



Welcome to Wireless Future

Intelligent technology for wireless
energy

NODE WHITEPAPER CONTENT

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INTRODUCTION

Node is a revolutionary high-tech start-up, which disrupts a market niche of wireless transmission devices for both private and commercial use.

Our innovative developments, research activities in the field of storage and transmission of electricity, allow us to offer solutions that are characterized by high quality and efficiency of use.

As the presence of wireless power transfer technology increases in consumer electronics, the industrial and medical industries are shifting focus towards this technology and its inherent advantages. As communication interfaces are becoming increasingly wireless with technologies like WLAN and Bluetooth, wireless power transfer has become a relevant option. Completely new approaches can be taken that not only offer obvious technical advantages, but also open up possibilities for new industrial design. This technology offers new concepts - especially in industrial sectors struggling with tough environmental conditions, aggressive cleaning agents, heavy soiling and high mechanical stresses (e.g. ATEX, medicine, construction machines). For instance, expensive and susceptible slip rings or contacts can be substituted. Another field of application is with transformers, which have to satisfy special requirements, such as reinforced or double-layered insulation.

In 2017, the Node brand was created in order to implement the idea of the project, register the intellectual property rights, and attract key specialists in the field of wireless energy transmission, in order to take part in the development of the products. Today, it offers the market a number of technical solutions in the field of wireless energy transmission - from consumer electronics to industrial products.

The process of creating products using technologies originating Node, has passed the stage from experimental studies to the creation and successful final testing of prototype devices.

The project's ITO (Initial Token Offering), presented by Node, is a fundraising operation aimed at the commercialization of technology and continuous production of devices.

IDEA DEVELOPMENT

On the basis of several discoveries in the field of high frequency pulsed electromagnetic fields made in the 70s-80s, it was proposed that it was possible to transfer energy through the magnetic moments of the atoms of matter, which was the starting point for Node's research.

Node was created with the goal of developing and implementing commercial use of a new technology of wireless energy transmission, which was developed and tested several years ago by a team of physicists from Russia.

Prior to this, from October 2012 until May 2016, a number of studies were conducted in the field of semiconductor materials, ceramic materials and their interaction with electromagnetic high-frequency impulse fields by team members. Gradually, various experimental proofs of the phenomenon of energy transmission through the magnetic moments of the atoms of matter were obtained, and the conditions were defined under which such a transmission takes place. At the same time, a decision to commercialize this technology was made.

From May 2016 until March 2017, the project team created possible technological solutions for commercial use, schemes were developed, and components were selected. A month later, a successful final testing of several prototypes of devices from 1W to 150W was carried out. In the period from May until July 2017, a design concept was developed, materials and technologies were selected for the production line of consumer products. In May 2017, the legal registration of the company was carried out, a settlement account was opened, the domain name and hosting were purchased, and an active search for funding sources was initiated.

TECHNOLOGY

In general, two fundamentally different schemes are being explored and improved upon by the scientists:

1. In an induction coil or an electric transformer, which have a metal or air core, the energy is transferred by a simple electromagnetic connection called magnetic induction. Using this method, the transmission and reception of energy became feasible at a considerable distance, but to obtain a significant voltage in this way it was necessary to arrange two coils very close to each other.
2. A magnetic/capacitive resonant coupling is used, where both inductors are tuned to a mutual frequency, so that a considerable amount of energy can be transmitted over a considerable distance.

The essence of the promising technology from Node is the imposition of several electromagnetic waves in the form of impulses of different duration and frequency to each other, after which these waves pass through a special ferroelectric material and an electromagnetic lens from the structured metamaterial.

By creating, with the help of short (nanosecond) high-frequency impulses of several electromagnetic waves, the conditions under which the atoms of matter pass into an excited state can transfer energy through absolutely any media. The higher the density of the medium, the higher the energy transfer coefficient. The transformation of energy occurs by creating conditions under which free (excited) electrons matter (semiconductor, metal) acquire an additional impulse and begin to move under the action of an electric field.

As a result, the outgoing signal acquires such properties of the electromagnetic wave that this allows it to pass through the materials while not being scattered at the same time, and also transmit electromagnetic energy over very long distances.

It's well known that different materials have different degrees of absorption of electromagnetic waves, and metals completely absorb energy acting as protective screens. For example, a thin foil can completely absorb an electromagnetic wave. But with Node technology, almost all materials (including metals) are perceived as transparent, which has little effect on the range and power of the transmitted energy. Due to these features, it's possible to transmit electricity for later use or storage, over long distances and through various materials and environments without significant losses.

Advantages of Node technology

- ✓ Receiving surfaces (antennas) of any shape
- ✓ Energy is transmitted in space (field), regardless of the position of the receiver in it
- ✓ Large distance of energy transfer
- ✓ Absolute protection against dust and moisture
- ✓ Energy transfer while the receiver is moving

The possibilities for using this technology are practically limitless. The technology can be built into any electronic devices without significant changes in size, weight, aesthetic appeal, etc. It also integrates directly into the controllers of lithium-ion batteries.

Transmitting devices have less weight and dimensions than existing analogues, and can be manufactured in virtually any design, including flexible shapes and various thicknesses. In addition, the generated energy can vary from milliwatts to powerful energy levels of tens of megawatts.

