ENG

Welcome to Wireless Future

Intelligent technology for wireless energy

NODE WHITEPAPER

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INTRODUCTION

Node is a revolutionary high-tech start-up, that forms a new 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 doubled insulation.

In 2017 the Node brand was created in order to implement the idea of the project, register the intellectual property rights, attract key specialists in the field of wireless energy transmission 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 from Node 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 suggested 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 for commercial use a new technology of wireless energy transmission, developed and tested several years ago by a team of physicists from Russia.

Latvia was chosen to be a place for the Node's headquarter, since the local tax system has many advantages that allow to call this jurisdiction low-tax:

- Latvian tax legislation is more liberal than the legislation of other EU members.
- Absence of income tax on capital gains.
- Absence of income tax on dividends.
- When paying dividends to nonresident founders, the tax is not withheld.
- The royalty tax on interest for nonresidents of Latvia is abolished.

Before this, from October 2012 till May 2016, a number of studies were carried out in the field of semiconductor materials, ceramic materials and their interaction with electromagnetic high-frequency impulse fields by the 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 occurs. At the same time, a decision to commercialize this technology was made.

From May 2016 till 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 till July 2017, a design concept was developed, materials and technologies were selected for the production line of consumer products. In May 2017, a legal registration of the company was carried out, a settlement account was opened, 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 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 the mutual frequency, so that a considerable 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 and not be scattered at the same time, and also transmit electromagnetic energy over very long distances.

It is well known, 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 is 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 of using technology are practically limitless. The technology can be built into any electronic devices without significant changes in size, weight, aesthetic appeal, etc. And also integrate directly into the controllers of lithium-ion batteries.

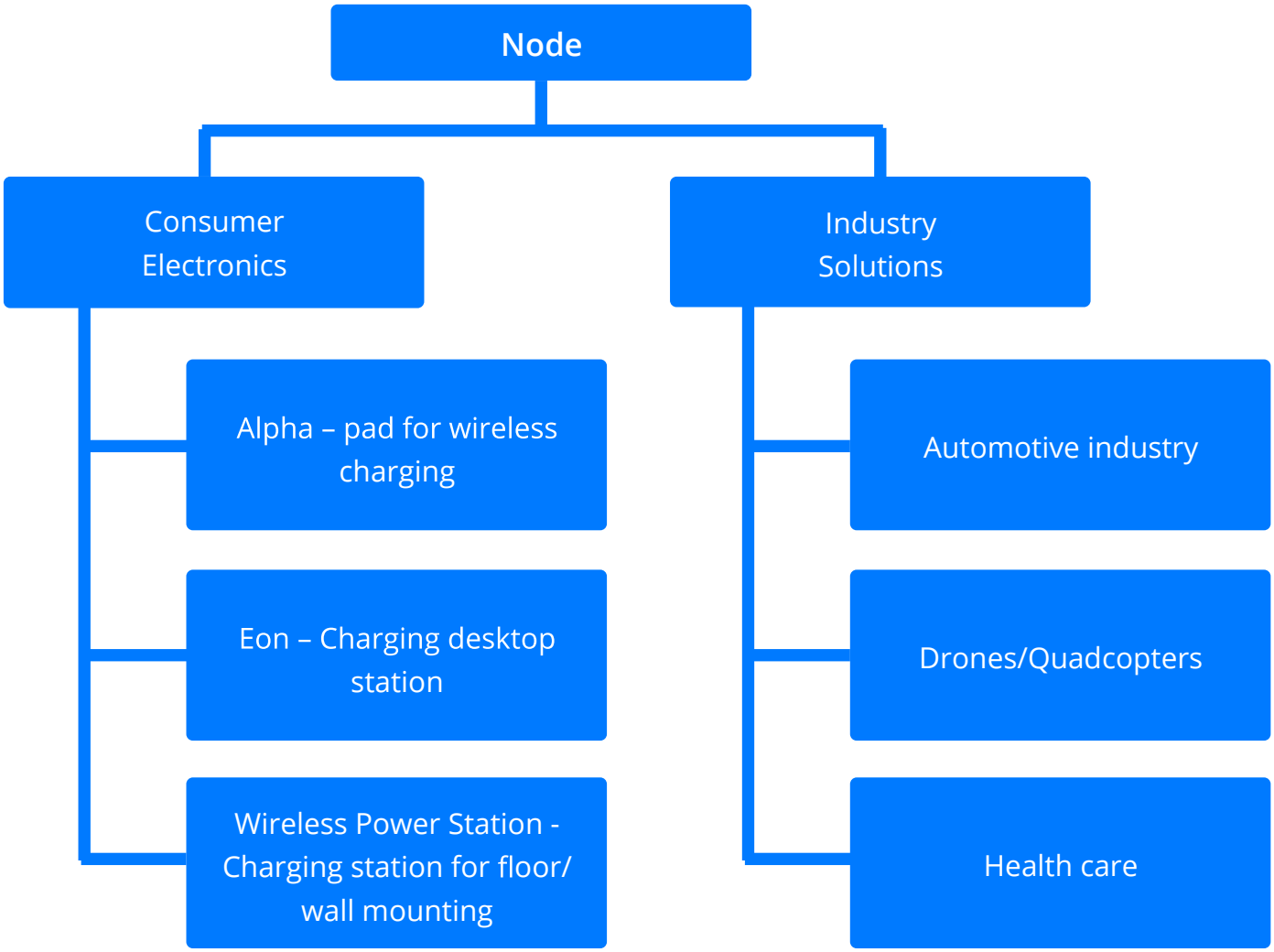
Transmitting devices have less weight and dimensions than existing analogues, and can be manufactured in virtually any design, including flexible shapes and various thicknesses. In addition, the generated energy can vary from milliwatts to powerful energy levels of tens of megawatts.

