



WHITEPAPER

1 . Summary	4
1.1 Current Stage of the Project	4
1.2 The Use of Collected Funds	5
2. Information of the Issuer	6
2.1 Mission	6
2.2 Projects	6
3. Project	7
3.1 Project Description	11
3.1.1 Operating System for Mining Rigs	11
3.1.2 Rig Remote Control System	11
3.1.3 Bergmann Parameter Optimization Module	12
3.2 Application of product	12
3.2.1 24/7 Stable Control over the Farm	12
3.2.2 Automatic and Manual Modes for Rig Parameters Setup	13
3.2.3 Smart Mining	13
3.2.3 GPU Autotuning	13
3.2.4 Instant Mobile Failure Notifications	13
3.2.5 Reports on the State of the Farm	14
3.2.6 Cryptocurrency Market Quotations	14
3.2.7 Intuitive and User-Friendly Interface	14
3.3 Competing Products and Technologies	14
4. Responsible persons	16
4.1 Project Team	16
5. Risks	19
5.1 Internal Factors	19
5.1.1 Human Factor	19
5.1.2 Financial Stability	20
5.1.3 Technological Challenges	20
5.1.4 Marketing Challenges	20
5.2 External Factors	21
5.2.1 Political Situation Impact on the Market Development	21

5.2.2 Cryptocurrency Markets Dynamics Impact	21
5.2.3 Existing and Prospective Legislation of the Territory	22
5.2.4 Market Entry Timing	23
6. Token Information	24
6.1 Type of Tokens Offered for Sale	24
6.2 Overview of the Token	24
6.3 Currency	24
6.4 Rights Attached to the Token	25
6.5 Using BERG tokens	25
6.5.1 Within the System	25
6.5.2 Within the Platform	25
6.5.3 Outside the Platform	26
7. Terms and Conditions of the Token Sale	27
7.1 Terms and Procedure for the Token Sale	27
7.2 Cancellation and Suspension of the Token Sale	28
7.3 Refund	28
7.4 The Minimum and Maximum Amount of Investment	28
7.5 Payment Methods	29
7.6 Token Distribution Regulation	29
7.7 Categories of Investors	31
7.8 Participation in the Future Profits	31
7.9 Benefits of the Token Sale	31
7.10 Sale Terms	31
7.11 Minimum Investment	31
7.12 Time for Completion of the Token Sale	31
7.13 Prices	32
7.14 Placement and Sale of Tokens	32
7.15 Token Emission	32
7.16 Fundraising Expectations	33
7.17 Admission to Trading on a Regulated Market	34
7.18 Stabilization	34
7.19 Name and Class of Tokens for Sale	34

8. Market Overview	35
8.1 Meeting Market Requirements	36
8.2 Growth Rate and Market Capacity	37
8.3 Description of the Sector	38
8.4 Competing Products and Technologies	39
8.5 Market Readiness	39
8.6 Trends	40
9. Execution plan	41
9.1 Stages	41
9.1.1 Bergmann Platform Stages	41
9.1.2 Bergmann OS Stages	42
9.2 Calendar Plan	43
9.2.1 BergmannOS Calendar Plan	43

1 . Summary

BergmannOS is a software package which provides a complete solution for mining automation for popular cryptocurrencies. The system allows for complete 24/7 remote control of connected devices. It provides almost complete automation of the entire farm operation and elimination of errors occurring during the operation.

BergmannOS will be included in the Bergmann ecosystem, which offers a variety of services and solutions for members of the cryptocurrency industry. Holders of BERG tokens will be able to access various industry services, such as an integrated and automated exchange trading adviser and others. BERG token holders can pay for all Bergmann platform services using the tokens purchased during ICO.

1.1 Current Stage of the Project

During the ICO the BERG token holders are offered to participate in testing of the main functions of the BergmannOS beta-version. The users of the system will have access to the following functions:

1. Remote control and monitoring of devices for cryptocurrency mining through the web interface.
2. Native mobile interface.
3. Automatic optimization of devices:
 - a. Selection of the most affordable and profitable pools.
 - b. Timely selection of the most profitable currencies.
4. Intelligent subsystem for automatic GPU overclocking.
5. Mobile notifications about the current status and failures, if any.
6. Output of statistical information and reports about the operation of the system.

Through ICO, we offer the BERG token holders a product in its final stages nearing completion. Fundraising is done to complete the final part of the system and the introduction of additional modules based on machine learning algorithms and BergmannOS data analysis.

1.2 Objectives of the Placement and the Use of Collected Funds

As a result of the ICO, the collected funds will be allocated towards completion of BergmannOS system development and implementation of additional algorithms, machine learning and data analysis, development of Bergmann ecosystem as well as the marketing campaign.

Table 1. Distribution of the ICO Investment

#	Objectives	Amount
1	Completion of BergmannOS	500, 000 USD
2	Development of the Bergmann ecosystems (new modules, smart mining, algorithmic trading platform)	1, 500, 000 USD
3	Marketing campaign	500, 000 USD
4	Operating expenses	250, 000 USD
5	Legal fees	250, 000 USD

2. Information of the Issuer

2.1 Mission

Creation of a single ecosystem that unites various elements of the blockchain industry.

Objective:

To create software and hardware systems for the consumers and businesses in the cryptosphere.

2.2 Projects

Bergmann team has been engaged in development and research in the field of information technology for over a year. The resulting Bergmann ecosystem will combine the disparate cryptoindustry tools, creating a platform to provide services within the following projects:

1. BergmannOS — hardware and software system for monitoring and controlling of mining farms.
 - a. Zephyr (for BergmannOS) — global firmware update introducing the Smart Mining option.
2. Toxer — a system of two major projects: the trading platform and cryptocurrency exchange.
3. Schaman — trading advisor, which will include a telegram-bot for the exchange, customizable according to the system suggestions.

3. Project

BergmannOS monitoring system performs around the clock control of user devices, informs about failures and automates all possible processes. Users only need to select the currency and purse for mining, after which the user can just observe the rigs operation through the web interface or our native mobile application.

Cryptocurrency market has been showing a steady growth throughout the years of its existence. Governments of major countries and large organizations are not left behind and are implementing crypto technology in a variety of fields of activity, from medicine to legal institutions. However, the community of private cryptocurrency users (ordinary users, developers, speculators, miners) is still leading the way. Our solution is aimed primarily at this group of private users.

At the moment, there are a few methods for consensus, used to confirm blockchain transactions. Proof-of-Work algorithm is currently the most popular, and it is used when dealing with cryptocurrencies with high capitalization: Bitcoin, Ethereum, Zcash, etc. The operation of PoW-systems directly depends on the amount of power conducting calculations of the transaction blocks.

