



Y O T T A  
L a b o r a t o r i e s

# White Paper

Version 1.4

## Blockchain Edge Technology

*“The best way to predict your future is to create it, and our aim is to create tomorrow’s technology TODAY.”*

Gary Spence  
CEO Yotta Laboratories

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# 1.0 Abstract

Thank you for taking the time to read the YEdge Token Whitepaper. This paper is the result of collaboration between of professors, PhD data scientists, engineers, developers, visionaries and business advisors from the world over.

Yotta Laboratories is a technology company which specialises in Distributed Ledger Technology (DLT)- commonly known as Blockchain, Artificial Intelligence (AI), Machine Learning (ML), the Internet of Things (IoT), Smart Contracts (SC) and Smart Cities.

This whitepaper sets out how we can use our technology on a global scale for the benefit of all industry and sectors and how we will initially concentrate on developing the existing six years of research into marketable products, with specific emphasis on the six **Covid-19** projects we are currently in the process of finalising.

Today's society is hampered by legacy systems and a fearful mindset of change. This leads to 'more of the same' with no real thought process given to how more leaner, greener and efficient systems can provide significant benefits to future-proof the next generation of technology.

Yotta Laboratories solution is two-fold:

Firstly through the YEdge Token which will be a utility token used to transfer value among YEdge Network participants and can be used as the sole currency within the Yotta Network eco-system.

Secondly through the research and development we have undertaken in new emerging technologies of Web 3.0 The research now provides the opportunity to take our R&D to market through our platform and the products and services we have developed.

The Global opportunity is immense. We have an extensive network of Government authorities through the work we have been doing with the UK Department of Industry and Trade and the Ambassador/High Commission network.

Yotta Laboratories are well placed to take advantage of the opportunities now available in a global marketplace which is now starting to realise the benefits of how technology can not only improve lives, but also have a positive impact on the environment.

## 2.0 Letter from the CEO

Dear Reader,

Thank you for taking the time to research Yotta Laboratories and read our Whitepaper. This has been a culmination of hard work and dedication from all of the team here at Yotta Laboratories and we would like to proudly share our vision with you all.

Many years ago, I had a vision and a passion to develop new emerging technologies, I have worked long hours whilst managing expectations and multitasking in order to satisfy tight deadlines. Despite such experiences, nothing had prepared me for the challenge of growing Yotta Laboratories from the ground up. I could not have done this without the support of my team and my family. Working side by side, we have selected the finest individuals to join our team to become, what we now know as Yotta Laboratories.

Our team is a unique one: a perfect blend of professors, PhD data scientists, engineers, developers and visionaries from the world over. We have many different nationalities representing us, each bringing with them their own personal views and experiences from their respective countries.

The Yotta Laboratories team have the drive and commitment to improve healthcare for those who need it most - the patients.

**Our mission is to develop a world leading development company who specialises in new emerging technologies.**

The world is changing at a rapid pace and technology is leading the way forward. The Covid-19 pandemic has shown us just how fragile our daily lives have become, the work life balances have been re-addressed and once the pandemic is over, people will be using more and more technology in both their homes and offices. Global communication via online platforms will increase and travelling to meetings will be limited to essential requirements. Security is the key to online platforms and we design all our systems with security as the base, not as an addition.

It has been an amazing journey so far, and we are fortunate to have such strong support from the community who have helped to drive us onwards in developing this platform. We are only at the beginning and I truly believe the most exciting times lie ahead. Please continue to follow and support us here at Yotta Laboratories, so that we can truly make a difference to everyone's lives.

Best wishes,

Gary Spence  
Yotta Laboratories CEO and Founder

# 3.0 Executive summary

Yotta Laboratories is a technology company which specialises in Distributed Ledger Technology (DLT)- commonly known as Blockchain, Artificial Intelligence (AI), Machine Learning (ML), the Internet of Things (IoT), Smart Contracts (SC) and Smart Cities.

Most people know the technology Yotta has developed as blockchain. We were involved in leading the research on blockchain long before it became a buzz word. Distributed Ledger Technology to us is the future. We have written hundreds of thousands of words on the subject, spent countless hours debating and researching with university professors on its usefulness.

Yotta Laboratories is a multi-vertical company which has made significant developments over the last 12 months to allow us to focus on the opportunity to cover all aspects of company offerings which we can now clearly define across 3 Divisions;

## 1. Platform

## 2. Products

## 3. Services

A comprehensive, and fully costed business plan has been put together with the ten-year forecast projecting an overall revenue at just over \$2.2Bn with a profit of \$1.2Bn. In summary the plan will see the company expand its operations in the UK, Singapore and India, and establish offices in Japan, Australia, UAE and Canada. At the outset our data scientists will concentrate on developing the existing six years of research into marketable products, with specific emphasis on the six **Covid-19\*** projects we are currently in the process of finalising, and importantly, the development of the Yotta Token Ecosystem.

### \* Important Update – April 2020

The current Covid-19 pandemic has provided the opportunity for the company to bring elements of our healthcare R&D forward to help in the fight against the disease.

- We are currently using our bespoke semantic annotation software to examine thousands of x-rays provided by the World Health Organisation to aid early detection of symptoms;
- In conjunction with our partners in Japan we are trialing a remote detector of temperate, heart rate and blood pressure to provide early warning/detection of possible infection;
- A Thermal imaging version is also under development;
- The collation of Digital medical records on a DLT system to allow easy retrieval;
- The collation of pharmaceutical data records;
- Statistical data analysis using semantic annotation to identify trends and solutions.

Never before, in light of the current Covid-19 pandemic, has a Token launch been so right and we believe this will provide the opportunity to quickly raise the necessary finance, not only to put our plans into operation, but to fund our Covid-19 research.

We are issuing 1Bn tokens, to be known as **YEdge Tokens** which will be initially distributed at a rate of 1 token to \$0.30 USD at the equivalent in ETH and/or BTC. These will be offered to the public in a crowd selling process commonly known as an “IEO” or “Initial Exchange Offering.” The **YEdge Tokens** will be used as a utility token on the Yotta Network Eco-system.

The contribution period will follow our pre-sale and begin on August 1st 2020. More details on the IEO can be found on page 20.

# 4.0 Introduction

Yotta Laboratories have developed a technological ecosystem which is set to revolutionise the way corporations, businesses and individuals operate.

The company will operate through 3 divisions:

1. Platform Division (including the Yotta Token Ecosystem)
2. Products Division
3. Services Division

Utilising Distributed Ledger Technology (of which blockchain is one variant) and incorporating smart contracts and an unprecedented level of encrypted security, the Yotta Platform ecosystem provides the opportunity to develop tomorrows technology, today.

