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San Victus Private Limited

OWNii Coin

The revolutionary asset backed digital currency

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1 Disclaimer

This white paper is **only** for informational purposes. The intention behind this white paper is to inform readers of the strategic plans for building smart green communities and townships in the USA, Malaysia and other countries leveraging on Light Fidelity ("**Li-Fi"**) technology based Optical Wireless Network Internet Infrastructure ("**OWNii"**) systems; for developing waste-to-energy ("**WTE**") conversion projects based on plastic, tire and other waste recycling technologies; and manufacturing clean green energy ("**CGE**") generators using state of the art technology. These strategic plans are focused on the strategic objectives of developing, building and operating green, sustainable, scalable and environmentally friendly communities, townships, cities, green or renewable energy and infrastructure projects as part of the wider ecosystem.

Global Greenology Enterprise Inc./San Victus Private Limited are the key proponents and developers of such strategic initiatives ("each a "**Founder**" and collectively the "**Founders**"). Readers are advised to review the entire document before making any decisions about participation in any crypto-currency transactions. The Founders are not liable for the reader's decisions or the results of any transactions made by the reader. All transactions hereto are based on private placements and are considered private and confidential. All demonstrated past performance is not indicative of future results.

Hence, this white paper should not be treated as an invitation or offer to enter into an investment. It should be noted that this white paper does not possess any form of binding power or impose any legal responsibility on anyone. This white paper only aims to outline the development process of the OWNii Coin as part of the strategic initiatives and is not recorded in a legal contract format. The launch and implementation of OWNii Coin are dependent on several variables that include the adoption of blockchain technology, user engagement and regulatory risks, amongst others.

All information mentioned in this white paper was put together by the collaborative efforts of internal and external research groups in conjunction with each of the technology partners. It is the obligation of the proponents to create awareness or implement the OWNii system and the proponents are not mandated to take any actions. The information in this white paper is disseminated only for general information and the proponents do not provide any warranty regarding the accuracy and exhaustiveness of this information.

OWNii Coin is only an utility token crypto-currency that can be used for transactions on the OWNii Coin platform. These tokens are not meant to be mistaken or used as an investment. The subsequent planned offering of OWNii Coin on a crypto-currency trading exchange is to extend the awareness and reach of the OWNii system, and is not intended for speculative purposes.

Any reader planning to acquire OWNii Coin should understand that the strategic initiatives involving the OWNii system, the details of the corresponding business models, this white paper or any other terms and conditions may change or require modifications at a future stage to comply with new regulations, requirements mandated by appropriate laws or conformance to market developments. In such a scenario, purchasers or any reader acquiring OWNii Coin accept and understand that neither of the proponents nor any of their associates, affiliates, successors and assigns can be held liable for any losses or damages caused directly or indirectly by these changes.

The Founders will do their best to launch and develop the OWNii system alongside the rest of the strategic initiatives and try to achieve the strategic objectives. However, any reader planning to acquire and transact OWNii Coin should only do so with the full knowledge, understanding and consent that neither of the Founders or proponents shall give any guarantees that these would be achieved, and they shall not assume any responsibilities for any losses or damages resulting from the inability to use OWNii Coin.

2 Glossary of Terms

2.1 Blockchain

A digital ledger in which transactions made in Bitcoin or another crypto-currency is recorded chronologically and publicly. Identifying user data is not included in the publication of transaction strings with the exception of the *to* and *from* wallet addresses. By allowing digital information to be distributed but not copied, Blockchain Technology created the backbone of a new type of internet.

2.2 Crypto-currency

A digital or virtual currency which employs advanced cryptographic encryption techniques known as Blockchain Technology, which are used to secure and regulate the generation of units of currency and verify the transfer of funds, operating independently of a central bank or any other authority

rending it theoretically immune to government interference or manipulation.

2.3 Ethereum ("**ETH**") Platform

Ethereum ("**ETH**") is an open-source, public, blockchain-based distributed computing platform and operating system featuring Smart Contract functionality. "**Ether**" is the crypto-fuel of the Ethereum network which is used to do transactions.

2.4 Ethereum Blockchain

Ethereum blockchain network is simply a set of nodes connected to every other node to create a network. Each node runs a copy of the entire blockchain and competes to validate and create the next block. Whenever a new block is added, the blockchain updates and is propagated to the entire network. Therefore, to become a node in the Ethereum network, your computer will have to download and update a copy of the entire blockchain.

2.5 ERC-20 Framework

ERC-20 is a technical set of rules and standards for implementing new crypto-currency tokens and Smart Contracts upon the Ethereum Blockchain. The Ethereum Platform was designed so that any developer can propose improvements to the rules and standards with each proposal being assigned a unique identifying number. After the initial proposal is processed, the accepted proposal is thereafter referred to as an Ethereum Request for Comment ("**ERC**"), and 20 is the unique number that was assigned to this request. ERC-20 tokens are blockchain-based assets that have value and can be sent and received. The primary difference is that instead of running on their own blockchain, ERC-20 tokens are issued on the Ethereum Platform

2.6 Smart Contract

This is a program that facilitates the exchange of money, content, property, shares or anything of value. The Smart Contract becomes a self-operating computer program that automatically executes when specific conditions are met. They run exactly as programmed without any possibility of downtime, censorship, fraud or third-party interference, that is, they are self-executing contracts with the terms of the agreement between the buyer and seller directly written into lines of code. The code and agreements contained therein exist across a distributed, decentralized blockchain network. Smart Contracts permits trusted transactions and agreements to be carried

out among disparate, anonymous parties without the need for a central authority, legal system or external enforcement.

2.7 Private Ethereum Network

Rather than the public network, a private Ethereum network can be build which can be used to make transactions and build Smart Contracts without needing real Ether. The establishment of such a private Ethereum network is a well known process, and essentially commences with the installation of Geth (which is a command-line interface (CLI) tool that communicates with the Ethereum network and act as the link between your computer and the rest of the Ethereum nodes), installation of the binary for your operating system, configuration of the Genesis Block (the initial block in the chain) using Geth with a custom genesis file to create the first own genesis block of the private network (via the pasting of the software codes in the genesis.json file and instructing Geth to use it to be the first block) and creation of a separate data directory for storage.

The main Ethereum network has '1**'** as the networkid, and to kick start the private blockchain network, the choice of the network id can be any random number except '1' to create the unique network. The private network so established is ready to mine new blocks to the private chain.

2.8 Trexchain Platform

Trexchain ("**Trex**") is one of the most promising advance technology developers specializing in a broad spectrum of present day advance technological sectors. Trex has an experienced and competent team that has developed its in-house blockchain technology that is an open-source, private, blockchain-based distributed computing platform and operating system featuring **an internal** Smart Contract application system and the ability to generate unique digital assets against the overall network. "**Trex Coin**" is the crypto-fuel of the Trexchain network which is used to do transactions across the Trexchain Blockchain. Trexchain Platform is Ethereum compliant

2.9 Trexchain Blockchain Network

Trexchain Blockchain Network is a private network of a set of nodes connected to every other node to create a network.. Besides, tokens can be generated and E-wallets created are under the private blockchain with its own DANP architecture. These E-Wallets have the standard private keys that are generated as random 256 bits, which is 64 (hex) characters or 32 bytes,

to which the public key is generated (128 characters/64 bytes) using the algorithm called Elliptic Curve Digital Signature Algorithm ("**ECDSA**"). The private key allows the E-wallet owner to sign transactions, whereas the public key is used to create the address on the blockchain.

Unlike the private Ethereum Network, crypto-currencies or crypto coins that are created are crypto assets that have their own blockchain, or record of transactions, such as the Trex Coin under the Trexchain Blockchain Network. And just like any other crypto tokens that use another blockchain instead of their own, such as the popular ERC 20 token which are tokens that use the Ethereum Blockchain, these crypto tokens that are being created on the Trexchain Blockchain Network can be designed with specific features such as Non-Fungible Tokens ("NFT"), etc..

2.10 Digital Asset Nodal Points ("**DANP**") or Nodes

Digital Asset Nodal Points or Nodes control the operations of validating, saving and broadcasting transactions, and facilitate other events on the blockchain. Some of these events are operations such as governing string comparison events, providing execution of protocol operations and enforcing the standards of the overall Trexchain Blockchain.

2.11 Private Placement Offering ("**PPO**")

An unregulated means by which funds are raised for a new crypto-currency venture. The key distinction between a PPO and an Initial Coin Offering ("**ICO**") is that in an ICO campaign, the offering is open to the general public through a set of prospectus or offering memorandum that are typically lodged and registered with a regulator, whereas in an PPO, the offering is to targeted parties that have expressed a specific interest in the overall plans and initiatives of the Founders and promoters, and wish to participate and contribute toward the success of such a venture, and with participating clear terms and conditions outlined under a private placement memorandum ("**PPM**").

2.12 Proof of Work ("**PoW**")

A Proof-of-Work ("**PoW**") system or protocol or function is an economic measure to deter denial of service attacks and other service mechanism. This renders transactions traceable, transparent, and irreversible.

PoW often is used in blockchain verification model whereby the Nodes perform the verification of a single transaction and provide a validation response to confirm the said transaction. Case in point would be that Bitcoin Blockchain requires 51% of its Nodes to verify a single transaction within the string. Speed of verification and confirmation therefore are important performance indicators of any blockchain.

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2.13 Proof of Stake ("**PoS**")

This concept states that a person can mine or validate block transactions according to how many coins he or she holds. This means the more Bitcoin or other Bitcoin type altcoins owned by a miner, the more mining power he or she has.

PoS are also used as a form of verification model that mitigates the potential negative impacts of centralization by using a decentralized and automated comparison process of verification, and thereby is vastly more secure. Rather than eliminating the need for trust, the PoS verification model has many safeguards in place that ensure that those Nodes trusted with signing blocks on behalf of the network are doing so efficiently and without bias, especially so since each block that is signed by the Node must have verification that the block before it was signed by a Trusted Node.

3 About

3.1 Global Greenology Enterprise Inc.

Global Greenology Enterprise Inc. ("**GG**") is a privately owned manufacturing and design company specializing in environmentally friendly, energy efficient building solutions.

GG's principal mission is to address the damage to our planet caused by pollution. GG achieves this by waste management and efficient recycling. GG uses a 100% recycling process to introduce green products to the market.

GG places emphasis on education as it is their belief that the future of the world is '**Green**'. Therefore, it is important to create awareness about new technological advances or alternatives that help make our environment cleaner, healthier, safer and promotes a sustainable future. Individuals from city, state and local government, as well as commercial business owners and residential customers, can benefit from the wealth of information GG have compiled during its 10 years in the industry. Green products,

recycling, and waste management are paramount in creating the buildings of tomorrow; it is GG's passion to produce and design buildings, structures and facilities that are energy efficient and sustainable.

GG is working towards establishing a fully functional manufacturing plant, designed to produce eco-friendly building materials, green energy and green products from recycled wastepaper and plastic. In addition, GG is poised to spearhead the production and installation of LED lighting and Li-Fi technology.

GG is currently building its national infrastructure to bring a green lifestyle to your home, business, or municipality. With the Founders' collective efforts, GG can impact the change needed to build a healthy efficient and sustainable society from the ground up.

3.2 San Victus Private Limited

San Victus Private Limited out of Singapore ("**SV**") is an established venture that is privately owned and focuses on the promotion as well as the implementation of WTE, plastic to diesel, tires to carbon black and Green Technology, and Li-Fi enabled LED products.

Together with GG as Founders, SV is resolved to address the ever-growing needs of the climate change concerns and the overall IT revolution with a focus on increasing energy efficiency, sustainability and reducing the energy consumption and carbon footprint through innovations in advanced technologies through the development of IT related products and digital sector to improve internet accessibility in Asia and USA respectively.

Additionally, SV will manufacture Li-Fi technology products that will be affordable and help make this technology accessible to the masses, besides implementing Green Technology projects in the region.

The Founders have initiated a Green revolution and also Li-Fi Technology applications under the OWNii system in the region as part of the Strategic Initiatives, and cooperating with Pure LiFi, the copyrights owner of this Li-Fi Technology. With GG now owning the copyrights, reseller and distribution rights, these shall greatly assist in the implementation of this Li-Fi Technology in homes, offices and industries that will help enhance internet speeds by 100 times through the use of LED light bulbs, thus augmenting the success of the OWNii system roll out under the entire OWNii Ecosystem so envisioned by the Founders.