The greater the capacity of the network, the safer it is to conduct transactions within the chain. The best way to increase the power of decentralized distributed network is to introduce new members and their equipment into it. To attract them, the networks pay a fee to everyone involved in this process. Of course, the provision of personal computing resources to the needs of the community in exchange for this fee at one point changed from a hobby for crypto-anarchists and computer enthusiasts into a way of earning some money for enterprising people, and later - into the whole mining industry where there are players of absolutely different levels.

Scalable power has given rise to qualitatively new problems that compute nodes operators have not faced before. To date PoW-currencies can be divided into two groups:

1. Currencies, based on algorithms, which have specialized calculators (ASIC)
2. Currencies with the calculations performed using standard general-purpose hardware (CPU, GPU)

The first group of currencies has devoted software tools for monitoring and management, developed together with the hardware as a complete solution. However, this league nowadays has a very high barrier to entry because of the increasingly larger sums required for initial investment. The pillars of the industry play in this league. The new generation of currencies, such as Ethereum, Monero, Zcash, which are currently affordable for mining, are using algorithms that do not allow the creation of specialized calculators.

Devices that operate in such currency networks are based on standard components for personal computers and servers. The vast majority of farms are built using game GPU cards as computing units. Also, there are special "mining" calculators, but they are essentially the same game graphic cards stripped of parts of the assembly not used by the miners, that are unable to perform constant round the clock work under maximum load. The production of these units essentially uses defective GPU cards, which makes the card cheaper, but does not increase its reliability.

Profits distribution model among the members of the network involves a fixed payment proportionally divided between everyone involved in the computation block, depending on the duration of activity and the processing power of devices belonging to the miner. Therefore, mining farms operators for the second

cryptocurrency group need to constantly monitor the stability of the equipment operation and eliminate malfunctions in a timely manner.

In the early stages it was relatively easy. Low overall network capacity allowed you to earn sufficient amounts, with only one or two rigs, which was easy to control using the standard means of remote access that was not a problem for most users, who were at that time mainly computer enthusiasts with considerably above average knowledge in this area.

However, growth in the number of participants led to the fact that the personal share of small farms owners started to become very small. And due to the fact that payments for the block did not grow with the power of the network, even the regular profits of the participants began to decline rapidly. The way out of this situation was the build-up of the number of personal computing devices. At this point the professional miners may have ten, a hundred or even a thousand rigs.

Together with the increased number of devices, the time which had to be spent on setup and monitoring, transformed the management into a full-time hard work. Labor-saving software system for farm operators gradually began to appear. Originally they were created by the same enthusiasts that started mining, so they were not professional and were designed on a hunch, not based on well-chosen principles of software design.

The next generation of management and monitoring systems, created by groups of this kind of enthusiasts, were still far from ideal. Experienced commercial teams specializing in professional software development lack necessary experience in blockchain technology and mining to understand the needs of the members of the mining community and create a system devoid of innate usability issues. But sooner

or later, among many solutions, there had to be one worthy of becoming a staple for the entire community.

The main contender for this role is BergmannOS – latest generation of a mining operating system created by a group of professionals with extensive experience in software design and cryptocurrency mining. We have carried out a long study of the industry needs, which resulted in a complete solution for the automation of the cryptocurrency mining process.

This is not an abstract project but the software that is currently ready for normal use for all the basic functionality. Simplification of control, saving time and resources, increase of devices efficiency and stabilization of miner payments — these are the main objectives that have guided the Bergmann team to create BergmannOS.



Pic. 1. A comparison with previous generation tools

3.1 Project Description

Based on the results of the research into the needs of people engaged in mining, we have developed Bergmann hardware-software complex, representing a set of mutually integrated applications, divided into two functional parts:

1. Client operating system with a set of programs for data collection, management of equipment and communication with the second part of the system;
2. The management server that provides the logic and interface for remote interaction with the applications installed on the clients' rigs.

3.1.1 Operating System for Mining Rigs

It is a system that provides flexibility, stability, and minimizes unnecessary functionality implemented on the basis of Linux. The interface has been reduced to an absolute minimum: the user only has access to a rig registration feature, the rest of the work is conducted through a web interface provided by the management server, located at the company's facilities.

The special software available in the operating system includes hardware monitoring module, miner-software interaction modules, central server interaction module and several additional modules.

3.1.2 Rig Remote Control System

This system consists of a complex server application with the main task of receiving data from the rigs registered in the system, collecting it, presenting it on-demand through a web-based interface, and sending commands and data necessary to control the process of mining to the individual rigs.

User interaction with the system takes place via a web interface that provides access to the personal account containing rig controls, their condition information, the data from the mining pools, exchanges, internal system recommendations and other elements that make up the operation panel, to meet every customer's needs.

In addition to client's account information, the interface contains tools for the staff supporting the workflow. User Communication with employees is organized through the electronic ticket system.

3.1.3 Bergmann Parameter Optimization Module

Through methods of machine learning and algorithms of intelligent data analysis Bergmann will choose the most appropriate configuration parameters to improve performance of connected devices. By analyzing the performance data, the system will increase the efficiency of other modules.

3.2 Application of product

BergmannOS was designed to improve the monitoring and control of devices used for cryptocurrency mining. Automated system offers users a number of advantages over the existing solutions in the market:

3.2.1 24/7 Stable Control over the Farm

After installing the operating system on the units, the user launches remote monitoring of his/her devices, and controls the operation of the system. If any malfunction occurs, the system automatically attempts to fix the problem and resume the normal operation of the rigs. The user can adjust the number of automatic attempts to resolve the issues using the preferences menu. For the user's convenience it is recommendable to install the mobile application through which Bergmann immediately notifies the user about any errors that occurred across all

available channels: by e-mail, in the web interface, via push-notification in the browser, and on your smartphone.

3.2.2 Automatic and Manual Modes for Rig Parameters Setup

Users can optionally disable parameter selection automation and manually adjust the performance of each GPU. However, in this case BergmannOS cannot ensure stable cryptocurrency production and stable operation of the rigs, because the initial settings of the system are the most optimal and the safest.

3.2.3 Smart Mining

Automatic production of the most profitable currencies will be implemented in BergmannOS through Zephyr global update. The system will analyze the data for every particular currency, and will select the most relevant one, in view of its current mining complexity.

3.2.3 GPU Autotuning

The system automatically sets the most secure and optimal parameters of video cards, which allows to increase the farm's hash rate by 3-5%. At the same time, the user may use the manual settings and reduce the amount of energy consumed by the graphics cards (up to 5%).

