AQUAOIN (Drop of Life)

WATER 2 ALL (W2A)

WHITE PAPER/VISION DOCUMENT

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1. EXECUTIVE SUMMARY

Water is the most precious universal resource. Over 70% of Earth's surface is covered in it. Life as we know it would not be possible without this abundant liquid. Indeed, Water is Life.

Water has many uses. It quenches our thirst and it washes our clothes and our cars. It produces electricity in hydroelectric dams, and cools down reactors in nuclear plants, too. And in ice form, it turns a refreshing drink into a good summer treat.

But we have limited water which everyone knows. Just like Cape Town become first city and Faces ZERO DAY.

As per New York Times "The government cautions that the Day Zero threat will surpass anything a major city has faced since World War II or the September 11 attacks. Talks are underway with South Africa's police because "normal policing will be entirely inadequate." Residents, their nerves increasingly frayed, speak in whispers of impending chaos.

The reason for the alarm is simple: "The city's water supply is dangerously close to running dry."

If we will not be able to handle such situations then by 2030 the 50% of the world's population might have to face the same situation and by 2050 whole world will have to face zero day.

The Aquaoin has come up with a clear vision and proof of concept that Pure Water to All is possible for forever.

Water is much more than that what we have thought. A lot of its power is yet to be untapped. It took the rise of blockchain technology based crypto currencies and the sharp minds of a group of entrepreneurs in India to turn water into the driving force of a thriving currency mining business.

'Water 2 All' (W2A) is the first Indian Blockchain solution to the World's Water Woes. The project proposed to develop a state-of-art technology that would produce fresh water safe for human consumption through recycling of waste water.

Blockchain technology ensures 100% protection against a counterfeit product, and water safety and quality control due to confirmation of the place of origin and a transparent chain of supply to the end-user.

The Untapped Power of Water: Aquaoin ICO is the answer

The Aquaoin's Initial Coin Offering (ICO) is based on the premise of generating revenue to commission a Research and Development (R&D) infrastructure to develop, test, and

finalize a state-of-art production machine, capable of producing pure drinking water from the various sources available around us.

Following this, Aquaoin will have state-of-art smart portable machines which will be 60% cheaper than available RO (reverse osmosis) machines. Its primary focus would be on developing such machine which would produce the Himalayan equivalent water.

The Aquaoin Group's endeavor- **'Water 2 All'**- is to develop an intelligent technology that can be used anywhere around the globe to produce hassle-free potable water. The state-of-art technology machine will be self-reliant, reliable, non-polluting, energy-efficient and cost effective.

The Aquaoin intends to create a whole new open marketplace of genuine natural water, where everyone will have access to all forms of water required by them with cheap and transparent solutions.

To realize this dream, aim, Aquaoin's water technology tied up with the revolutionary new age cyber technology- blockchain to maintain maximum credibility which will ensure 100% protection against a counterfeit product, water safety and quality control by confirmation of the place of origin and a transparent chain of supply to the end-user.

VISION

Water is fundamental to life- a basic right to livelihood. But clean drinking water is a mirage because there is an acute scarcity of potable water available to us.

Indeed, there is an abundance of water on our planet (more than 70%), but most of it is in the oceans, in the polar ice caps, and in the atmosphere, and is not available to drink or use. 'Water 2 All' intends to capture some of the water that is available through recycling. Aquaoin is developing a system to efficiently turn wastewater into usable, drinking water where it is needed around the world – in developing nations, drought areas, disaster zones, and more.

Our vision is to capitalize on recent technological advancements in the digitization of assets with a focus on availability of pure Himalayan 'Water 2 All'. We envisage an alternative to the traditional capital markets made possible by the ability to create a new class of digital assets.

The purpose of this Initial Coin Offering (ICO) is to generate funding to complete a thorough Research and Development (R&D) effort to develop, test, and finalize a production ready machine, capable of producing purest drinkable form of water in lower price.

The White Paper attempts to explain the real water issues driving this project, the road maps related to acquiring technology, ICO specifications, and the team involved in its development.

The document will provide potential investors with clear insight into our strategy for the implementation of decentralized ownership of digital assets backed by a physical store of wealth.

2. OVERVIEW

DEMAND OF WATER WOULD NEVER GO DOWN & WATER WOULD NEVER BE OUT OF BUSINESS

Genie is out of the bottle. Indeed, the bottled water industry is one of the most thriving enterprises across globe. Over the past two decades, packaged bottled water has become the fastest-growing drinks market in the world. With global market value of nearly $150 billion per year, bottled water market is expected to reach $280bn by 2020.