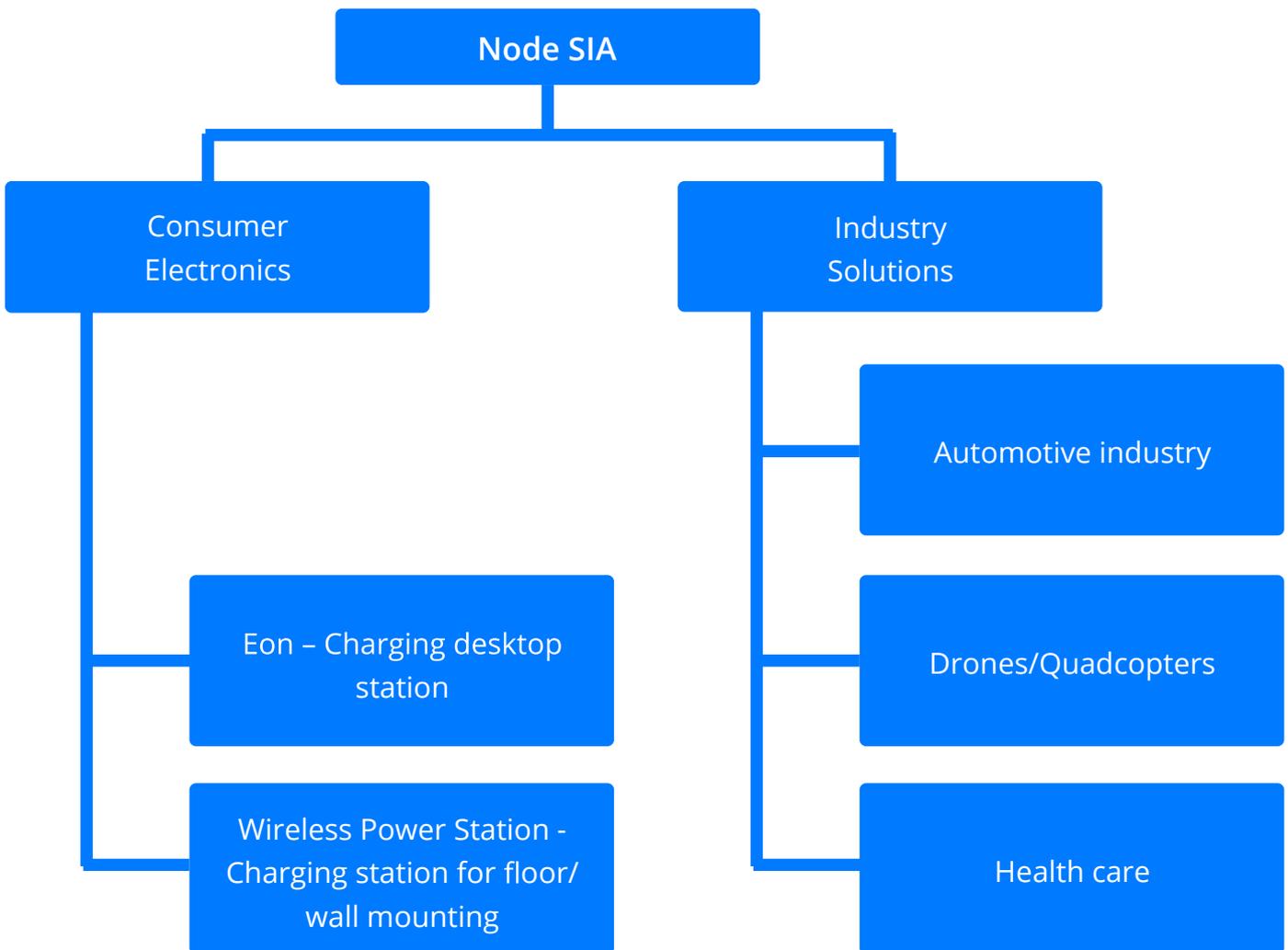
The technology has a low internal energy consumption, provides almost a complete energy transmission with efficiency of about 90%. In addition, it's completely silent, does not create distortion and electromagnetic interference.

Unlike the induction solutions available on the market, Node technology doesn't have limitations on the location of the receiving device with respect to the device that transmits energy. The receiving device can be freely located in all coordinates with respect to signal transmission in the existing coverage area.

The possibility to transfer energy from one device to an unlimited number of devices in proportion to the power consumption of each is available. For example, it's possible to transfer energy from a device with a maximum power of 100W to 10 devices of 10W, or 20 devices of 5W. If there are devices with different power consumption in the transmission area, the energy is distributed equally, depending on the distance and power of each device. It's possible to transmit energy when the receiving device is moving in the range of the signal.

PRODUCT LINE – UP (CURRENT)

We're going to offer the market a number of technical solutions in the field of wireless energy transmission - from consumer electronics to industrial products



Solutions for consumer electronics are represented by two devices →

2. Eon

Wireless charging station for desktop placement.



- Small dimensions.
- It's capable of transmitting energy within a **radius of up to 1 meter.**
- Being at an altitude of up to 200 mm from the level of the surface on which it is located.
- Wireless Power Pod provides charging of several devices simultaneously and is equipped with automatic power control.

Specifications:

- ✓ Target price ~ \$159
- ✓ Transmitted power - up to 150W
- ✓ Power supply - 220V
- ✓ Dimensions - 100x70mm

PRODUCT LINE – UP (DEVELOPMENT PLAN)

Solutions for the industry is the Node's strategic goal. They can be implemented in different areas: production, construction, agriculture, energy, security and many others. Now, the company conducts research in the following areas:

1. Automotive

The solution from Node allows for faster and more convenient charging of electric vehicles. It's enough to place the receiving device under asphalt, for example, parking and on the inside surface of the body; the vehicle will be ready for charging. The body itself can act as a receiver. This method is safe, affordable and environmentally friendly, and also as simple and fast as refueling a gasoline car on a regular gas station.

2. Drones wireless charging

Wireless charging and power technology provide multiple advantages over traditional connectors and docking systems, not only for unmanned systems, but also for industrial robotics. Moving on the surface, or passing areas where there is a signal, the robot can be charged from our wireless device.

Drones and quadcopters can be continuously recharged from wireless charging stations on the route. No need to connect the drone now to the connector or have a special bar for charging. There is an opportunity to create a distributed delivery network with the help of drones, for example, by placing the charging stations on houses.

3. Healthcare

Node is actively engaged in the research and development of new sensors for non-invasive determinations of the chemical composition of liquids and media. By using new methods of signal transmission through various media and collecting information on the change of these signals at different resonant frequencies, it's possible to determine with sufficient accuracy the presence and quantity of chemical elements and compounds in a certain volume of the medium space.