3.2.4 Instant Mobile Failure Notifications

The user can enable notifications on several channels: by e-mail, through the web interface, push-notifications to the smartphone or tablet – through a native mobile application.

3.2.5 Reports on the State of the Farm, Individual Rigs and even the Devices

Once a month, the user will receive reports on the operation of the entire farm and individual rigs within it, which will allow him/her to monitor and analyze the performance of video cards and plan further operation strategy.

3.2.6 Cryptocurrency Market Quotations

Inside BergmannOS, the user can access the information from various crypto-exchanges on all cryptocurrencies. The user can connect any currencies, even if they were not pre-installed in the system.

Also, a news aggregator from the cryptosphere is available to users. Everyone can independently set up the most relevant news sections to suit their needs.

3.2.7 Intuitive and User-Friendly Interface

The interface of the mobile and browser versions is designed with a focus on the users' convenience. It is simplified in accordance with the concept of minimizing the number of actions and offers visualization of the operation of rigs and video cards.

3.3 Competing Products and Technologies

Currently, a lot of disparate tools are used for the cryptocurrency mining, especially when it comes to control and monitoring systems. The use of these applications within the cryptocurrency sector of the economy is currently extremely inconvenient. It takes time to complete a series of actions to check the operation of all mining devices. At the same time, failure notification is also very poorly implemented. Messages are usually delivered by e-mail, and in most cases even this functionality is not available. This format is very inconvenient, since the probability of not seeing an e-mail in time is extremely high.

The market of integrated monitoring systems is now only at the initial stage of its development. There is a small number of services that offer the ability to automate the operation of rigs in one way or another. These systems are imperfect and rarely demonstrate stable operation when connecting more than fifty rigs.

4. Responsible persons

4.1 Project Team

Anton Pchelintsev

Project lead, author of the idea. In charge of the project management and the group operation as well as control over the strict adherence to the original idea

Andrey Chertikhin

Architect, analyst. Analysis of the scope of activity, drawing up of system requirements, design

Involved in commercial software development since 2006. Information Systems and Technologies Degree, Theoretical Foundations of Informatics (post-graduate program). He was engaged in research activities at the Central Information Systems Research Center and the Problems of Digital Heritage Laboratory. Familiar with the cryptocurrency industry since 2011, has his own fleet of mining machines.

Dmitry Savonin

Programmer. Server side development

Has been developing software since 2007. Information Systems and Technologies (Master's Degree). Designed and developed high-load medical systems. In the Bergmann project he is engaged in system design, development of server side and client WEB-application.

Alexey Petukhov

Programmer. Client side development

Alexey has many years of experience developing and optimizing the software in low-level languages. Applied Mathematics and Computer Science (Bachelor's Degree, the Volgograd State University, 2015). In the Bergmann project he is

developing the client side - designing and implementing a cross-platform application that provides stable operation on client devices.

Kirill Nikulin

Programmer, mathematician, analyst. Development of mathematical algorithms

Engaged in computational mathematics and mathematical physics research since 2012. He carried out work in the nuclear industry (thermal-hydraulic modeling of industrial power plants). Graduate of the National Research Center "Kurchatov Institute" (Institute of Atomic Energy (IAE) named after I.V. Kurchatov; postgraduate program). In the Bergmann project, Kirill is engaged in financial markets analysis and the adaptation of various trading strategies for highly volatile cryptocurrency markets. The results of the research are manifested in the trading adviser for the Bergmann platform.

Oxana Danilova

Programmer, mathematician, analyst. Performs work related to machine learning and data analysis

Involved in the field of intellectual data analysis and machine learning since 2014. Graduate of the Moscow State Technical University named after Bauman, an active participant of machine learning scientific seminars since 2016. In the Bergmann project Oksana is engaged in assessing trends in the dynamics of cryptocurrencies exchange rates and the development of trading strategies.

Maria Starikova

Marketing specialist, promotion specialist. Engaged in the organization of the information environment of the project

Maria has been engaged in social sciences research for a few years. Now completing her postgraduate studies at Moscow Lomonosov State University; Master's Degree in Oriental and African studies. For more than three years she has

been practicing her knowledge and talents in marketing and analytics, has experience of foreign economic activity. In the Bergmann project she is responsible for marketing and advertising strategies.

Magomed-Hussein Zakriev

Programmer, specialist in the development of mobile interfaces. Engaged in creating native versions of the application for iOS and Android

Has been developing mobile software since 2016. Has a bachelor's degree in information technology. In the Bergmann project he is developing client applications for the BergmannOS system for iOS and Android.

Anastasia Murasheva

Linguist, translator, cross-cultural communicator

Degree in Linguistics (2011). Extensive experience in multinational business environment. In the Bergmann project she is responsible for communication with the audience of the Project's social media.

5. Risks

ICO is a completely new form of investment attraction, where a full-fledged system for protecting the interests of both project creators and investors has not been developed. Also, the legal status of both cryptocurrencies and ICO in many countries is still not fully defined. This, in turn, affects the formation of a series of risks that should be taken into account both by the teams entering the ICO and by investors.

5.1 Internal Factors

When attracting investments, there are always internal factors that can affect the development of the project and the successful promotion of products in the market. Some risks will be considered below.

5.1.1 Human Factor

For a year before joining the ICO the Bergmann team has been working on a few projects that are going to become a part of the Bergmann ecosystem. Over this period, a group of people devoted to their work and mission of the project has been shaped.

Any scenarios of internal conflicts are considered unlikely, but in case of their occurrence, separate solutions were developed to level out the possible risks associated with the human factor.

Responsibility among team members is distributed in such a way that, if one of them leaves unexpectedly, the performance of his/her duties will be temporarily taken over by other employees.

5.1.2 Financial Stability

The project was financed out of personal funds, which prevented the leakage of developments and loss of independence in decision-making when attracting third-party investments.

The Bergmann team decided to attract additional investments to accelerate the development and release of the BergmannOS project by organizing a limited public sale of tokens, which also allows the team to maintain independence from other market players.

Attracting funds through the ICO allows the team to accelerate the process of selling products and gives the opportunity to tell the community about their software. However, the team is aware that the crypto-market is volatile, and these circumstances can affect the amount of funds raised. In this regard, the Bergmann team has got ready for a possible negative scenario and developed a plan for implementing BergmannOS with a minimum amount of investment.

5.1.3 Technological Challenges

One of the least likely risks is the failure in the technical part of the operation. By the time of the ICO release the team has completed most of the BergmannOS hardware-software complex. The only element not included in the composition of the initial complex is the parameter optimization module. The introduction of this part of the system is planned to be completed by the second quarter of 2018.