India is fast catching up with the global trend. The Indian bottled water category has seen strong growth in past few years as people turn to packaged water in the absence of clean potable water from water utilities and due to increasing health awareness.

INDIAN BOTTLED WATER MARKET

The Water shortage around the world and particularly in third world countries has opened new avenues for bottled water Industry. If we compare the growth and status of Indian Bottled Industry with western or Asian market, we are far behind in terms of quantum, infrastructure, professionalism & standards' implementation. In India, the per capita bottled water consumption is still quite low – less than five litre a year as compared to the global average of 29 litre.

The Euromonitor Report of 2015 had put India's per capita consumption at 13 litre, about one-fifth of China's per capita consumption of 62 litres. In 2016, bottled water sales in India were estimated to be to the tune of Rs 7040 crore, with the trade volume of 4.4 billion litre.

As per Euromonitor, the Indian bottled water industry is expected to grow at 20 per cent CAGR between 2016 and 2021 in volume terms. In value terms, the segment is expected to have a market size of Rs 21,500 crore (INR 210 billion).

EUROMONITOR INTERNATIONAL REPORT 2018: INDIAN PERSPECTIVE

BOTTLED WATER PERFORMS WELL AS FOCUS SHIFTS FROM HYDRATION TO FUNCTIONAL BENEFITS

Bottled water has performed well in terms of volume and value as consumers look for clean and pure water. Furthermore, millennials do not live in the same place for long periods of time and prefer consuming bottled water rather than installing water purifiers in every residence.

RISE IN ADOPTION OF BULK PACKAGED WATER BY INDIANS

Consumers in India especially in metro and first-tier cities are shifting from traditional sourcing of drinking water from tap using water purifiers to 20-litre bulk packaging. The shift to bulk water is driven by limited supply of drinking water by municipalities and large floating populations in urban centers preferring to purchase bulk water rather than installing water purifiers, as these have to be serviced and filters have to be changed on a regular basis.

ENTRY OF NEW PREMIUM WATER PLAYERS WITH FOCUS ON METRO CITIES

Rising disposable incomes and changing lifestyles in metro cities of India have created new opportunities for bottled water players to introduce premium water brands in metro cities. People in these cities are brand conscious, sophisticated and prefer premium products.

COMPETITIVE LANDSCAPE

KEY BOTTLED WATER MANUFACTURERS REPORT ROBUST GROWTH IN HIGHLY FRAGMENTED CATEGORY

Bottled water in India is highly fragmented with only eight key players with pan-India distribution namely Bisleri, Coca-Cola India, PepsiCo India, Dharibal Group, Narang Beverages, Aquasure, Himalayan and Kingfisher. These players and their brands have been able to gain the trust of consumers and have been able to outperform regional players.

INCREASING PLAYERS IN FUNCTIONAL WATER

Functional water in India is expected to grow and more companies are also entering this space; up to 2015, only one player operated in functional water. In 2016, the segment witnessed entry of multiple players including PepsiCo, Narang, Tata Global Beverages, Coca-Cola, Jeevika, Beltek Canadian, Volvic and Danone.

VARIOUS FACTORS LEADING TO GROWTH OF BOTTLED WATER

- Burgeoning Population

- Rapid Urbanization

- Phenomenal increase in Tourism

- Growing awareness about drinking water safety

- Inability of central local government to provide clean drinking and safe draining water

- Strained government resources

DISRUPTIVE MARKET

In between there were numerous reports of inferior quality brands, duplications of the product, counterfeit products, recycling of bottles, utilization of tap water. Even well known brands had a tough time with reports of inferior quality involving them started making rounds.

As per a report, there are close to 200 bottled water brands in India. Nearly 80 per cent of these are local brands, which are not safe to drink.

In what would come as a jarring statistic for the billion-dollar packaged water industry, three out of ten units of so-called mineral water sold across India have been found to be contaminated. This was revealed by C R Chaudhary, Minister of Consumer Affairs, Food and Public Distribution, Government of India while replying to a question in Parliament on 12th March 2018.

The Minister stated that the Food Safety and Standard Authority of India (FSSAI) had undertaken an exercise to test 743 samples in 2016-17. Out of these samples, almost a third, or 224 samples of packaged water were found to be not conforming to safety standards set in India.