The technology has a low internal energy consumption, provides almost a complete energy transmission with efficiency of about 90%. In addition, it is completely silent, does not create distortion and electromagnetic interference.
Unlike the induction solutions available on the market, Node technology does not 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.

A 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 is 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 is possible to transmit energy when the receiving device is moving in the range of the signal.

PRODUCT LINE – UP (CURRENT)

We are 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 →

Alpha

Flexible stylish pad for wireless charging of electronic devices, allows you to charge portable electronics, mobile phones, smartwatches, tablets, laptops and cameras. The device does not consume power in standby mode. Slim and flexible design of the Alpha ensures the convenience of folding, transporting and storing the device.

A large charging surface area allows several devices to be serviced simultaneously or located on top of each other, providing an effective charge and transmitted power. When charging multiple devices, the power transmitted to each device decreases in proportion to the total power consumption (per device). Alpha conveniently uses a standard USB power adapter for any device. Provides three types of wireless receivers: micro-USB, Lightning and USB Type-C.

Specifications:

- Price: 99$
- Surface area 300x200mm
- Transmitted power up to 10W
- USB 5V power supply

Eon

Wireless charging station for desktop placement. It has small dimensions and is 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:

- Price: 159$
- Transmitted power - up to 150W
- Power supply- 220V
- Dimensions - 100x70mm

PRODUCT LINE – UP (DEVELOPMENT PLAN)

Solutions for 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 faster and more convenient charging of electric vehicles. It is 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 determination 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 is 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 is possible to determine deviations of environmental parameters from standard values and transmit this information. This allows to obtain reliable and accurate data on the state of the environment in real time, remotely and with low power consumption.

