes of pre-term death of the inhabitants of our planet. There are lots of them, but cardio-vascular diseases are the main and the most widespread cause of death today. About 17 million people die from heart disease annually, thus, 7.2 million people die from coronary heart disease (CHD), and 5.7 million die as a result of a stroke.

Data provided by the World Health Organization:



World Health Organization [Electronic resource]. URL: <http://www.who.int/mediacentre/factsheets/fs310/en/>

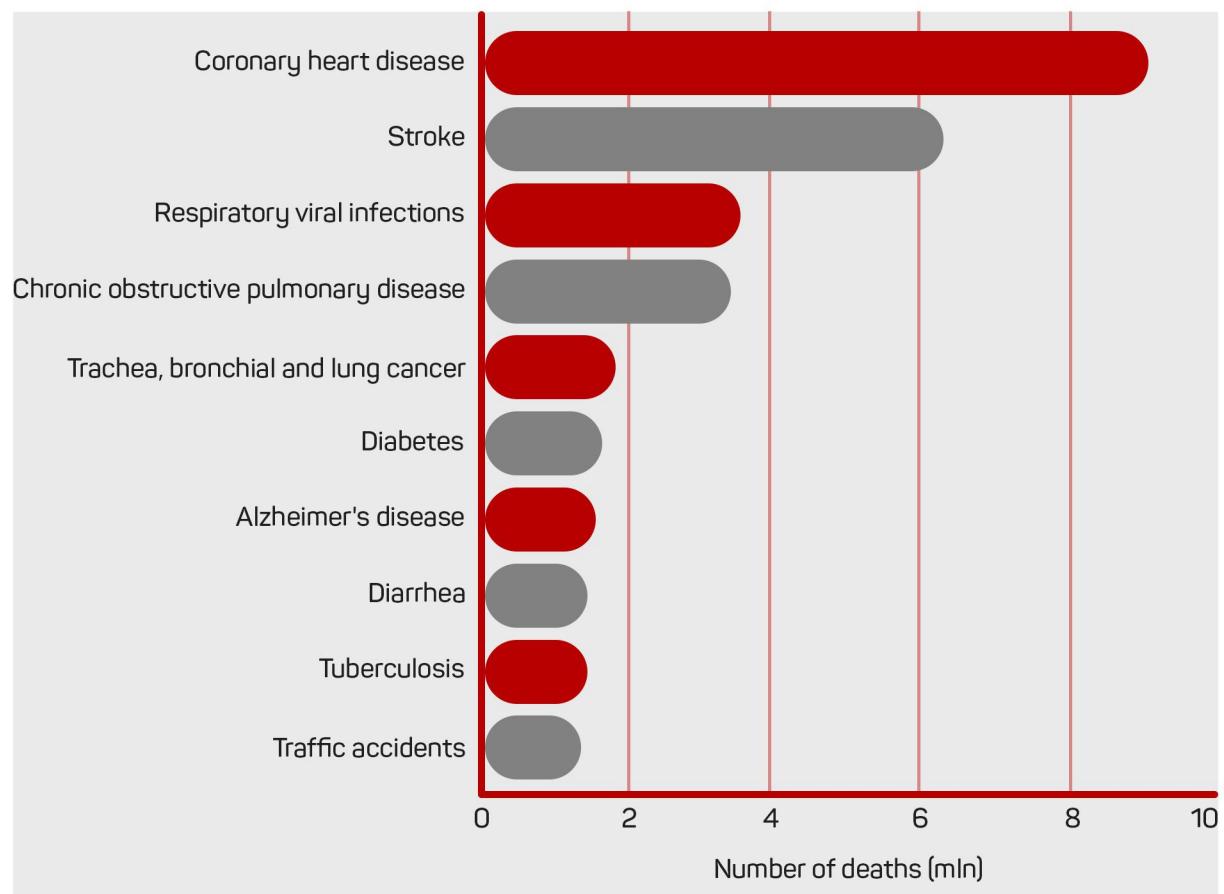
As you can see from the table, cardiovascular diseases "lead" with a wide margin. According to WHO, about 23.6 million people will be dying of cardiovascular diseases annually by 2030

The most terrible thing in diseases of the cardiovascular system is that in most cases they are unnoticed. The person does not feel that something is going to happen. The disease appears suddenly when everything seems to be good.

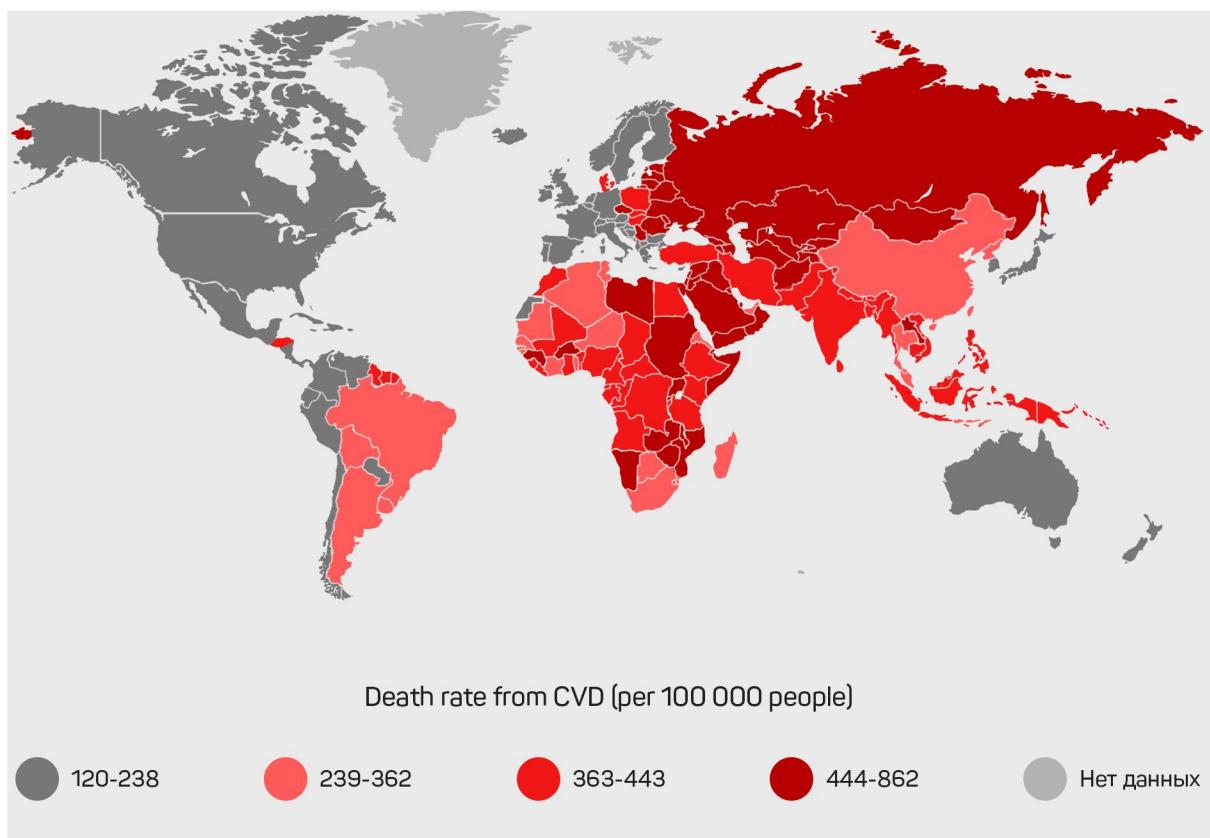
Most people don't realize that the cost of drugs and the recovery of the body while treating serious illnesses is much higher than the means that could be spent on the prophylaxis and prevention of the disease. Not everyone understands that cardiovascular diseases often lead to irreversible violations (heart attack, stroke) and even death.