Also, global scenario is alarming with 90% bottled water brands contaminated. A recent report (March 2018), led by Orb Media, a US-based non-profit, revealed widespread contamination with plastic debris including polypropylene, nylon, and polyethylene terephthalate (PET). The findings suggest that a person who drinks a litre of bottled water a day might be consuming tens of thousands of microplastic particles each year. In fact, plastic was identified in whopping 93 per cent of the samples. Particle concentration ranged from zero to more than 10,000 in a single bottle.

It is essential for our customers to have a safe and easy tool protecting against buying fake water, and to know the water source and its specification.

Other bottled water manufacturers nowadays try to protect their product by using bottles of complex shape, some specific caps, holograms or digital codes for online verification, spending lots of resources and offering comprehensive solutions to their customers.

Blockchain technology is where we have found the most efficient solution for Himalayan equivalent pure form of drinkable and mineral water's authenticity, verification and shipment control.

How can Aquaoin solve India's water crisis?

India faces quite a bad water situation, as a large part of the population does not have access to proper drinking water. Most of the Indian water bodies get polluted with organic and hazardous pollutants. Moreover, there are interstate disputes over river waters. With

a steadily increasing population that will reach an estimated 1.7 billion by 2050, there is a dire need to find ways to provide clean drinking water. Groundwater is not considered a sustainable source, as it may end one day due to over extraction. This leads to a need to improve our wastewater treatment as well as desalination. Here is an ultra-modern technology developed by Aquaoin, which can be a huge help to the world and India , especially since the country has a large part of its borders, linked to seas and oceans.

Main Characteristics Features of Aquaoin/AQN

1. AQN (Aquaoin Token) represent stockpile of Aquaoin, the trade mark of best drinking water produced and supplied to the world's most promising markets.

2. The AQN technology/machine will produce Drinking Water according to WHO (World Health Organization) Water standards in environmentally compliant paper packaging units to shun plastics packaged bottles completely from the market.

3. India's first Blockchain technology based Himalayan equivalent pure form of drinkable and mineral water with authenticated verification and shipment control.

4. Blockchain technology ensures 100% protection against a counterfeit product, water safety and quality control by confirmation of the place of origin and a transparent chain of supply to the end-user.

5. The state-of-art technology is self-contained, independent and automatic.

6. It can connect to any possible Water source (rivers, lakes, oceans, brackish water, wells, and more.

7. It is an Independent energy source.

8. It is available in all size and measurement to cater all kinds of demand and supply

9. Aquaoin tokens (AQN) based on Ethereum-based blockchain.

10. Each batch of water is labelled with a unique QR code generated based on the blockchain data. Whenever water is shipped from the warehouse, it will be registered in the system, with the tracking information entered the blockchain.

11. Upon arrival at a destination point, the tracking information will be re-registered in the system. From that moment, the water is located at the warehouse.

12. The labelling bottles with a unique QR code used along with the blockchain enables water verification and makes it possible to quickly prove authenticity to anyone and anywhere in the world.

13. We are creating a new open marketplace of genuine natural water, where we will be utilizing all forms of water by recycling.

14. It is our endeavor to work under Indian government's flagship programmed 'Make in India' so that the developed technology/machine could be used by all i.e. State, City, Zone, Home, Individual with cheapest of price prevailing in the market.

15. Paper materials would be used to package Aquaoin to eliminate the risk of plastic decomposition.

3. WATER ISSUES

Water Problem in India

163 Million People Lack Access to Safe Water

India is now facing a water situation that is significantly worse than any that previous generations have had to face. All Indian water bodies within and near population centers are now grossly polluted with organic and hazardous pollutants. Interstate disputes over river waters are becoming increasingly intense and widespread. Not a single Indian city can provide clean water that can be consumed from the tap on a 24×7 basis.

Surface water conditions are bad. However, the groundwater situation is even worse.

Groundwater extraction is growing and has become increasingly unsustainable. Consequently, in many parts of the country, groundwater levels are declining steadily. In some parts, the levels are declining by more than one metre per year. A lack of proper wastewater treatment from domestic, industrial, and mining sources has meant that groundwater is being progressively contaminated by known and unknown pollutants, increasing the potential health risks to humans and ecosystems.

India now uses more groundwater than China and the United States combined.

In 2009, studies by NASA reported that the Indus basin was the second-most over-stressed aquifer in the world.