Branded the Yotta Cube (Yotta<sup>3</sup>), the ecosystem facilitates decentralized storage and enables data to be stored in a safe and secure manner. The OS uses sharding and encryption, but what is truly revolutionary is how Yotta<sup>3</sup> can scale rapidly and replace the traditional data centre model. It is the intention to utilize the Cube ecosystem with the Yotta Token (YEdge) as a utility. See Edge Token Economy section.

The R&D undertaken over the last 6+ years has identified more than 150 use cases of the technology. These can be developed into stand-alone products or combined to provide bespoke systems for clients.

The stand-alone products will be part of the Products Division and bespoke systems through the Services Division. Clients using our service for bespoke systems will have the option of hosting on their own network or the application being hosted on the Cube which provides for an extra level of encryption and data sharding with the data being distributed across the Cube network.

The YEdge Token will provide the opportunity to formalise our UK base which will oversee all research & development, and to establish development centres both in Singapore and India. Having a centre in Singapore is a pre-requisite to secure contracts with the companies we have already had intensive discussions with during our UK Department of International Trade missions. The India centre has always been in our plans due to the quality of the top end engineers, and the cost effectiveness of engaging people in the country. It is of particular importance to know that a proportion of the income and profits generated will always be directed into the Yotta research laboratories across the globe to ensure the company remains at the forefront of this cutting-edge technology.

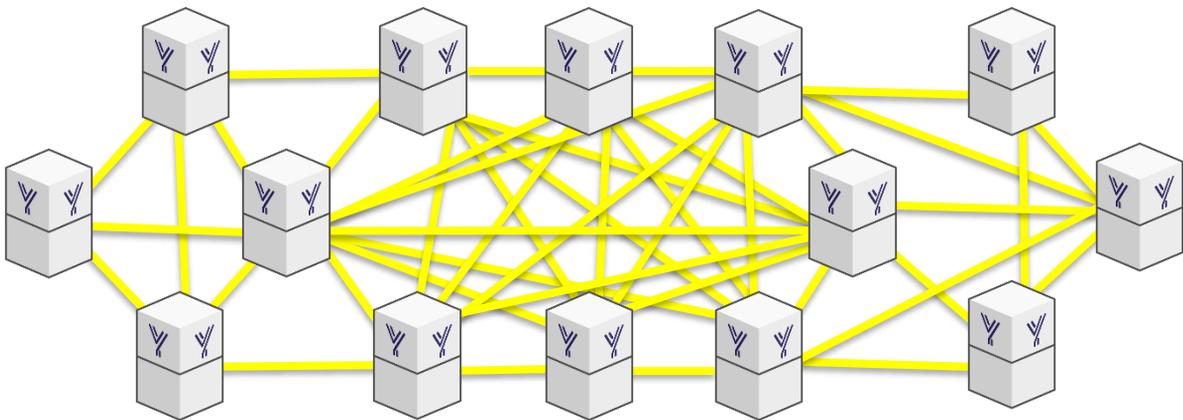
# 5.0 Company Divisions

## 5.1 Platform Division

The Platform Division is essentially the Yotta Cube.

The Yotta<sup>3</sup> ecosystem facilitates decentralized storage. Clients will have files in multiple locations and multiple copies unlike Dropbox, AWS, One Drive, Google Drive and iCloud whose cloud-based data storage systems use large data centres to store all the data. These are expensive to build, and especially to maintain, due to the cost of the air conditioning systems required to reduce the heat from the data servers. The data is also stored in single document format which means data is at risk if the systems are hacked.

The Yotta<sup>3</sup> solution addresses all these issues. A network of Yotta<sup>3</sup> are placed in secure locations and are all inter-connected.



As a collective network, the data storage capacity exceeds those of existing data centres and if we need more storage capacity, we just add more Yotta<sup>3</sup> to the network. Compared to traditional data centres, the build costs are significantly reduced, and the maintenance costs are virtually non-existent as there is no requirement for expensive air conditioning systems. Very important aspects to know about the **Cube network** are **energy efficient and have environmentally friendly capabilities** and will have a significant impact on addressing the global concerns on climate change. **75% less OPEX for application management, 50% less operational costs, 80% more space efficient, up to 89% more energy efficient.**

Cube networks can be sold to individual companies to host their existing and future data, to host Yotta bespoke applications and to host Yotta products.

Yotta<sup>3</sup> has the potential to become the world's largest decentralized data storage system with high speed connectivity and the ability to scale immediately in a cost-effective way with data secured using the highest encryption currently available, meeting tomorrows standards TODAY.

# 5.0 Company Divisions

## 5.1 Platform Division

### 5.1.1 YEdge Token Economy

#### **The YEdge Token**

The Yotta Laboratories Network will issue its own token, called a “YEdge Token”, as a medium of exchange (payment) for its participants. A YEdge Token will be a utility token of which can be used to transfer value among YEdge Network participants. The token will be compliant with the ERC20 token standards.

#### The YEdge Token Platform

The YEdge Token is a platform to support Yotta products and services created by us, or one of our affiliates, which will manage, control, distribute and regulate the amount of cryptographic assets such as tokens which are available for circulation in the system. The YEdge Token will allow for the following transactions to occur (which does not comprise an exhaustive list):

Purchasers will be able to exchange YEdge Token in exchange for a specific type of storage services in return; The YEdge Token platform will also be able to receive tokens from Purchasers and issue the Purchaser with YEdge Tokens up to a certain amount of tokens, as determined by the YEdge Token platform by a way of a valuation scale (which valuation scale the YEdge Token platform shall vary from time to time in its sole discretion); and the YEdge Token platform will be supported by a blockchain protocol and will therefore be open to online audits, reviews and compliance checks from the integrated Yotta3 community from time to time.

The YEdge Token platform is still in its conceptual phase and will be subject to further development, updates and structural changes after the finalisation of the IEO and the completion of the YEdge Token platform. Businesses with a demand for edge cloud content delivery services will primarily be the buyers of YEdge Token. Initially, a single YEdge Token will represent 5 GB of data transfer, wherein owners of DApps or applications will use it to exercise content delivery services. The exchange rate between a YEdge Token and the amount of data transferred is to be pegged only during the Initial Exchange Offering (IEO). In order to facilitate forecasting of expenditures for our customers, in the future YEdge services (data transfer pricing) will also be denominated in fiat currency. Customers will know exactly how much they're paying in fiat at all times, even as the USD/YEdge exchange rate fluctuates.

#### YEdge tokens are used for:

Value transfer from customers to node, YEdge is the sole currency within the system that is being transferred from its customers (content hosting applications) onto its nodes that deliver that content for them. Network governance, Monetary incentives will help ensure that network's participants are inclined to act in the most beneficial way to the network.