Although SV main focus would be on the Green Technology aspects of the Strategic Initiatives and Objectives, the roll out of the OWNii system ex-USA in the countries of the Asian-Pacific region shall fall under its responsibility, and is already in discussion with major players in the regions for implementation of all related technologies as part of the entire OWNii Ecosystem initiative.

4 Strategic Initiatives, Objectives and Targets

Global Greenology Enterprise Inc. (GG) and San Victus Private Limited (**SV**), collectively as **Founders**, are in collaboration to spearhead strategic plans for building smart green communities and townships in the USA, Malaysia and other Countries leveraging on Light Fidelity (**Li-Fi**) technology based Optical Wireless Network Internet Infrastructure (**OWNii**) systems; for developing waste-to-energy (**WTE**) conversion projects based on plastic, tire and other waste recycling technologies; and manufacturing clean green energy (**CGE**) generators using state of the art technology.

These strategic plans are focused on the strategic objectives of developing, building and operating green, sustainable, scalable and environmentally friendly communities, cities, green or renewable energy and infrastructure projects as part of the wider ecosystem.

By entering into a strategic partnership, the Founders will pioneer smart building technologies, Green Energy technologies and the OWNii system associated technology as well as all related technologies in the sustainable green domains. With a growing demand for OWNii system technology, the Founders are well positioned as the first to implement the infrastructure for the next internet green wave! Under the strategic plans, the Founders shall launch all these technologies and install Li-Fi based internet infrastructure in all of USA and the rest of the globe, in particular, in Asia.

With an extensive knowledge of blockchain based crypto-currency coupled with the domain knowledge of Artificial Intelligence ("**AI"**) software algorithm and system implementation, as well as the Internet-of-Things ("**IoT"**) devices and integration expertise, the Founders shall also leverage on these expertise and knowledge to exploit these technologies and incorporate them seamlessly into the development of the smart communities, townships and cities, the OWNii system and the WTE and CGE technologies based sustainable green or renewable energy projects, thus the realization of the

Strategic Objectives and Strategic Targets of the entire OWNii Ecosystem.

The creation and launch of the OWNii Coin token as the crypto-currency is just part of the Strategic Initiative in terms of the capital funding, whereas the application of the blockchain technology, AI Solutions and IoT Solutions into these underlying projects are key differentiating components that are at the forefront of current technological advances.

.

5 OWNii Ecosystem

The OWNii Ecosystem currently shall comprise of a suite of products and services that are leveraging on the Li-Fi technology, the WTE and CGE technologies to create smart green communities, townships and cities, fully integrated with the OWNii system, with the ultimate aim of spreading the infrastructure across larger geographical reach and coverage.

Each building and infrastructure facility shall be equipped with LED lighting and Li-Fi capability, along with the other amenities, products and services that would be offered as standard specification and features.

The OWNii Ecosystem shall be developed to ensure that the development and design of the physical infrastructure necessary to implement Li-Fi technology in the United States and abroad, with a special focus on developing countries, would be the testament of the successful applications of these technologies in creating sustainable green ecosystems to benefit mankind.

Currently, the company, Pure LiFi out of Scotland manufactures and distributes the equipment needed to stream communication through existing LED bulbs but to implement Li-Fi technology seamlessly across the OWNii System and OWNii Ecosystem shall require system design, integration, installation, of different equipment, software, middleware and hardware, etc.. across different sectors. These are where the bulk of the work shall be performed and accomplished by the Founders.

From the launch of the OWNii Coin token, the awareness will encourage the development of new internet infrastructure in the United States and internationally. The OWNii Ecosystem would also create numerous opportunities for employment, business ownership, and entrepreneurial endeavors selling equipment and services.

OWNii Coin tokens and the resulting financial capital it generates allows the Founders the opportunity to build the OWNii System and OWNii Ecosystem, and effectively provide the technologies to reach the end user and provide opportunities to manufacture and implement Li-Fi LED bulbs and other accessories, products and services. It opens a level playing field for the smaller business owner or entrepreneurial start-ups to get involved at a grassroots level of these opportunities.

5.1 OWNii technology and system Implementation

These projects will not only provide families access to state of the art high-speed internet services but will also give the Founders an opportunity to establish and entrench peripheral businesses such as wiring and installation services, etc..

Phase one of the implementation shall focus on existing households and communities. As part of the total OWNii Ecosystem functionalities, the residential efforts are not limited to physical buildings, systems, structures, infrastructure that are erected in the process, but are also focused on the deployment of teams designated to conduct energy audits of existing homes and businesses. Such energy audits will consist of light bulbs and electrical wiring assessments, energy usage, as well as electricity and internet bill cost analysis, thus providing comparisons of relative performances to be published as testimony to the achievement of substantial savings, apart from the attaining the full implementation and deployment of the Green Technologies .

Phase two of implementation includes expansion of the project to include small municipalities, rural towns and cities with poor internet, cable and cell phone coverage and connectivity. The Founders have established relationships with various towns and cities that are interested in transitioning to LED and eventually Li-Fi technology, including the partial or full implementation of CGE and/or WTE components of the OWNii Ecosystem spectrum.

Phase three of implementation upscale the entire Li-Fi technology and infrastructure to the full spectrum of OWNii system, linking communities, townships and cities together, thus ensuring that the initial relatively smaller scale OWNii System is thus so established, alongside the supporting WTE and CGE technologies to compliment and be an integral part of the OWNii Ecosystem.

5.2 OWNii Global Holding Pte Ltd. ("**OWNii Global**")

OWNii Global Holding Pte Ltd. is established by the Founders to which the OWNii Ecosystem, Green Technologies and CGE technologies shall be managed and administered under the Strategic Initiatives and Objectives.

The various different asset classes assigned to and/or managed and/or owned under OWNii Global would increase over time under the Strategic Initiatives and Strategic Targets and Objectives, and now include the following :

a) the re-seller, manufacturing and distribution rights of the Li-Fi technology;
b) the outright licencing, distribution and manufacturing of the CGE technology originated from the USA;
c) the licencing and application rights of OWNii system and technology implementation, manufacturing and distribution across the globe;
d) the licencing and distribution rights on key components of the WTE technology;
e) the OWNii Coin token

5.2.1 Intrinsic Asset Valuation

The classes of assets managed and administered under OWNii Global have intrinsic values. The underlying basis of valuations differs in both characteristics and nature across these different classes in their respective specifics entered into with different counterparties, and which would usually comprised of components such as cost of acquisitions, cost of licencing, cost of origination and development, intellectual property, royalties, licencing or rights fees, technical and advisory services and fees, and investment returns as valuation bases.

As the progress of the developments under the Strategic Initiatives gain momentum over time, the intrinsic values are expected to

increase in tandem, specifically with a spectrum of products and services entering the markets.

5.2.2 Financial Pro-forma forecast

The pro-forma financial projections for each of the underlying projects under the Strategic Initiatives have been formulated with key underlying assumptions that include the targeted capital structure (between debt and equity capital), the means of financing, the commercial contracting terms, the capital cost of development, the operating costs, the projected inflation indices, effects of currency fluctuations and valuations, repatriation risks, political risks, execution risks, and so on.

Based on the viability and feasibility studies so analyzed, the projected costs of investments and returns on investments can be formulated and discounted to present value.

With each underlying projects' basis of assessment and projects so formulated, the associated contributions to OWNii Global both from top line entries such as royalties, licencing fees, etc., to bottom line entries such as technical and service fees, commissions on sales of products and services and return on equity, are established as contracted.

As such, the OWNii Coin tokens would increase in value in tandem based on the different revenue streams to OWNii Global, while still backed by the underlying assets. The finite number of OWNii Coin tokens are then equated and apportioned to the valuation of these underlying assets, and derived at the present Offering Price.

The stored value and utility value of each OWNii Coin token that underpins the intrinsic value (and associated appreciation so projected) shall be made known through price settings published for new release of OWNii Coin tokens through further PPO, or the release and launch of OWNii Coin tokens on the crypto-currency exchanges or a combination of both. Actual amount of appreciation, if any, are dependent on the actual investment returns and performance of underlying projects.

Capital gains of OWNii Coin tokens are realizable through the specific measures to be adopted by OWNii Global. These specific measures offer an alternative to the traditional realization of the profits associated with capital gain of each OWNii Coin token at P2P Blockchain Platform or crypto-currency exchanges.

5.2.3 Redemption of OWNii Coin token

Redemption of the OWNii Coin tokens under specified terms and conditions offer Account Holders and owners a means to dispose or transfer the tokens for profit or at cost, with the latter specifically stated to be at the Offering Price. This is part of the specific measures adopted by OWNii Global.

Although the value of an OWNii Coin token can be affected by broader financial markets impacts or speculations or trading volumes, supply and demand within the crypto-currencies exchanges, the gradual expected appreciation in value attributed to the performance of the underlying assets or the increase in assets acquired can be tracked and ascertained as available information are published and disseminated, these incremental expected increase in valuation are reflected into each apportioned OWNii Coin tokens based on the same valuation methodology, cementing the expected increase in intrinsic value. In a redemption scheme, in no case the value of the OWNii Coin token would be lower than the Offering Price, and hence they cannot be redeemed for less than the Offering Price, and therefore consequently, these tokens theoretically cannot lose value to below the Offering Price.

5.3 OWNii Energy Inc. ("**OWNii Energy**")

With the roll out of the OWNii System and OWNii Ecosystem firmly in progress, OWNii Energy Inc. was established to oversee, develop, and design the physical infrastructure necessary to implement Li-Fi technology in the United States and abroad with a special focus on developing countries.

OWNii Energy will manufacture and distribute the equipment needed to stream communication through existing LED bulbs, apart from the related scope of work required to fully implement Li-Fi technology, such as installation, integration, testing, commissioning, operation and maintenance aspects.

OWNii Energy shall oversee the different Phases of the design and implementation of the OWNii Ecosystem in the USA and to support the parallel efforts of the Founders in ex-USA countries.

In fact, OWNii Energy has already benefited significantly from the initial efforts of GG, and through early development in the system backbone, has perfected the ability to transmit the Li-Fi technology signal across traditional Wi-Fi connections and can now distribute it commercially. The opportunity to roll-out this Li-Fi technology under the OWNii System exists now in many markets across the USA alone. OWNii Energy is licensed in all 50 states, and counting.

6 *The climate changes mitigation – Waste to Energy (WTE) and CGE*

With the technologies designed and adopted, one of the Founders' Strategic Objectives is to implement and apply technologies to work in line to mitigate the climate change elements under the Green initiative and drive, with such applications targeted to help to reduce greenhouse impact.

The implementation of the New State of the Art Clean Green Energy technology with origins in the USA, WTE and all other recycling technologies to reduce, recycle, recreate and reproduce to new product, have been planned to roll out under the OWNii Ecosystem as part of the Strategic Plans.

The main direction is to create or establish recycling and reengineering center of excellence to ensure recycling all waste to usable products. The direction has been proceeded to set up communities, urban cities, industrial parks in a few countries, and for starters the 1st such project with Green data centers being established in Malaysia already by SV as one of the Founders.

Likewise, extensive measures taken to establish similar footprints in larger scale in a few countries in Asia are planned for. For the USA, the main direction is to take over communities and townships which are in deplorable conditions to redevelopment by creating smart green cities to adopt all related technologies to achieve a sustainable solution to protect the environment and mitigate against climate change risks.

The 1st major project is adopting 52 square miles in mid USA to implement all Green technologies, smart cities technologies and uplift the well-being of the towns' people. By redeveloping a lot of new technologies will provide jobs for the towns' people.

The project will be a template to further implement 4 more townships that have already been signed off for such tremendous project undertaking.

The project level means of finance, capital structure and funding have been raised with partnership with private investors and also with partnership with the government of USA for redevelopment initiative launched recently.

The projects' initial fund of US $500 Million would be in place, with the balance raised through Private Placement and government grant.