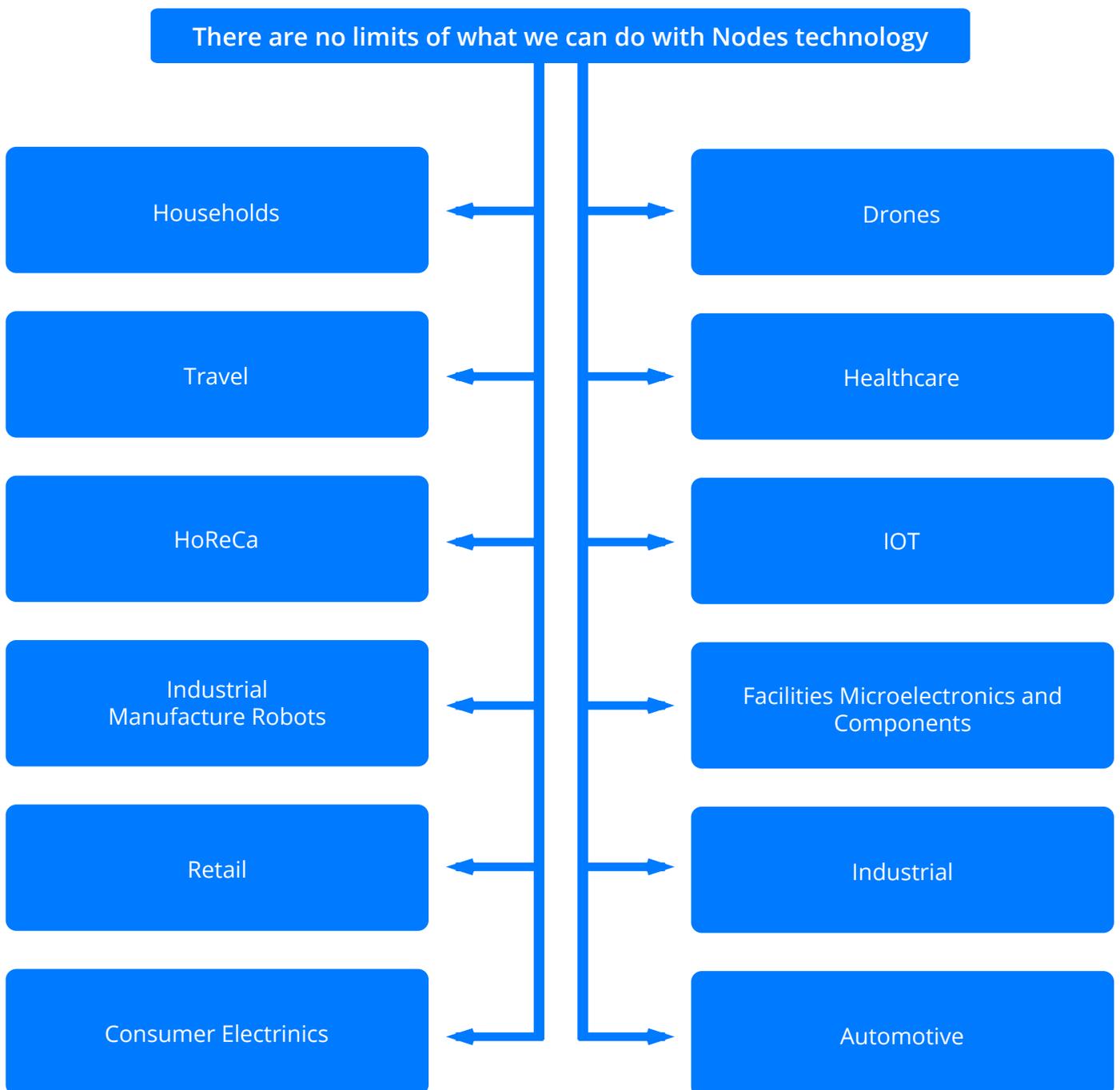
Using special algorithms, it's possible to determine deviations of environmental parameters from standard values and transmit this information. This allows for obtaining reliable and accurate data on the state of the environment in real time, remotely and with low power consumption.

This is a demanded product, which is extremely necessary in the medical industry, for example: to create devices that determine the chemical composition of blood, and also designed to control blood sugar levels, etc. Therefore, Node's technological solutions are widely used in medicine.

Starting with the maintenance of electronics for care and monitoring of health, ending with the supply of implanted devices, sensors and measuring devices. Implanted microsensors that run on batteries do not require a connection and can be easily recharged by simply placing them to the charging transmitter through the body.

These types of solutions are under development and would be presented later in 2018.

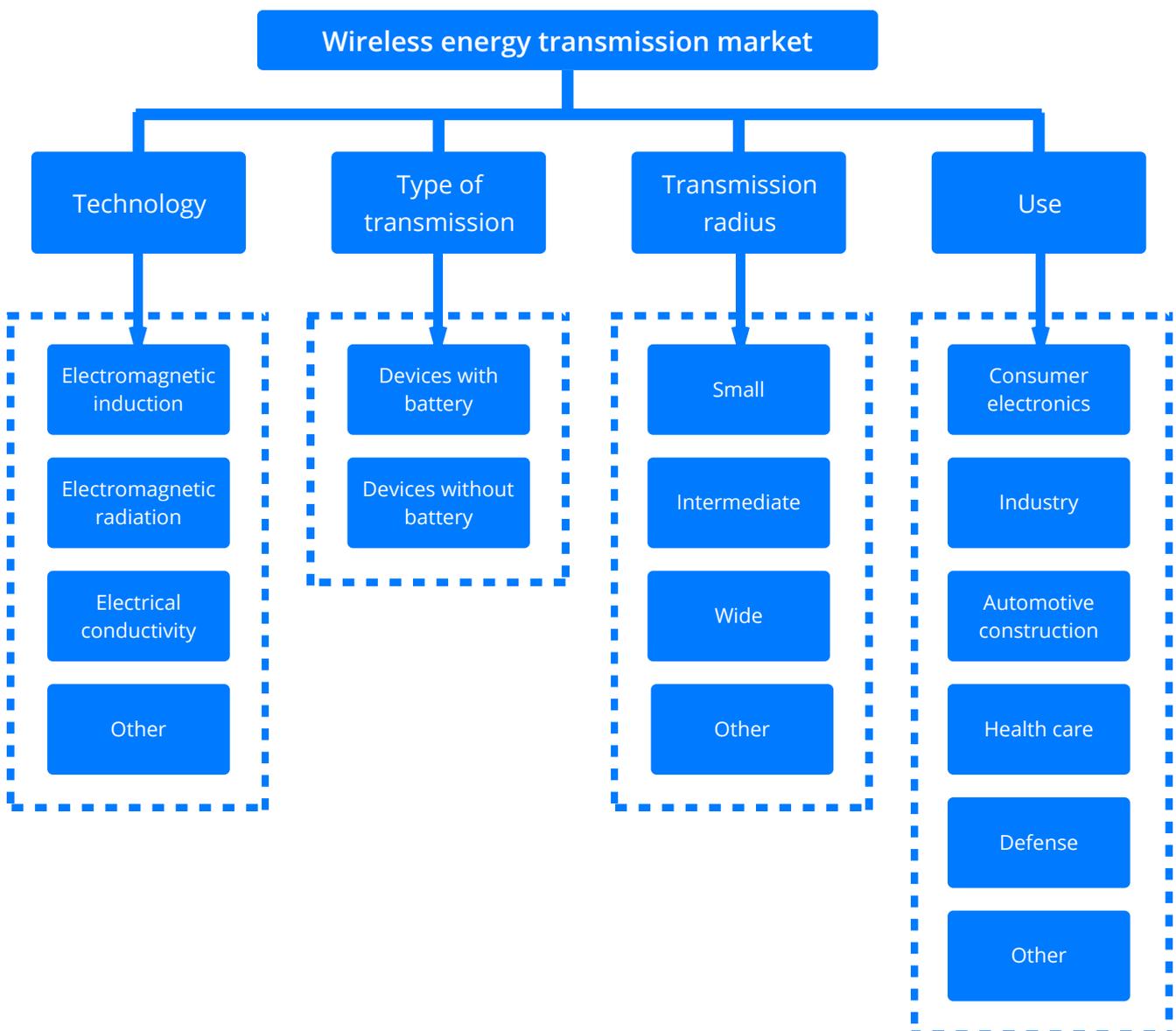
And much more.