Throughout the world the main cause of death is the CSD, and in order to detect them on time we need monitoring and control methods of CVS.

10 leading causes of death in the world (2015 r.)

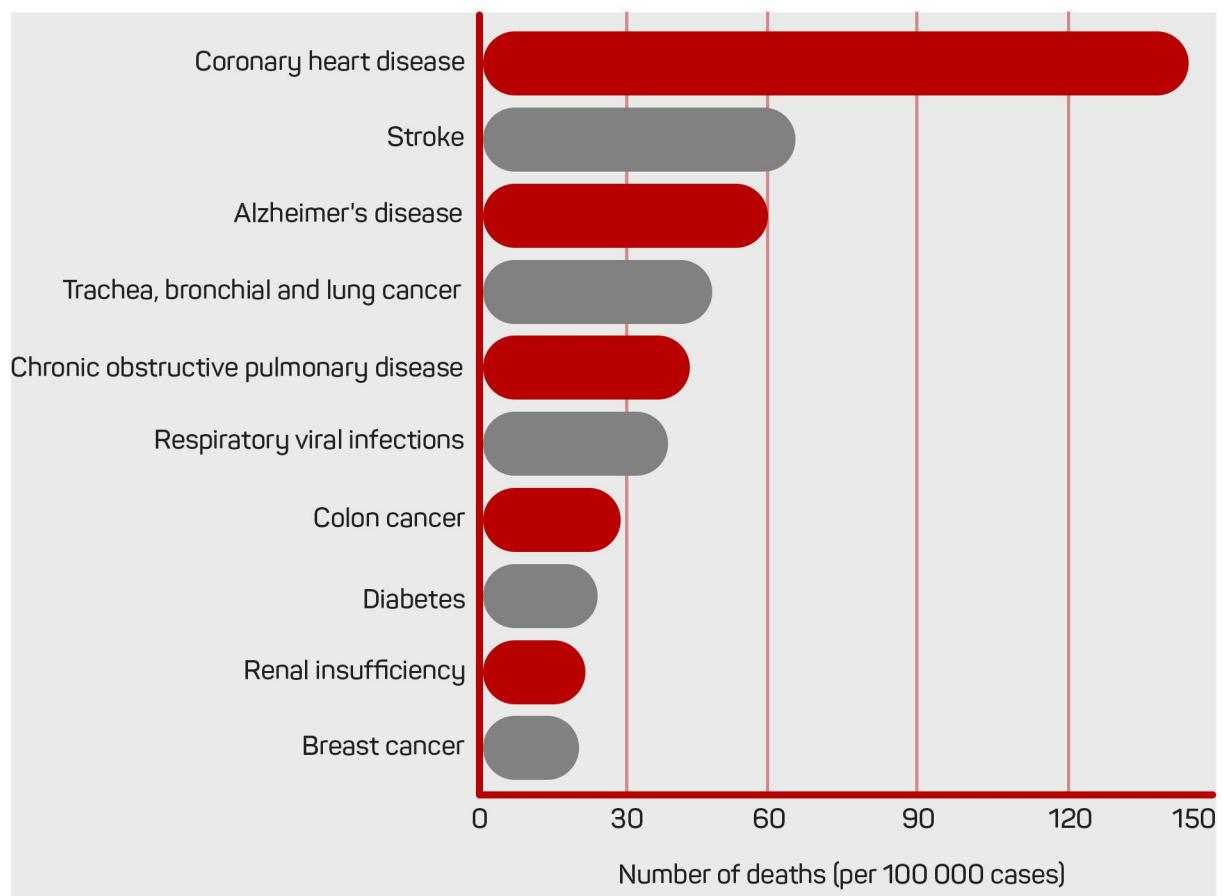


World Health Organization [Electronic resource]. URL: <http://www.who.int/mediacentre/factsheets/fs310/en/>



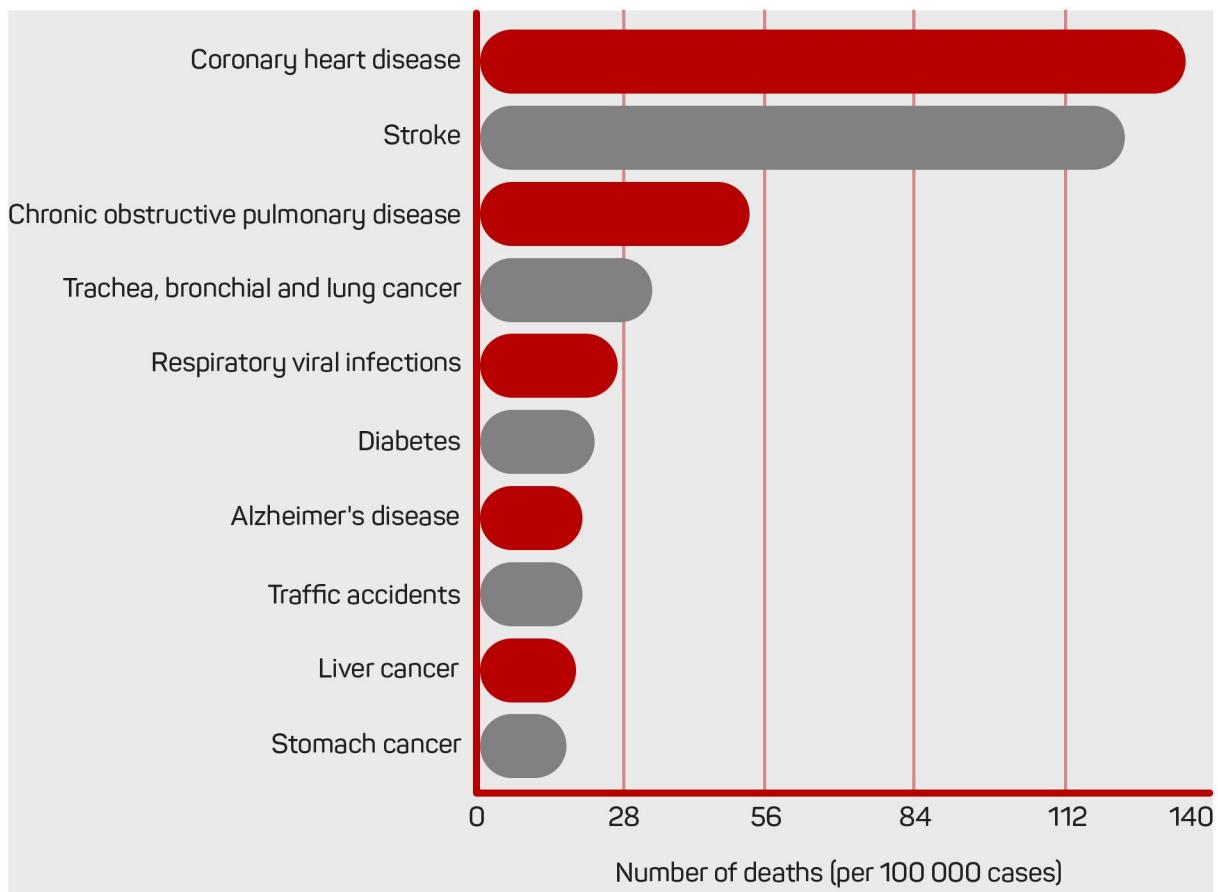
Medico – useful magazine for health [Electronic resource]. URL: https://medico.ltd/blog/2017/07/24/heart_ache_map/