Ground breaking work on the 1st project a 52 square miles township has been scheduled. Technologies that would be ushered in would be prioritized, but essentially would encompass all aspects of the OWNii Ecosystem ranging from Green technologies, Li-Fi technology for a digital era and all its related smart technologies incorporating AI Solutions, IoT Solutions and Blockchain Solutions based products and services, as well as green revolutionary waste reengineering and recycling technologies as part of the WTE and CGE Technologies.

6.1 The Smart Waste Technologies

6.1.1 Executive Summary

6.1.1.1 Introduction

SV and rest of its partners herewith propose solution in an effort to convert all waste (all types) into renewable energy and by-products and shall be spearheading this on behalf of the Founders. Having undertaken an extensive study on the waste and landfill situation in India, it is imperative that a WTE Technological solution is needed to mitigate and ensure landfills are rehabilitated and waste are used as feedstock for green energy.

The WTE technology offered is a patented solution and deployed overseas in the last 30 years to convert all types of waste, to energy and reusable by-products. The technology once deployed makes landfill redundant as all waste becomes feedstock material of the type.

Moreover, the system is modular with starting waste of 450 Tons per day per module and increased based on the waste availability.

Furthermore, this WTE technology does not produce any emission as well as no discharge causing pollution.

Due to no burning and no oxygen involved throughout the process, two of the most harmful gases namely Furan & Dioxin which relates to cancer and breathing difficulties are not produced.

The construction period from all approvals and plans is typically about 16 months. The plant is usually operational on the 12th month. Wherever applicable and in line with the carbon credit accreditation and certification schemes under the United Nations umbrella of implementation since the Kyoto and Paris Protocol, inspectors from the United Nations or their accreditation consultants can be scheduled to be on site one month prior to the commencement of testing, commissioning and commercial operations to prepare, make assessment and grant possible carbon credit certification.

The studies indicate that based on the quantum of waste, the modular concept and well tested system will benefit the types of waste that are generated globally. Wet waste and environmental humidity are processed and dried to ensure that all waste is degenerated effectively.

"No Burning, No Oxygen, No Emission, No residual waste to a cleaner emission free environment"

As one of the several WTE Technologies, the C6T Advanced Recycling and Energy Conversion Process incorporates several innovative technologies, four of which have patents. The operating principle of this technology is to process the waste to remove recyclables, non-convertible inert gas/materials and excess water, and then generate an intermediate gas or liquid fuel from the incoming waste by means of pyrolysis. This intermediate fuel is cleaned and then used in engines to produce electricity and also the syngas can be utilized for industrial or residential usage.

6.1.1.2 Brief on Technology

Brief overview of Advanced Thermal Conversion Methods - Advanced thermal conversion techniques used to generate renewable energy from waste should not be confused with traditional mass-burn incineration or gasification. Pyrolysis is dissimilar to burning, which requires oxygen. The WTE pyrolysis technology employed here is using an advanced

thermal conversion technique which is a "clean, reliable, renewable source of energy," according to the US Environmental Protection Agency

a) Pyrolisation Process – The explanation on the chemical reactions that take place

All the waste inclusive of organic compounds will, if heated in a controlled manner, break down into lower molecular weight compounds, changing physical form as their molecular weight decreases. Within this reaction, organic solids will be converted first into liquids and then into gases.

On the basis that heating is achieved in an oxygen-starved environment, the thermo-chemical decomposition process is termed gasification. Pyrolysis is an advanced form of gasification and takes place at elevated temperatures in the absence of oxygen. Pyrolysis can treat many different solid hydrocarbon-based wastes. Pyrolysis and gasification are dissimilar to burning, which requires oxygen.

Pyrolysis can be used to produce syngas or liquid products. Pyrolysis can produce a clean fuel gas mixture of methane, carbon monoxide and hydrogen called "**syngas**". This syngas will typically have a calorific value of 19 - 30 MJ/m3 depending on the waste material being processed. The lower calorific value is associated with biomass waste, the higher calorific value being associated with other wastes such as sewage sludge and hydrocarbon base waste. Syngas can be produced with higher calorific values when the waste contains quantities of materials with a high calorific value, such as rubber.

Pyrolysis can also be used to produce liquid fuel, like diesel, which can be readily stored and transported.

Syngas is suitable for utilization in either gas engine to generate electricity, or in boiler applications. Syngas burns more efficiently and cleanly than the waste from which it was made.

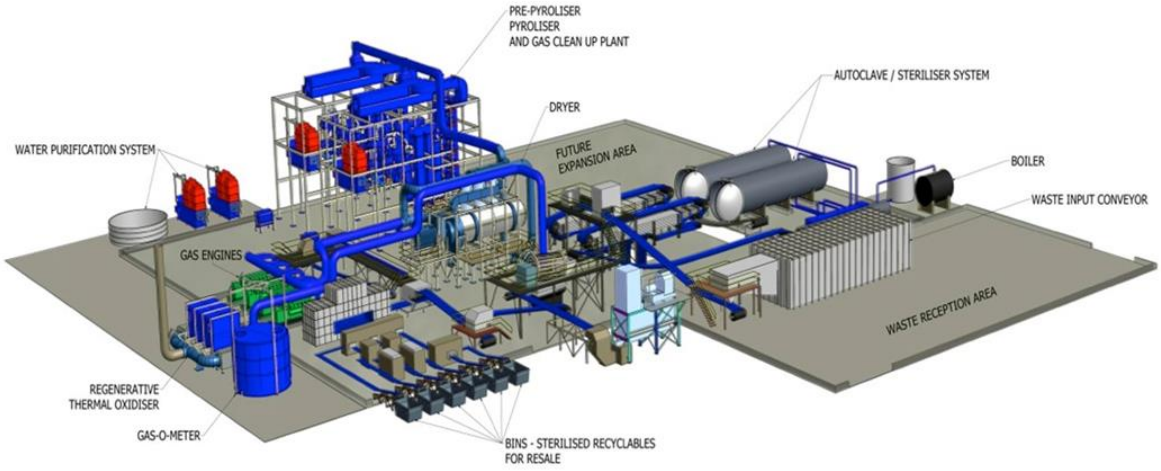
Biomass pyrolysis can thus improve the efficiency of large-scale biomass power facilities such as those for forest industry residues and specialized facilities such as

black liquor recovery boilers of the pulp and paper industry, both major sources of biomass power. Like natural gas, syngas can also be burned in gas turbines, a more efficient electrical generation technology than steam boilers to which solid biomass and fossil fuels are limited. The pyrolysis process has successfully operated gas engines utilizing many different biomasses as the feed source.

During the gas cooling phase, a gas clean-up system is employed to render the syngas “engine friendly”.

Pyrolysis leaves a solid inert residue of between 5 to 7% of the processed waste.

b) WTE Plant Layout



6.1.2 Problem Statement – An Example in India

Due to the waste generation in India which has culminated in creation of landfills, the government which is also a party to the United Nations Environment rectification treaty, immediate measures are needed to reduce greenhouse gas (“**GHG**”) emission. Other governments that are also participants include Malaysia, Vietnam, etc.

The treaty has been rectified, and commitment made by all countries that are part of the treaty need to ensure GHG is reduced and temperature increase is kept to less than 1.5% by 2030.

Further as urbanization grows due to modernization any landfill is demarcated to be in zones for ease of commercial or residential development.

With growing trend in waste accumulation, the best approach would be using the waste as feedstock for green energy and byproducts, thus tested state of the art nonpolluting waste to energy solutions will be the savior.

Waste source segregation is still not practiced which needs extensive education, legislation and enforcement to be implemented.

Most system need segregation but the C6T Technology system does not need segregation, and all waste can be used as feedstock which is cost saving in terms of manpower, equipment and time.

Traditional technologies in India, as well as most of the other mentioned government participants, generally offered and in place are Incinerators or stroker which has very pertinent emission problem such as the creation of Furan and Dioxins which causes breathing or respiratory disorders and cancer due to Dioxins. These harmful substances further affect the immune system, leading to allergic reactions and impacts development of the brains of newborns as well children.

Besides, these traditional technology based cost is expensive which requires tipping fee to be increased and land required for 1000 tons per day is about 20 acres, and can only be cost effective if 1000 Tons per day of waste is available.

Furthermore, incinerated residue still requires a landfill (about 20%), as such no savings in terms of landfill, maintenance etc. The residues are toxic and need to be reprocessed before dumping or disposal, failure of processing will cause toxins to impregnate the soil and water bed.

6.1.3 Proposed Solution – C6T Advance Recycling and Energy Conversion Process

The proposed solution is formulated for this specified problem statement, but is equally adequate to address other situations that are fundamentally similar in nature as mentioned being experienced by the rest of the countries such as Malaysia, Vietnam, Indonesia, etc.. Significant progress has been made in Malaysia whereby the approved 450 Tons per day project as initiated by SV is in its final stages of development cycle and contracting.

This patented piece of equipment is at the heart of the C6T advanced recycling and energy conversion process. The dried

cellulose fibre raw material as a result of the initial treatment process of the waste raw materials feedstock is thermally decomposed at high temperature in the absence of oxygen (non-burn) to produce syngas. The pyrolysis process takes place at a temperature of 950°C.

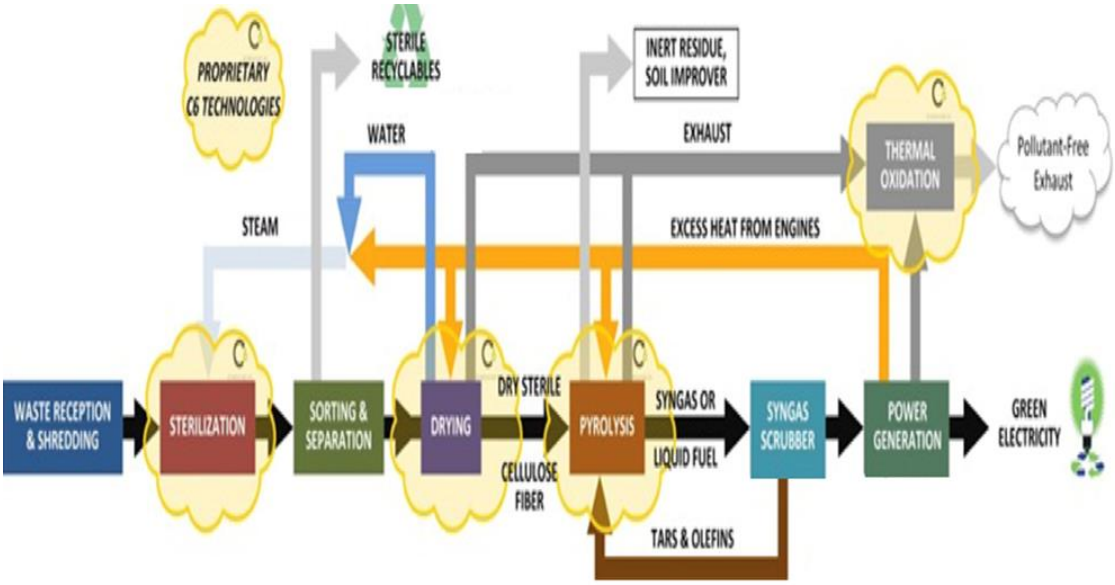
The pyrolyzer consists of two stages. The first, or pre-pyrolyzer, pre-heats the material to a temperature that depends on the material being processed. An inner drum is rotated within a heated outer vessel. The temperature of the outer vessel and the speed of rotation enable the material exit temperature to be precisely controlled.