MARKET OVERVIEW

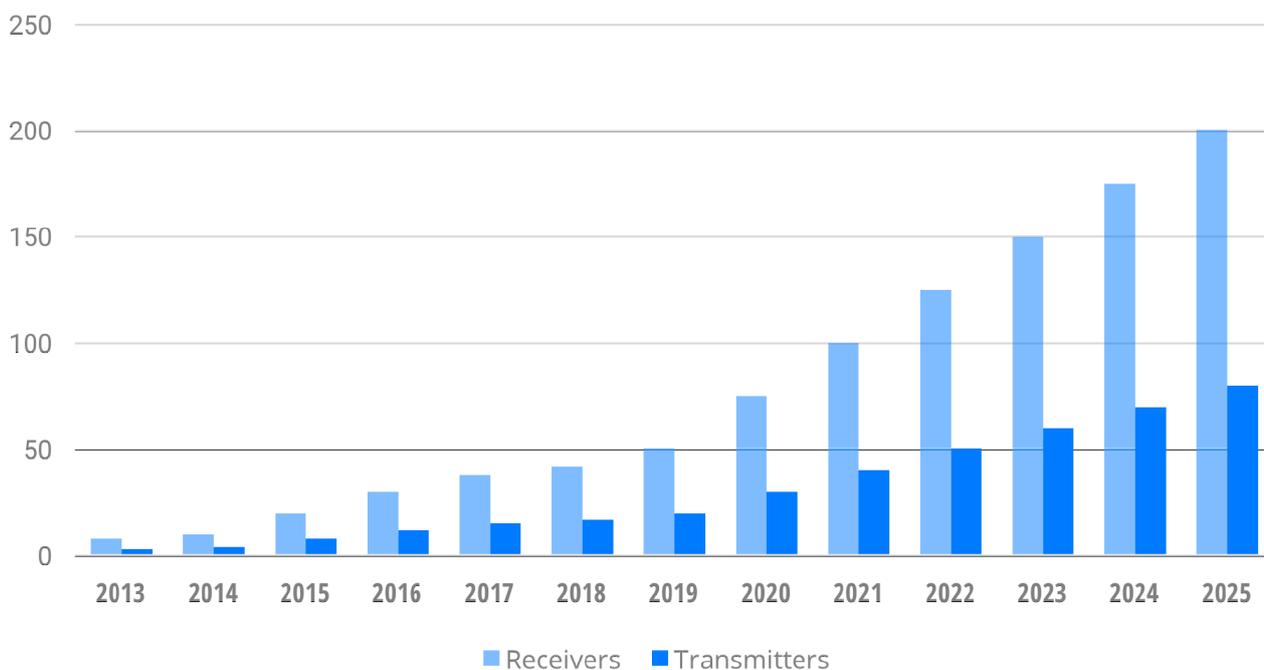
Achievements and innovations in the technological sphere, as well as an increase in production of automotive, household, portable electronics, mobile phones, notebooks, tablets and other energy-dependent products will, without doubts, increase and maintain the level of demand for wireless energy transfer systems. Due to the availability of wireless charging technologies, the use of various energy-dependent devices is simplified and at the same time, more effective.

The introduction of wireless power transmission prolongs the product life cycle, reduces the need for power cables and waste management. Although wireless technology is not created with environmental care purposes, it is certainly effective in this regard and will have a very positive influence on the environment. Its impact on devices and the external environment, can be certainly attributed to an ecologically clean kind.

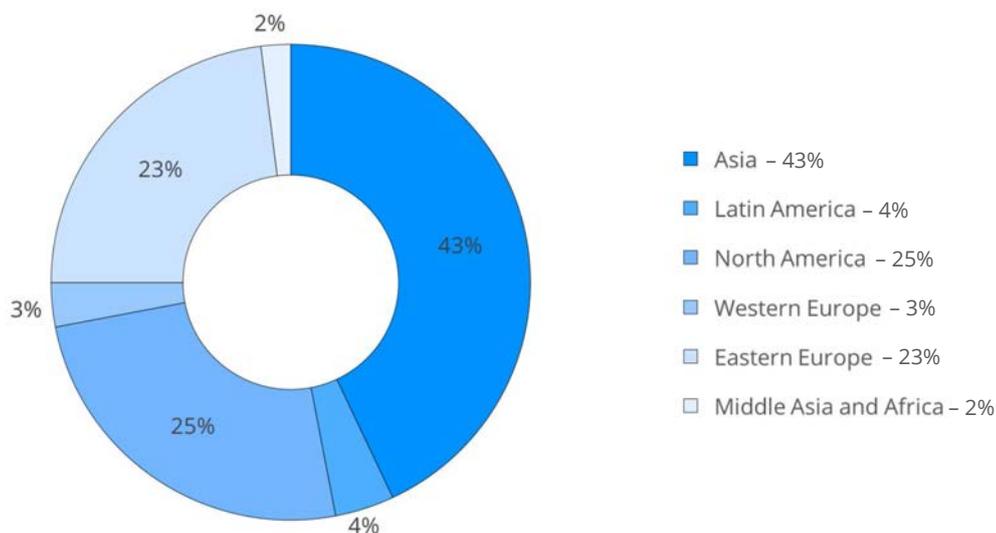


Revenues from wireless energy transmission products were estimated at approximately 2.43 billion USD, the largest portion of which was the segment of consumer electronics.

It is expected that by 2022 the market of wireless transmission devices will grow to 11.27 billion USD, an increase of 23.15% between 2017 and 2022. In addition, with the help of efforts and innovations in various areas of this industry, it's quite possible to achieve the projected profit in the industry by 2024 at a rate of 12.43 billion USD.



Worldwide sales of wireless transmission devices, thousand pcs.



Structure of the market for wireless transmission of energy by region, %

In 2016, the use of wireless systems was the most common in Asia, North America and Eastern Europe.