10 leading causes of death in high-income countries (2015)

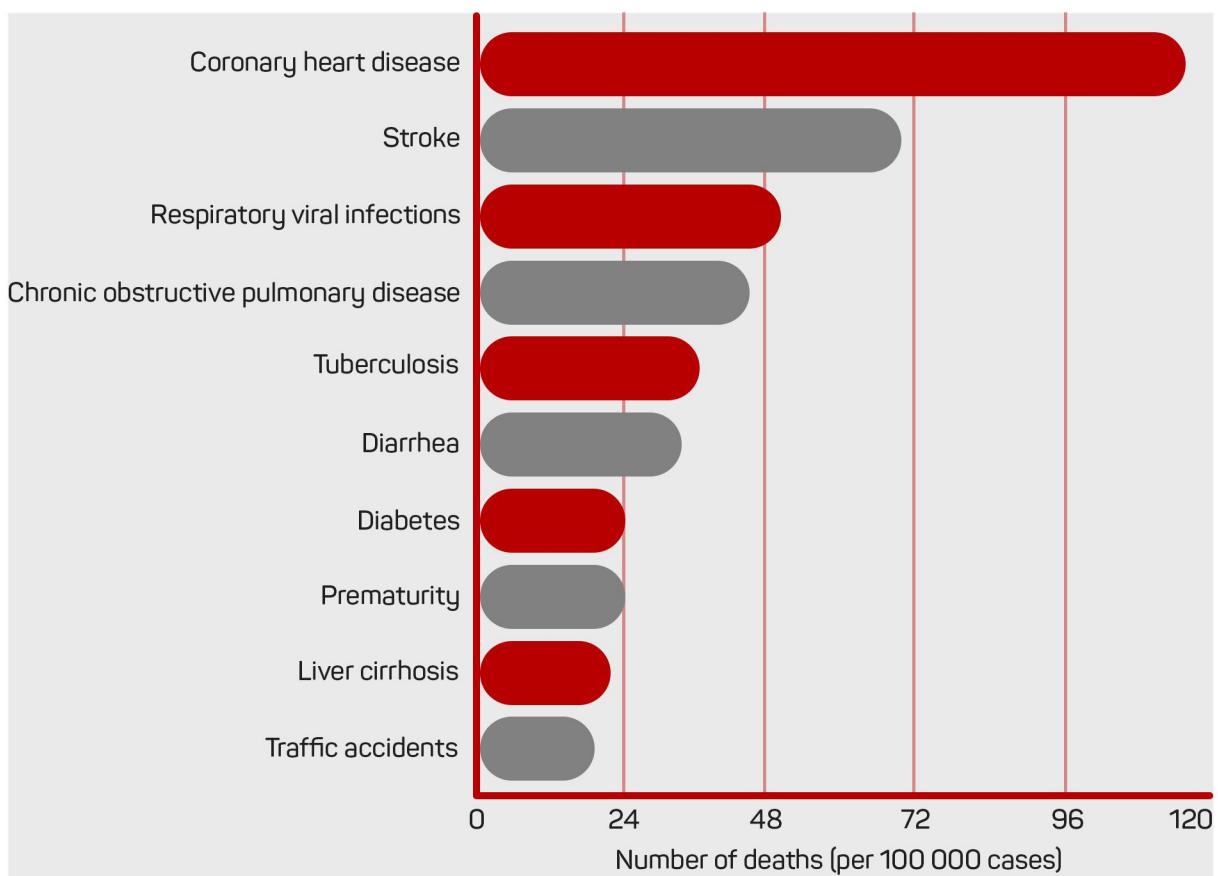


World Health Organization [Electronic resource]. URL: <http://www.who.int/mediacentre/factsheets/fs310/en/>

10 leading causes of death in middle-income countries (2015)



10 leading causes of death in low-income countries (2015)



There is a global shortage of doctors throughout the world. WHO estimates that the world lacks more than 4 million health care workers in various fields of medicine. Personalized medicine can help to solve this problem - artificial intelligence analyzes the status of the CVS, makes a prognosis, and the doctor can add some more diagnostics or make the final diagnosis.

Methods predominating at the present time are statistical. They can only ascertain the fact of violations, but can't be a means of forecasting risks. It means that their use does not allow the implementation of technologies controlling CVS. It is equally important to introduce highly effective biomedical approaches.

Solution – project of system Bioritmai

Aim of the project:

Forecasting and detection of dangerous pathological disorders in real time (precursors of fatal arrhythmias, myocardial ischemia, hypertensive crisis, shock, acute respiratory failure, etc.).

Mission of the project:

Making personalized medicine more available and giving each person the opportunity to monitor the state of their cardiovascular system uninterruptedly. It will help to prolong life and improve its quality.

Let's imagine a perfect mechanism, which works flawlessly and without failing. You are sure of it and trust it completely, but one day it can crash. Your heart is a perfect mechanism, it is important to take care of it and not miss its whisper for help.

Bioritmai is a publicly available system for monitoring the state of the body and early detecting of CSD. It belongs to the sphere of personalized medicine and is developed with the use of blockchain technology.

Biorhythm-bracelet is a device of a new generation, which uses modern high-accuracy sensors that can read the indications of all the main biomarkers of the human body.

In addition, it is an effective tool for monitoring patients with chronic diseases. Changing of biomarker readings can give a signal to artificial intelligence (AI) to make a certain decision, as well as send urgent information to the treating doctor in order to provide a patient with the necessary preventive medical care, which can help to avoid attacks or exacerbation of the disease, and perhaps to save life.

New technologies allow to monitor your health more thoroughly and with high quality. Besides there is no need to go to a health care facility to get a doctor's consultation, as you can get it by connecting with a doctor from any place in the world.

Medicine of future is, first of all, online health monitoring and ability to transfer its medical indications to AI in real time. AI in its turn will automatically analyze the received data, identify violations and the need for measures to correct them.

Gadgets in close connection with AI, which will be able to monitor the state of health without any breaks and make a diagnosis - this is how the real revolution in medicine will look like.

How does it work? The data are sent to the online system of Bioritmai, and then the deep neural network analyzes them, detects violations and on the basis of diagnosis, which was previously made by the artificial intelligence, decides on further tactics of behavior (storage, ignoring, transferring information to the doctor, transferring information to emergency health care service, patient's warning, etc.).

Besides, a patient who has already collected biorhythmic data can contact his doctor if there is such need, in order to clarify his diagnosis, or, if the situation requires, to carry out clinical diagnostics.

All the data, read by the bracelet, can be tracked independently: on the display of the biorhythm bracelet and in the Bioritmai application. Full access to the system is provided after the purchase of the license. The license is purchased only for internal system BRM tokens.

The data of your biomarkers are kept strictly confidential.

You can ask, what for do I need it? We state with confidence that there is nothing more important than human health and life. If your health and the health of your close people are important for you, you need a system for predicting and analyzing CVS diseases.