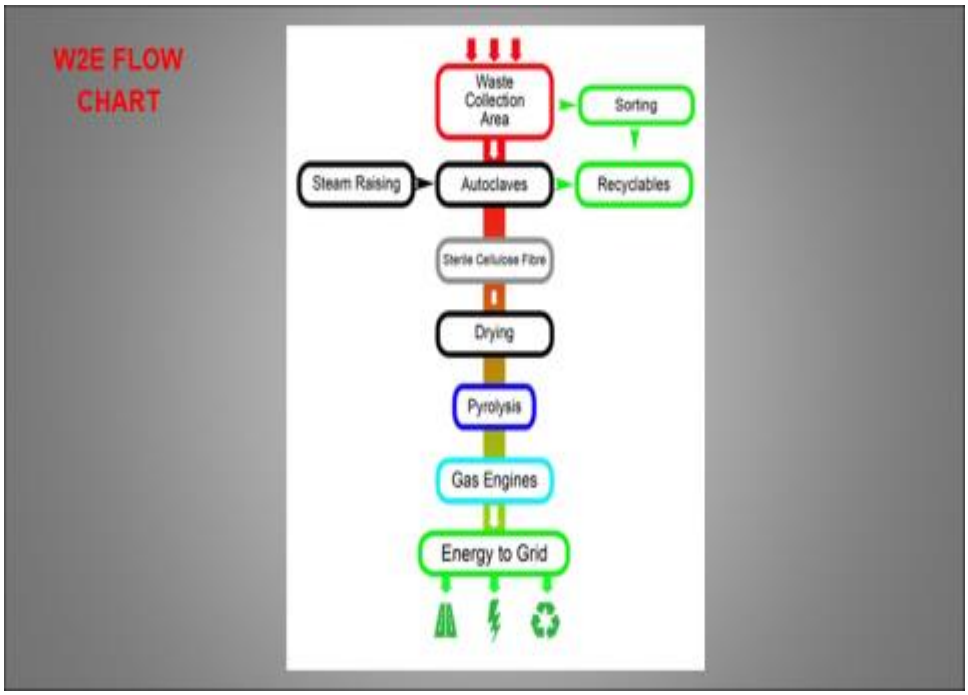
The processed raw material then passes through to the pyrolyzer, which also consists of a vacuumed inner unit surrounded by a heated outer vessel. After initial start-up using external fuel, the pyrolyzer is heated to a temperature of 950ºC, using a small quantity of the syngas that it generates. The system is very efficient with a parasitic load of around 10%, vs. competitive systems that typically consume 25% of the power produced.

As the processed raw material moves through the chamber, angled distribution plates control the retention time in the system. Multiple off-take points allow the composition of the syngas to be precisely controlled. The syngas produced has a very high calorific value (CV), typically 22 MJ/m3, compared to competitive systems that typically achieve less than 8 MJ/m3. A higher volume of syngas and thus more electrical energy is generated.

The design of the equipment involves no high-temperature moving parts (unlike rotary kiln-type designs offered by technology competitors) and ensures no gas leaks. All carbonaceous material is converted with no char remaining (unlike gasification) and no residue is carried over to the gas clean-up system. The system is very thermally efficient, remaining low-grade heat is used to preheat air going to the burners and pyrolyzer exhaust is used to heat the preconditioning system. The entire system can be pre-assembled to minimize site construction.

6.1.3.1 Simple Process Flow





6.1.3.2 Waste Receipt and Pre-Treatment

Waste reception will be dictated by the location of the facility and waste types, trucks will be the likely delivery of various forms of waste, the most common being Municipal Solid Waste ("**MSW**"), but could also comprised of other categories of waste.

The size of the waste must be such that it can fit in the autoclaves, dryers and pyrolyzers, therefore large items

such as mattresses and tires need to be reduced in size via a shredding process.

6.1.3.3 Sterilization / Autoclaves

For projects taking in raw MSW, waste will pass through the autoclave, which utilizes heat, steam and pressure to sterilize the waste. There is no need to either pre-shred or open trash bags prior to loading into the autoclave as the internal agitation in this unit performs this function. The C6T autoclave process gives a very high pathogen and virus kill rate.

Note: tires, wood and certain other feedstock do not require sterilization

The autoclaves are considered the elegant solution for processing raw MSW.

6.1.3.4 Separation of Recyclables

Sterilized recyclables such as glass, ferrous and non-ferrous metals are removed, and non-pyrolyzable materials such as aggregates are also removed from the waste raw material feedstock.

6.1.3.5 Drying

The post separation waste feedstock is then passed to the dryers. Excess moisture in the feedstock is removed before it is sent to the pyrolyzer.

Following the drying processes, waste is homogenized and reduced in size to less than 4mm.

At this stage the dry, waste raw material input, commonly known as Refuse Derived Fuel ("**RDF"** grade 3, or "fluff" RDF), is fuel for the pyrolyzer.

The project will be receiving RDF. However, it is anticipated that the fuel will still need to pass through a dryer to reduce moisture content before entering the pyrolyzer.

Autoclave

6.1.3.6 Pyrolysis

Pre-Conditioning: various processing treatments are carried out on the waste in preparation for pyrolysis. The process or processes required are being dependent on the nature of the waste as abovementioned.

Pyrolysis: Once treated, the feedstock is passed into the pyrolyzer. It uses a high temperature in the absence of oxygen to convert waste into syngas. Syngas is predominantly a mixture of methane, hydrogen and carbon monoxide.

6.1.3.7 Syngas Cleaning

Tars, oils, aerosols and “fines” (residues) are removed from the syngas using variable condensing temperatures and scrubbing systems. These molecules are then cycled back through the Pyrolyser to ensure they are broken down further. Tars are vitrified along with any residue, providing the heat input to the Pyrolyzer, avoiding the use of the syngas for this purpose, and increasing overall project efficiency.

Scrubber Oxidizer

6.1.3.8 Electricity Production

Clean syngas is passed from the pyrolyzer either directly into an engine with a generator set or using a turbine to generate electricity. The electricity generated by gas engines and/or turbines is exported to the grid.

6.1.3.9 Thermal Oxidizer

Exhaust gases from the dryers, pyrolyzer burners, engines and turbines are sent to regenerative thermal oxidizers to remove pollutants to a level of less than 16 parts/million. Most environmental agencies require all air emissions to be heated to 850ºC for more than 2 seconds, typically requiring high energy consumption.

The C6T Technology design reduces energy consumption to approximately 15% of competitive designs. This is accomplished by using a bi-directional design: gases acquire heat from a ceramic bed at one end and deposit it at a bed at the other end prior to discharge back to the stack. Flow is reversed every 90 seconds to allow the previous exit heatsink to heat the incoming gases. The last 15% of the required heat is supplied by syngas produced by the pyrolyzer.

The unit removes all volatile organic compounds and easily meets the EU environmental emissions laws, as well as US EPA regulations. It operates effectively from full load to a fraction of output. In the event of high concentrations, NO_X can be reduced by 90% and neutralizers can be added to treat otherwise difficult compounds.

6.1.3.10 Emissions Control

Combined exhaust from the dryers, pyrolyzers and engines is progressed through a regenerative thermal oxidizer, ensuring that the final exhaust discharge to atmosphere meets worldwide emissions acceptance criteria.

Thermal Oxidizer

6.1.3.11 Emissions Standard and Comparison

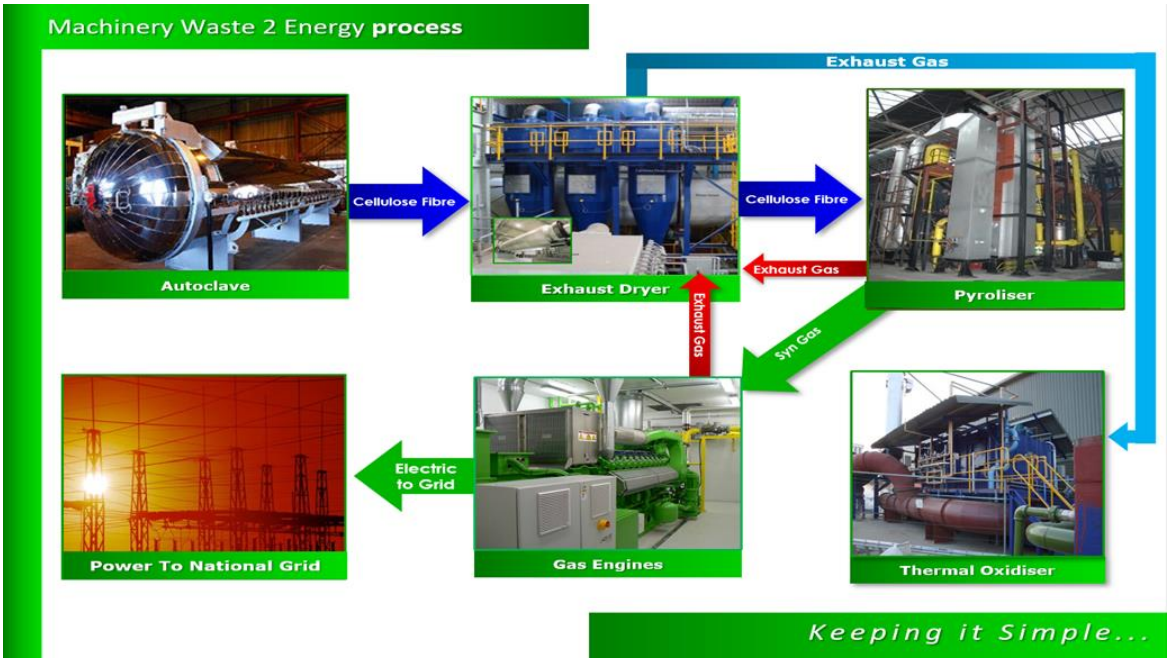
Contaminant	US EPA Primary Limits	California Limits	European Limits	AREC Technology Typical Result NATURAL	AREC Technology Result With Further Abatement
CO (8 hr)	9 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	50 mg/m^3	Less than 9 ppm	less than 9 ppm
SOx (1 hr)	75 ppb (196 µg/m^3)	.25 ppm(655µg/m^3)	50 mg/m^3	negligible	negligible
SOx (24 hr)		.04 ppm(105µg/m^3)		negligible	negligible
NOx (1 hr)	100 ppb (188 mg/m^3)	.18 ppm (339µg/m^3)	200 mg/m^3	18.7ppm	less than 0.1 ppm
NOx (Ann. Arithmetic Mean)	.053 ppm (100µg/m^3)	.030 ppm (57µg/m^3)			
Dioxins & Furans	0.00003 µg/liter		0.1 ng/m^3	negligible	negligible
Solid Particulates PM10 (24 hr)	150 µg/m^3	50 µg/m^3	10 mg/m^3	100 µg/m^3	less than 10ug/m3
Solid Particulates PM10 Ann. Arithmetic Mean	NA	20 µg/m^3			
Volatile Organic Compounds (VOCs)	0.075 ppm		0.1 ng/m^3	negligible	negligible
Total Organic Carbon (TOC)			10 mg/m^3	negligible	negligible
Hydrogen Chloride (HCl)			10 mg/m^3	negligible	negligible
Hydrogen Fluoride (HF)			1 mg/m^3	negligible	negligible
Lead (Pb)	0.15 µg/m3(rolling 3-mo. avg)	1.5 µg/m3(30-day avg.)	0.5 mg/m^3	negligible	negligible
NOx will be further abated using a catalyst on the engine exhaust and urea in the Re Ox	Particulates can be further abated using a bag house	CO Levels will be <9 ppm by optimizing and monitoring the stoichiometric conditions on all heat input systems		The technology has only limited emissions without further abatement, thus natural result exhibited above	The abatement required is very small compared to other technologies

6.1.3.12 Disposal or Sale of Residue

Any further outputs from the process, such as inert residue, are transported from the site to the relevant customer that has uses for inert residue fertilizer. Typically, the inert residue is approximately 5 - 7% of the initial raw input by weight.

6.1.3.13 Continuous Emission Monitoring Equipment

Continuous emissions monitoring equipment ("**CEMs**") is located on the exhaust stack, which is the sole emissions point of the plant. Emissions will conform to all local and federal regulations and international standards. The CEMs monitors all contaminants and emissions as required by EPA regulations. The CEMS operates continuously on a 24-hour basis and will include a facility for on-line monitoring of gas concentrations and provide that notifications of any out-of-tolerance indications are sent to both on and off-site staff. The CEMs equipment is subjected to an annual surveillance test. Parallel calibration with the reference methods occurs at least once every three years. Automated reports from the CEMs will be made available to EPA inspectors. Periodic measurements of non-continuously monitored pollutants and heavy metals will be undertaken in accordance with the timescales laid down by the authorities within the Environmental Permits.