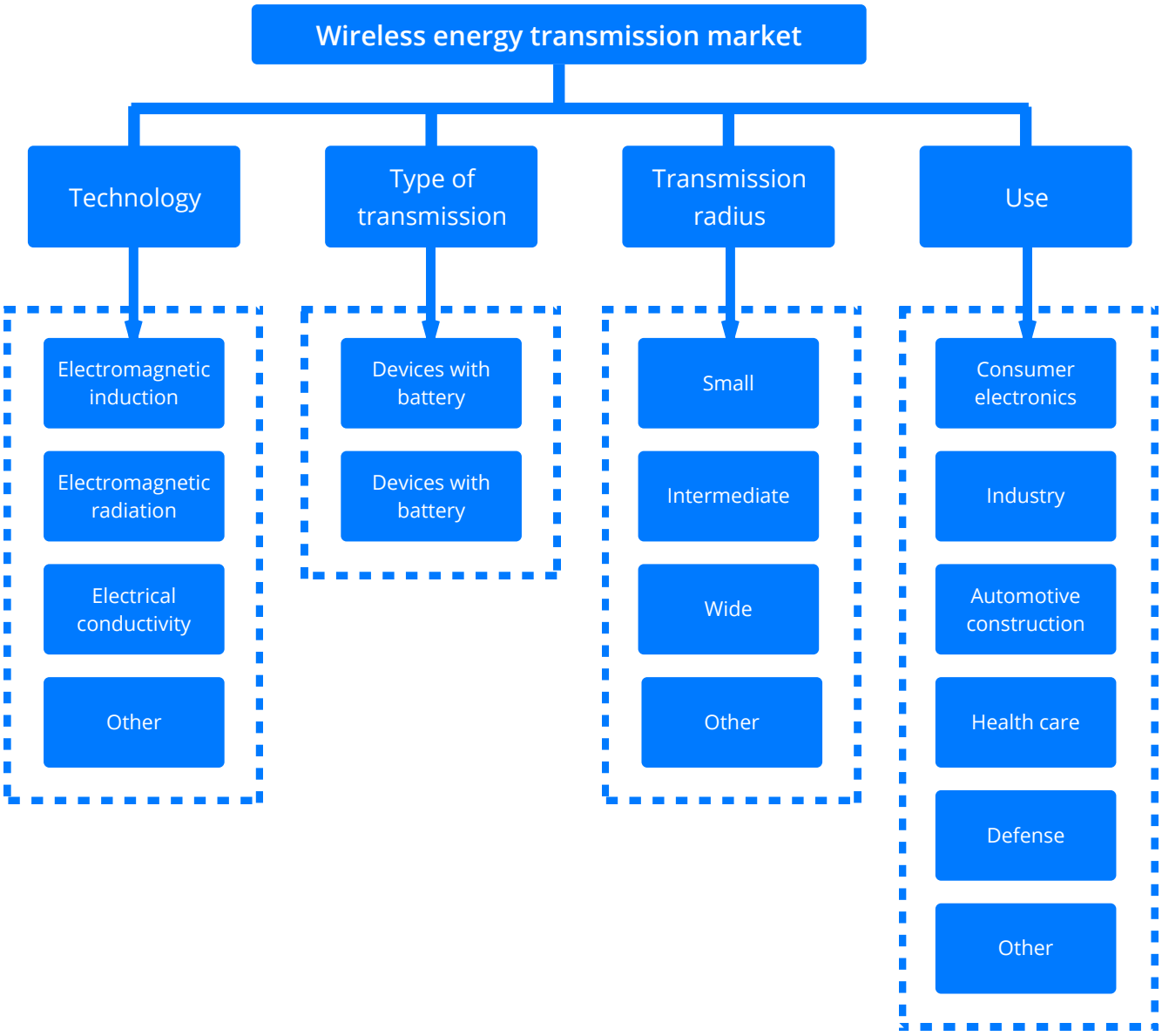
This is a demanded product, which is extremely necessary in the medical industry, for example: to create devices that determine the chemical composition of blood, and also designed to control blood sugar levels, etc. Therefore, Node's technological solutions are widely used in medicine. Starting with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

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

MARKET OVERVIEW

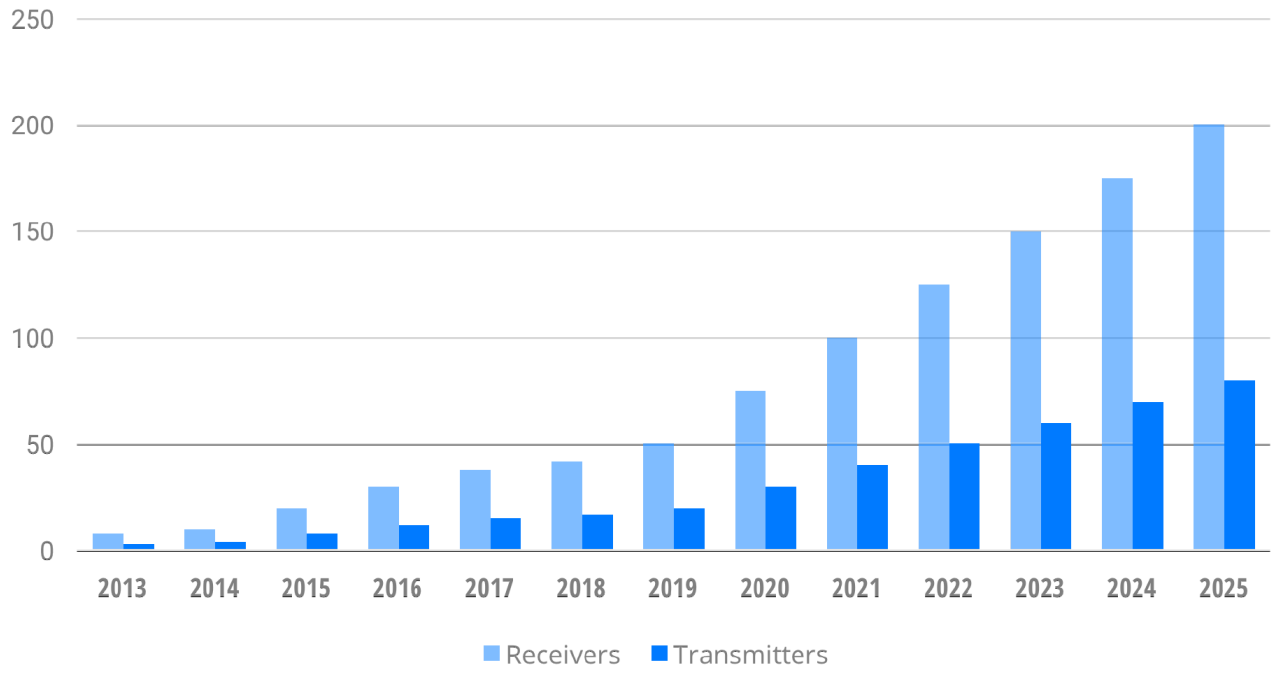
Achievements and innovations in the technological sphere, as well as an increase in production of automotive, household, portable electronics, mobile phones, notebooks, tablets and other energy-dependent products will, without doubts, increase and maintain the level of demand for wireless energy transfer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