You should understand that a biorhythm bracelet can generate alert messages, react to taking certain medicines, smoking, alcohol abuse, physical activity, stress. With the help of sensors, the bracelet can read biomarker indicators in dynamics and monitor them, as well as inform the owner of the bracelet, AI and his doctor about the dangerous pathological condition in the body. But in order to get a full additional clinical examination, if it is necessary, the patient should consult a doctor. It means that if any problem occurs, there is no need to wait until the next day or until the indications improve; a person should immediately consult the doctor and carry out a full in-patient examination.

Background of the project

«Bioritm is the keeper of health on your wrist»

Time runs very fast in the modern world. During just one day we need to do so much: go to work, have a rest, meet with friends, and pay attention to close people. But in this eternal race for time, we forget about one thing – about health. It all started just one ordinary evening, when the dearest person for me felt sick. Luckily, at that moment I was nearby, at the right time and place.

«But in this eternal race for time, we forget about one thing - about health»

It is very difficult to recollect what happened and tell about it in details, but writing a story to others is even more difficult. I can only say that just at that moment something changed in me. Since that evening and for every minute I wanted to know how a close person feels.

The idea of monitoring health in the 24/7/365 mode came to my mind when it became difficult to combine care for a close person with work. At that time I planned it only for personal use, but when I came to the hospital to visit a close person, I saw that this problem affected not only us, but also a huge number of people.

«The idea of monitoring health in the 24/7/365 mode came to my mind when it became difficult to combine care for a close person with work»

With each such trip I had a growing understanding that it is necessary to help not only my family, but also all other people who face the problem of CVS diseases. The idea of creating personalized medicine came to me during the search for the information about causes and ways of prevention of cardiovascular diseases (CVD). I realized that almost all these diseases could be prevented if the first symptoms of the disease were identified on time. But how can it be done? I knew that it requires reading of all indicators in a round-the-clock mode. And just at moment I had an idea to create a **system which will monitor the indicators of human biorhythms in real time**. This process is possible with the use of a **biorhythm bracelet**.

«It requires reading of all the indicators in a round-the-clock mode. And just at this moment I had an idea of a bracelet »

Biorhythm-bracelet is a device of a new generation, which uses modern high-accuracy sensors that can read the indications of all the main biomarkers of the human body. With the help of the Bioritm system, it is possible to analyze the received data in dynamics and predict the risks of CVD.

«Sensors can read the indications of all the main biomarkers of the human body. With the help of the Bioritm system, it is possible to analyze the received data in dynamics and predict the risks of CVD»

With the help of this bracelet and the Bioritm system, I can be sure that my close person will always be under close supervision, and that these data will help the treating doctors to make the right diagnosis and order an appropriate treatment. I'm taking care of you, Mom, and I'm afraid to lose you!

Competitors

Having analyzed the market of health care and medical technologies, we have made a strong-willed decision not to compete directly. At the same time we encourage everyone for cooperation and open interaction in order to improve personalized health care and struggle with the diseases of the mankind.

Indirect competitors:

- Google Inc.;
- Apple Inc.;
- Knopka24.ru;
- Bolge –анализ;
- RocketBody;
- CarePredict;
- PIP – биосенсор;
- Helius;
- Opeka-telemed.ru;
- Healbe GoBe;
- Corenergy;
- Computer mouse ASUS, which monitors the health;
- Bandage, which tracks changes in body temperature;
- Others.

Differences from the existing solutions:

- data storage with the use of a block chain;
- Real-time monitoring of CVS;
- forecasting of pathological disorders in real time;
- dynamic monitoring of indicators;
- making a diagnosis with the use of AI.

The purchase of the license of the Bioritmai forecasting system will be carried out for the BRM tokens (using crypto currency within the system).

It is planned to introduce the possibility of paying for medical services in the partner company of Bioritmai for BRM tokens.

While studying and analyzing the received data AI will send individual recommendations for improving the indicators.

It is also planned to conclude contracts with insurance companies in order to provide discounts on health insurance.

Investors who have bought more than 500 000 thousand of BRM tokens will be able to order an individual design of the bracelet.

Target audience:

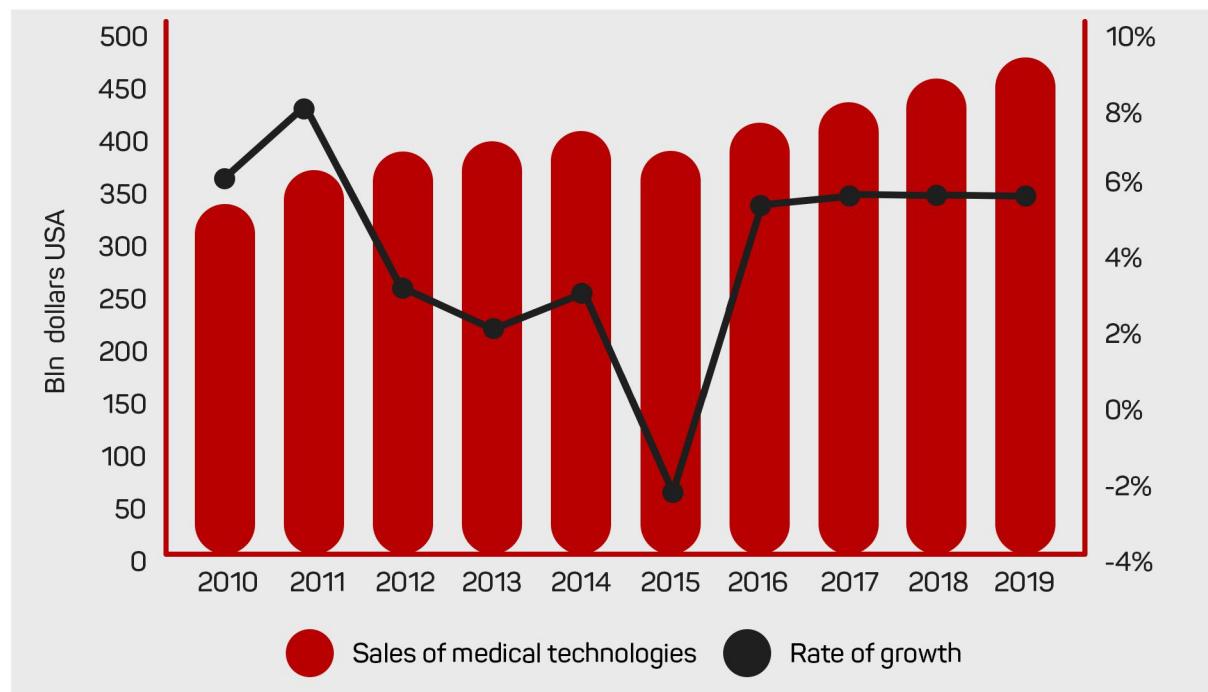
- people who are disposed to CVD (genetic burden, the presence of other chronic diseases);
- people, suffering from CVD;
- people who are on treatment after surgery;
- the elderly people;
- pregnant women;
- athletes;
- drivers.

We want everyone who cares about their health and the health of their close people to be our client, and we will do our best to achieve this goal.

Market and industry

According to Deloitte report of 2017, the world health market will reach a size of \$ 87 trillion by 2020.