6.2 Clean Green Energy Technologies

6.2.1 Clean Green Energy (CGE) from Waste

6.2.1.1 USA Deployment

In partnering with the inventor of a novel CGE Technology from general waste out of USA, GG has designated Ownii Energy Inc. to be spearheading the development, deployment, design, engineering, manufacturing, testing, commissioning and operations of power plant(s) to power up specific dedicated grids as an independent power producer to provide electricity as a green energy.

Such specific plants would be playing a vital role in the provision of electricity supply source to the smart green cities development under the OWNii Ecosystem implementation plan, apart from the export of surplus electricity to the grid for peaking or off-peak demands.

The initial phase of the manufacturing process to produce the first GGE Plant in the first smart green city is in progress.

6.2.1.2 Ex-USA Deployment

SV and its subsidiaries and affiliates shall be spearheading the application of the said CGE Technology exclusively internationally to different territories ex-USA, mainly in the countries of South East Asia, Indian sub-continent, United Kingdom, Europe, Turkey, Middle East, Africa, Australia and New Zealand.

7 The State of Wireless Communications

Whether it is replying to an email on your laptop or posting pictures on social media through a Smartphone, wireless networks play an important role in facilitating communication in a world that is constantly on the move. Currently, the most popular technologies in use are based on radio frequencies of the electromagnetic spectrum. Cellular communication and Wi-Fi are based on this technology.

7.1 Cellular Communication

Today, 67% of the world's population uses mobile phones. Of this number, it is estimated that 2.5 billion people are Smartphone users. Smart phones coupled with internet access has allowed greater mobility and revolutionized the way people communicate. Wireless communications have evolved into a utility like water and electricity, fundamental to the socio-economic growth of modern society.

Current networks support voice and data communications, but, they offer average transfer rates of 7 Mbps. Meanwhile, 4G speeds range between 15 to 20 Mbps. However, with advancing technology, data transfer speeds are expected to surpass 40 Mbps by end of 2021.

Cellular communications are affected by a variety of factors with the main one being propagation path obstruction. This refers to the obstruction to radio waves caused by natural or man-made features such as buildings, caves, clouds, etc. This disruption results in issues such as connectivity issues and duplicity of data.

Meanwhile, the traffic using mobile data is on the rise. According to one report, the total mobile data traffic is estimated to increase by eight times by

2023. This increase is attributed to the growing popularity of video-based media such as YouTube, Netflix, social media and games and the IoT.

To meet the ever-growing demand for mobile communications, cellular networks have to grow from simple local service providers into large, complex cooperative systems. The main challenge for cellular communication operators will revolve around addressing this exponential demand created by consumers. The exponential growth in demand for wireless data is outpacing the supply of current and emerging wireless networks.

So far, additional frequency spectra and denser cell sites are being allocated to answer this challenge, but these short-term solutions will only delay the inevitable spectrum crunch. In addition, up to 70 per cent of the wireless data demand is coming from indoor locations, which are currently being served by Wi-Fi APs and femto-cellular communications.

An indirect, but increasingly becoming a significant direct factor in the forms of current communications and technologies is the overall energy usage involved in the backbone infrastructures and enabling technologies. It is increasingly and becoming statistically significant on the correlation between increase in volume and throughput of voice and data communications and energy consumption.

A combined increase in the speed of such communications systems and technologies, coupled with the adoption and switch to sustainable energy source of electricity, would significantly have positive impacts to achieve a balance, and in ensuring a sustainable growth in the demand for processing, throughput, speed, storage and management of such infrastructures and facilities.

The OWNii Ecosystem aims to contribute to part of the problem solution, and participate in the revolutionary technological advances in these aspects.

7.2 Wi-Fi Communication

With increased Smartphone usage, the demand for data has increased exponentially. This has led to using the use of radio frequency bands below the 10 GHz range. Wi-Fi routers operate in the frequency bands of 2.4 GHz and 5 GHz.

Wi-Fi gives wireless access to the internet by connecting the home or office Ethernet to the Smartphone or any other device to enable data transfer. Wi-Fi is gaining popularity because it provides higher data transfer rates when compared to cellular communication. The average WLAN-11n Wi-Fi router can give speeds up to 150 Mbps while the more expensive WiGig routers can scale up to 1-2 Gbps. According to one 2018 report, around 76% of North America households use Wi-Fi to connect to the Internet.

While Wi-Fi communications allow faster data transfer, it suffers from issues ranging from security to scalability. Wi-Fi use encrypted radio waves to transmit data over a network. These waves can travel through walls thus making them vulnerable to interception and potential hacking. Apart from Wi-Fi routers, there are other household appliances that operate in the low radio frequency spectrum. These include devices such as garage doors, baby monitors and cordless phones. Radio signals from these devices can disrupt the proper functioning of a Wi-Fi router leading to frequent connectivity or data transfer issues.

Finally, the demand for inexpensive high-speed networks is increasing by the day. It is predicted that within the next 3-5 years, the global demand for data will be twice the amount of data supplied via traditional wireless communications.

The OWNii Ecosystem proposed is well positioned to achieve that, and in the process of its overall development plans, achieve the very much needed balance between the demand for speed, capacity, data throughput, security, and sustainability and growth related issues.

7.3 Li-Fi as an alternative

Efforts are being made to address the increasing data traffic demand. Researchers are moving away from traditional low-frequency radio bands and looking towards Optical Wireless Communication ("**OWC**"). This focuses on utilizing visible light to provide an inexpensive and efficient alternative medium of wireless communication. Currently, OWC is commonly used in infrared remote controls of air conditioners and televisions.

In 2011, University of Edinburgh professor, Dr Harald Haas delivered a seminal lecture at the annual TED Conference. He introduced OWC as Li-Fi and initiated serious discussion into its applications and development.

Light Fidelity (**Li-Fi**) is a light communication system that is capable of transmitting data at high speeds over visible light, ultraviolet and infrared spectrums. Simply stated, this system when configured and installed can use a combination of light bulbs to form a wireless network, capable of transmitting data 1000 times faster than Wi-Fi. When an electrical current is applied to a LED light bulb a stream of light (photons) is emitted from the bulb. The signal can then be received by a detector which interprets the changes in light intensity (the signal) as data. LED bulbs are semiconductor devices, which mean that the brightness of the light flowing through them can be changed at extremely high speeds. This allows us to send a signal by modulating the light at different rates. The intensity modulation cannot be seen by the human eye, and thus communication is just as seamless as other radio systems, allowing the users to be connected where there is Li-Fi enabled light. Li-Fi is very efficient and when fully implemented will definitely provide billions of customers the most effective low-cost networking system that can be utilized wherever generated light exists utilizing OWNii Energy's created and modified LED light bulbs.

Li-Fi refers specifically to technology that is high-speed, bidirectional, and networked. Li-Fi technology is unique as it allows data streaming while also providing energy efficient indoor or outdoor lighting. By attaching LED bulbs with an electronic chip, data can be streamed using light in the visible, ultraviolet or infrared spectrum. Since this technology does not fall under a regulated spectrum, it helps to significantly reduce the costs for operators. Data transfer rates are 100 times faster than traditional Wi-Fi speeds. In laboratory tests, data was transferred at speeds of 224 Gbps. Meanwhile, in practical settings, Li-Fi managed to touch 1 Gbps as opposed to 70 Mbps under Wi-Fi and 20 Mbps under cellular.

In addition to superior transfer rates and illumination, Li-Fi offers other advantages over radio frequency transmission. They are listed as follows :

7.3.1 Security

Li-Fi uses the medium of light to transmit data. Since light cannot pass through opaque objects such as walls, it makes it difficult to intercept, unlike Wi-Fi.

7.3.2 Safety

Li-Fi does not generate electromagnetic radiation and thereby does not interfere with the functioning of sensitive electronic equipment.

Hence, Li-Fi has applications in areas such as aircraft, petrochemical plants and hospitals, where the use of radio frequency transmission is discouraged.

7.3.3 Efficiency

Li-Fi technology uses LED bulbs for transmission. These bulbs are very efficient and consume very little energy. This reduces the need for additional hardware to implement Li-Fi while also labeling it as green technology.

7.3.4 Localization

Since Li-Fi access points cover a small area, it can be used for tracking assets very precisely.

7.3.5 Data Density

Provides ubiquitous high-speed wireless access that offers substantially greater data density (data rate per unit area) than radio frequency through high bandwidth reuse.

7.4 Applications of Li-Fi

The advantages brought forth by Li-Fi can be applied in a variety of sectors thus revolutionizing the way data is streamed. They are listed as follows :

7.4.1 Security

Li-Fi is bundled with intrinsic security advantages. Thus using this mode of wireless communication helps users to bolster their security significantly. The power to demarcate the network area of a Li-Fi access point makes it possible to precisely distribute service in work or personal space. Additionally, Li-Fi technology uses proprietary hardware thus making it difficult for intruders to access the network.

7.4.2 Smart Lighting

By combining illumination with data streaming, Li-Fi can be used for promoting smart lighting in cities. Building lights and street lights can be connected to communicate wirelessly.

7.4.3 Healthcare

Since Li-Fi does not cause electromagnetic interference, it does not affect sensitive electrical equipment. This becomes very useful in a hospital setting as Li-Fi will not disrupt the functioning of medical appliances such as MRI scanners.

7.4.4 Workplace

OWC technology will significantly optimize the modern workplace. Video conferences, file sharing, intranet infrastructure can be scaled up with Li-Fi without compromising the security.

7.4.5 Transportation

Li-Fi can be integrated into current systems of transportation. This allows vehicle to vehicle communication thereby increasing the safety of users and can help address traffic congestion in cities.

7.4.6 Smart Cities

Widespread implementation of Li-Fi technology in cities can help improve internet services. This will also help in reducing the burden on radio frequencies, thereby improving cellular communications.

7.4.7 Smart Homes

With the IoT becoming a reality in modern homes, Li-Fi can help with addressing the security concerns associated with this segment. It can also help individuals to better secure their personal spaces.

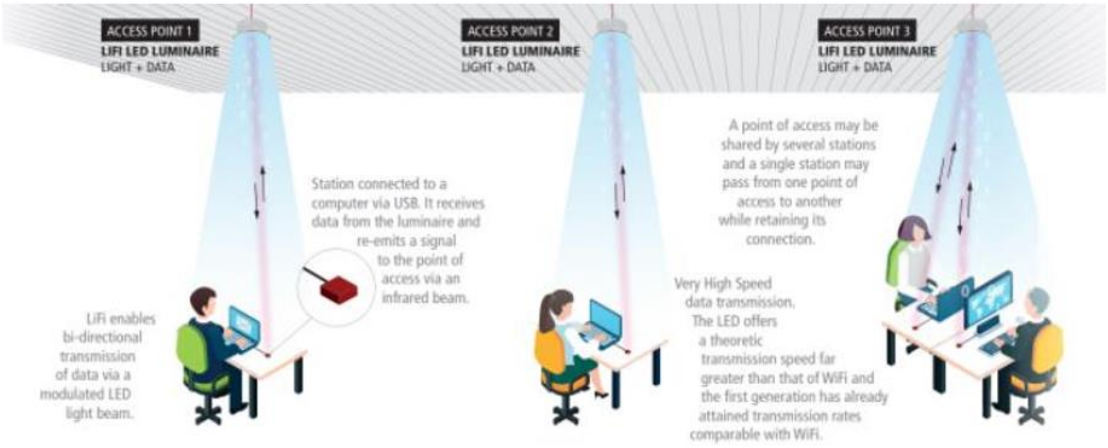
7.5 The way forward – The Solution

Historically, the growth in wireless capacity has been implemented by deploying miniature femtocells for mobile networks. Li-Fi cells are the next logical step in the evolution of wireless communication. Li-Fi for Indoor Wireless Networking Wireless heterogeneous networks ("**HetNets**") are already a necessary architecture for mobile communications networks, as smaller and smaller femtocells are used to offload and localize traffic.

The simple concept of cell-size reduction has increased the system spectral efficiency by a factor of 2700 over the past 50 years. Li-Fi is an emerging technology that promises 100 times more capacity. In this

context, Li-Fi is envisioned to fill a complementary role along with femtocells to offload traffic from the mobile base stations. The key to a high-performing system is not merely to increase the link level spectral efficiency. In fact, the most relevant aspect to a mobile vendor is the area spectral efficiency ("**ASE**"), that is, what mobile data rates can be offered for each user. In this context, Li-Fi is shown to provide at least an order of magnitude improvement in the ASE.