5.1.4 Marketing Challenges

The Bergmann team carried out a research on the subject area in advance and prepared a detailed marketing campaign aimed at the target audience of the project, which resulted in minimizing risks in this area.

5.2 External Factors

The successful and effective operation of both the team and the project is influenced by outside factors. In this regard, it is necessary to consider strategies for leveling out possible damage.

5.2.1 Political Situation Impact on the Market Development

In the crypto community, the most famous figures are Satoshi Nakamoto and Vitalik Buterin. If the identity of the former is unknown, Vitalik Buterin, co-founder of the Ethereum project, a Canadian-Russian programmer, conducts open activities to develop the blockchain industry. Russian experts welcome the basic postulates of the world of cryptocurrency and blockchain technologies and make a significant contribution into their development.

Experience shows that Russian ICOs also attract large amounts of investment for their projects (for example, ZrCoin and SOMN). In general, in crypto community, people are less susceptible to the influence of political sentiment and focus more on personal opinions about the projects themselves and take into account the responsibility of people involved in working on them.

5.2.2 Cryptocurrency Markets Dynamics Impact

Currently, the market in this sector demonstrates significant growth. The cost of the basic cryptocurrency has gone up a few times since the beginning of 2017 and continues to show a high growth rate despite periods of correction, often associated with the introduction of strict regulations in a number of countries.

Because of these factors, the number of people interested in the development of cryptocurrencies is significantly increasing month by month. Of course, there is a risk of a market collapse, often pejoratively called a "soap bubble" by its opponents.

However, most analysts believe this scenario is unlikely and predict a further increase in capitalization and exchange rates.

5.2.3 Existing and Prospective Legislation of the Territory

Today different countries define the legal status of the cryptocurrencies in a different way. In the Russian Federation it is not defined legislatively and the attitude to it is different for different branches of power. The Central Bank of the Russian Federation negatively perceives all technologies that can compete with traditional financial institutions at any level, including the technology of the free worldwide cryptocurrency system. At the same time, the development and implementation of blockchain technologies is welcomed and approved by the government, which does not hurry to adopt any regulation rules, fearing to be in a losing situation due to the negative impact of hasty decisions. The prohibition of circulation of cryptocurrencies, mining and ICO in the Russian Federation does not currently exist.

The US Commission on Trade in Commodity Futures officially recognized the cryptocurrency as a commodity. At the same time, in different states the approach to the status of cryptocurrencies is different. Circulation and mining in the US are permitted.

In the European Union in its entirety, the legal status of the cryptocurrency is defined as an equivalent of the electronic form of the traditional fiat currency. In Germany, the issue of the cryptocurrency is approached in two ways. It is either designated as private money or as a financial instrument. Also, Germany adheres to the position of the European Court that the operations of exchanging cryptocurrency for fiat are exempted from VAT. In the UK, cryptocurrency acts as a negotiable payment instrument or as a single-purpose voucher. In Norway, it is an asset and is subject to taxation. Circulation and mining in European countries are allowed.

In Japan, bitcoin is a virtual currency, serving as a method of payment equivalent to traditional currencies. Circulation and mining in Japan are allowed.

Of course, there are countries that have introduced a complete ban on cryptocurrencies, treating them as a threat to the traditional domestic financial system and a means of financing ineligible organizations and social groups. For example, in Thailand and Bangladesh, cryptocurrencies are banned altogether.

Today, most jurisdictions are trying to develop rules for the legal regulation of cryptocurrencies and the blockchain industry as a whole, including the ICO. Despite the harsh measures taken by the governments of China and South Korea regarding the ICO, other countries are not yet ready to completely ban this form of attracting investments and are considering other ways of regulating such processes.

5.2.4 Market Entry Timing

Despite the growth in the number of investors in the cryptocurrency industry, a hardware-software solution focused on the needs of customers is not fully represented on the market. That is why for the past year our team has been working on the development of BergmannOS and the Bergmann ecosystem, which will combine disparate tools for the main participants of the crypto industry.

Analyzing the shortcomings of previous generations of programs and operating systems, the Bergmann developers have created an effective platform for optimizing the operation of users' devices.

6. Token Information

In this section you will find information about what tokens are offered for purchase, on what terms and why you need it.

6.1 Type of Tokens Offered for Sale

BERG token is a derivative providing the right to use the services of the BergmannOS complex. With the help of BERG, you can purchase BergmannOS services at a discounted price. BERG is a token that can be freely traded on the secondary market.

6.2 Overview of the Token

The BERG token is an option secured by the service contract offered by the Bergmann project. Service tokens are used to pay for services within the system, including a monthly fee, which is debited from the user's account once a month.

The Bergmann system token will be available on the Ethereum platform using the standard ERC-20 protocol. The number of issued tokens will be limited to 1,764,708 BERG.

Issue of tokens will be made only during the ICO.

Investments during the ICO will be accepted in ETH.

6.3 Currency

The cost of 1 BERG is \$ 3.

6.4 Rights Attached to the Token

BERG tokens are backed by a contract for the provision of services within the Bergmann system. Holders of the option use tokens to pay a monthly fee for use. Applicability is not limited to the BergmannOS complex, tokens will also be accepted by the rest of the structural elements of the ecosystem.

The BERG Token does not act as a stock, security or currency issued by any central bank or national, supra-national or quasi-national organization. Holders of BERG tokens do not acquire the right to receive dividends, do not have the right to vote.

6.5 Using BERG tokens

6.5.1 Within the System

The BERG Token is built into the Bergmann internal payment system and will initially be used to pay for the BergmannOS hardware and software complex. Subscription fee is charged once a month automatically and is 1 BERG per rig connected to the system.

6.5.2 Within the Platform

Connecting BergmannOS to the Bergmann crypto platform expands the capabilities of BERG tokens holders, providing access to such topical systems for the miners as currency exchange and crypto exchange. After the release of the Schaman system, Bergmann users will be able to pay for its functionality using the token. A single platform allows holders of BERG tokens to optimize their activity in the cryptosphere, increasing revenue and reducing the time spent using disparate services.

6.5.3 Outside the Platform

BERG tokens will be registered on crypto exchanges in 2018. Holders of tokens will be able to freely perform margin trading. At the same time, the price of the token is expected to increase due to a limited number of them, the demand for services inside the Bergmann system will grow, as will the cost of service packages in a fiat currency, while the service payment in BERG tokens will be unchanged:

1. A user who prefers to pay in a fiat currency will pay the amount of \$10 for a full package of services, including all functions of the Bergmann ecosystem.
2. The holder of the tokens purchased during the ICO will still pay only 1 BERG per month.