Global sales level in the sector of medical technologies:



Deloitte [Electronic resource]. URL: <https://www2.deloitte.com/content/dam/Deloitte/global/Documents/Life-Sciences-Health-Care/gx-lshc-2016-life-sciences-outlook.pdf>

Intrauterine diagnostics is the largest segment of medical technology. According to experts, this index will not change in the next few years with the growth of the market to 5.1 % between 2014 and 2020. Sales in this segment are about \$ 673 billion or about 14% of the total market.

The distribution of investment into start-ups of the healthcare industry:



Rock Health [Electronic resource]. URL: <https://rockhealth.com/reports/2016-year-end-funding-report-a-reality-check-for-digital-health/>

The biggest absorptions in the sphere of digital medicine:

	Acquired By	Transaction Value	Prior Venture Funding	Investors
Truven Analytics	IBM	\$2.6B	Undisclosed	InvestMichigan
Netsmart Technologies	Allscripts	\$950M	\$4.5M	Andrew Carter Capital, Mosaix Ventures
Brightree	ResMed	\$800M	Undisclosed	Battery Ventures
Assurex	Myriad Genetics	\$410M	\$86.7M	Sequoia Capital, Claremont Creek Ventures
Cardon Outreach	MedData	\$400M	Undisclosed	Serent Capital
RevSpring	GTCR	\$400M	Undisclosed	CIP Capital
Valence Health	Evolent Health	\$219M	\$45M	Heritage Group, North Bridge Venture partners
Emmi Solutions	Wolters Kluwer Health	\$170M	Undisclosed	Primus Capital Partners
CenTrak	Halma	\$140M	\$832K	Undisclosed
HealthiestYou	Teladoc	\$125M	\$30.1M	Frontier Capital

Source: Rock Health M&A Database

Note: Only includes U.S. targets; data through December 31, 2016

Rock Health [Electronic resource]. URL: <https://rockhealth.com/reports/2016-year-end-funding-report-a-reality-check-for-digital-health/>

Bounty program

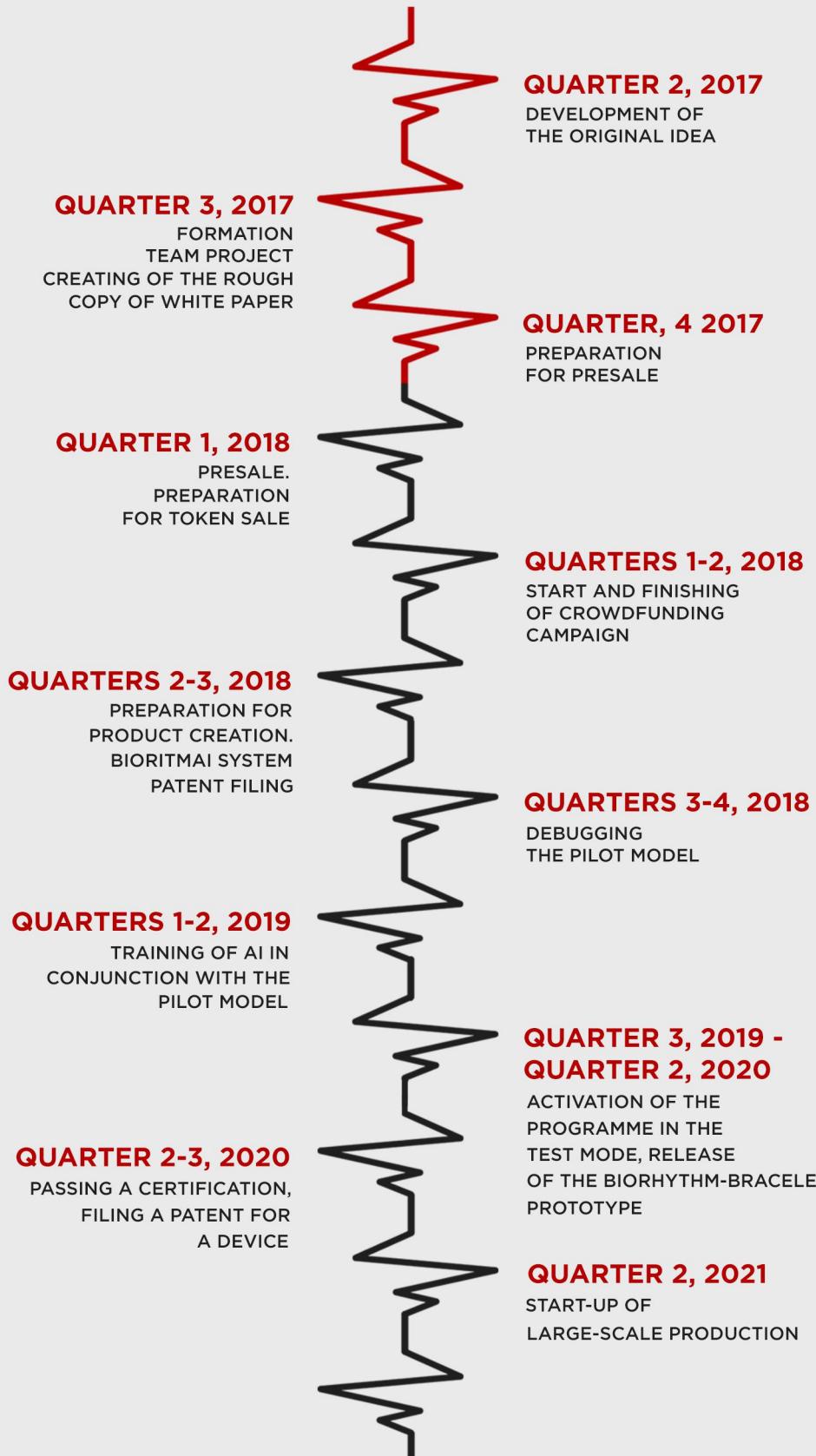
Period: from December 30, 2017 to the end of Token Sale.

In order to get tokens of the Bioritmai system, each participant can perform different tasks, such as:

- translation of the bounty-campaign post;
- publication of articles and their translations;
- likes and reposts;
- video reviews;
- others.

The BRM tokens are credited for each task; they can be received at the end of the Token Sale.

Map of development (Roadmap)



Stages and information contained in the development map, can change during the development of the project.

Project economics

Presale

Period: 30.01.2018 -13.02.2018

Hard cap: 1 379 000 USD

Price of the token: 1 USD

Number of tokens for pre-ITO: 1 379 000 RITM

Expenditure of funds after presale:

- legal assistance and advice: 650 000 USD;
- marketing and PR: 350 000 USD. It includes content preparation, support of users in chat rooms, press releases in mass media, translation of content into other languages.
- payment for the services of consultants and project assistants: 129 000 USD;
- team fee: 70 000 USD;
- risks: 100 000 USD;
- other expenses: 80 000 USD.

In order to raise funds for presale a smart-contract for Ethereum will be created. It will be publicly available Github: <https://github.com/Bioritmai>.

A Multisig wallet will be used for storing funds collected during the presale. 3 signatures out of 4 will be needed to expend the funds.

All reporting on the purpose of expending presale funds will be published in the official blog of Bioritmai: <https://medium.com/@Bioritmai>.

Presale RITM tokens will be converted into VTI-tokens during token sale in a ratio of 1 to 2.

Token Sale

The beginning and the end of the sale campaign of the tokens: 16.04.2018 - 16.06.2018 (or upon reaching Hard Cap).

Soft Cap: 60 000 000 USD.

Hard Cap: 121 273 085 USD.