In addition, Li-Fi requires adapting only the frontends and physical layers of typical femto or picocells, while the above lying protocols can remain (fundamentally) unchanged. The Illustration below shows how Li-Fi works with different access points :



7.5.1 Reference for the Design team for access points

Illumination and Data Streaming :

7.5.1.1 Bi-directional Streaming

This is possible through a Li-Fi enabled LED bulb.

7.5.1.2 Infrared Beam

The Li-Fi receptor transmits data between the Li-Fi LED bulb and the device using an infrared beam.

7.5.1.3 Data Transmission

Li-Fi allows data transmission at speeds much higher than traditional Wi-Fi routers.

7.5.1.4 Li-Fi LED Bulb sharing

One Li-Fi LED bulb can be shared between multiple users.

7.5.2 Illumination and Network

Visible lights that include the infrared and ultraviolet spectrum, cannot pass through opaque objects, this means that this signal can be contained to a strictly defined area of illumination. In addition to proprietary hardware requirements before anyone can access the system, this defined illumination area allows precise partitioning of any environment. Thus, there are several distinct aspects of improvement with the establishment of this network :

a) The user gains mobility by using a dedicated desktop unit ("**DU**").

b) Since a DU is necessary to access the network, it is easy to monitor and control the activity of users.

c) The chances of users accessing information sent to the network by another user are near impossible.

d) Files entering the network are processed through a location-based "dual-gate locking" system. This helps to identify the source of an attack in case the network has been compromised.

e) Users can access files only if the device is connected to the Li-Fi network. Once connected to a Li-Fi network, the user can modify or download files on their devices.

f) Li-Fi can be used to track and localize every device accessing the network. Thus, Li-Fi access points can be programmed to activate on a fixed schedule or to a set of users.

g) Since the network access travels with a listed user, it creates a personalized and independent workplace.

h) By analyzing the activity and movement of users, organizations can create predictive statistical models to target user behavior.

Every aspect of the solution increases the network security of the system while increasing the mobility in the system. Li-Fi can provide the detailed level of information that is required to make effective predictive statistical user behavior models which mitigate the possibility of human error. As the demand increases with the super network's using more and more bandwidth, the need for transmission of data is critical at the high-speed level of light. AI requires high speed calculation that only Li-Fi can bring to the table. Because the speed of light is the only speed equivalent to real time thinking,

It is thus the strategic positioning and initiative to have Li-Fi technology as the core technology embedded under the OWNii System, and with the entire infrastructure developed, and scaling through linkages across towns, cities and eventually countries, the OWNii System would gain significant ground under the strong projected adoption rate. This would be an important foundation to which the entire OWNii Ecosystem can be applied to gain the overall objective of offering sustainable green technologies across the globe.

Once these Objectives have been achieved, the next phase of the Strategic Initiative strategic plans would be to focus more on the quality and range of products and services that would be very much needed above these technological infrastructures and systems. These would leverage heavily on AI and IoT, as well as Blockchain Technology. OWNii technology will allow AI to conduct humanlike thinking and processing, and enable usage and applications through IoT devices in the process.

8 Crypto-currencies and Blockchain Technology

8.1 What is Blockchain?

A blockchain is a database that is distributed across a large network. It makes use of a digital ledger that contains transactions and this is shared in the network. Cryptography is used to protect the ledger and users without the need for a central authority. It maintains a continuously growing list of records (blocks), each containing timestamps and a link to the previous one.

One of the many advantages of blockchains is the ability to independently verify transactions in an anonymous manner. The blockchain can also process transactions at a much lower cost than banks and credit card companies.

The main advantages of blockchain-based solutions are:

8.1.1 Independent Exchange

Two users can create transactions without the oversight or intermediation of a third party. This reduces counterparty risk.

8.1.2 Secure Users

Users are in control of all their information and transactions. Over a distributed database, transactions are encrypted by private and public keys.

8.1.3 Low risk of failure

Decentralized networks or distributed database help bolster the security of blockchains. This is because there is no central point of failure, thus making it durable against malicious attacks.

8.1.4 Immutability and Transparency

Any change to a record on a public blockchain can be viewed by all users. There is no central authority to validate or record transactions in a blockchain which leads to more transparent system with security. This promotes transparency in the system. Meanwhile, all records are immutable which means that they cannot be modified or deleted.

8.2 What is Crypto-currency?

Crypto-currency is a digital asset that uses cryptography to encrypt transactions as well as to control the creation of additional currency units. Since 2009, crypto-currency development has grown exponentially and now offers a wide range of utilities for users. Bitcoin was one of the first crypto-currencies to pioneer this technology and has been growing at a phenomenal rate. With the launch of Bitcoin, other crypto-currencies also began to emerge such as Litecoin, Ethereum and Dogecoin.

Crypto-currencies have gained popularity because they work in a decentralized environment and allow faster transactions using a peer-to-peer network. Crypto-currencies function outside the ambit of governing bodies such as banks and governments. This allows users to transact with one another directly without having to rely on a third-party. When compared

to traditional fiat currencies, crypto-currencies protect the anonymity of the users and the transactions are secure. This is because these transactions are facilitated through the use of public and private keys along with minimal processing fees. Experts believe that the value of crypto-currencies will increase with time as more exchanges occur. Additionally, by harnessing the blockchain technology, crypto-currencies can securely store user data and transaction details over a distributed ledger technology network. Since it is very difficult to hack or modify a digital ledger, especially decentralized and distributed, it becomes a secure storage for crypto currencies.

8.3 The Growth of Distributed Ledger Technology

A distributed ledger refers to a system that replicates, shares and synchronizes data across a network. A distributed ledger draws its legitimacy from speedily applying changes made by a user to all copies present in the ledger.

The integrity of a distributed ledger is increased when other applications are used to protect them (e.g. Smart Contracts). Since Smart Contracts use computer language to define the terms to record contracts, the computer systems can process them instantaneously. It is economically viable to form these contracts, as there are low contracting, enforcement, and compliance costs.

Now, the distributed ledger technology ("**DLT**") is still at a nascent stage and the blockchain technology represents one of the very first implementations that make use of it. The predictions regarding its development are positive. Many experts are pointing out that the blockchain technology will revolutionize the way individuals are using emerging technologies. Large banks and governmental institutions are working to implement blockchain technology applications to provide more secure and trustworthy services to their customers.

As the blockchain technology hits mainstream, there are numerous crypto-currencies that appear each year, all of them competing for the same market.

OWNii Coin is not going to be just another digital currency, as its own philosophy is to create a market share around its core initial users, with the i**ntrinsic value backed by assets** and established underlying business models initiated by the Founders.

9 Trexchain

TREX (https://wallet.trexchain.io) has an excellent team full of experience and in-depth knowledge in the blockchain, AI and IoT industry to provide the best service. TREX's expertise in blockchain, AI and IoT development enables TREX to provide custom blockchain based solutions for applications in various industries.

TREX constantly innovates and implements new methodologies, frameworks and best practices, giving clients the winning edge. TREX's technical and marketing team is confident to bring to any client the best products in the shortest time span. When collaborating with TREX, the client will be working with enthusiastic people, and would be benefited with updated knowledge and information on the latest technology trend.

9.1 TREX core competence

TREX focuses on the delivery of quality services and solutions across the spectrum of blockchain, AI and IoT sectors.

9.1.1 Blockchain Solutions

The focus of offering blockchain solutions to any organization is to leverage on the key features of DLT, and exploit blockchain technology's ability to enabled shared records securely over the internet (or any other alternative communication infrastructure such as the OWNii), which in turn significantly improves operational costs for many such organizations across numerous industries, as well as improving efficiencies by reducing time and errors in logging events, processing transactions and the automation of events utilizing Smart Contracts.

TREX positions itself well to develop and offer these solutions. Industries such as the financial services sector has already experienced faster and cheaper ways of service deliveries for customers to transact directly. Another industry that had benefited significantly is in the supply chain management whereby traceability and transparency are the most important foundations of the logistics, transportation and administration both at scalar and global business network. Security and scalability features have been greatly enhanced.

Other industries that stands to be benefited from this technology application includes the likes of insurance, healthcare, charity, real estate, government services, retail, energy management, data management, system/device management, and so on.

TREX's capability to build **private blockchain** for any industry offers greater flexibility and options for customers, by preserving all of the key features of public blockchain developments except that only users who are granted permissions have access to such private blockchain This enable more private data to be stored relative to a public blockchain, and as well as lesser time to process changes or transactions that are mainly attributed to relatively fewer transactions, whereas in a public blockchain developments these information generated are recorded on open shared ledgers like Ethereum Platform. The public and decentralized nature of such data storage and records means that it is not as vulnerable to hacking or alteration by third parties, and this important security feature is likewise deeply rooted in TREX's private blockchain infrastructure architecture and development.

9.1.2 AI Solutions

AI has come a long way since its early days, and the substantial increase in the rate of adoption of AI based technologies and applications has rendered those organizations that embraced it and incorporate it into the delivery of their goods and services to be more competitive and dynamic, with enhanced capabilities to react in timely fashion to bridge strategic gaps at the corporate levels, down to time-sensitive interactive interfaces in real-time applications.

TREX positions the AI Solutions to cater to a suite of services that can make organizations to be more nimble and at the forefront of the technological landscape. Ranging from data science and data analytics whereby large amounts of unstructured data can be organized into structured forms to yield information to make informed decisions; to other interfaces such as multi-lingual and AI driven chatbots in marketing campaigns, events and initiatives, the inherent capabilities of making machines to be able to leverage the captured data for self-learning and decision making are utilized efficiently and seamlessly, thus enabling not just faster decision making, but also business process automation, rapid anomaly detection and increased productivity.

9.1.3 IoT Solutions

TREX positions its IoT Solutions to co-exist and complement its AI Solutions so as to enhance and exploit the synergy of **connectivity and intelligent** systems. These would transform businesses into competitive differentiators by delivering innovative, intelligent and sustainable IoT powered solutions.

Often any IoT Solutions would require the clear understanding of the problem statement of customers and the ability to device the recommendations on solution blueprint. Such end-to-end conceptualization, proof-of-concept, designing, development and cloud deployment of IoT based solutions are the core expertise of TREX, and its positioning to be able to integrate business intelligence software with IoT based applications to generate actionable insights. In doing so, other peripheral infrastructure could likewise be benefited, such as possible seamless integration of various IoT enabled devices with business management software such as ERP, CRM, SMS and email clients.

9.2 Why TREX for blockchain and OWNii Coin?

TREX has an in-house team comprising of experienced professionals capable of developing innovative solutions and services across the blockchain, AI and IoT sectors to meet the increasingly dynamic and complex demands and challenges in the current market environment, such as the OWNii Ecosystem requirements.

Under the TREX Platform, Trexchain Blockchain provides customizable blockchain solutions that are tailored made to each and every client, and open to making changes and easily adaptable to client's requirements.

OWNii Coin is part of the strategic initiatives of the Founders and necessitated the need and requirement for a private blockchain to enable it to have a strong foundation and grounding toward achieving, maintaining, preserving the intrinsic asset backed value, and the progressive scalability and reach going forward as part of its growth plans.

TREX fits the part, and is and would be an important **strategic role** as part of this development. TREX is the publisher of all required systems **wholly owns all source code** for the complete Trexchain Blockchain Network, the Trex Coin and all of the crypto-currency tokens to include the software

wallet, all OWNii Coins, the P2P Crypto-currency Exchange Platform and all point of sales utilities therein. The in-house resources have developed all software and security protocols that allow the systems to operate efficiently while strategically controlling all system aspects at the most granular level.

This system source code allows TREX and the Founders to continue the innovation and proper administration of the Trexchain Blockchain ecosystem dedicated to support the development of the OWNii Coin token, the OWNii System and the OWNii Ecosystem, and all future system requirements, thus ensuring scalability, adaptability and most importantly transparency. There are no dependencies on any third parties' software code under this dedicated collaboration.