Unless urgent steps are taken to manage groundwater scientifically, there will be adverse implications for India's food, water, energy, environment, and health sectors. Nearly half of India's jobs are now in the agricultural sector. If the current trends continue, by 2030 nearly 60% of Indian aquifers will be in a critical condition. This means that some 25% of the agriculture production will be at risk. This would aggravate India's employment situation.

In the list of 122 countries rated on quality of portable water, India ranks a lowly 120. Although India has 4% of the world's water, studies show average availability is shrinking steadily. It is estimated that by 2020, India will become a water-stressed nation. Nearly 50% of villages still don't have any source of protected drinking water.

The ground reality is that of the 1.42 million villages in India, 1, 95,813 are affected by chemical contamination of water. The quality of ground water which accounts of more than 85% of domestic supply is a major problem in many areas as none of the rivers have water fit to drink.

37.7 million people–over 75% of whom are children are afflicted by waterborne diseases every year. Overdependence on groundwater has brought in contaminants, fluoride being one of them. Nearly 66 million people in 20 states are at risk because of the excessive fluoride in water.

Arsenic is the other big killer lurking in ground water putting at risk nearly 10 million people. The problem is acute in West Bengal. The deeper aquifers in the entire Gangetic plains contain arsenic.

High nitrate content in water is another serious concern. Fertilizers, septic tanks, sewage tanks etc are the main sources of nitrate contamination.

Health is not the only issue; impure water is a major burden on the state as well. Till the 10th plan the government had spent Rs 1,105 billion on drinking water schemes. Yet it is the poor who pay a heavier price spending around Rs 6700 crore annually on treatment of waterborne diseases.

There is an urgent need to look for alternative sources of portable water in places where water quality has deteriorated sharply. Corporate world and entrepreneurs' like Aquaoin should be encouraged to look at out-of-box methods of protecting, harvesting and recycling of water sources so that they can minimize the demand of 'Water 2 All'.

4. SMART MACHINE WATER SOLUTION

A new machine that recycles water into pure drinking aqua has been a long quest. There have been some very successful systems, but they tend to be large, cumbersome, requiring high levels of energy, and high tech. This project will look for a smart technology which can take forward the objective of the company to meet the desired result.

Based on W2A (Water 2 All) parameters, our team will develop custom made technology to manufacture a smart machine that will produce water based on the same natural processes and using minimal energy, but that will be more effective, efficient, and productive than the prevailing technologies available in the world. The system will be engineered to be as simple and durable as possible to withstand the rigors of independent operation in harsh environments around the world for long periods. The machine will also be designed for simplicity of operation, so it can be used by anyone – no technology skills required.

4.1 PRODUCT DESCRIPTION

The basic product is envisioned as a portable, self-contained, energy-efficient, reliable smart machine to efficiently extract and supply fresh water from the waste water available around us. The machine will be solar powered when needed, and would be usable in nearly any environment. The concept is scalable for machines from family size to village size to city size, as needed to meet the need. The system will self-monitor and report atmospheric conditions, system status, and any maintenance alerts by utilizing the IOTA Blockchain protocol.

W2A is ready to commence R&D when funding is obtained. Among other factors, the R&D effort will determine upper and lower limits for temperature and humidity to ensure minimum water production, optimize component design and operating parameters, develop an appropriate solar power supply, and make the system rugged and dependable.

4.2 SCALABILITY

As funding permits, company will also develop a larger unit to provide the water needs for a group of families, or a village. A larger unit has different challenges, but must still be solar powered, rugged, and easily transportable. It also must produce, collect, and store a larger volume of water that is easily dispensed to the user. Such a unit would be useful as an emergency water supply following natural disasters, to replace a well or an unreliable municipal water supply, as a shipboard water supply, and more.

Depending on funding, W2A also endeavors to prototype a municipal-size unit that can be incorporated into a city's existing water system. This would be a fixed installation system feeding its production directly to a city water supply, augmenting their existing water sources – wells, rivers, desalination, etc. Each installation could be optimized for the individual location to maximize water production. This would be a boon to areas short on water resources but with plentiful humidity, such as coastal areas, remote cities, or deserts with high overnight humidity.

4.4 COMMERCIALIZATION

Our name is based on the concept of providing 'Water to All'! We will use every opportunity for live demonstrations, because people will believe what they can see for themselves. We will aggressively engage with social media, and use the internet to spread worldwide awareness of the product.