YEdge token features:

# 5.0 Company Divisions

## 5.1.1 YEdge Token Economy

### Natural scarcity

The available YEdge Token supply will decrease as demand for YEdge services increase. In order to employ the YEdge Node network, customers will have to purchase a certain amount of YEdge Tokens (expressed in fiat denomination). For example, say they purchase enough YEdge Tokens to last a month. The YEdge Tokens will now be held in their personal YEdge Wallet, pending disbursement; these tokens will now be excluded from the remaining total available supply.

### Delay in payments

As every transfer of value on a blockchain is associated with a transaction fee, a certain time delay between distributing awards, during which time awards can accumulate and hence be ultimately transferred to Nodes with lower transaction costs, will be instated. Since Nodes will be providing a continuous service, they will be technically earning rewards continuously as well. But issuing payment continuously would incur unnecessary transaction fees. Therefore, to minimize transaction fees while maximizing net Node payout rewards, we will be implementing modest delays in issuing rewards in order to decrease transaction costs while increasing net Node payout.

### YEdge Wallet Account

Since YEdge Tokens are ERC20 compatible, an Ethereum Wallet address is fully suitable to act as a YEdge account, and therefore sufficient to launch a CSL Worker Node. Every CSL Worker Node Client will carry an implementation for an YEdge Wallet, and be capable of receiving YEdge Tokens (transferred between accounts or as rewards for participating in the YEdge Network); creating your unique address (account); and usual Ethereum Wallet features; such as transferring tokens between addresses; and backup/recovery of the wallet.

Since an Ethereum address will be constituting the basis of a YEdge account, all accounts will be automatically transparent and anonymous. Furthermore, YEdge will feature an additional proprietary application layer for people to create a cloud-based account; add their YEdge accounts to it; and have additional features such as monitoring or email alerts, much as typical cryptocurrency mining pools.

### Buyers

### Customers

The main buyers of YEdge Token will be businesses that have a demand for content delivery services, and YEdge Token will be the only method available with which to transact within the ecosystem. However, a smart payment gateway will be implemented to allow any user to purchase YEdge services using a fiat currency of their choice, such as US dollars or Euros. Through the payment gateway, YEdge Tokens will be bought and sold through the “back-end” only, making the whole process simple, invisible and user-friendly.

# 5.0 Company Divisions

## 5.1.1 YEdge Token Economy

### Sellers

### Nodes

Nodes will be comprised of Yotta Cubes (which had been a net cost to their owners), and dedicated network endpoints expressly purchased for the purpose of earning YEdge Tokens. While some Node operators may choose to hold YEdge Tokens, on average, it can be assumed, Node operators will be net sellers of YEdge Tokens in the market.

### Node Reward System

### Exchange / Payment gateway

In order to participate, a Node allocates its resources to the network while the CSL protocol utilizes those resources in the most optimal way. In return, YEdge Tokens will be awarded, based predominantly on the following variables: Storage utilization - amount of HDD/SSD devoted to store content traveling through YEdge's network. The main buyers of YEdge Token will be businesses that have a demand for content delivery services, and YEdge Token will be the only method available with which to transact within the ecosystem. However, a smart payment gateway will be implemented to allow any user to purchase YEdge services using a fiat currency of their choice, such as US dollars or Euros. Through the payment gateway, YEdge Tokens will be bought and sold through the "back-end" only, making the whole process simple, invisible and user-friendly.

Nodes will be comprised of either previously idle Y<sup>3</sup> (which had been a net cost to their owners), and dedicated network endpoints expressly purchased for the purpose of earning YEdge Tokens. Free market forces alone will determine the exact earnings of each Node, however it is difficult to estimate any amounts at this current time. While some Node operators may choose to hold YEdge Tokens, on average, it can be assumed, Node operators will be net sellers of YEdge Tokens in the market.

# 5.0 Company Divisions

## 5.2 Products Division

The Products Division is defined in two areas:

- a. Yotta Products through our own R&D Centres;
- b. White Label Products with the Yotta brand.

Yotta Products are developed through our own R&D Centres. These are stand-alone products we can promote and develop through the current 150+ use cases of our technology. The priority of the developers we engage at our R&D centres in the UK, India and Singapore will be to finalise the R&D and create marketable products.

### **Current Situation**

The first two, for which Patents have already been received, are:

#### **Reverse Malware**

The software offers unparalleled security against self-propagating malware agents in cloud-based networks. A key advantage compared to existing software security is its ability to actively search for vulnerabilities in a system in the same way that malware does, enabling it to block these gaps in security before they can be exploited by malware. Its ability to operate in a semi-autonomous fashion reduces the operational resources required. The distribution of agents across multiple layers of the cloud environment allows collaboration between the agents, forming an expansive, redundant, robust and distributed system suited to surviving the elasticity of the cloud environment.

In simple terms, the Reverse Malware system will auto-repel any hacking attempts on a data network and, through artificial intelligence, will ensure future hacking attempts will not be successful.

In addition to offering data security to a client's existing data network, the system will also be deployed across all Yotta Cube networks.

#### **Semantic Annotation**

The Web has transited from a static to a social one and a semantic web is emerging; one in which web documents are annotated with descriptive data (i.e. metadata) in such a way that machines can understand and process these documents rather than just presenting them without any context. With the metadata annotation to web documents, they become web data and machines can then provide context; such as differentiating between 'Jaguar' as an automobile and 'Jaguar' as an animal. While there have been several efforts both in academia and industry towards a global semantic web, Yotta data scientists have researched and tested a system that can be coded and deployed across the billions of web pages as a service meaning AI web searches are possible.

# 5.0 Company Divisions

## 5.2 Products Division

### White Label Products

Whilst Yotta is at the forefront of the technology we have developed, we aim to recognise the developments of engineers and organisations and work on a collaborative basis by white labeling products they have developed under licence and the Yotta brand.

For example, a licence is currently being finalized to provide an IoT gas detection system under the Yotta brand. The system has already been approved by a Middle Eastern Fire Authority and the system can be used as a stand-alone device, or attached to a drone, for example to fly into a burning building to detect potential gas leaks before firefighters enter.

Other uses could be, for example, in high rise apartments where gas bottles are used for cooking or heating.

An agreement has been reached with an ASEAN Governments R&D centre which, by law, is unable to market its products directly but can licence to third parties. The agreement provides Yotta with a first refusal option on their products.

# 5.0 Company Divisions

## 5.3 Services Division

The Services Division will provide bespoke software/systems solutions to clients.

The fact that each system is bespoke makes it difficult to generally estimate costs and income. A simple basic system could cost as little as \$250,000 up to many millions depending upon the complexity of the project.