Among the companies that carry out research in the industry of wireless power transmission systems are the following: Ossia, Inc. (USA), Wi-Charge Ltd. (Israel), Energous Corporation (USA), Humavox Ltd. (Israel) and Fulton Innovation LLC (USA).

In addition, a significant contribution to the development of the market is made by: Qualcomm Inc. (USA), Texas Instruments Inc. (United States), Integrated Device Technology, Inc. (USA), Semtech Corp. (USA), Toshiba Corp. (Japan), Panasonic Corp. (Japan), and Rohm Co., Ltd. (Japan).

Among the competitive advantages of wireless transmission technology from Node, the following can be highlighted:

It is planned to sell the Node products in the markets of the USA, Europe, China and Japan. Taking into account the above facts, it can be stated that investing in the wireless energy transmission industry, with an annual market growth rate of more than 20%, is one of the most promising venues for increasing profits.

NODE COMPETITIVE ADVANTAGE

Most of the current wireless charging technologies comply with the Qi standard developed by the Wireless Power Consortium (WPC) for induction power transmission over a short distance. The Qi equipment includes a transmitter plate and a compatible receiver in the connected device. The device to be connected is placed on the transmitter plate when used and charging occurs through inductive energy transfer, such as in transformers. Manufacturers such as Apple, Asus, HTC, Nokia, Samsung, Sony use this standard in some of their devices.

At this stage, the Qi wireless charging technology has many drawbacks, here are just some of these disadvantages: low efficiency; low speed of work; relatively high cost; The charging speed of the device's battery depends on the distance between the device and the station.

The Node technology is fundamentally different from the one used in the Qi standard, the technology is based on the imposition of several electromagnetic waves in the form of impulses of different duration and frequency, and then these waves pass through a special ferroelectric material and an electromagnetic lens of a structured metamaterial.

As a result, the outgoing signal acquires such features of the electromagnetic wave that allow it to pass through the materials and not be scattered at the same time, and also transmit electromagnetic energy over long distances.

Transmitting devices have less weight and dimensions than existing analogues, and can be manufactured in virtually any design, including flexible shapes and various thicknesses.

The technology has a low internal energy consumption, provides almost complete transmission of energy with about a 90% efficiency rate. In addition, it's completely silent, does not create distortion and electromagnetic interference.

Unlike the induction solutions available on the market, the Node technology does not have limitations on the location of the receiving device with respect to the transmitting device. The receiving device can be freely located in all coordinates with respect to signal transmission in the existing coverage area.

It's possible to transfer energy from one device to an unlimited number of devices in proportion to the power consumption of each. For example, it's possible to transfer energy from a device with a maximum power of 100W to 10 devices of 10W, or 20 devices of 5W. If there are devices with different power consumption in the transmission area, the energy is distributed evenly, depending on the distance and power of each device.

The possibilities for using technology are virtually limitless. The technology can be integrated into any electronic devices without significant changes in size, weight, aesthetic appeal, etc. And also can be integrated directly into the controllers' board of lithium-ion batteries.

Among the competitive advantages of wireless transmission technology from Node the following points can be highlighted:

- ✓ Variety of energy solutions from milliwatts to megawatts
- ✓ Ability to transmit energy to long distances
- ✓ Ability to transfer energy through any material and environment
- ✓ Three times less weight and compactness
- ✓ Possibility of charging devices production for any shape, including flexible ones
- ✓ Ability to charge devices without a fixed position
- ✓ Attractive price of products makes them affordable

ROADMAP



WHO WE ARE

ADVISORS

A team of experts dedicated to driving the technology's next level



George Mikaberydze
Advisor

CEO and Co-Founder of the 100AM. Previously, Co-Founder and Managing Director of Healbe. Healbe Corp. is the owner of Healbe FLOW™ Technology the only one that can measure your calorie intake via sensors through your skin, hydration level and more - all these features you can experience with Healbe GoBe 2 smart-life band. More than 10 years of experience in media (RBC, Hearst Shkulev Media) in marketing, business development and launching new projects. Top 5 Marketing Director in Russia (according to Kommersant rating in 2009-2010)



Elizaveta Tolstikova
Advisor

Media and Brand communication consultant. 5 years experience in communication strategy development and media campaign implementation



Georgii Erman
Advisor

Expert-analyst, independent consultant on investments in ICO projects, active crypto-currency entrepreneur, experienced sales and marketing specialist. Co-founder of Aurora Blockchain Capital, which is an international investment fund specializing in analytics and investments in crypto-currency assets



Sergey Lepeshkin
Advisor

Strategic management consultant, expert in legal accompaniment of corporation activities. More than 10 years experience in mergers & acquisitions, business valuation and selling companies wether in domestic or international markets



TEAM



Pavel Zelenin
Founder

Research and development of new ceramic materials and methods of storage and transmission of electric power



Daniil Morozov
Co-Founder

PhD in Economics. Over than 10 years in financial consulting, winner of "100 best products of Russia", "Financial Russia 2007", "Financial Russia 2008". Business Angel, 15 startups in his portfolio



Oleg Pensky
Chief Science Officer

Scientist and inventor in the field of mechanics and mathematical modeling. PhD in technical science, founder of the theory of robots with non-absolute memory



Dmitry Okulov
Chief Technical Officer

Specialist in the field of Internet marketing and site building. Practical experience in building a complex Internet marketing in many niches of a business, including startups. Higher technical education, specialization - information systems and technologies





Irina Kotova

Financial Planning and Accounting Expert

More than 10 years of experience in banking. Long term practice of sales and financial analytics. Constant newscaster of the "Market Survey" rubric in the program "Week Results" on the regional channel RBC



Denis Konogorov

Investments Expert

Specialist in the field of investment, banking, finance and risk assessment. Eight years of experience in senior positions in companies such as: UralFD Bank and Perm-Invest. Master's degree in Finance (Glasgow Caledonian University, Scotland)



Olga Sivitskaya

Marketing Expert

Marketing expert with 11 years of project management, developed mostly within advertising and sport & health industries, including hardware projects (fitness tracker) with focus on U.S. and Europe markets & 9 years in marketing: brand strategy development, brand advertising campaigns development and execution, digital & cross media marketing, Degree in Marketing and Product Management



Elena Petrova

Community Manager

Work experience of about 5 years in companies from various fields. About 10 scientific articles in international publications devoted to increasing the competitiveness and development of the company on the market.



Mikhail Pan

Sales: Asian markets

Long term practice of selling, developing documentation and consulting clients in the European and Asian markets. Has a higher legal and economic education.