7. Terms and Conditions of the Token Sale

BERG tokens will be released in limited quantities only during the ICO. Participants of the campaign must be resident investors of jurisdictions in which participation in such events is not contrary to domestic law.

7.1 Terms, Estimated Schedule and Procedure for the Token Sale

The sale of tokens will be carried out in one stage on the Ethereum platform based on a smart contract. The total number of tokens emitted by Bergmann is 1,764,708 BERG.

The date of sale of the tokens is established by the issuer and is scheduled for the following days:

Start of the ICO — 11.12.2017 (December 11, 2017)

Information about the start of the token sale will also be published in a press release on the official websites of news agencies, the Bergmann platform website, the official BergmannOS website and in any media at the discretion of the issuer of the Bergmann system token.

Any information on the postponement of ICO campaign start dates will be published on the Bergmann system's website and official pages on social networks and forums no later than 4 days before the start of sales specified in this document. The team does not bear responsibility for any information provided by third-party resources regarding the dates of the project without reference to the official website of the project.

7.2 Cancellation and Suspension of the Token Sale

Bergmann may refuse to sell tokens or reduce the number of emitted tokens before the start of the ICO. The Issuer is obliged to report this no later than 4 days before the start of the campaign.

During the ICO period, the issuer has the right to freeze the sale of tokens due to external circumstances beyond the control of the issuer. All investors will be immediately notified.

However, such course of events is believed to be unlikely.

7.3 Refund

During the ICO, there is no minimum threshold for collected funds. The desired amount of collected investments is \$ 3, 000, 000.

The project undertakes to return all investments to investors after deduction of fees, commissions of third-party services and payment systems in the event that the sale of tokens was terminated by the issuer's decision due to circumstances outside of the issuer's control.

7.4 The Minimum and Maximum Amount of Investment

In the Ethereum blockchain, the minimum transaction amount is 1/1018 ETH, the so-called wei. The maximum amount of transfer will depend on the number of available tokens at the moment.

7.5 Payment Methods

BERG tokens will be purchased on the official website of the Bergmann system. Purchase of tokens can only be done with ETH.

All information on the price, discounts and the number of tokens at the current time will be posted on the platform site.

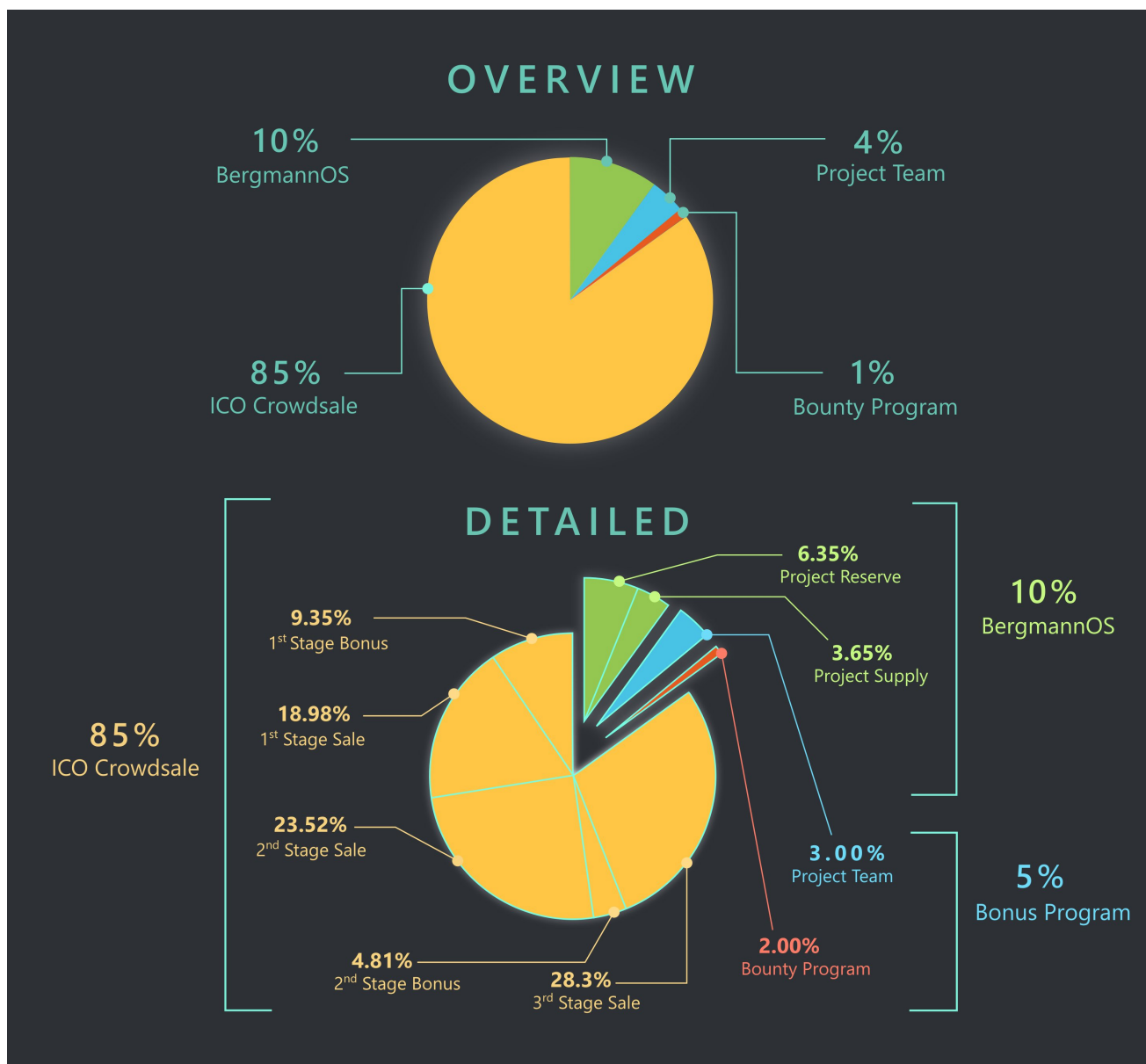
7.6 Token Distribution Regulation

Total number of tokens issued - 1 764 708 BERG.

The BERG tokens will be distributed as follows:

- 10% of tokens (176 471 BERGs) will be distributed to the BergmannOS project
- 3% of tokens (52 942 BERGs) will be assigned to the team
- 2% of tokens (35 295 BERGs) will be distributed according to the bounty program
- 85% of tokens (1,500,000 BERs) will be on sale during the ICO

The unallocated tokens remaining after the campaign will be destroyed. Team Tokens will be frozen for a period of 6 months after the end of the ICO. Then there will be a gradual defrosting of the funds.