There are two financial models. The first is a client with the ability to fund a project, the project then becomes theirs. However, experience shows through discussions we have had with potential clients that, in the main, they do not have the necessary budgets. This leads onto the second financial model which is to fund projects ourselves directly. From a business perspective this is more lucrative as the project ownership is retained by ourselves. We can then licence the project to the client which will generate more income than just selling to them. In addition, with Yotta owning the IP, we can very quickly replicate the system for other clients in similar industries at minimal cost.

To put some perspective on the opportunity the Services Division provides, we reference two opportunities which show the potential scale of this opportunity.

An agreement is in the final stages to provide a bespoke solution for a private medical company in Australia which is currently losing \$3Bn per annum due to fraudulent claims.

Initial estimates identify a cost of approximately \$2m to build the system on a licence basis. The company currently has 3.7m customers so charging a nominal licence fee of \$0.50 per customer per month would generate \$22m income per annum.

An agreement is in the final stages to provide a bespoke solution for a Provincial Government in the ASEAN region for the collection and distribution of Zakat.

Initial estimates identify a cost of approximately \$2.5m to build the system on a licence basis. This zakat network currently services 5m customers so charging a nominal licence fee of \$0.50 per customer per month would generate \$30m income per annum.

## 6.0 USP

Yotta's competitive ability is defined in the following areas:

- There is no need for a Hyperscale Data Centre due to its small footprint, delivering same capacity to the market. Reduces cost of capital expenditure and operational cost;
- Low energy requirement and the ability to use renewable energy sources. Y<sup>3</sup>'s deployment is therefore not dependent of grid connectivity;
- Able to offer Cloud computing at significantly reduced pricing compared to the competitor due to the efficiency;
- Offer infrastructure as a service on a pay as you use basis. No capital expenditure compared to other OEM providers;
- The deployment of the Y<sup>3</sup> can be scalable, avoiding the large initial capital outlay of the hyper scale cloud.

Yotta has introduced significant innovation in the manner of constructing the cloud-computing stack. This however does not change the sellable product encased in the concept of Infrastructure as a Service. The packaging of the solution offering as "IT as Energy" does align with major trends in the market and the company has been able to obtain letters of interest to underscore the potential demand and to launch the first phase of the deployment.

Yotta has taken the approach of providing the infrastructure instead of supply hardware to the industry. This has created an opportunity to sell capacity to existing cloud service providers instead of competing.

The innovation to making the cloud-computing stack is proprietary to Yotta as they have moved to a software-based platform. This makes Yotta one of the leading firms in this space and will give the benefit of a first entrant as well as create a platform for improvement, always staying ahead of competition.

# 7.0 Structure

The Yotta Laboratories Head Office and main R&D centre will be in the UK.

A company has already been established in Singapore to take advantage of the opportunities presented through a number of trade missions facilitated through the UK Government's Department for International Trade.

India has always been seen as an important location. We have many high-profile contacts and some of the best engineers and developers come through their education system. It is the intention for both Singapore and India to be subsidiaries of the UK company and all three locations to host R&D centres. Each location will serve as the hub for business development/marketing activities.

Connections have also been developed in other parts of the World and establishing a presence in strategic locations will provide the opportunity to develop these connections and the business opportunities currently identified.



- **Dubai/Abu Dhabi/Doha** – MENA region (The complexity of the region may require more than one centre but for the purposes of this business plan we assume one)
- **Tokyo** – Far Eastern region
- **Melbourne** – Australasia region
- **Toronto** – Canada/ North America region

# 8.0 Location Opportunities

## Singapore/ASEAN

- Agreement with Singapore Govt to be infrastructure provider for the Trusted Data Vault (TDV) project and to operate the UK/European arm
- MoU signed with NCS in Singapore, a division of Singtel who want to collaborate on projects
- A provincial government in the ASEAN region looking to engage our services to develop a financial solution for the collection of zakat
- An agreement with an ASEAN country government R&D facility to white label their products

## India

- Establishment of Rural Innovation Centre
- Establishment of Research Centre
- Establishment of Medical and new emerging technology centre
- Sustainable Smart cities partnerships

## UAE

- A collaboration with a Middle Eastern university to establish a global virtual R&D laboratory for Vertical Farming
- Court System - Automation of e-Notary System Part of country Blockchain Strategy
- Middle Eastern university - Setting Up Centre of Blockchain Excellence in partnership with the university
- Medical research and development

## Australasia

- A private medical company looking to engage our services to develop a system to eliminate fraud
- Sustainable Smart cities partnerships

## Japan

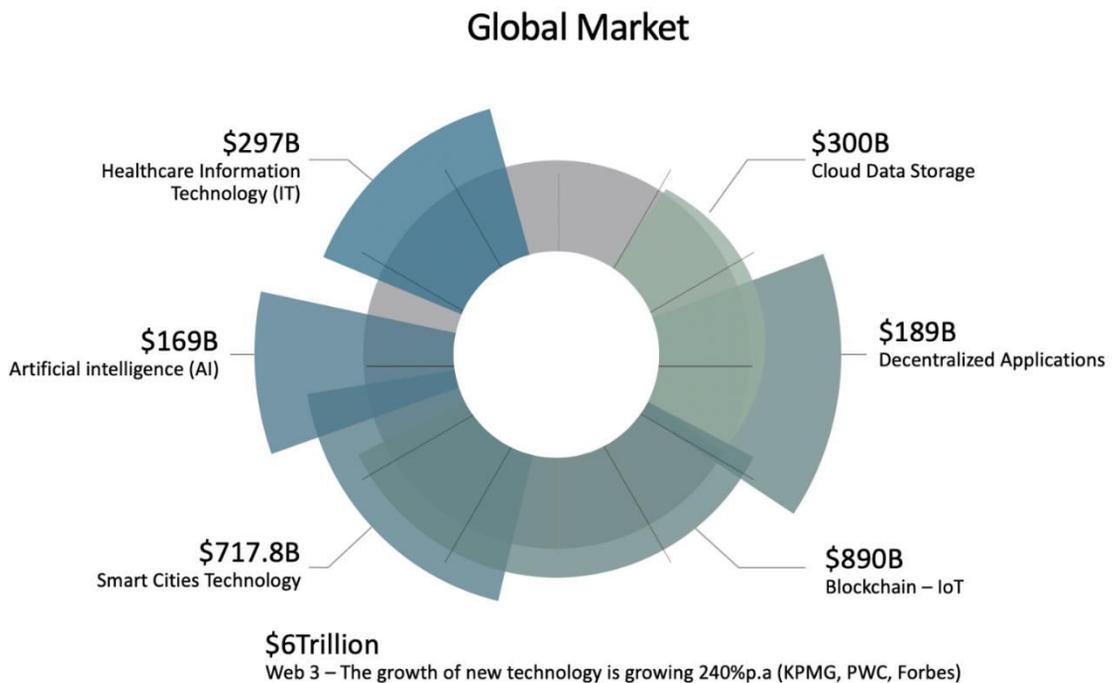
- An agreement with an Asian Government to develop a Yotta Cube platform system to connect their foreign embassy's
- We are currently in talks with a company who want to use the Cube network to store all their research data for the Corona Virus solution
- Sustainable Smart cities partnerships

## Toronto

- Discussions in progress with the Maple Syrup Association to provide a proof of provenance solution to eliminate fake goods
- Sustainable Smart cities partnerships

## 9.0 Future Developments

The Global opportunity is immense. Once our locations become established we fully expect customers to come to us, especially Government authorities through the work and discussions we have been having with the UK DIT and the Ambassador/High Commission network. The vision is to expand on a global basis and establish business development/marketing offices in additional Countries. This expansion needs to be phased and the first phase of expansion would be in the main strategic locations, for example additional offices in India and in the ASEAN region.