Yulia Trubnikova

Sales: European and US markets

Specialist in building sales systems and customer relations, as well as investments. More than 13 years' of experience in such companies as: Lukoil and VISA. Master's degree in Management (Universidade Nova de Lisboa, Portugal)



Evgeny Petrikin

Sales: Middle Eastern Markets

Expert with more than 15 years of experience in project management, modification and adjustment in countries such as: UAE, Qatar, Russia, and Kazakhstan. Works in close cooperation with diverse and multi-national teams.



Ibtihaj Abrar

Product Designer

Many years of experience as a designer of products in the field of technology. Master's degree in Graphic Design and Outdoor Advertising.



Vadim Kotov

Investor Relations

Experience in the equity market, banking sector and insurance. Many years of experience in the securities market, in the banking sector and in insurance. For more than three years, he's has been leading a formed created group of companies, specializing in marketing and Internet promotion of clients' businesses.



PARTNERS



INVESTMENT OPPORTUNITY

The NODE token offers a unique opportunity to participate in a revolutionary technological start-up. The current round of the funds raising is aimed at financing the production and organization of marketing and sales for Node's devices.

At this moment, the R&D phase is over, prototype production and testing stages have been completed. Tests of prototypes demonstrated full compliance with the declared characteristics. The current stage of a development allows to become a member of our ITO campaign now, when risks related to the product's performance are already smoothed out, and at the same time there is a maximum potential for the future increase in the token's price.

There are the following reasons why the NODE token will grow in price:

Redemption

The Annual buyback of tokens will be calculated using the following formula:

$$\text{Volume of undistributed profit} \times \frac{\text{Volume of NODE tokens sold}}{\$ \text{ mln}}$$

That is, if the sales level of 10 million NODE tokens is reached, 30% of the Node profit will be redeemed, followed by a subsequent burning of the tokens.

Therefore, the interest income that will be received annually from the buyout of tokens will be easily calculated. Accordingly, the longer a token owner holds his tokens, the more income he can get.

The NODE tokens, which will be acquired as a result of the buyout, will be burned, thus the total quantity of tokens will be reduced.

Discount Program

Purchase of the Node products with tokens with a 25% discount in relation to the value in a fiat currency (US dollars). At any time, the buyer will have the opportunity to purchase the Node products and pay for the order with NODE tokens. The cost of the Node products will be calculated using the following formula:

$$\frac{\text{The cost of production in \$}}{1 \text{ NODE (\$1)}} - 25\%$$

In this case, the actual cost of Eon when paying with NODE tokens will be \$119,25 instead of \$159.0

The NODE tokens, which will be acquired as a result of the sale of its products, will be burned thus total quantity of tokens will be reduced.

Tokens Buyback Case

If \$1,000 is spent on the Pre-ITO and 1,500 NODE tokens are received, the following 2 scenarios are possible:

- A.** Exchange tokens for Node products with a 25% discount and purchase Eon for \$2000 at the market value. In this case, your benefit will be equal to 100%
- B.** With a realistic ITO scenario, the volume of the NODE tokens sold will be \$5mln. In March 2019, 15% of undistributed profit for 2018 (\$0.84 mln) will be directed for the redemption of tokens. At a market value of \$2 per each NODE, 420,000 NODE tokens will be redeemed. Accordingly, 1,500 NODE tokens can be sold for \$3,000, therefore a 200% profit is received from the \$1,000 invested during Pre-ITO.

Given the fact that the redeemed tokens are burned, there will be fewer tokens on the market every year, and the remaining NODE tokens in circulation are projected to grow by 40-60% annually. Accordingly, with each year of ownership, an ITO participant can receive a 50% increase in the price of each held token.

Tokens Buyback Procedure

A month before the start of the tokens' buyback procedure, the start of the orders' collecting procedure is announced. Applications are processed in the user's personal account, and according to the results of the orders collection procedure, Node redeems the cheapest orders for the entire amount sent from the undistributed profit and burns them.

POSITIVE DYNAMICS OF NODE TOKENS DEMAND

The demand for NODE tokens will be formed by a combination of factors: the implementation of a buyback and the provision of a discount on products when purchased directly from Node. Depending on the ITO implementation scenario, with some assumptions, it's possible to calculate the estimated annual "organic" demand for NODE tokens.

Scenario	Mln, NODE tokens	Direct sales by tokens, %	Direct sales by tokens, mln \$	Buy-back, %	Buy-back, mln \$
1	2,5	10%	1,0	7,5%	0,19
2	5,0	10%	2,3	15,0%	0,84
3	10,0	10%	4,8	30,0%	3,56

That is, in the case of the third scenario, the estimated annual demand would be about 8 million US dollars without taking into account the increase in demand due to the release of new products to the market and the reduction in the number of free-to-use tokens.

ITO PARAMETERS

Token Name: NODE

Accepted currencies: BTC, ETH

Soft cap / Hard cap: 1 million tokens / 10 million tokens

Total amount of tokens, including Pre-ITO: 10 million pcs.

The NODE token is planned to be introduced on the trading exchanges at the end of the ITO.

Pre-ITO		ITO	
Start:	07.12.2017 12:00 UTC+2	Start:	15.02.2018 12:00 UTC+2
End:	14.02.2018	End:	15.04.2018
Token price:	\$1	Token price:	\$1
Minimal contribution:	10 USD in equivalent	Minimal contribution:	10 USD in equivalent
Total amount of tokens:	0.75 million pcs.	Early participants receive bonuses:	15.02 - 24.02 30% 25.02 - 06.03 20% 07.03 - 16.03 15% 17.03 - 26.03 10% 27.03 - 16.04 0%
Rounds receive bonuses:	07.12 - 07.01 50% 15.01 - 31.01 45% 01.02 - 14.02 40%	Token distribution:	2% of the sold tokens on the bounty program

Technical Implementation of Token and ITO Procedure

Failure to achieve the minimum financial target amount of 1.0 million (SoftCap) as a result of the ITO will trigger a refund process.

The Crowdfunding Manager (hereinafter – CFM) will send the contributed amounts back to addresses of donors who had participated in the crowdfunding as well as will fiat by wire transfer to the accounts from which investments were made.

Tokens will be released on the Ethereum platform with ERC20 standard support.

Forwarding ETH to the address of the contract automatically leads to the transfer of the corresponding number of tokens to the sender's address.