Price of the BRM token: 1.8 USD.

Number of released tokens: 102 758 000 BRM

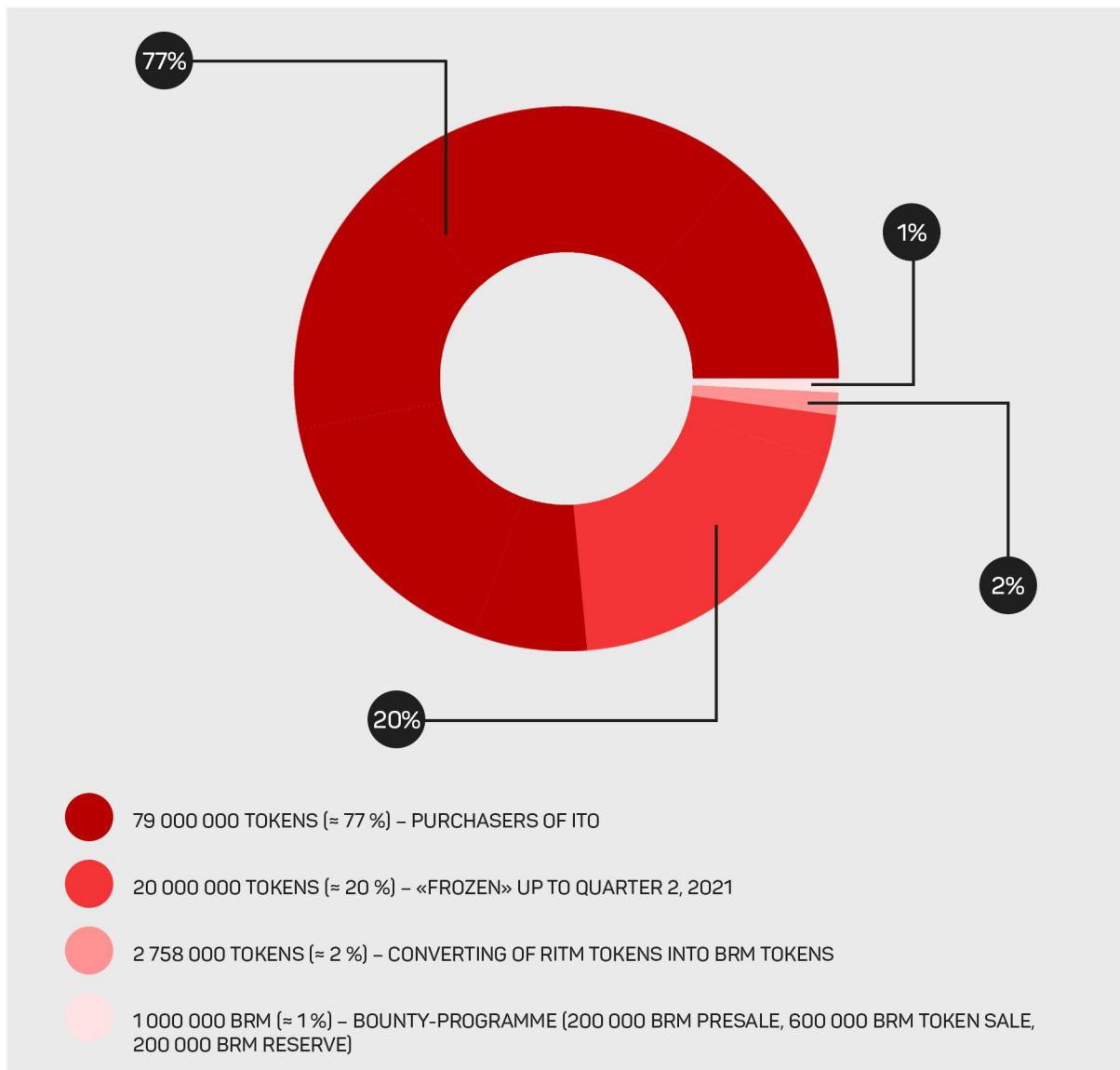
Number of tokens for sale: 79 000 000 BRM

The algorithm of Token Sale

It will be additionally notified after the pre-ITO campaign.

Distribution of BRM tokens on Token Sale

Total: 102 758 000 BRM million tokens, of which:



Freezing of tokens

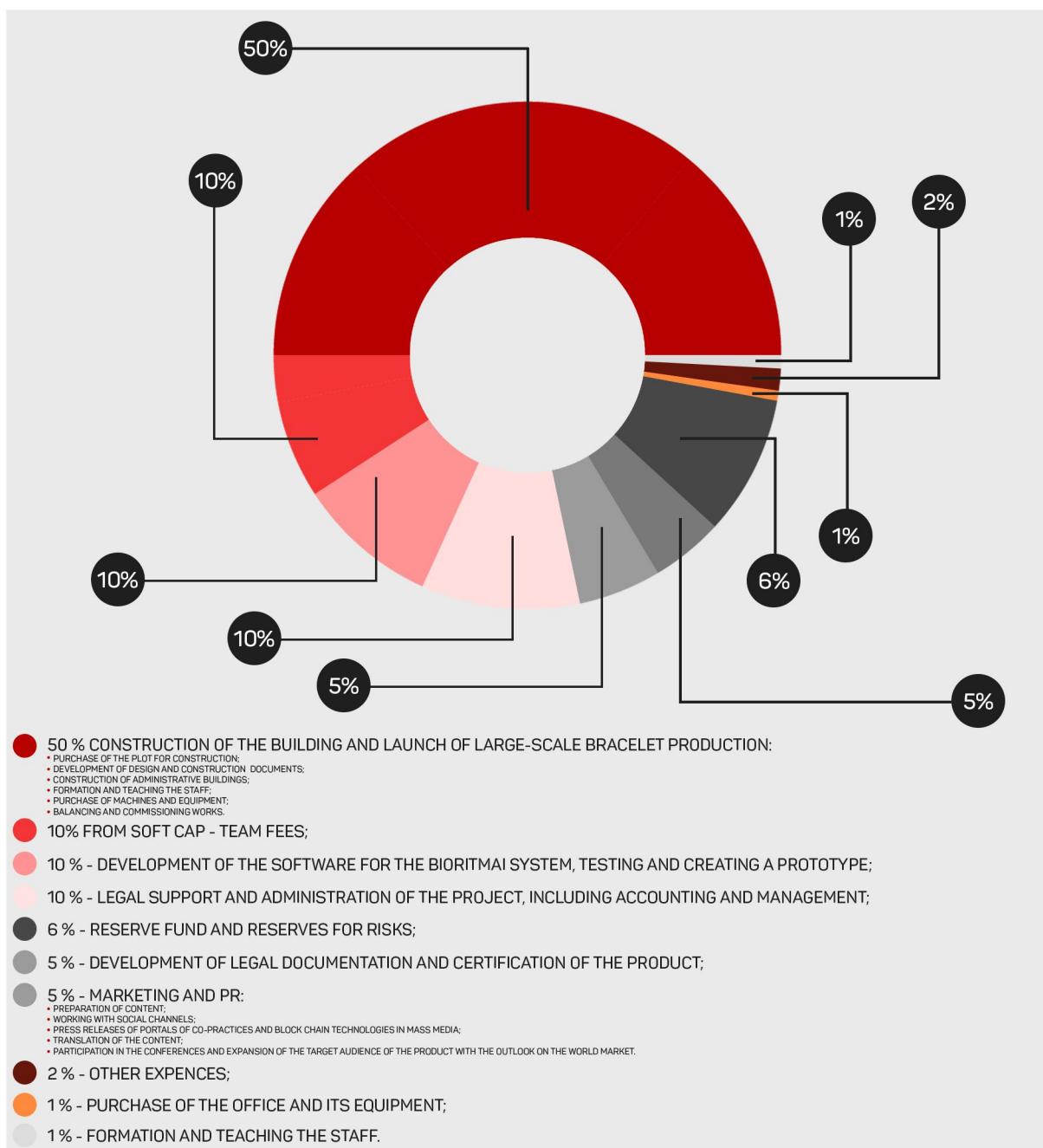
In order to prevent the possibility of accumulation of a large number of BRM system tokens in "one hands", we have frozen 2096 tokens for further sale of the official system licenses to new users.