Mark Zuckerberg, Jeff Bezos, Bill Gates and Steve Jobs all once started with a pitch to investors. This is our time to develop not just a company but a place in history and to build a global company on the same magnitude as Facebook, Amazon, Microsoft or Apple. The rapid growth of technology that's making people healthier and greener is now, and with AI and deep learning the cure for diseases and life changing medication is just an algorithm away.

# 10.0 Cost Impact Analysis

Cost impact analysis can be assessed in many ways. The following is a selection of the benefits of the technology Yotta have developed.

## 10.1 Healthcare Sector

10.1.1 Digital medical records could be stored on a blockchain accessible anywhere in the world. With the records being cryptographically secured, this offers the individual the utmost privacy and security.

10.1.2 Pharmaceutical - Proof of provenance through the blockchain system provides the opportunity track and trace the drugs which are manufactured thereby reducing or eliminating counterfeit products

10.1.3 Early detection of symptoms using Yotta semantic annotation software to examine thousands of x-rays efficiently

10.1.4 Statistical data analysis using Yotta semantic annotation to identify trends and solutions

## 10.2 Insurance Sector

10.2.1 The private insurance industry will benefit from the Yotta technology through elimination of fraudulent claims

10.2.2 Reduction in claim timescales through efficient autonomous processing

10.2.3 Use of telemetrics to encourage and reward safer road use

## 10.3 Data Storage/Security

This applies to all industries and sectors and allows data to be stored across a distributed network which **are energy efficient and have environmentally friendly capabilities** and will have a significant impact on addressing the global concerns on climate change. **75% less OPEX for application management, 50% less operational costs, 80% more space efficient, up to 89% more energy efficient.** In addition, the Patented Reverse Malware solution of Yotta provides almost impenetrable data file storage using Edge cloud technology.

This is just a snapshot of the potential cost analysis benefits of the systems Yotta are able to deploy. Other industries which can also benefit are, for example, Agritech, Smart Cities, Fintech, Education, Legal, Consumer and Humanitarian/charity, to name just a few.

# 11.0 Token Offering

Yotta Laboratories IEO will be a capped sale raising \$100 million (100,000,000) equivalent of ETH and/ or BTC with whitelisted contribution caps. Yotta Laboratories will be issuing 1Bn (1,000,000,000) ERC20 tokens, called YEdge Tokens to develop its researched products and expand its development on a global basis.

These tokens will be offered through the IEO in a Crowdsale to allow participants to purchase YEdge Tokens early as well as contribute and support the further development of Yotta Laboratories. Starting on 1st August 2020, participants will have the ability to contribute and receive YEdge Tokens in exchange for their ETH and/or BTC by sending Ether to a designated address.

During the IEO YEdge Tokens will be distributed at an exchange rate of 1 token = \$0.30 equivalent in ETH and offered before this date at a discount in a pre-sale.

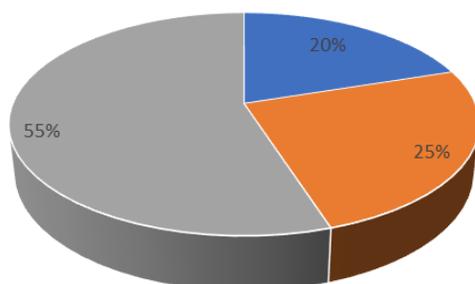
1Bn tokens issued

Of these 1Bn tokens...

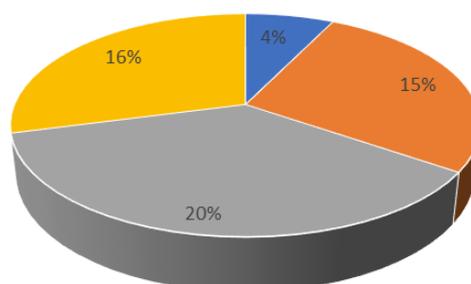
- 20% will be offered in the pre-sale
- 25% will be offered in the crowdsale
- 55% will be retained by the company, team, advisors, founders and future employees  
Within this 55%...

- 2% vests over 2 years
- 2% vests over 4 years
- Founders: 15%
- Team, advisors, early backers: 20%
- 16% will be retained by the company for community development. Yotta Laboratories will use these tokens to help grow an ecosystem on its blockchain through an education academy and to build a Foundation to unlock the possibility inside every individual. This will vest over 4 years.

Token Allocation



Token Allocation - Retained by Company



■ Pre-Sale ■ ICO ■ Retained by Company ■ Vestment ■ Founders ■ Team, advisors, early backers ■ Community Development

# 12.0 Timelines

## 12.1 Yotta Laboratories to date

### The Story So Far

Over six years ago the CEO of Yotta Labs, Gary Spence, started to solve a problem of data security and data provenance. After many years of designing systems for the supply chain industry Gary initially set out to design a system that allowed everyone in the supply chain a clear and transparent ledger system.

He called his first research 'field to fork'. This set out his first vision and, due to the research findings, he also established that many other processes could also benefit from a distributed ledger system. He researched the way data was stored and designed a whole new revolutionary system of which he calls Yotta Cube (named Yotta<sup>3</sup>).

Yotta<sup>3</sup> enables the data to be stored in a safe and secure manner using sharding and encryption, but what is truly revolutionary is how Yotta<sup>3</sup> can scale at a rapid rate due to the fact that a traditional data centre is not required.

Gary then continued to research and design another 150 use cases which each having the potential to make a life changing impact around the world.

Gary brought in the expertise of Prof. Elhadj Benkhelifa and the two data scientists have worked to develop and test his vision and have enhanced the products to what we have ready to develop today.

Many thousands of hours of research have been applied including high level of research from PhD. and Post Doctorate research and he is now opening the opportunity to take his vision to the wider market.

Yotta is a true ecosystem of which enables many applications to be applied with the added benefit of blockchain technology and smart contracts.