Pic. 2. Token distribution

7.7 Categories of Investors

The token sale during the ICO will take the form of crowdfunding and does not imply any restrictions on the category of investors. The ICO is open to all able citizens who have reached the age of entitlement to perform basic financial transactions and who are citizens of jurisdictions that do not impose restrictions on the performance of such transactions.

7.8 Participation in the Future Profits

No dividends are provided to holders of tokens.

7.9 Benefits of the Token Sale

Not provided.

7.10 Sale Terms

Terms of sale are the same for all buyers.

7.11 Minimum Investment

Wei on Ethereum platform – 1/1018 ETH is accepted as a minimum amount of investment.

7.12 Time for Completion of the Token Sale

For the ICO, there are clear start and end dates for the sale of tokens:

- ICO: December 11, 2017 — March 11, 2018

BergmannOS ICO does not provide for a lower threshold of collected investments, because the project will be completed one way or another. However, for

the implementation and promotion of the project, the optimal amount of investment is:

- ICO — \$3, 000, 000

The release of BERG tokens will be completed by the end of the specified period and the collected funds will be directed to the implementation of the project, even if the amount involved is less than the desired threshold.

7.13 Prices

The established price of 1 BERG is \$ 3. The price of the token is determined by the cost of the subscription fee for using one rig for a month.

Discounts of up to 33% will be provided to investors during the ICO stage depending on the stage of release of the tokens.

7.14 Placement and Sale of Tokens

The sale of BERG tokens will only be conducted on the official website of the Bergmann system. In view of the danger of attacks by malicious users, the address of the smart contract will not be published in social networks, on the official branches of forums or the channels for instant messaging.

The link to the address of the smart contract will be posted on the Bergmann system website before the start of the sale. The project team is not liable for losses incurred by investors if they used a link to an address not published on the official website of Bergmann.

7.15 Token Emission

One stage of the ICO is planned. The funds received as a result of the ICO will

be used to refine the beta version of the Bergmann monitoring system and the marketing campaign.

Discounts of up to 33% will be provided to investors during the sale depending on the stage of the ICO. The token's estimated price is \$3. The size of the benefit can be estimated based on the following data:

1. The cost of one BERG in the first period of ICO (the first month) — \$2.
2. The cost of one BERG in the second period of ICO (the second month) — \$2,5.
3. The cost of one BERG in the third period of ICO (the third month) — \$3.

Upon reaching the amount of \$ 3,000,000, the ICO will be closed. If this amount is not received within three months, the campaign will end in a pre-determined period. The funds received will be used to further develop and maintain the initial infrastructure.

The Bergmann team considers the possibility of withdrawing funds from the account after each stage of the ICO. These funds will be used to accelerate the completion of BergmannOS, in order to present the fully finished product as soon as possible.

Options will be sold on the Ethereum platform. Available ways to buy derivatives: ETH.

7.16 Fundraising Expectations

- *ICO - \$3, 000, 000*

During the first two periods of the crowd-sale, investors are given a discount on the option of up to 33%.

This campaign is designed to raise funds directly to ensure the implementation of the roadmap for the creation of the Bergmann system.

Table 2. ICO Characteristics

№	Parameter	Data
1	Benefit size	Up to 33 %
2	Token Price	3 USD — subscription fee for 1 month for use of 1 rig (unit)
3	Total number of tokens for sale	1, 764, 708 BERG
4	Fundraising expectation	3, 000, 000 USD
5	The term	91 calendar days
6	Referral Program	Not available
7	Token limitations	Cannot be cleared during ICO

7.17 Admission to Trading on a Regulated Market

The holders of the BERG tokens have the right to freely trade the acquired tokens after the ICO and the release of the token to the exchange in 2018.

7.18 Stabilization

Bergmann does not guarantee the stabilization of the price of BERG tokens.

7.19 Name and Class of Tokens for Sale

Full name of the tokens: Bergmann

Short name of the tokens: BERG

Token class: utility-token, issued as an option to a service contract.

8. Market Overview

According to an analysis conducted by Coinspeaker and ICOBox, the growth of the cryptocurrency market during the three quarters of this year is 46.47%, 267.39% and 54.03% respectively. The lower growth rate of the third quarter is due to news about the closure of crypto exchanges in China and restrictions on the turnover of cryptocurrencies in a number of other countries.

The market capitalization of altcoins has shown growth since January 1, 2017 - from 12.33% to 58.15%. In the third quarter, there was a drop to 51.34% (as of October 1, 2017).

During this period (before October 1, 2017), there was an increase in the cost of cryptocurrencies, in particular Bitcoin (up 450%, from \$972.85 to \$4,336.09), Ethereum (35-fold increase, from \$8.24 to \$302.20), Litecoin (increased 12-fold, from \$4.65 to \$55.07).

Analyst Ronnie Moas sees the cost of Bitcoin of \$15,000 to \$20,000 by the end of 2020. If the price continues to grow, as in 2017, rising from \$689.80 for Bitcoin from the beginning of July last year, Bitcoin will reach about \$20,000 at the next reduction of compensation per block in half in 2020. There are also independent estimates that state that the price will rise to \$1 million for Bitcoin.