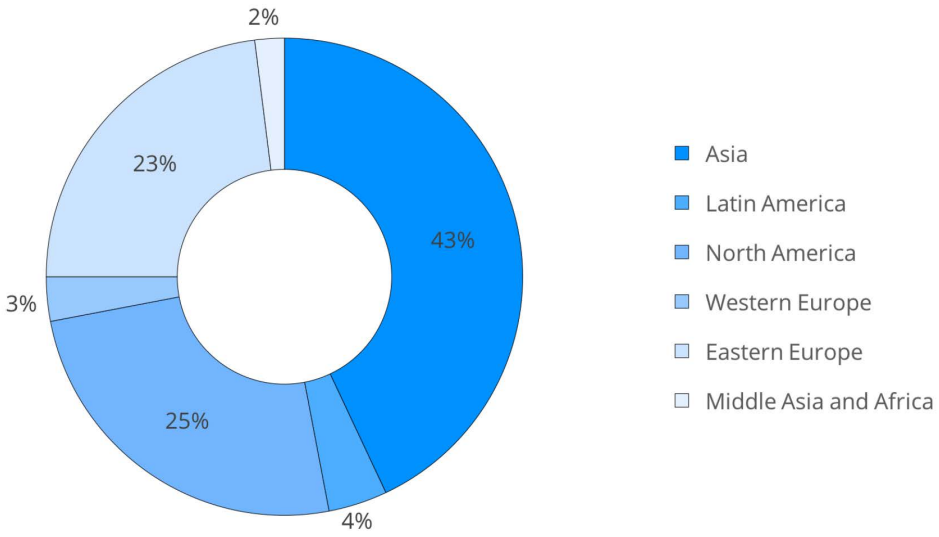


Revenues from wireless energy transmission products were estimated at approximately 2.43 billion USD, the largest part of which was the segment of consumer electronics.

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 is 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 tools 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 is 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 is possible to transfer energy from one device to an unlimited number of devices in proportion to the power consumption of each. For example, it is 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 of 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 materials and environments
- Three times less weight and compactness
- Possibility of charging devices production of any shape, including flexible ones
- Ability to charge devices without a fixed position
- Attractive price of products makes them affordable

ROADMAP

10.2012 — 05.2016	The project initiator and like-minded peopleconducted a research in the field of semiconductor and ceramic materials and their interaction with electromagnetic high-frequency impulsive fields
06.2016	Based on the obtained results, a decision was made to commercialize the technology
06.2016 – 03.2017	Development of schemes and technological solutions, selection of components
04.2017	Successful final testing of several prototype devices
05.2017 – 06.2017	The design concept was developed, materials and technologies for a sample batch manufacturing were selected
05.2017	Registration of Node as a legal entity
06.2017 – 09.2017	Negotiations on financing and preparation for the ITO
10.2017 – 11.2017	Creation of a corporate website and marketing materials
12.2017 – 01.2018	Pre-ITO period
12.2017 – 03.2018	Patent registration, certification of products, start of a commercial lot production
01.2018 – 03.2018	ITO period
04.2018	NODE token introduction to the trading exchanged
03.2018 – 06.2018	Launching the production of Alpha
05.2018 – 10.2018	Launching the production of Eon
07.2018 – 05.2019	Launching the production of Wireless Power Station