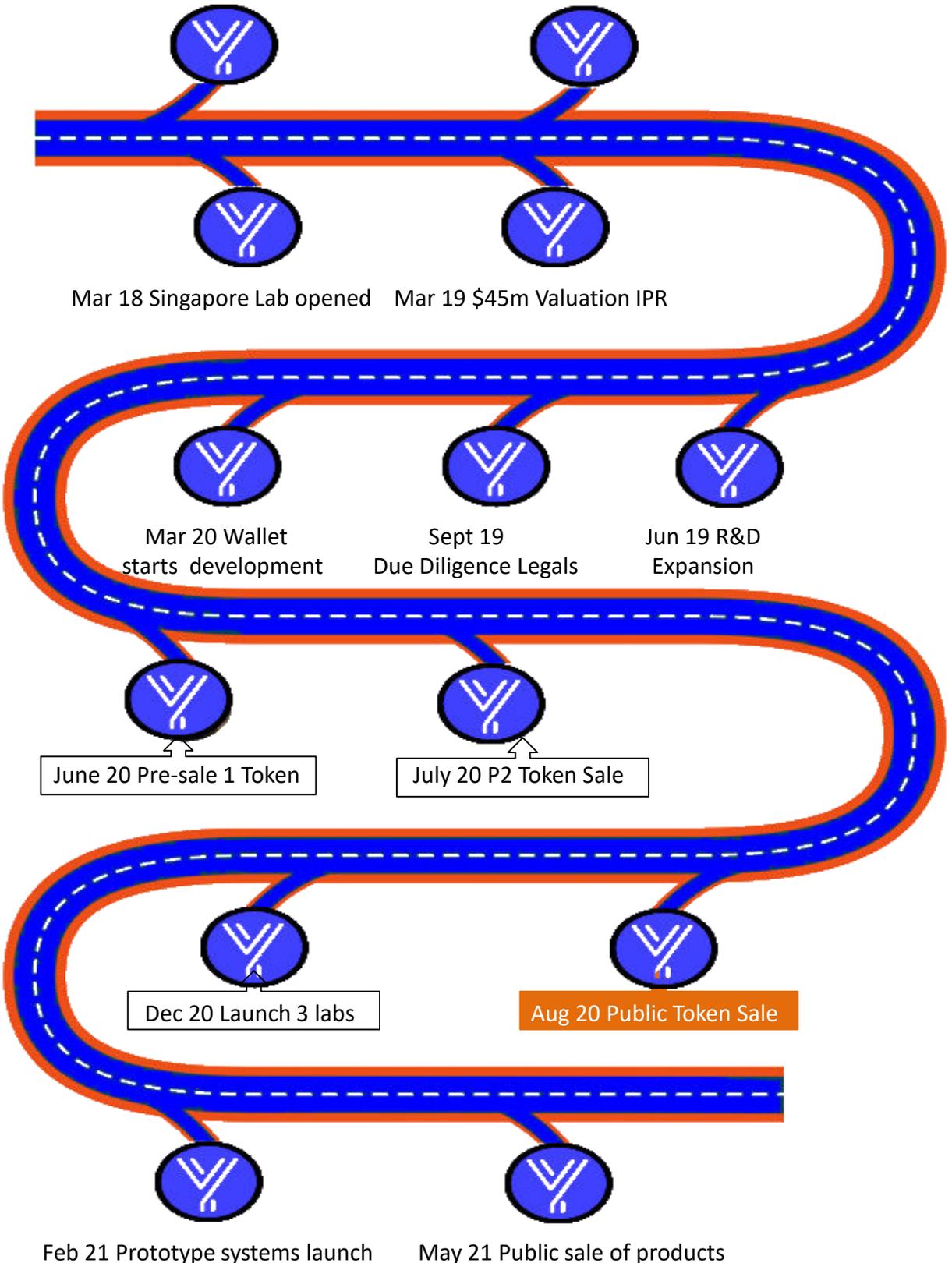
If you ask Gary to explain what blockchain he is will give you one simple explanation;  
*"A data storage system of which has no delete option, therefore it provides an incorruptible proof of provenance that has the potential to change the way everyone stores data electronically."*

# 12.0 Timelines

## 12.2 Roadmap

R&D Start \$2.5m investment

Aug 18 Investment process started



## 13.0 Route to market

In addition to the opportunities already referenced, Yotta has been promoting its services on a global basis through attending events in Malaysia, Singapore, Australia and Spain. These have been supported by UK DIT and CEO Gary Spence has been a keynote speaker at the Singapore and Spain events. This had led to significant interest in Yotta's services from Government organisations, global corporates and SME's. Therefore, we believe we will be in a position to have a number of 'quick wins' once the initial tranche of funding is secured.

The opportunities referenced have been achieved through the dedication of our location-based staff. The Token launch will allow us expand this network and support and the business then has the potential to grow rapidly.

We are aiming to grow exponentially, and we intend to:

- Directly address any pricing risk by offering a value service
- Offer a proactive compliant service, rather than a passive service
- Give truly compelling proposals to clients
- Be a game changer and leading light within the industry
- Using our simplified production processes, offer value services and better compliance for maximum customer impact
- Directly address the product by offering new products with exciting subjects and content alongside older type for mature markets, interactive compliance which are not available elsewhere
- We will continue to encourage self-expression and proactive content to add to the thousand already available, and will also earn profits by extending the services for those who need them but at lower than usual market costs
- Yotta<sup>3</sup> can be used as a platform operating system and therefore have Dapps (Blockchain applications) added to it and built into the ecosystem.

The Yotta Laboratories robust technology and low-cost base allows the company to efficiently produce scale. The marketing plan will combine traditional media channels and social media to reach the target audience. The traditional media channels will be used to develop awareness. The social media channels will be used to encourage interaction and develop viral and feedback loops. There will be national and international coverage, but more local sales. The local marketing will allow for a consolidated network of customers. Referrals will form a large part of the marketing scope.

## 14.0 Looking Forward

Yotta Laboratories has ambitious goals for the future.

We want to improve people's lives by building the digital infrastructure for the technology of the future.

We're looking for driven people or organizations to help us realize that vision. If you're interested in joining our please reach out to

[admin@yottatoken.io](mailto:admin@yottatoken.io)

## 15.0 YEdge Token Legal and Crowdsale

### 15.1 General Information

The YEdge Token does not have the legal qualification of a security, since it does not give any rights to dividends or interests. The sale of YEdge Tokens is final and non-refundable. YEdge Tokens are not shares and do not give any right to participate to the general meeting of Yotta Laboratories. YEdge Token cannot have a performance or a particular value outside the Yotta Laboratories network. YEdge Token shall therefore not be used or purchased for speculative or investment purposes. The purchaser of YEdge Token is aware that national securities laws, which ensure that investors are sold investments that include all the proper disclosures and are subject to regulatory scrutiny for the investors' protection, are not applicable.