Bonuses depending on the time of investment (discounts for the purchase of tokens):

- 45% discount until 10 000 000 \$ is collected;
- 25% discount until 35 000 000 \$ is collected;
- 15% discount until 60 000 000 \$ is collected.

Distribution of attracted funds after Token Sale

The attracted investments are spent in the following directions:



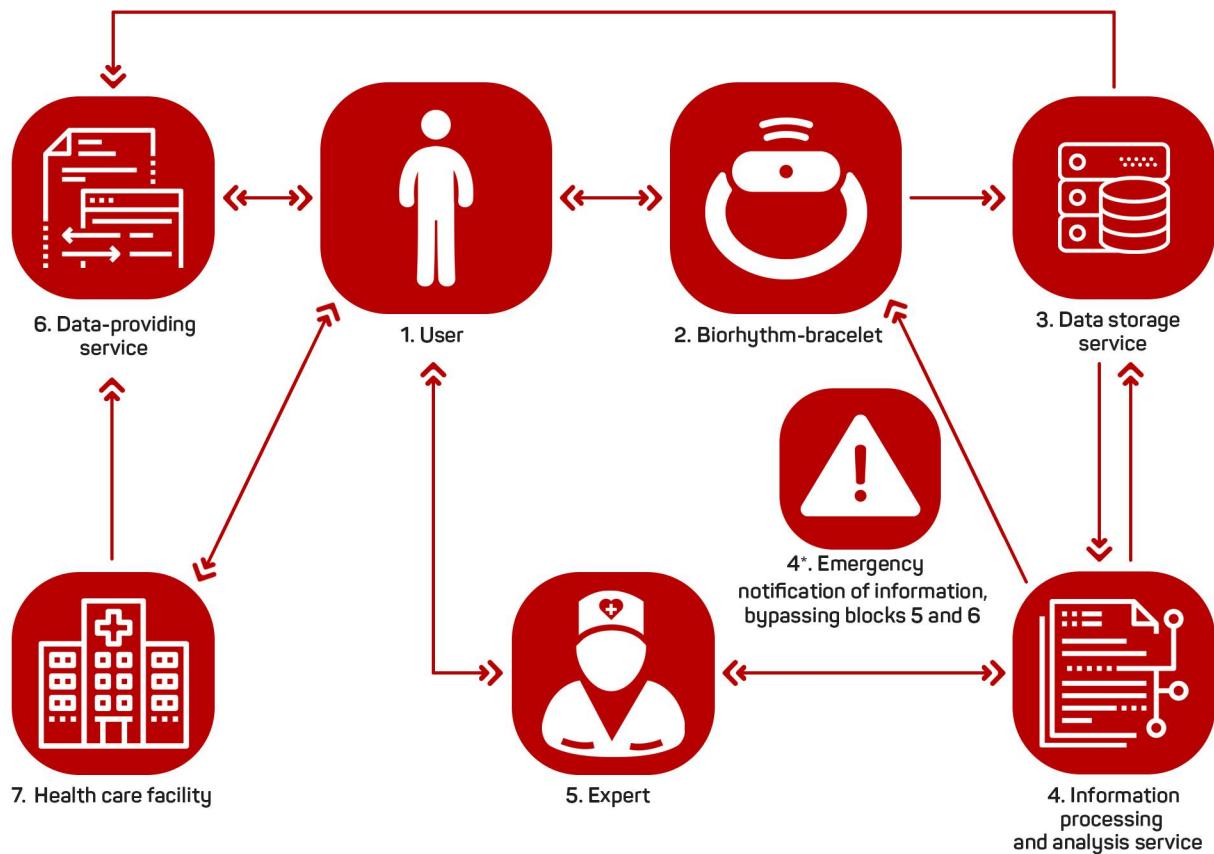
Dividends are not paid out

The Bioritmai project is a non-profit organization, the Bioritmai system BRM token is a utility-token and is used within a system as a means to acquire a license, to pay for services, buy a biorhythm bracelet.

Income after the start of the main production

- sale of biorhythm bracelets;
- sale of licenses for the Bioritmai system, which will be realized through not only purchasing of full access for certain time intervals, but also through the possibility of purchasing perpetual use. Purchasing a license for using all the functions of the Bioritmai system can be realized only for BRM tokens;
- cooperation with insurance companies;
- the possibility of selling licenses for access to statistical information for individuals and organizations engaged in research activities is being considered.

Visualization of the project with a brief description



1. The user himself is the object of observation.

2. **Biorhythm-bracelet** is a device of a new generation, which uses modern high-accuracy sensors that can read the indications of all the main biomarkers of the human body.

3. **Data storage service.**

Information Security:

- protection against DDoS-attacks from three leading companies in Europe;
- database encryption;
- encryption of traffic;
- restricting of access to server resources of the project.

Fault tolerance:

- protection against DDoS-attacks from three leading companies in Europe;
- application of algorithms of network stack load distribution;
- clustering of all used nodes;

- database replication;
- indexing, the use of cookies and cashing;
- monitoring of network nodes on load objects and availability of company nodes, working capacity of services and analysis of suspicious activity.

Unchangeability:

- hashing of data blocks with the further placement of hashes into the block chain.

4. Information processing and analysis service :

- the preliminary diagnosis is made by the distributed trainable neural network;
- gives recommendations on visiting a health care facility through a bracelet or a service, which provides information;
- emergency notification;
- interaction with an expert (training AI, correction of diagnosis).

5. Expert:

- teaching distributed neural networks;
- correction of diagnoses;
- maintenance of databases;
- medical consultations.

6. Data-providing service

Website and application:

- cross-platform and availability with minimal response time, regardless of your geolocation;
- providing and generating data in a convenient and understandable way;
- construction of graphs based on the received data;
- providing data on the object and / or a group of objects under research;
- user and extended modes of providing the received data;
- formation of an electronic medical information card.

7. Health care facility:

- a polyclinic or inpatient health care facility, where the user gets service or is under supervision;
- emergency medical service.

Legal aspects

Legal status of the token:

- buyers of the token are not investors;
- bioritmai (BRM) – токен – application (utility) token;
- buying a token is buying a license for access to software and personal data;
- the sale of tokens occurs on the basis of an offer;
- token owners don't have restrictions on reselling tokens to others;
- the token is not a valuable security / investment according to Howey Test:
- the token is purchased for money or their equivalent;
- the organizers of the token sale are a group of people united into one enterprise;
- there is no and there is no plan to pay dividends to the holders of the tokens;
- the token is not a bond-debenture, the issuing institution does not pay a regular % on the loan to the holders of the token;
- BRM token is the only means that allows you to access the personalized Bioritmai system;
- due to this legal status, a token can be legally purchased and sold for crypto assets.