9.3 Trexchain Crypto-currency Wallet Development

TREX's crypto-currency wallet as a means for owners of crypto-currencies to track transactions, store and trade is designed and structured to be in line with the developments of other major crypto-currencies, and hence enable not only peer-to-peer ("**P2P**") transactions on the private blockchain platform itself, but seamless transition to crypto-currency exchanges and public shared ledgers.

The OWNii Coin creation and storage shall be provided with such an electronic wallet ("**E-Wallet**") on Trexchain Blockchain Network that allows for secure storage and seamless transactions across a wide spectrum of crypto-currencies (include BTC, ETH, LTE, ERC-20/721 Tokens, Tokens on Trexchain Blockchain Network).

9.4 Trexchain Smart Contract Development

A smart contract is a virtual contract built on Blockchain technology and it permits trusted transactions and agreements to be carried out among disparate, anonymous parties without the need for a central authority, legal system, or external enforcement mechanism. It can provide security, reduce transaction costs by automating contract execution and minimizing human intervention.

TREX has developed, tested, and deployed full stack Smart Contracts with sound business logic in order to facilitate credible transactions, and hence the OWNii Coin is well positioned and ready to be deployed and engaged under such a dedicated collaboration.

9.5 Trexchain Swap Wallet Development

Swap Wallet is a P2P exchange of crypto-currencies from one party to another, without going through a third-party service like a crypto-currency exchange. Swap Wallet enables users to trade their assets directly, safely and conveniently. During the entire process, the users have full control and ownership of their private keys.

TREX has developed and is conducting testing and resilience checks in preparation for such aspects in order to facilitate credible transactions, and hence the OWNii Coin is well positioned to be ready to be availed of such a development as part of its growth of awareness under the OWNii System initiative.

9.6 Trexchain Blockchain App Integration Development

Integrating Blockchain technology into existing IT systems and business processes can be difficult and complex. TREX is well positioned to provide the necessary guidance, installation and integration services.

Even in a setting of a DApp or decentralized app on a blockchain which is different from conventional client-server models, TREX is also ready to perform these services as well.

OWNii Coin rely on the downloading of the E-Wallet that is created on Trexchain Blockchain Network via an App that is seamlessly integrated, and available for applications across hand phones operating on Apple or Android operating systems.

9.7 Trexchain P2P Crypto-currency Exchange

The P2P crypto-currency exchange platform is fully secure as it does not store the digital currencies for its users. It just makes the buyers and sellers meet, and the security vulnerabilities for effective crypto-currency exchange development are the essence of the system and architect design to which TREX excels in.

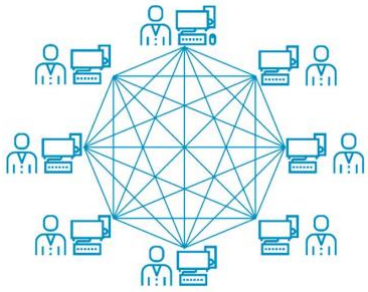
The decentralized system enables everyone to access the same copy of ledgers. P2P system does not have the central authority to control and so there are no chances of tampering.

9.8 OWNii Coin and Blockchain

OWNii Coin is built and available on a Trexchain Blockchain Network and is accessible as a DApp (Distributed Application) that is maintained and operated by TREX. The main reason for using blockchain technology in the development of OWNii Coin is to provide a decentralized infrastructure that is stable and secure for all the involving parties.

Blockchain's use extends beyond currency and has begun transforming the way many businesses, industries, and organization's function, much like how the internet transformed the news and information industry. TREX offer a wide range of Blockchain services that help organizations to develop DLT.

The collaboration between the Founders and TREX encompasses. leverage and harness the strengths of the Trexchain Blockchain Network for a suite of dedicated services and collaborative initiatives for the long term, and hence is an important strategic foundation that would be fundamental o the successful development of the OWNii System and OWNii Ecosystem,



9.9 Blockchain's benefits

Blockchain's primary benefit is its ability to enable shared records securely over the internet, which in turn significantly improves operational costs for many industries. Furthermore, blockchain significantly improves efficiency by reducing time and errors in logging events, processing transactions while also enabling automation of events utilizing Smart Contracts.

Other industries that can significantly benefit from blockchain solutions include:

a) insurance

b) healthcare

c) charities

d) real estate

e) crowd/venture capital funding

f) government services

g) retail services

h) oil & gas, energy management services

i) supply chain management

j) data management

k) system/device management,

l) and so on

OWNii Ecosystem encompasses a significant cross-industry and sectors of deployment, from which the adoption of blockchain technology based solutions would greatly and significantly benefit from.

9.10 Strategic Positioning

TREX's strategic positioning is to target and focus on industries and sectors whereby the range of services that can leverage on its core competence of exploiting blockchain, AI and IoT technologies.

The collaboration with the Founders would enable TREX the opportunity to participate and support the OWNii System and OWNii Ecosystem initiatives, and thus permits TREX to showcase the expertise, experience, range of products and services that its core competencies can be fully exploited.

9.10.1 Blockchain in Recycle Alliance (BiRA)

Leverages IoT, smart sensors and blockchain to develop an innovative recycling system that can be on a standalone application basis, or incorporated into an existing system

Auto-ID technology, geo-location sensors, weight and fill sensors shall be incorporated into precycle smart bins that can provide a solution for real-time maintenance by alerting municipal workers to problems with specific waste bins (such as for example low battery levels, blocked solar panel, or volume capacity issues, etc.).

Across the network, management can be equipped with information that can identify who, when, what and how participants within the ecosystem are using the bins, which in turn allows the business for near-instant cash-pack payments/rewards and efficient collection of precycled materials. The technology therefore also allows for packaging recovery, supply-chain visibility and impact reporting.

9.10.2 Blockchain in Health Alliance (BiHA)

Blockchain technology's decentralized and distributed digital record can offer new opportunities for managing product safety, authenticity and ethical standards.

When smart sensors (IoT) are incorporated into a product or device (such as a wallet, garment, accessories, payment cards, watches, etc.), they can track the wearer's heart-rate or temperature, etc., thus collecting data that would provide healthcare professionals with valuable information for purposes of monitoring or emergency applications.

9.10.3 Blockchain in Logistic Alliance (BiLA)

Blockchain technologies allow innovative mobility devices, adding traceability and secure financial transactions. The automation process will reduce human errors.

Each party in a supply chain ecosystem can view and be aware of progress of goods and services through the supply chain, such as in food delivery and processing sectors, in logistics and transportation sectors in tracking containers or trailers, etc.

They can also view bills, see the status of customs documents, bills of lading, delivery orders, packing lists, and other such data.

9.10.4 Blockchain in Education Alliance (BiEA)

Operational efficiency will be greatly improved with the assistance and application of IoT and AI technologies. This especially so in an environment ecosystem whereby such devices are connected, educators can work on creating a more dynamic classroom experience.

In a situation where attendance is to be recorded, this will be made incredibly simple by giving students wearable devices that have tracking ability.

In the field of authorities checking the genuineness of educational certificates, or student grade records, etc, using blockchain technology for storing information about these aspects will make counterfeiting impossible. Once put in a blockchain, this information will not be lost and it is impossible to change or falsify the information on the blockchain record. At the same time, one can easily access this information with the owner's consent.

9.11 Strategic Development Plans and Targets under the Collaboration in conjunction with the OWNii System and OWNii Ecosystem

9.11.1 Year One

a) Enhance the capabilities and expertise of the team to equip and position for wider spectrum of applications across more industries and sectors that is envisioned under the OWNii System and OWNii Ecosystem.

b) Enhance the infrastructure facilities and features to increase throughput, processing speed, data privacy protection, storage, etc.

c) Develop the details of the targeted Blockchain in Recycle Alliance (BiRA) to be integrated and incorporated into the smart green communicates, cities and townships design architecture, over and above the physical handling and treatment of waste using WTE and CGE technologies.

d) Develop and fine tune the facets of crypto-currency exchange to support the OWNii Coin token's growth plans to create awareness and transactional capabilities

e) Develop and fine tune the facets of Swap Wallet Development to support the OWNii Coin token's growth plans to create awareness and transactional capabilities

9.11.2 Year Two

a) Launch of Swap Wallet exchange

b) Launch Crypto-currency exchange

9.11.3 Year Three

a) Develop Crypto-currency Value Maintenance service for specific client requests that encompasses assessment of market value of crypto-currencies, cross-checking the assessment results, crypto-market analysis, returns on investment calculations, relative risks measurement, performance analysis, peer ranking and other account-related analysis in relation to the OWNii Coin token vis-à-vis its suite of other crypto-currencies that would be in the portfolio of OWNii Global as a result of the acceptance of payment by crypto-currencies for the OWNii Coin tokens during the PPO as well as during crypto-currency exchanges.

b) Develop Crypto Payment Gateway to leverage on the decentralized platform, low transaction fees and security to support the OWNii Coin token transaction capabilities.

9.11.4 Year Four

a) Develop full spectrum blockchain solutions to tailor made to specific targeted industries in the various sectors under OWNii System and OWNii Ecosystem in the USA and across borders in other countries of interests.

b) Develop fill spectrum blockchain solutions to augment and compliment OWNii Ecosystem infrastructure requirements

9.11.5 Year Five

a) Develop AI Solutions and IoT Solutions to integrate and administer all aspects of the OWNii Ecosystem functionalities and operational requirements, such as energy management and audit, waste recycling and management, internet deployment and roll out, etc.

b) Develop AI Solutions and IoT Solutions to support the Internet Service Provider ("**ISP**") system integration, security, data analytics, data storage management, etc.

10 OWNii Coin

10.1 Tokenization of Assets

The token sale is a process of generating and selling a new crypto currency. By building a Smart Contract on the blockchain, it is possible to raise and sell coins as crypto-currency. The process typically involves lawyers, qualified clients, a final private or public sale. In this process, cryptographically generated tokens are sold as digital assets representative of a product or service. Tokens can be designated for redemption for virtually anything, for example, free t-shirts on an apparel site or merchandise from a company.

It should be understood that ICOs these days are governed by regulatory bodies such as the U.S. Securities and Exchange Commission ("**SEC**") in the United States. Many entrepreneurs circumvent this regulation by conducting their sales outside of the country and conform to the legal structures and requirements thereof. However, there is not much difference between a penny stock and a token as both of them are based on speculation.

Further, token sales should not be considered as a funding vehicle. While many companies treat them as such — and crow over multi-million-dollar raises that explode in minutes — what they are doing is floating a crypto-currency on the open market, and would increasingly be coming under scrutiny, especially if these are without substance. On the other hand, token sales, ff structured properly, these crypto-currencies can increase its value, thus allowing companies access to additional funds for the project to which such sales initiatives can be based on. However, such events involving the general public would be required to be regulated under the prevailing rules and regulations of the place of such offerings, with the protection of the interests of the general public at large. More often than not, most tokens so offered have no or unspecified basis of intrinsic values, or which purposes of such issuance are based on or associated with systemic risks typical of short-lived or one-off projects of unsustainable long term endeavors.

10.2 OWNii Coin creation

The OWNii Coin token is created under the Trexchain Blockchain Network. The OWNii Coin toke is not available or offered under an ICO, but is through a PPO that is organized and contracted for sale by the PPO Manager in the jurisdiction of Bahamas.

The single most important distinguishing discerning differentiation of the OWNii Coin token vis-à-vis other crypto-currencies in the market is that it is an asset-backed initiative, with a clear basis of intrinsic value, that would through the passage of time and successful implementation be expected to increase in valuation. Coupled with a pre-set and designed finite number of tokens available, the combination of scarcity and potential increase in valuation would render the tokens an attractive asset class to be held.

Under the organization and management of the PPO Manager, the OWNii Coin token is marketed and presented by contracted parties that specialized in the undertakings of private placement of offerings, and in specific selected and targeted countries such as Bahamas, United States, Malaysia, etc.

As part of the PPO process, the PPO Manager has directed for the prospective targeted interested parties to undergo registration and the verification and confirmation process of risk management and compliance checks under the guidelines of Know-Your Customer ("**KYC**") disclosures and profiling, Anti-Money Laundering (**"AML**"), Counter-Terrorist-Financing ("**CTF**") and observations under Personal Data Protection ("**PDP**") measures.