Anyone purchasing YEdge Token expressly acknowledges and represents that she/he has carefully reviewed this whitepaper and fully understands the risks, costs and benefit associated with the purchase of YEdge Token.

### 15.2 General Knowledge

The purchaser of YEdge Token undertakes that she/he understands and has significant experience of cryptocurrencies, blockchain systems and services, and that she/he fully understands the risks associated with the crowdsale as well as the mechanism related to the use of cryptocurrencies (incl. storage).

Yotta Laboratories shall not be responsible for any loss of YEdge Token or situations making it impossible to access YEdge Tokens, which may result from any actions or omissions of the user or any person undertaking to acquire YEdge Tokens, as well as in case of hacker attacks.

### 15.3 Risks

Acquiring YEdge Token and storing them involves various risks, in particular the risk that Yotta Laboratories may not be able to launch its operations and develop its blockchain and provide the services promised. Therefore, and prior to acquiring YEdge Tokens, any user should carefully consider the risks, costs and benefits of acquiring YEdge Token in the context of the crowdsale and, if necessary, obtain any independent advice in this regard.

Any interested person who is not in the position to accept or to understand the risks associated with the activity (incl. the risks related to the non-development of the Yotta Laboratories platform) or any other risks as indicated in the Terms & Conditions of the crowdsale should not acquire YEdge Tokens.

### 15.4 Disclaimer

This whitepaper shall not and cannot be considered as an invitation to enter into an investment. It does not constitute or relate in any way nor should be considered as an offering of securities in any jurisdiction. The whitepaper does not include nor contain any information or indication that might be considered as a recommendation or that might be used to base any investment decision. This document does not constitute an offer or an invitation to sell shares, securities or rights belonging to Yotta Laboratories or any related or associated company.

# 15.0 YEdge Token Legal and Crowdsale

## 15.4 Disclaimer

Please be aware of the following specific risks relating to Cryptographic Tokens, Cryptocurrency and Blockchain-Based Software Systems and related Services:

### Expert knowledge required

Any purchase of YEdge Tokens made under the terms of the IEO should be undertaken by parties/entities which have significant experience with, and understanding of, the usage and intricacies of cryptographic tokens and currencies and Blockchain-based systems and services. General guidelines for usage and storage of YEdge Tokens will be available to the Purchaser before the platform and final Yotta digital wallet becomes operational, but Purchasers have the sole responsibility to ensure that they have a functional understanding of storage and transmission mechanisms associated with cryptographic currency and Tokens in order to ensure they understand the risks associated with the IEO. While we will ensure reasonable availability to assist Purchasers during, and after the IEO, we will not be responsible for any loss of, or inability to access tokens, Blockchain Wallets, Counterparty Compatible Wallets or any similar type of online/digital/virtual token or cryptocurrency, which may occur as a result of any type of actions taken by, or omitted or accidentally or incidentally made by the Purchaser.

### Extreme price and value volatility

By purchasing YEdge Token, you, as the Purchaser, expressly acknowledge and represent that you fully understand that YEdge Token may experience volatility in pricing and that you accept all the risks relating to such a purchase and the nature of the IEO. Further to this, you specifically acknowledge that you will not seek to hold us or any of its affiliated Parties liable for any losses or any special, incidental, or consequential damages arising from, or which are in any way connected or related to the price and value volatility of Yotta Assets in particular.

### Disclaimer of general and associated risks

The purchase of YEdge Token Assets, carries with it a number of risks. Therefore, prior to purchasing YEdge Token, you should carefully consider the risks and, to the extent necessary, obtain independent advice as to the risks associated with the IEO. If any of the risks as contemplated in these Terms are unacceptable to you, or if you do not understand the nature and extent of the risks associated with the IEO, you should not purchase YEdge Token. By purchasing YEdge Token Assets, and to the extent permitted by Applicable Law, you are agreeing not to hold us or any of its affiliated persons or entities liable for any losses or any special, incidental, or consequential damages arising from, or in any way connected, to the sale of YEdge Token Assets. By purchasing any YEdge Token Assets you expressly acknowledge and represent that you have carefully reviewed these Terms and the Sale Agreement and fully understand the risks, costs and benefits of purchasing cryptographic assets in the manner as contemplated in these Terms and the Sale Agreement.

Neither these Terms nor the Sale Agreement should be regarded as an invitation for further investment and does not construe, relate or pertain in any way or should be regarded to be an offering of securities in any jurisdiction.

## 15.0 YEdge Token Legal and Crowdsale

The purchasing of and trading in any YEdge Token Asset shall not afford any Purchaser with the right to exercise any influence over the governance of Yotta<sup>3</sup> or any aspect of the business.

Despite the use of the word "Coin" when referring to the YEdge Token sold to Purchasers and traded within the Yotta system, no YEdge Token Assets should be regarded as fiat money, or have implied fiat values.

Considering the nature of the YEdge Token Assets, and specifically the token, as bona fide cryptographic assets (rather than securities, financial instruments, foreign currency denominated investment instruments or any other type of Financial instrument) neither the YEdge Token nor any platform associated with it should be regarded as a securities or currency exchange;

The IEO should not be regarded as an invitation to the public to acquire securities in Yotta<sup>3</sup> or any other entity; and unless explicitly determined otherwise, neither Yotta<sup>3</sup> nor any of its affiliates should be regarded as a provider of foreign exchange services, Intermediary Services, Financial Services or Financial Products;

Accordingly, Yotta<sup>3</sup> is not regarded or registered as a Financial Services Provider as defined by the Financial Conduct Authority in the United Kingdom.

Cryptocurrencies have been the subject of regulatory scrutiny by various regulatory bodies within different jurisdictions. Notwithstanding, Yotta<sup>3</sup>, its business practices in general, and various aspects of the business could be impacted by one or more future regulatory inquiries or regulatory actions, which could impede or limit the ability of to continue to develop Yotta<sup>3</sup> using Blockchain and cryptocurrency technology.

These Terms, our business model in general and all aspects of the Yotta<sup>3</sup> may be subject to change depending on regulatory and compliance requirements of applicable law from time to time, in which event Yotta<sup>3</sup> shall not be held liable for any loss or damages (whether direct or consequential) caused by such changes. In this regard, and to the fullest extent possible, the Purchaser acknowledges and understands the effect, namely that neither Yotta<sup>3</sup> nor any of its affiliates accept any liability for any loss or damages caused by such occurrence.