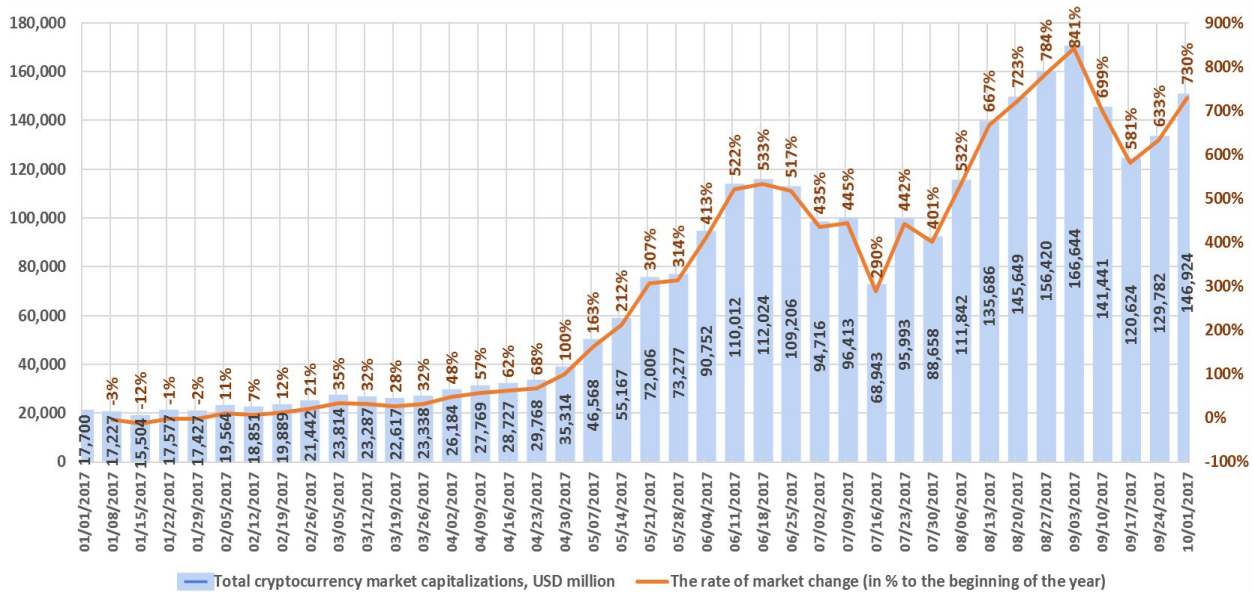


Chart 1. Cryptocurrency Market Capitalization (according to Coinspeaker and ICOBox)

8.1 Meeting Market Requirements

The number of people engaged in mining is steadily growing every year. The increased demand for mining farms and GPU cards was observed during the spring and summer of 2017. The rapid return on initial investments, due to the explosive growth of the cryptocurrency rates, attracted new people to the cryptosphere, often not IT specialists. Due to the influx of such new members, the community has undergone qualitative changes.

For full-fledged work in this industry, miners need stable software support, which will ensure efficient operation of farms without the expense of a large amount of personal time. However, integrated software solutions for full-fledged work with farms in the market, completely satisfying the needs of people engaged in mining, do not currently exist. Available software and hardware complexes are not able to fully meet the needs of miners. Therefore, to meet their needs, we created BergmannOS, a system that opens a new generation of software for farm monitoring and management.

8.2 Growth Rate and Market Capacity

The increase in the prices of popular cryptocurrencies, caused by the increased interest from corporations as well as a change of the attitude of governments to cryptocurrencies, leads to an increase in the number of both private and legal entities interested in the new sphere of the economy.

To date, it is almost impossible to calculate the exact number of investors in a cryptocurrency infrastructure. There are both very large players on the market, as well as small ones, involved in the production of cryptocurrencies. According to analysts, it can be assumed that 4.5 to 5 million people mine for "digital gold".

Initially, people who decided to immerse themselves in this industry were enthusiasts who used various third-party software to work with mining farms. This way of working and monitoring the units can be attributed to the zero-generation farm management systems.

Thanks to the gradual development of the crypto industry, cryptocurrency miners began to use more sophisticated software solutions, so the first generation of farm monitoring and management systems that were installed on each unit and worked without connecting to a central server were introduced. Today, the fourth generation, which works through connections to a central server and offers a complete farm management solution, is used. However, these systems are still very imperfect, like their predecessors, and therefore are not able to replace the solutions based on the tools of remote access to the desktop and sets of scripts in text files.

Comprehensive solutions for monitoring and automating the operation of farms are used by more than 1 million users, based on an estimate of the number of

the three most popular systems (EthOS, SimpleMining and Awesome Miner). Approximate market volume is more than \$ 30,000,000.

Bergmann is a system of a new, fifth generation, which takes into account the shortcomings of its predecessors. As the Bergmann software and hardware complex is an integral ecosystem for monitoring and automating the operation of farms, the project expects to occupy a significant market share and reach a wide range of users, interested in its services for miners who today use temporary 'hack' solutions assembled from various parts of third-party software for system administrators.

8.3 Description of the Sector

Today, the competition among investors in the cryptocurrency infrastructure has significantly increased. If you could earn a few years ago, using one powerful computer for mining, today you need to significantly expand the technological base for profitable mining. Investors purchase entire farms for mining of digital gold, and large corporations lease huge facilities for mining purposes.

Cryptocurrency mining is divided into two categories: the production of cryptocurrency on the CPU (CPU Mining) and the production of cryptocurrency on the graphics cards (GPU Mining). Most cryptocurrency is produced by using the graphic cards' capacities. BergmannOS is designed directly for miners using GPU Mining.

8.4 Competing Products and Technologies

Most of the miners use inconvenient means of remote monitoring of their rigs, as there are not enough "turnkey" solutions. At the same time, existing systems often do not support a large number of units, they do not eliminate failures on their

own and do not show high stability of work. None of the systems that are currently on the market are user-friendly.

The proposed solutions are in most cases inefficient, costly and energy-intensive. To control the operation of devices, the miners use existing monitoring systems that are not adapted to remote monitoring of the operating system on the units. Failure reports do not come to the mobile devices (which would greatly facilitate the control of the rigs), but are sent by e-mail, or not at all. Naturally, this way of working is unreliable.

8.5 Market Readiness

Due to a rapid development of the crypto industry, now there is a rather large selection of pools, miners and exchanges. Manufacturers of video cards and processors also adjust to the interests of their potential customers and produce more advanced device models.

BergmannOS supports mining on most of the popular pools. Users can use the pools connected to the system, or independently connect new ones at their own discretion.

In future we have plans to integrate the BergmannOS into the Bergmann crypto-exchange ecosystem, which will allow holders of BERG tokens to also use the currency exchange, crypto-exchange and other platform functionality.

8.6 Trends of the Sector on the ICO market and Cryptocurrency Exchanges

According to the Smith & Crown research company, over the first half of 2017, over \$1 billion (10 times more than in 2016) was attracted through the ICO blockchain start-ups. According to an analysis conducted by Coinspeaker and

ICOBox, \$17.8 million was collected in January-March 2017, \$1 billion 291.4 million in April-June 2017, \$1 billion 454.5 million in July-September 2017.

This way of raising funds for the implementation of projects in both the blockchain industry and the real sector of the economy is becoming more popular and attracts huge investments from individual investors and hedge funds.