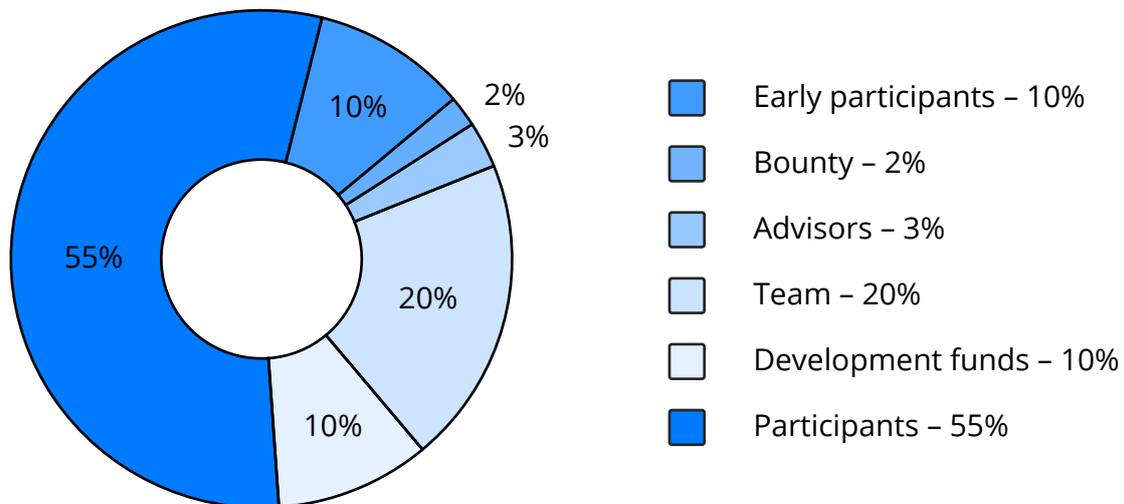
If the round is successfully closed, the ITO organizer can withdraw ETH to its address (withdraw method).

In the case of an unsuccessful closing (SoftCap is not achieved), each member of the ITO can return its donations (getBack method).

Subject to clause of the minimum funding sum, all donations to Node, including Pre-ITO and ITO, are final and non-refundable. By participating in the crowdfunding, you acknowledge that Node is not required to provide a refund if we achieve our minimum financial goal, and that you will not receive money or other compensation in lieu of a refund.

All unsold and unallocated tokens are burned.

Distribution of tokens (%)



Bounty Program

2% of all sold tokens will be reserved for the bounty program and will be allocated as follows:



Distribution of Collected Funds

Pre-ITO (\$0.5 mln):

- ✓ Application for trademarks in Europe and the USA
December 2017 – March 2018
- ✓ Request for patents in Europe and the USA (technology)
January 2018 – March 2018
- ✓ Finalization of the legal structure of the ITO, obtainment of a legal opinion
December 2017 – January 2018
- ✓ Marketing campaign for the ITO
January 2018 – April 2018

ITO (\$2.5-10 mln):

- ✓ Testing and obtaining a certification for Eon in Europe and the USA
May 2018 – July 2018
- ✓ Production of the trial consignment of Eon July 2018 - September 2018
- ✓ Request for the patents in Europe and the USA (design and model)
(October 2018)

FINANCE

Most of the funds will be spent on production. First, a small batch will be made for testing, popularizing and further improving the product.

The cost of certification in the US and Europe is around 60 thousand USD. The cost of patent work in the departments of the United States, Europe, China and Japan is 60 thousand USD. The cost of registration of 5 trademarks and promotion of the brand will amount to around 20 thousand USD. The costs forecast of the project for the scenario №1 is shown below:

NAME	2018	2019	2020	TOTAL
Preparatory costs, thousand USD				
Patent work	60			60
Creation of production prototypes Eon	15			15
Certification of Eon products	40			40
Registration of trade marks	20			20
Creating a production prototype Wireless Power station		7		7
Wireless Power station certification		20		20
Production of a test batch of devices	24	12		36
TOTAL	159	39	0	198
Direct variable expenses, thousand USD				
Production of the commercial batch Eon	5850	7605	9126	22581
Production of commercial batch Wireless Power station		4000	4800	8800
TOTAL	9600	16480	19776	45856
Fixed costs, thousand USD				
Administrative expenses	88	101,2	116,38	305,58
Salaries	200	230	264,5	694,5
TOTAL	288	331,2	380,8	1000,08
Marketing and promotion expenses, thousand USD				
Participation in exhibitions	75	86,25	99,19	260,44
Presentations for partners and investors	66	75,9	87,29	229,19
SEO and search engine advertising	22	25,3	29,1	76,4
Teaser advertising	23	26,45	30,42	79,87
Banner advertising	11	12,65	14,55	38,2
Email listing	8	9,2	10,58	27,78
Paid posting	19	21,85	25,13	65,98
Targeted advertising	28	32,2	37,03	97,23
Press releases	25	28,75	33,06	86,81
TOTAL	277	318,55	366,33	961,88
TOTAL EXPENSES, thousand USD	10324	17168,7	20523,21	48015,96

Revenue forecast from the sale of devices is shown below:

NAME	2018	2019	2020	TOTAL
Eon implementation	7605	9886,5	11863,8	29355,3
Wireless Power station implementation	0	5200	6240	11440
TOTAL, thousand USD	12480	21424	25708,8	59612,8

The amount of preparatory costs for 2017 is included in 2018. The forecast includes an annual increase in administrative costs, labor costs, marketing and promotion by 15%.