This is not just a product for the developing nations, there are many developed countries where water availability is not assured. Where possible, we will work with existing retail networks, such as QVC, Walmart, Amazon, Souq.com, Noon.com, Alibaba, and others, to sell and deliver the machine.

At the back end of the R&D effort, an appropriate management team will be put in place to select the appropriate manufacturer, as well as the distribution channels to maximize the sale of the products.

We will work with government and non-government organizations (NGO) providing disaster relief and water assistance around the world. When a working prototype is developed, our intention is build a fleet of them to deploy to disaster areas as rapidly as possible, such as post-flood and post-earthquake water supply.

We will put these units into production for free to supply fresh water. Those people all need drinking water, and they need it now. Our systems will help people in need, provide positive

4.5 WATER TO ALL GOALS

There are six key goals for Water 2 All:

1. Obtain ICO funding.

2. Conduct R&D effort, scaled to make best use of the funding, to optimize system design to maximize water production and minimize portable machine cost.

3. Optimize design to maximize production to meet the daily needs of a family.

a. Determine upper and lower limits for temperature and humidity, for effective use in varied weather conditions.

b. Test and optimize design for great durability to withstand the rigors of harsh environments.

c. Determine most effective means to tie each unit into a distributed ledger technology platform IOTA to report key parameters and conditions and provide transparency of the data collected.

d. Extensively test system under all possible conditions to determine minimum and maximum operating limits, system durability, power source requirements and capability, and identify opportunities for improvement in any of those areas.

4. Explore manufacturing opportunities.

5. Develop a worldwide distribution network for sales and disaster relief contributions.

6. Finalize design, shipping options, instructions, and other pre-manufacturing issues.

5. WATER TO ALL AQN TOKEN??

The W2A token will be a utility holding for all token holders after the sale. The benefits of this ecosystem would include special rights to view environmental data produced by each smart machine. Ecosystem participants with proof of stake will have the ability to collaborate with smart machine owners to monetize the atmospheric data for sale to research organizations, universities, and government agencies across the planet.

The W2A token will also serve as proof of stake in the ecosystem giving members exclusive discounts and naming rights for donated Smart machines to areas in most need of water.

Each machine collects and produces data which will be transmitted to an IOTA distributed ledger, with a small fee or micropayment for the information transmission, through the W2A token (each machine can be preset with a set amount of W2A tokens when purchased).

The data transmitted by all the machines will be collated and stored in a decentralized repository. Third parties, such as researchers, universities, companies, consumers, etc., that require access to this database will make a micropayment, greater than the payment made for uploading the data.

A predetermined allocation of this fee paid by third parties for access to the database will be retransmitted to the machine uploading the data, the W2A organization, other machines within the predefined region, and all other machines that maintain and validate the W2A ledger.

Participants in the W2A token sale will be eligible to purchase the machine at below market price (for example, at cost price), once the product has come to market.

5.1 TOKEN SALE AND TIMELINE??

Through a sale of the W2A AQN Token, Water 2 All aims to research and refine its prototype to prepare for the commercialization and manufacturing stage. The ICO will be hosted on the Aquaoin.IO website, with pre-sale bonus rounds to provide investors with enhanced and discounted ownership for early-stage contribution.

Token Offerings

Total no of coins are 40 million, out of which only 21 million coins will be sold through ICO and rest 19 million will be utilized for escrow resources.

• The campaign will offer for **Pre-sale** to participants 10% of the total supply of 40,000,000 (40 million) tokens sale at $1.00 per token from 1st May 2018 and end on 7th May 2018, with 35 % bonus offered in Presale period or

earlier if all tokens are sold out or the sale could be extended by the management team for strategic positioning.

• The **Crowd Sale (9th June 2018 – 15 June 2018) Under Crowd Sale below process will followed**