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 - the company-developer of wearable devices. 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 campaings 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.
More than 10 years in financial consulting, winner of "100 best products of Russia", "Financial Russia 2007", "Financial Russia 2008".
Business Angel, 15 startups in the 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)

Vadim Kotov

Marketing expert

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 has been leading a created group of companies, specializing in marketing and Internet promotion of clients' businesses

Ekaterina Naimushina

Community Manager

Successful management of startup projects for 4 years. Bachelor degree in Digital Marketing and Finances. Fluency in 3 languages: Spanish, English and Russian. Specialization in cryptocurrencies and Blockchain fields. Communicative, creative and innovative

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, Kazakhstan. Works in close cooperation with diverse and multinational 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

INVESTMENT OPPORTUNITY

The NODE token gives 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 the 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 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:

$$\frac{\text{The cost of production in \$}}{\text{Current NODE token price at the exchange}} - 25\%$$

In this case, the actual cost of Alpha when paying with NODE tokens will be 74.25 USD instead of 99.0 USD.

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 $1000 is spent on the Pre-ITO and 1500 NODE tokens are received, the following 2 scenarios are possible:

A. Exchange tokens for Node products with a 25% discount and purchase Alpha or Eon for $2000 at the market value. In this case, your beneft 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, 1500 NODE tokens can be sold for $3000, therefore a 200% profit is received from the $1000 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 is 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

Pre-ITO

Start: 07.12.2017 12:00 UTC+2

End: 07.01.2018

Token price: 1 USD

Minimal contribution: 10 USD in equivalent

Total amount of tokens: 0.75 million pcs.

Participants receive 50% bonus
(additional 0,5 of token per each one bought)

ITO

Start: 15.02.2018 12:00 UTC+2

End: 15.04.2018

Token price: 1 USD

Minimal contribution: 10 USD in equivalent

Early participants receive bonuses:

1-10 days	30%
11-20 days	20%
21-30 days	15%
31-40 days	10%

Token Name: NODE

Accepted currencies: BTC, ETH

Soft cap: $ 1 million

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

Technical implementation of token and ITO procedure

Failure to achieve the minimum financial target amount of USD 1.0 million (SoftCap) as a result of the ITO will trigger the refund process.
Crowdfunding Manager (hereinafter – CFM) will send the donated amounts back to addresses of donators who had participated in the crowdfunding 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 Etherium 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 case of 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.

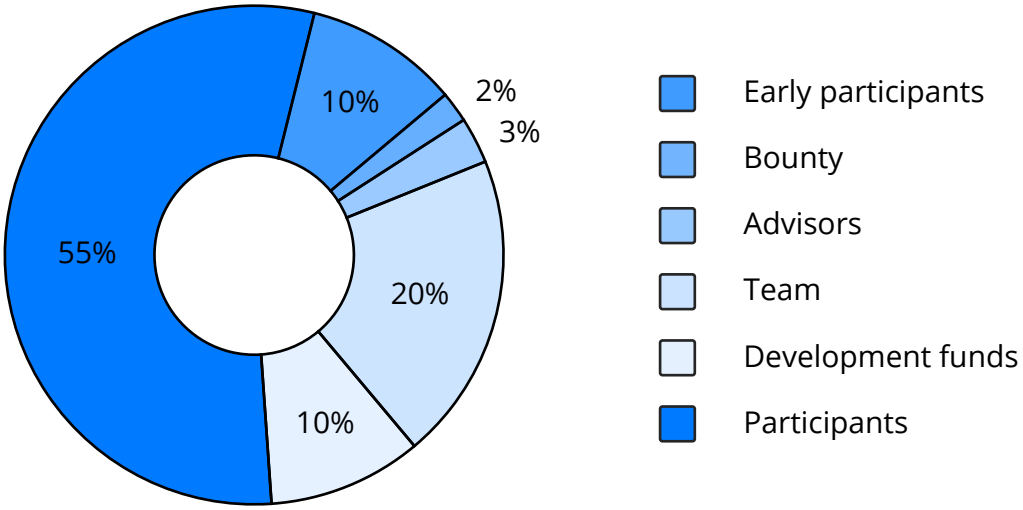
All unsold and unallocated tokens are burned.