Information on the Howey test can't be a legitimate document to confirm the status of the token; it only expresses the opinion of the person who made such a conclusion.

RITM and BRM tokens can be purchased by anyone except the citizens of the United States, China, Singapore, North Korea, Syria, Iran, Sudan, Bangladesh, Bolivia, Ecuador and Kirghizia.

The project team



Vladimir Berzhanin

Project head manager

Experience in IT development - more than 10 years. Worked for Internet service provider; working experience at the position of a systems engineer. Individual entrepreneur for more than 8 years. - Graduate of the Minsk Radio Engineering College (Minsk) - Graduated from the Faculty of Economics of Electronic Business of BSUIR (Minsk), specialization - economist-programmer. Specialization: technician-programme



Dmitry Voronkov

System Architect

Experience in IT development - 6 years. Dmitry deals with installation and configuration of network and information services, distribution of network load, clustering of nodes, replication of databases, monitoring of nodes of the network for SLA, analysis of nodes by IS (IDS / IPS + SIEM), data backup. Took part in the development of emulators for a Java platform. Specialization: system administration, network security



Aleksey Tarasov

Programmer

Experience in IT development - more than 9 years, including managerial positions. Alexey participated in scientific projects in physics. Specialization: physics and computer science



Gennady Burkas

General physician

The doctor-therapist of the first qualification category, the health official of the first qualification category. Experience in healthcare for more than 25 years. The head of structural units, the deputy and the head of medical institutions. - Graduate of the Grodno State Medical Institute (Grodno) - Graduate of the Belarusian Medical Academy of Postgraduate Education (Minsk)



Vadim Pankovets

Cardiologist

More than 15 years' work experience in the sphere of public health. Current job - cardiologist in the infarction department of the Minsk Regional Clinical Hospital. Experience in admission office management; 4 years' work experience in the ambulance system. Hobby: applied medical physics, biophysics. - Graduate of the Belarusian State Medical University



Vladislav Zvansky

Graphic designer, retoucher, web designer, digital-artist

Experience in Graphic design - more than 5 years. Professional user of Adobe Photoshop CC 2017 and Adobe Illustrator CC 2017. Specialization: identica, development of site layouts, photo processing, logo design, printing products design development, printwork, social networks groups and web pages design. - Graduate of the Trade and Economic College (Molodechno). (Minsk) - Graduate of the BSUIR



Tatyana Berzhanina

PR-director

More than 6 years' work experience in the sphere of mass media. Experience in holding of press events, social projects, attracting audiences, planning and implementing PR companies. SMM-specialist



Alexander Kraskovsky

Bounty-manager

Specialization: system administration of PCs, hardware peripherals, networks, servers. Experience in sales, PR-promotion. - Graduate of the Belarusian National Technical University, (Minsk) Specialization: programmer engineer



Dmitry Kovalev

Programmer

Experience in IT development - more than 8 years, including managerial positions. Dmitry coordinated the implementation of complex business projects in large organizations, supported the continuous operation of network infrastructure in more than 40 companies

Glossary

Personalized medicine is a set of methods for the prevention of the pathological condition, its diagnostics and treatment in the case of occurrence, which are based on the individual characteristics of the patient.

Preventive medicine is the ideology and methodology of personified management of the state of health and body reserves, which are aimed at prolonging a full-value healthy life of a person. Its main task is not the treatment of diseases, but the identification of changes in the body that can lead to diseases, as well as the adoption of targeted measures aimed at preventing diseases.

The cardiovascular system (CVS) is a system of organs that provides BLOOD CIRCULATING in the human body. Due to its activity, oxygen and nutrients are delivered to the organs and tissues of the body, and CARBON DIOXIDE, other metabolic products and waste products are removed from the body.

Biomarker (biorhythm) is a characteristics (biological sign), which is used as an indicator of the state of the whole organism.

Pulse is a biomarker (from Latin pulsus - impact, push), which represents jerky oscillations of the walls of arteries, associated with cardiac cycles. In a broader sense, the pulse is understood as any changes in the vascular system associated with the activity of the heart.

Blood pressure is a biomarker, one of the most important parameters characterizing the work of the circulatory system. Blood pressure is determined by the volume of blood, pumped by the heart in a unit of time, as well as the resistance of the vascular bed.

The upper number is systolic blood pressure, which shows the pressure in the arteries at the time when the heart contracts and pushes blood into the arteries; it depends on the force of the heart contraction, the resistance of the walls of the blood vessels and the number of contractions in one unit of time.

The lower number is diastolic blood pressure, which shows the pressure in the arteries at the time of relaxation of the heart muscle. It is the minimum pressure in the arteries, which reflects the resistance of peripheral vessels. As the blood moves along the vascular bed, the amplitude of the blood pressure fluctuations decreases, and the venous and capillary pressure don't depend a lot on the phase of the cardiac cycle.

Frequency of respiration is a cardio marker, which reflects the frequency of respiratory movements in 1 minute.

Electrocardiogram (ECG) is graphic recording of electrical potentials, which accompany the work of the heart, on a moving paper tape or other carrier.

The body temperature is a biomarker, a complex indicator of the thermal state of the human body.

Saturation is a biomarker that reflects the percentage of saturation of hemoglobin with oxygen.

The World Health Organization (WHO) is a special United Nations agency consisting of 194 Member States. Its primary function is to solve international health problems of the world population. It was founded in 1946, its headquarters is in Geneva, Switzerland.

Block chain is a continuous series of blocks containing information, which is built according to certain rules.

Crypto currency is a digital computing unit, the issue and accounting of which is decentralized. The functioning of these systems is based on the technology of block chain. Information about the transaction is usually not encrypted and is available in open form. Elements of cryptography are used in order to ensure the unchanging of the basis of the transaction blocks chain.

Crypto asset is a digital derivative financial instrument that has the properties of a crypto currency. It is issued by a company or a group of individuals in order to attract financial resources for the implementation of prospective projects or the acquisition of assets for capitalization. Cryptoactivity is an instrument that guarantees the identification of the owner of a crypto asset with the fulfillment of the issuer's obligations to the crypto agent.

Token is crypto currency or crypto asset, which the company puts up for sale to raise funds for its project. Token can play the role of stock, bonds, donations, unique identifier and access to software or information.

ICO (Initial Coin Offering, ITO (Initial Token Offering), ITG, token sale) is mechanism for raising funds, under the terms of which a new package of crypto assets is first sold in public for crypto currencies or fiat money.

Neural network (AI) is a computer program that simulates the work of the human brain. The input data is "run through" a system of "neurons" - more simple programs interacting with each other, and then gives a certain result of calculations on the basis of this interaction, as well as experience and errors of past launches of the program. The neural network is a self-learning system.

Conclusion

The highest priority is human life and health, so the goal of our company is effective use of limited resources in order to meet the population's requirements in supporting health. The Bioritmai project makes a very important step in the field of healthcare and personalized medicine - forecasting and detection of dangerous pathological disorders and diseases of the circulatory system in real time. We aim to make personalized medicine more accessible through identification of diseases and preventing them at an early stage. Only together with you we will be able to struggle with one of the main causes of death - cardiovascular diseases - in the most effective way.

Our official website: <https://bioritmai.com>