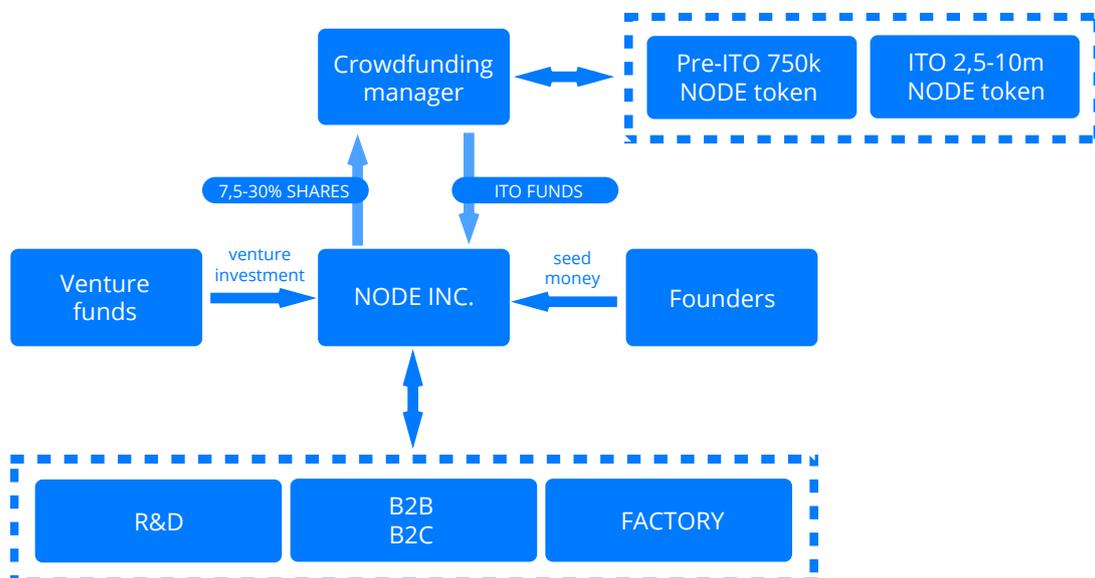
Finances and Legal Aspects

The collection and management of raised funds will be controlled by the crowdfunding manager (CFM). At the Pre-ITO stage, the CFM function is performed by the CEO of Node, Pavel Zelenin. At the ITO stage, CFM will be selected for the fundraising management, located in a favorable to blockchain jurisdictive environment. The choice will be made based on the legal opinion obtained after the Pre-ITO.

To provide additional guarantees in respect to the rational spending of the collected funds and adherence to the timeframe of the project, an Escrow partner will be involved at the ITO stage.

All funds collected on the ITO will be kept on a multisignature-wallet, the owner of wallet is CFM. The control over the excessive expenditure of funds and the authorization of tranches will be carried out under the supervision of the CFM and Escrow partner that will be determined after Pre-ITO.

Due to a dynamically changing situation in the crypto-industry of the Escrow agent, the order of granting access to the collected funds during the ITO will be determined after the completion of the Pre-ITO and before the start of the ITO.



RISKS DISCLAIMER

The present document is for information only and is not an offer or appeal to buy or sell tokens or other funds.

The NODE tokens do not accord a supervisory right.

The possession of the NODE tokens does not vest their holder with right of ownership or legal title of property in Node or other affiliate company.

While the community's opinions and reviews may be taken into account the NODE tokens do not give any right to participate in decision making or any direction of development of the business related to the Node or other affiliate company.

Tokens can be used for the purchase of the Node products at a special price and participation in the loyalty program.

By purchasing the tokens, you acknowledge that you have read and accepted the conditions of the Terms & Conditions (TC).

By purchasing the tokens, you acknowledge that you have read and accepted the Privacy Policy.

1. Technological Risks

Despite the many advantages of wireless transmission technology and its great importance for a number of technological devices and inventions that are widely used today, there are also a number of issues. Some of these problems are related to the definition of standard application and various methods of technology implementation that can ensure the mass application and integration of technology into the everyday life of consumers.

Another problem, is the definition of a world standard in wireless networks, which will allow many consumers to use a more convenient power source in a wireless system, and also charge multiple devices without using inconvenient adapters and cords. This problem relates to the fact that there is no need for wireless power systems that can only be used for individual brands or devices, but there must be a universal wireless power transmission system that will fit everyone; a single global standard.

In the process of developing new technologies for wireless energy transmission systems, there is also the cost issue. The cost is often high, due to the fact that a lot of resources are involved in the production of a unit of production. This, in turn, is also a risk, since consumers can view wireless systems as too expensive for a product.

It's obvious that at the moment, the wireless energy transmission system is not able to completely replace the power lines or outlets, but no doubt, the wireless power supply system will very soon become the "future" of the energy industry.

Despite the risks associated with the problems and obstacles in the technology of wireless power systems, this industry is nevertheless quite attractive, in particular with regards to its positive prospects for growth now and in the future.

2. Risks Associated with the ITO

No Warranty for Obtaining Income or Profit

We intend to reach all the points described in this document, but all parties involved in buying the tokens do so at their own risk. In the case of unforeseen circumstances, the aims described in this document may be changed without the prior consent of the holders.

All calculations used in this document are foreseeable and can be adjusted at any time taking into account the market situation. They are not a guarantee of the achieving the marketing results. The possession of the token does not give the holder the right to own the property of the company.

Ambiguous Legislation

Only individuals who are aware of the risks are allowed to participate in the project. In addition, certain categories of individuals are excluded from the scope of the project, including consumers (as defined in European Directive № 2011/83 / UE), "US individuals" (as defined in "Regulation S" of the US Securities Act of 1933), residents of the Singapore, Korea and several other countries where legislative limitations have already been imposed.

Technologies related to blockchain and digital tokens are subject to supervision and control by various regulatory bodies around the world. It is not excluded that NODE tokens can get under requests, actions or restrictions on their part, which may limit the functionality or redemption of tokens in the future.

Risk of Fund Loss

Funds collected in the ITO process are not insured. In case of loss or devaluation, there is no private or public insurance representative, to which the buyer can apply.

Emerging Technology Use Risk

Crypto-tokens are a fairly new and relatively untested technology. In addition to the risks mentioned in this document, additional ones may appear that the project team can not foresee. These risks can materialize in other forms than those specified here.

Failure Risk

You agree that Node shall not be liable for your use or failure to use the tokens. From the moment of release, NODE tokens will be sent to you without any guarantees (including guarantees of commercial value), without violating anyone's intellectual property rights.

Fraud Risk

NODE Tokens are not offered or distributed, nor can they be resold or otherwise alienated by their owners to citizens, individuals and entities resident or registered in the United States of America (including all states and the District of Columbia), Puerto Rico, the United States Virgin Islands States, any other possessions of the United States of America, as well as in countries or territories where operations with crypto-currencies are prohibited or in any way restricted. If such a person acquires NODE tokens, his actions will be regarded as illegal, unauthorized and fraudulent, which will have negative consequences.

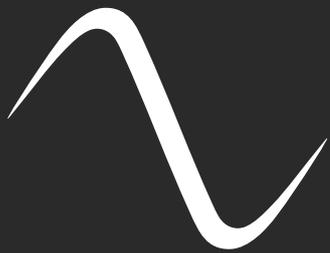
Howey test

The NODE token is a classical utility token. The Node team has passed the Howey test with a score of 30.

However this fact does not exclude all risk that the NODE token will be recognized as a security paper by SEC. That is why we impose a restriction on the possession of the token by US tax residents and apply preventive measures in the form of blocking American IP, and the actions of tax residents to acquire NODE tokens we consider as fraudulent.

After the pre-ITO phase, the Node team plans to involve specialized companies to obtain a legal opinion on the structure of attracting financing, interacting with crowdfunders, carrying out business activities of the main company Node SIA.

As a priority consultant, we are considering one of the «big four» companies, but we do not exclude the possibility of attracting a legal company of the country of incorporation Node SIA.



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