Bounty program

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

35%	10%	15%	15%	10%	5%	10%
Social Media campaign (20% - Twitter, 10% - Facebook, 5% -	Translation campaign	Blog and YouTube campaign	Signature campain	Telegram campaign	Reddit campaign	Miscellaneous

Distribution of tokens (%)



Distribution of collected funds

Pre-ITO (0,5 mln $):

- ✓ Application for trademarks in Europe and the USA
  December 2017 – January 2018
- ✓ Request for the patents in Europe and the USA (technology)
  January 2018 – February 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 – March 2018

ITO (2,5-10 mln $):

- ✓ Testing and obtaining a certification for Alpha in Europe and the USA
  January 2018 – March 2018
- ✓ Production of the trial consignment of Alpha
  March 2018 - May 2018
- ✓ 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 the 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 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 Alpha and Eon	15			15
Certification of Alpha and 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 commercial batch Alpha	3750	4875	5850	14475
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
Alpha implementation	4875	6337,5	7605	18817,5
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**

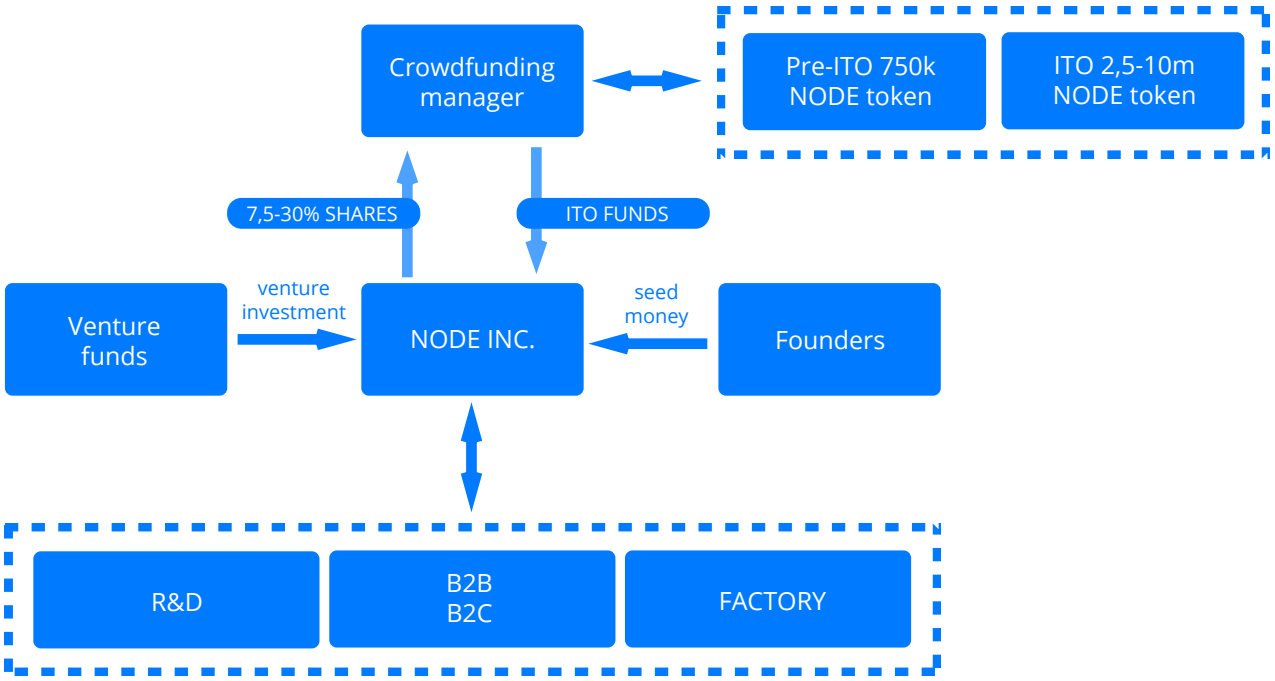
The amount of preparatory costs for 2017 is included in 2018. The forecast includes an annual increase in administrative costs, labor costs, marketing and promotion by 15%.

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.



RISKS DISCLAIMER

The present document is for information only and is not an offer or appeal for 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.

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 problems. Some of the 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 world standard.

In the process of developing new technologies for wireless energy transmission systems, there is also a 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 is 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 in any case very attractive, in particular with regard to its positive prospects for growth now and in the future.

Risks associated with 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 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 marketing results achievement. 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 person acquires NODE tokens, his actions will be regarded as illegal, unauthorized and fraudulent, which will have negative consequences.