The PPO Manager organize the OWNii Coin tokens to be placed out privately to targeted parties under a set of terms and conditions that are in consultation with OWNii Global, and documented under a PPM.

10.3 Main OWNii Coins features

The OWNii Coins are crypto-currency tokens that have the following main features :

a) They are fungible tokens. This means that they can be exchanged, and each token is not unique.
b) The value of each token currently expressed in US$ fiat currency equivalent shall be captured by the internal Smart Contract per transaction, and upon the successful verification and confirmation by the DANP, shall therefore adjust the value of the OWNii Coin token.
c) There are no life-span limitations or expiry of use attached to any token;
d) They can be readily traded or exchanged under the P2P Crypto-currency Exchange Platform, and on crypto-currency exchanges (at a later date upon the completion of the PPO)

e) They are eligible for Specific Measures outlined by the Founders

10.4 Capital Gains and Realization

Account Holders or owners of the OWNii Coin token can seek toward P2P Crypto-currency Exchange Platform or crypto-currency exchanges to trade, exchange or transfer for profits, realization of capital gains, etc.

Apart from these usual avenues available for any crypto-currencies, the OWNii Coin token owners have other **Specific Measures** designed to offer different unique avenues to enable the same. These Specific Measures are designed to work in tandem with the intrinsic values of the underlying assets associated with the OWNii Coin token, and attain the distinction of value preservation. The details of the Specific Measures are found under the PPM, and are outlined as follows:

10.4.1 Redemption of OWNii Coin token for fiat currency or crypto-currencies

Redemption of the OWNii Coin tokens under specified terms and conditions offer Account Holders and owners a means to dispose or transfer the tokens for profit or at cost, with the latter specifically stated to be at the Offering Price.

Such redemption measures have specific periodic timeframes and may be augmented on a standalone basis or in conjunction with Coin Burning. In no case the redemption values of any OWNii Coin token will be at below the Offering Price as part of the intrinsic value preservation.

10.4.2 Redemption of OWNii Coin token for products and services

Redemption of the OWNii Coin tokens for specific products and services is possible as follows :

a) Lighting and IoT devices and products such as LED light bulbs, Li-Fi routers, etc.

b) Wearable apparels such as clothing, wristbands, hoodies, with or without IoT embedded chips or devices for different specific applications

c) Healthcare related products with IoT embedded technologies for individual heath checks monitoring as well as part of a larger integrated healthcare system

d) Services that can range from fiscal energy audits, residential & commercial Li-Fi installations, Li-Fi consultancy, etc..

10.5 Private Placement Offering ("**PPO**")

PPOs and ICOs are used by startup companies to negate the rigorous process of raising capital through venture capitalists or banks. In both an ICO and PPO campaign, a percentage of the crypto-currency is sold to early backers of the project in exchange for redeemable products and services or other crypto-currencies.

Early clients participating in these types of offerings are usually motivated to purchase the crypto coins with the hope that the project becomes successful once it launches. This would lead to a higher value for the crypto-coin when compared to the rate at which it was purchased before the start of the project.

One example of a profitable crypto-currency offering project that benefited early clients is the Ethereum Platform and its coin tokens known as Ethers. In 2014, the Ethereum Platform project was announced and its ICO raised $18 million in Bitcoins or $0.40 per Ether. The Ethereum Platform project was introduced in 2015 and since then the value of one Ether went up as high to $1,098 with a market valuation of over $10 billion.

The OWNii Coin token is offered through a PPO, with the following main features extracted from the PPM:

10.5.1 Total number of OWNii Coins

The total number of OWNii Coins is **2 billion**.

10.5.2 Total number of OWNii Coins under the PPO

The total number of OWNii Coins under the PPO is **500 million**. This represents **25%**. The Founders are having the remaining 75%, which have been earmarked for private placements to potential strategic investors involved in the OWNii System and OWNii Ecosystem roll out for up to 35%

over the initial period of the Road Map under the Strategic Initiatives and Strategic Plans.

10.5.3 Use of Proceeds

At this PPO, the price per token of OWNii Coin is **US$0.25** fiat currency or its equivalent in crypto-currencies ("**Offering Price**"). The targeted amount to be raised shall be **US$125 million** in fiat currency and/or crypto-currencies. The use of proceeds is targeted as follows :

10.5.3.1 Capitalization

The equity and/or debt investments into each of the underlying project companies involved in the OWNii Ecosystem and CGE Technologies initiatives in the USA, Malaysia and other countries to create ownership, control and oversight. This is about **30%** of the proceeds.

10.5.3.2 Working Capital & Reserves

The operational business and development expenditures of the various operating entities. This is about **20%** of the proceeds.

10.5.3.3 Investments into Short Term Investment Programs

These would include investments into asset classes such as high-yield investment programs, securities, commodities and resources. Proceeds from such investment asset classes would be applied to the development and expansion of the applications of the Li-Fi and CGE technologies to generate new businesses and projects globally under the OWNii Ecosystem initiative. This is about **30%** of the proceeds.

10.5.3.4 Research & Development Expenditures

These would include investments into manpower, expertise, equipment and facilities to continue to conduct independent or joint research collaborations with key technology partners to improve on current level and applications of technologies.

This would also include the mergers and acquisitions of technologies, patents, licencing, distribution rights, etc. of new

technologies that are compliments to the core of the Strategic Initiatives. This is about **10%** of the proceeds.

10.5.3.5 Upgrading the Trexchain Blockchain Network dedicated to support the OWNii Coin token, the OWNii System and the OWNii Ecosystem

The upgrading activities would include the development of the capabilities and functionalities such as the establishment of crypto-currency exchange where transaction fees can be targeted as a new income stream, security infrastructure, capacity & storage infrastructure, risk management & compliance measures, trust wallet partnerships, two-factor authentication ("**2FA**") features and the enterprise dedicated blockchain applications to a range of suitable products and services leveraging on Li-Fi, AI and IoT aspects. This is about **10%** of the proceeds.

11 Conclusion

The OWNii system outlined in this white paper revolutionizes the way that consumers illuminate their homes and business and provides the required lighting standards outlined by EISA. More specifically, OWNii System's underlying technologies create wireless communication that is faster, addresses issues with internet security, and allows localization due to the small coverage area of Li-Fi access points used for precise asset tracking.

Furthermore, the OWNii System also provides ubiquitous high-speed wireless access that offers substantially greater data density (data rate per unit area) than radio frequency through high bandwidth reuse.

The OWNii Coin token capitalizes on the benefits of crypto-currencies as a medium of exchange. This is because it does not require supervision from a third party or institution to maintain a ledger. This significantly reduces transaction costs and increases the feeling of security among customers.

The technical infrastructure and elements required to implement the OWNii system are in place and ready for execution. The only real challenge is its dissemination. The Founders' introduction of the OWNii system has the potential to compete with the current wireless communication systems with an eco-friendlier and sustainable alternative. The potentials are practically limitless with the future integration of products and services utilizing the

AI Solutions and IoT Solutions, and with the support of Blockchain Technologies.

Coupled with the Green Technologies, WTE Technologies and CGE Technologies, the OWNii Ecosystem can be realized with not just embracing the Li-Fi technologies applications, but also the entire spectrum of infrastructure, facilities, buildings, networks and services to benefit from having environmentally friendly and sustainable Green Technologies built in.

12 Road Map for Strategic Plan

The following phases of development represent the overall Road Map for the roll out of the Strategic Initiatives under the Strategic Plan that encompass all aspects of the Li-Fi Technology, WTE Technologies and CGE Technologies as part of implementing the OWNii System and OWNii Ecosystem.

Please refer to Annexure 1 for specifically the roll-out details concerning only the Li-Fi Technology aspects of the Road Map.

12.1 Year One

a) Launch PPO

b) Float Private Placement Memorandum (PPM) for the utility company OWNii Energy

c) Create awareness and generate interest in Li-Fi technology as part of the initial efforts under the OWNii System

d) Development of the key projects under the Strategic Initiatives

e) Commencement of investments into targeted asset classes

f) Upgrade the services and capabilities of Trexchain Blockchain Network required specifically for the OWNii System and OWNii Ecosystem

12.2 Year Two

a) WTE and CGE Technology solutions to be implemented as pilot project in Malaysia and/or Vietnam under the OWNii Ecosystem initiative

b) Trial runs of OWNii System technology aimed at homes and businesses using Li-Fi technology

c) Test the compatibility of Li-Fi in an IoT setting, including system design, engineering, architecture, production, etc.

d) Develop the crypto-currency exchange initiative under Trexchain Blockchain with TREX to facilitate the promotion and awareness of the OWNii Coin tokens

12.3 Year Three

a) Develop Li-Fi compatible devices

b) Integrate Li-Fi technology into customer devices such as computers, televisions, CCTVs, fridges, smart speakers and more.

c) Completion of project development under WTE Technologies and CGE Technologies in Malaysia and/or Vietnam

d) Implementation of the enhanced services under Trexchain Blockchain, AI Solutions and IoT Solutions for the OWNii System and OWNii Ecosystem

12.4 Year Four

a) Develop internet connectivity based on OWNii technology

b) Place towers and Low Earth Orbiting ("**LEO**") satellites to allow high-speed Li-Fi connectivity throughout the USA

c) Commencement of commercial operations of underlying WTE projects in Malaysia and/or Vietnam, as well as completion of development of other projects in the countries of Indonesia, Philippines, USA, India, etc.

d) System design and integration development works with Trexchain Blockchain Technologies into OWNii system

12.5 Year Five

a) Make Li-Fi internet available for commercial consumption under the OWNii system.

b) OWNii Energy will function as an Internet Service Provider (ISP) as well as a distributor of Li-Fi devices and accessories.

c) Roll out of testing and commissioning in communities and townships targeted for OWNii Ecosystem implementation

d) System integration and roll out of complementary blockchain technology based solutions, products and services within the OWNii Ecosystem

13 Annexure 1: Road Map Extracts and Key Features for Li-Fi Technology and implementation under OWNii System

The Founders have developed long-term Strategic Plans under the Strategic Initiatives to introduce and implement Li-Fi technology that would be the key foundation for the successful implementation of the entire OWNii system. Some of the extracts of this aspect is as follows:

13.1 Year One : Launch of PPO; PPM for OWNii Energy

The first year will begin with the launch of the PPO for OWNii Coin. Additionally, emphasis will be placed on floating a Private Placement Memorandum (PPM) for the utility company, OWNii Energy.

13.2 Year Two : Testing of Li-Fi for different target audiences

The second year will emphasize on testing the application of Li-Fi in different settings such as homes and business. Likewise, the viability of Li-Fi will be tested in the IoT setting where one internet network should be able to cater to the demands of multiple devices. The IoT enables devices to communicate with each other and relay the information back to the user. As the IoT is becoming a common feature in smart homes and offices, Li-Fi promises a reliable network superhighway for data transfer, with maximum security.

13.3 Year Three : Develop Li-Fi devices for end users

The third year will focus on researching and developing Li-Fi enabled devices targeted at homes and businesses. Recently, Apple announced the development of a Li-Fi-enabled iPhone. This has created a lot of interest in integrating Li-Fi into other consumer devices such as computers, televisions, CCTVs, fridges, smart speakers and more.

13.4 Year Four : Launch infrastructure for Li-Fi internet connections

Once the popularity for Li-Fi enabled devices is established, the focus shall be shifted to developing appropriate internet connections that will allow these devices to utilize their full potential. Towers and Low Earth Orbiting (LEO) satellites will be launched to facilitate high-speed Li-Fi connectivity throughout the United States. Once this phase has been completed, existing users of Li-Fi technology will gain access to superior internet speeds. Additionally, with Li-Fi connectivity now easily available, it opens a new market comprising of small, micro and medium businesses as well make it a viable venture to manufacture Li-Fi-enabled LED bulbs and other devices.

13.5 Year Five : Make Li-Fi internet available for commercial consumption

The fifth year of this project will focus on making Li-Fi internet available for commercial consumption. OWNii Energy will establish itself as a premier ISP of high-speed Li-Fi connections as well as a Li-Fi-enabled accessory.