Next 20% (8 Million) Token will be priced at $1.00 each token and token holder will get 10% additional credit as a bonus.
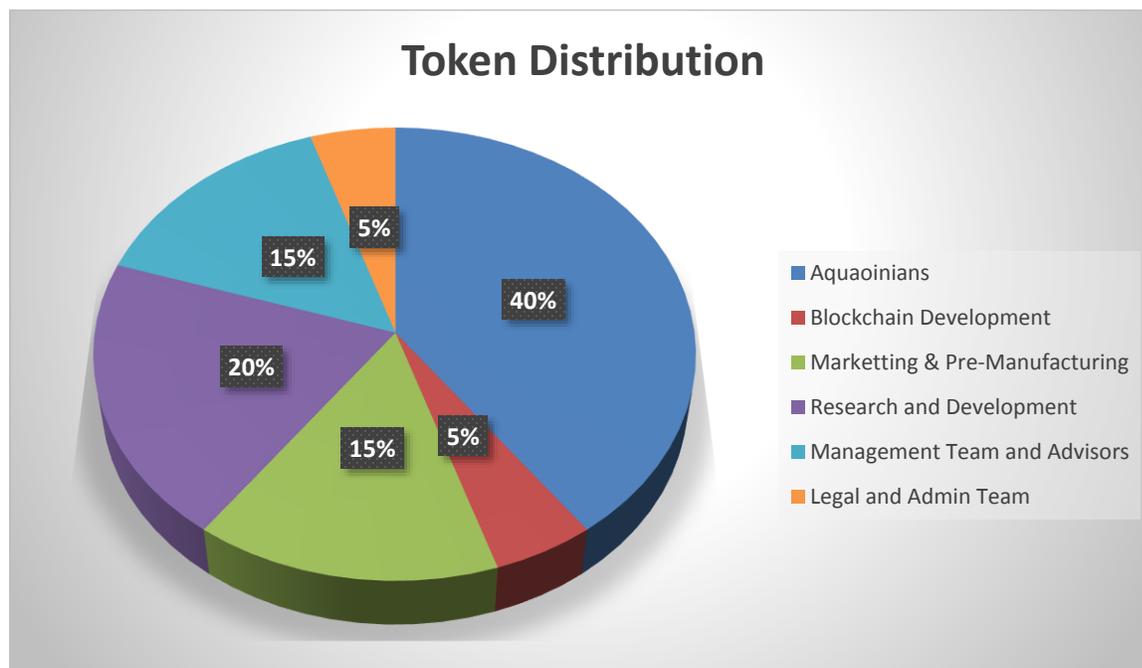
Next 15% (6 Million) token will be priced at $1.50 each token and token holder will get 5% additional credit as a bonus.

Remaining 4.75% tokens will be priced at $2.00 each token.

• **Contributions can be made through Bitcoin wallet address or Ether (via MyEtherWallet.com) or Bitcoin Cash Wallet on the Water2All AQN token sale page.**

5.2 FUNDS UTILIZATION??

The W2A AQN Token will be distributed in the following manner:

Token Distribution
- Aquaoinians — 40%
- Blockchain Development — 5%
- Marketting & Pre-Manufacturing — 15%
- Research and Development — 20%
- Management Team and Advisors — 15%
- Legal and Admin Team — 5%

6. R&D ROADMAP

'Water 2 All' has successfully completed extensive experimentation of a proof of concept system, which far exceeded expectations for water production. The next major stages include the ICO completion, research and development, and product commercialization of the smart machine. The timeline below outlines major steps to complete the R&D program and prepare for the product commercialization phase.

TIMELINE WITH GRAPHICS??

DEVELOPMENT PLAN-REVISIT PLAN

22nd April 2018	Website Live and Whitepaper publish
1-7th May 2018	PreSale
9-15th June 2018	Crowd Sale
July 2018	Design documentation development
15th August 2018	Aquaoin token to be tradable and we are currently in talk to get the token listing during this month
October – Dec 2018	Design documentation development
Jan – March 2019	Automation system design and development Completion of Water Plant
April – June 2019	Product branding and Contract Signing with government bodies
July – Sep 2019	Start of marketing campaign in India and Asia, Contract signing with government bodies
Sep – Dec 2019	Start of supplies to India and countries of Southeast Asia

7. TEAM

These teams will coordinate to execute the ICO for Water to All.

7.1 CORE PROJECT TEAM

Our team is composed of experienced entrepreneurs who excel at identifying and developing new opportunities via revolutionary solutions. The founders of the organization have over twenty years of experience working together with a proven track record of building million-dollar companies.

7.2 ADVISORY TEAM: All the member details will be added in website**.**

8. CONCLUSION

'Water 2 All' combines a proven concept to convert waste water into potable water with portability, durability, data collection and monitoring, and cost effectiveness framed within a distributed ledger technology ecosystem to provide an essential human need. We hope you are as passionate as we are, about addressing humanity's looming water crisis. We look forward to you being a part of our journey to bring 'Water 2 All'.

THANKS