## 15.0 YEdge Token Legal and Crowdsale

Yotta Laboratories is not to be considered as an advisor in any legal, tax or financial matters. Any information in the whitepaper is given for general information purpose only and Yotta Laboratories does not provide with any warranty as to the accuracy and completeness of this information. Given the lack of crypto-token qualifications in most countries, each buyer is strongly advised to carry out a legal and tax analysis concerning the purchase and ownership of Yotta Tokens according to their nationality and place of residence.

Yotta Laboratories today is not a financial intermediary according to UK Law and is not required to obtain any authorization for Anti-Money Laundering purpose. This qualification may change in which case Yotta Laboratories will offer services which are to be considered as qualifying a financial intermediation activity. In this case, the use of Yotta Laboratories services may require the positive conclusion of an AML/KYC identification process.

YEdge Tokens confer no direct or indirect right to Yotta Laboratories capital or income, nor does it confer any governance right within Yotta Laboratories; a YEdge Token is not proof of ownership or a right of control over Yotta Laboratories and does not grant the controlling individual any asset or share in Yotta Laboratories, or in the Yotta Laboratories network. A YEdge Token does not grant any right to participate in control over Yotta Laboratories management or decision-making set-up, or over the Yotta Laboratories network and governance to the purchasers.

Regulatory authorities are carefully scrutinizing businesses and operations associated with cryptocurrencies in the world. In that respect, regulatory measures, investigations or actions may impact Yotta Laboratories business and even limit or prevent it from developing its operations in the future. Any person undertaking to acquire YEdge Token must be aware of the Yotta Laboratories business model, the whitepaper or Terms & Conditions may change or need to be modified because of new regulatory and compliance requirements from any applicable laws in any jurisdictions.

In such a case, purchasers and anyone undertaking to acquire YEdge Token acknowledge and understand that neither Yotta Laboratories nor any of its affiliates shall be held liable for any direct or indirect loss or damage caused by such changes.

## 15.0 YEdge Token Legal and Crowdsale

Yotta Laboratories will do its utmost to launch its operations and develop the Yotta Laboratories brand, products and services. Anyone undertaking to acquire YEdge Token acknowledges and understands that Yotta Laboratories does not provide any guarantee that it will manage to achieve it. On concluding the Commercial Operation, these tokens will be issued by a technical process referred to as a «Blockchain». This is an open source IT protocol over which the Company has no rights or liability in terms of its development and operation.

The token distribution mechanism will be controlled by a Smart Contract; this involves a computer program that can be executed on the Ethereum network or on a blockchain network that is compatible with Smart Contract programming language. They acknowledge and understand therefore that Yotta Laboratories (incl. its bodies and employees) assumes no liability or responsibility for any loss or damage that would result from or relate to the incapacity to use YEdge Tokens, except in case of intentional misconduct or gross negligence.

YEdge Tokens is based on the Ethereum protocol. Therefore, any malfunction, unplanned function or unexpected operation of the Ethereum protocol may cause the Yotta Laboratories network or Yotta Laboratories to malfunction or operate in a way that is not expected. Ether, the native Ethereum Protocol account unit may itself lose value in a similar way to YEdge Tokens, and also in other ways.

### 15.5 Representation and warranties

By participating in the crowdsale, the purchaser agrees to the above and in particular, they represent and warrant that they:

- have read carefully the Terms & Conditions attached to the whitepaper; agree to their full contents and accept to be legally bound by them;
- are authorised and have full power to purchase YEdge Token according to the laws that apply in their jurisdiction of domicile;
- are not a U.S. citizen, resident or entity (a “U.S. Person”) nor are they purchasing YEdge Tokens or signing on behalf of a U.S. Person;
- are not resident in China or South Korea and nor are they purchasing YEdge Tokens or signing on behalf of a Chinese or South Korean resident;
- live in a jurisdiction which allows Yotta Laboratories to sell the YEdge Token through a crowdsale without requiring any local authorization and are in compliance with the local, state, and national laws and regulations when purchasing, selling and/or using YEdge Tokens;
- are familiar with all related regulations in the specific jurisdiction in which they are based and that purchasing cryptographic tokens in that jurisdiction is not prohibited, restricted or subject to additional conditions of any kind;
- will not use the crowdsale for any illegal activity, including but not limited to money laundering and the financing of terrorism;
- have sufficient knowledge about the nature of the cryptographic tokens and have significant experience with, and functional understanding of, the usage and intricacies of dealing with cryptographic tokens and currencies and blockchain-based systems and services;

# LEGAL NOTICE

These terms and conditions (hereinafter the “Terms”) describe information applicable to the use of the YEdge Token website and its project, which is owned and operated by Yotta Laboratories Ltd.

By using the Website or its related services, including limited Token sale process, you expressly agree to be bound by all the terms and conditions set forth.

In accepting this agreement, you acknowledge that you have read this agreement, understand it, and had an opportunity to seek independent legal advice prior to agreeing to it.

You also warrant that you are at least 18 years old and have full capacity to contract under applicable law; only transacting on YEdge Token Website with legally-obtained funds that belong to you; not furthering, performing, undertaking, engaging in, aiding, or abetting any unlawful activity through your relationship with us or through your use of YEdge Token Website; and, comporting with and obeying all applicable laws.

At any point, if you do not agree to any portion of the current Terms, you should not proceed to use the Website or participate in it.

Yotta Laboratories Ltd. has the right to review and amend the current agreement at any time without notice.

In limited Token sale, you’ll need to submit two sets of information:

Phone number verification worldwide.

KYC/AML (Know Your Customer/Anti-Money Laundering) checks.

AML/CFT (Anti-Money Laundering/Countering the Financing of terrorism)

Unfortunately, if you are a resident of People's Republic of China, Japan, Republic of Korea or The United States, you will not be able to purchase YEdge Tokens.

The list of risks specified in these Terms is not comprehensive, and it may not contain those risks which cannot be predicted at the present moment. If you are not sure that you can estimate the probability of occurrence of such risks by yourself, you are advised to contact an appropriate specialist (a lawyer, an auditor, an adviser or a programmer) before making a decision about entering into any agreements with the Service and participate in our Website.

By purchasing the YEdge Tokens, the Purchaser confirms that he/she:

- ✓ Has read the contents of this whitepaper and fully understands the implications of the content;
- ✓ Is legally permitted to purchase YEdge Tokens in the Purchaser’s jurisdiction;
- ✓ Is of a sufficient age to legally purchase YEdge Tokens or has received permission from a legal guardian who has reviewed and agreed to these Terms and the Sale Agreement;
- ✓ Will take sole responsibility for any restrictions and risks associated with the purchase of YEdge Tokens as set in the Terms;
- ✓ Is not exchanging Bitcoin/ETH for YEdge Tokens for the purpose of speculative investment
- ✓ Has a full and complete understanding of the usage and intricacies of Blockchain-based assets, like Tokens, Bitcoin/ETH and Blockchain-based software systems.