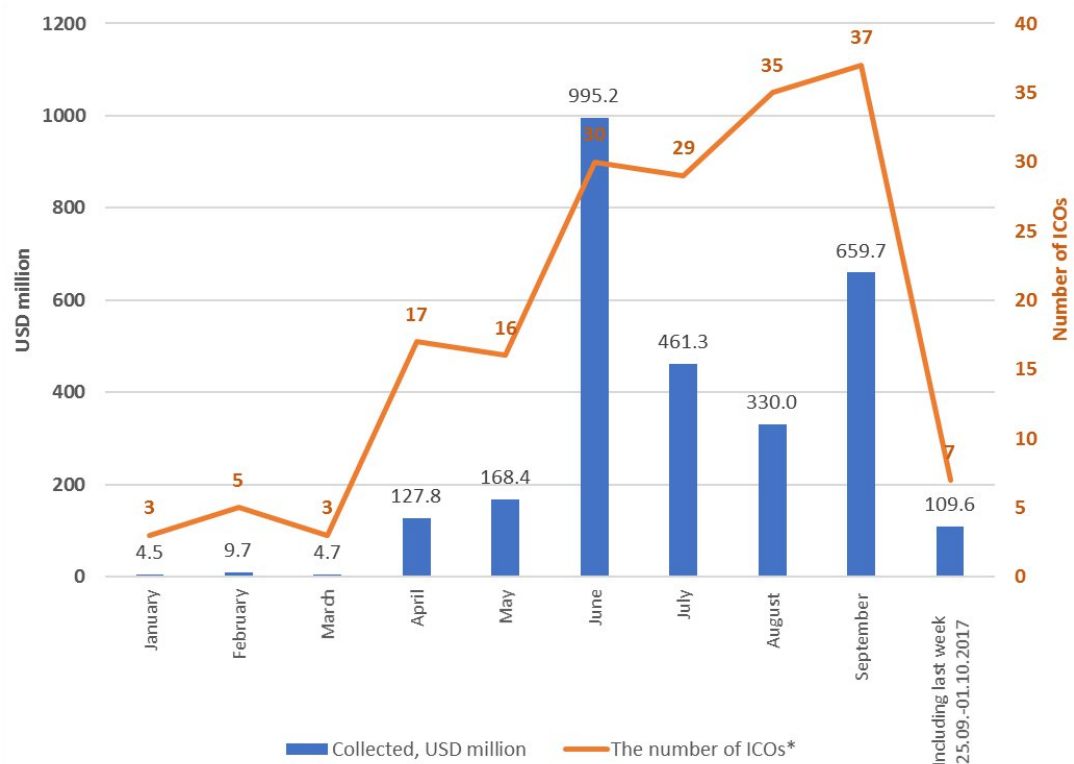


Chart 2. Number of Investments Collected in 2017 (according to Coinspeaker and ICOBox)

9. Execution plan

9.1 Stages

9.1.1 Bergmann Platform Stages

The development of the Bergmann project contains the following milestones:

1. Miners needs analysis
2. Definition of platform image
3. Beginning of ecosystem design
4. Beginning of BergmannOS design
5. Collection of project data for Schaman
6. Creation of client software prototype for BergmannOS
7. Creation of BergmannOS server prototypes
8. Completion of internal and network logic of BergmannOS
9. Completion of client infrastructure of BergmannOS
10. Requirements for the exchanger selected
11. A prototype of Schaman mobile module developed
12. BergmannOS mobile app developed
13. Requirements for the exchange have been developed. The development of the Zephyr update package
14. A prototype of the autooverclocking module (autotuning) developed
15. Start of the ICO
16. A prototype of the module for auto currency selection developed
17. Period 1 of ICO completed
18. Start of closed beta-testing
19. Period 2 of ICO completed
20. Completed the introduction of billing, the beginning of an open beta test
21. ICO completed

22. Start of closed beta-testing of Schaman
23. Completion of BergmannOS beta-testing
24. Beginning of BergmannOS operation in normal mode
25. Closed beta for Zephyr update package
26. Open beta for Zephyr update package
27. Zephyr update package implementation

9.1.2 Bergmann OS Stages

The development of the Bergmann project contains the following milestones:

1. Market analysis
2. Definition of platform image
3. Beginning of ecosystem design
4. Beginning of BergmannOS design
5. Creation of client software prototype for BergmannOS
6. Creation of BergmannOS server prototypes
7. Completion of internal and network logic of BergmannOS
8. Completion of client infrastructure of BergmannOS
9. Integration with mining applications complete
10. Module of communication with the leading exchanges implemented
11. BergmannOS mobile app developed
12. The development of the Zephyr update package
13. A prototype of the autooverclocking module (autotuning) developed
14. Start of the ICO
15. A prototype of the module for auto currency selection developed
16. Period 1 of ICO completed
17. Start of closed beta-testing of BergmannOS
18. Period 2 of ICO completed
19. Completed the introduction of billing, the beginning of an open beta test
20. ICO completed

21. Completion of BergmannOS beta-testing
22. Beginning of BergmannOS operation in normal mode
23. Completed the development of updates for the first package
24. Closed beta for Zephyr update package
25. Open beta for Zephyr update package
26. Beginning of the development of the next ecosystem update package
27. Zephyr update package implementation

9.2 Calendar Plan

9.2.1 BergmannOS Calendar Plan

1. 2017
 - a. II quarter
 - i. Miners needs analysis
 - ii. Platform image definition
 - iii. Beginning of ecosystem design
 - iv. Beginning of BergmannOS design
 - b. III quarter
 - i. Creation of client software prototype for BergmannOS
 - ii. Creation of BergmannOS server prototypes
 - iii. Completion of internal and network logic of BergmannOS
 - iv. Completion of BergmannOS client infrastructure
 - v. Integration with mining applications complete
 - vi. Module of communication with the leading exchanges implemented
 - c. IV quarter
 - i. New version of client-server exchange implemented
BergmannOS mobile app developed
 - ii. The hardware parameters management module implemented

- iii. Zephyr update package development started
- iv. A prototype of the autooverclocking module (autotuning) developed
- v. Start of the ICO

2. 2018

a. I quarter

- i. A prototype of the module for auto currency selection developed
- ii. Period 1 of ICO completed
- iii. Start of closed beta-testing of BergmannOS
- iv. Period 2 of ICO completed
- v. Completed the introduction of billing, the beginning of an open beta test
- vi. ICO completed

b. II quarter

- i. Completion of BergmannOS beta-testing
- ii. Beginning of BergmannOS operation in normal mode
- iii. Completed the development of updates for the first package
- iv. Closed beta for parts of Zephyr update package

c. III quarter

- i. Closed beta for Zephyr update package
- ii. Beginning of the development of the next ecosystem update package

d. IV quarter

- i. Open beta for Zephyr update package
- ii. Zephyr update package implementation

BERGMANNOS ROADMAP



Pic. 3. Roadmap

We are ready to answer all your questions:

E-mail: support@bergmannos.com

Telegram: t.me/bergmannos

Facebook: <https://www.facebook.com/bergmannos/>

Twitter: https://twitter.com/Bergmann_OS

Our blog: <https://medium.com/bergmannos>

Our Instagram: [bergmann.os](https://www.instagram.com/bergmann.os)

