



# SMART HYDROPONIC FARM

## White Paper

Antonello Cerviero, CEO & Founder

# INTRODUCTION

The population of the Emirates is expected to expand at a rate of 3 percent per year to exceed 12 million inhabitants in 2024, compared to the current 11 million. Especially young people and working classes are progressively developing new tastes and preferences, driving demand for processed international food products. At the same time, there is a growing frequency of eating meals outside the home as a form of socialization and entertainment.

The GDP per capita of the United Arab Emirates is estimated at over 69,392 dollars (with the same purchasing power) and is among the highest in the world and significantly higher than the average of the advanced economies. As a result, the consumption of food products benefits from the high levels of wealth in the country that fuel strong import volumes as well as foreign direct investments aimed at achieving food security for the country. The United Arab Emirates is an essentially desert country, with an arid climate, scarcity of arable land and water resources and a weight of the primary sector of agriculture and fisheries of less than 1 percent of GDP. As a result, the country is forced to import about 85 percent of its food needs.

World GDP PPP Per Capita (GDP PPP PC) Rankings  
GDP PPP per capita in current prices (International dollars per capita) during 2018

Rank	Country	GDP PPP PC	Rank	Country	GDP PPP PC
1	Qatar	130,475	23	Bahrain	50,057
2	Macao SAR	116,808	24	Canada	49,651
3	Luxembourg	106,705	25	Belgium	48,245
4	Singapore	100,345	26	Oman	46,584
5	Brunei Darussalam	79,530	27	Finland	46,430
6	Ireland	78,785	28	France	45,775
7	Norway	74,356	29	United Kingdom	45,705
8	United Arab Emirates	69,382	30	Malta	45,606
9	Kuwait	67,000	31	Japan	44,227
10	Switzerland	64,649	32	Korea	41,351
11	Hong Kong SAR	64,216	33	Spain	40,139
12	United States	62,606	34	New Zealand	40,135
13	San Marino	60,313	35	Cyprus	39,973
14	Netherlands	56,383	36	Puerto Rico	39,737
15	Saudi Arabia	55,944	37	Italy	39,637
16	Iceland	55,917	38	Aruba	39,319
17	Taiwan Province of China	53,023	39	Israel	37,972
18	Sweden	52,984	40	Czech Republic	37,371
19	Germany	52,559	41	Slovenia	36,746
20	Australia	52,373	42	Slovak Republic	35,130
21	Austria	52,137	43	Lithuania	34,826
22	Denmark	52,121	44	Estonia	34,096

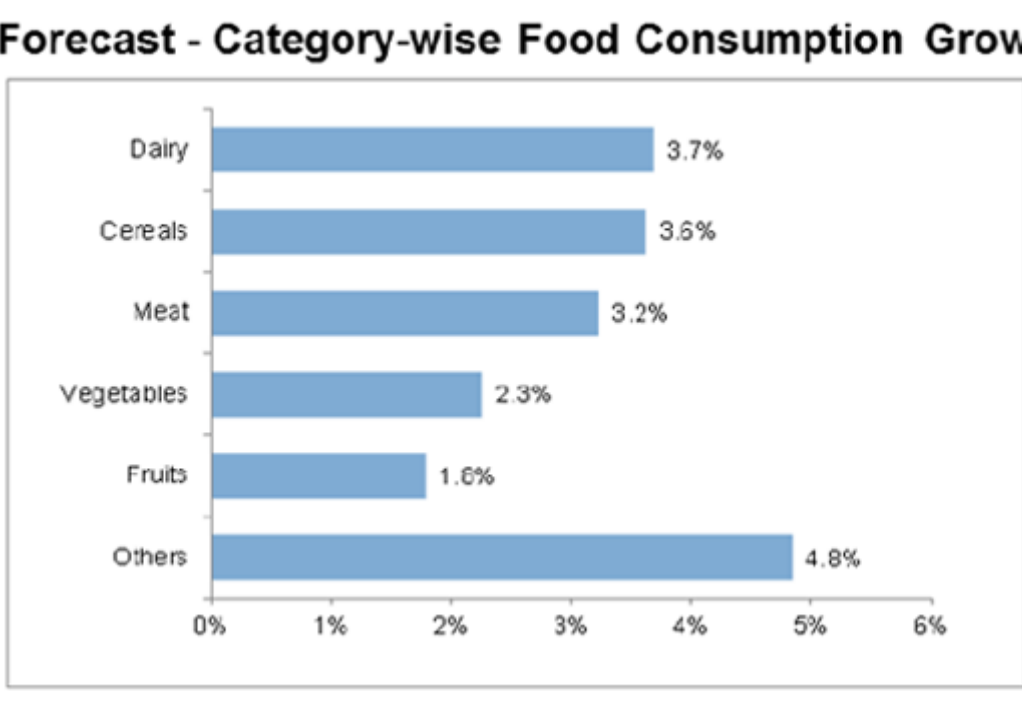
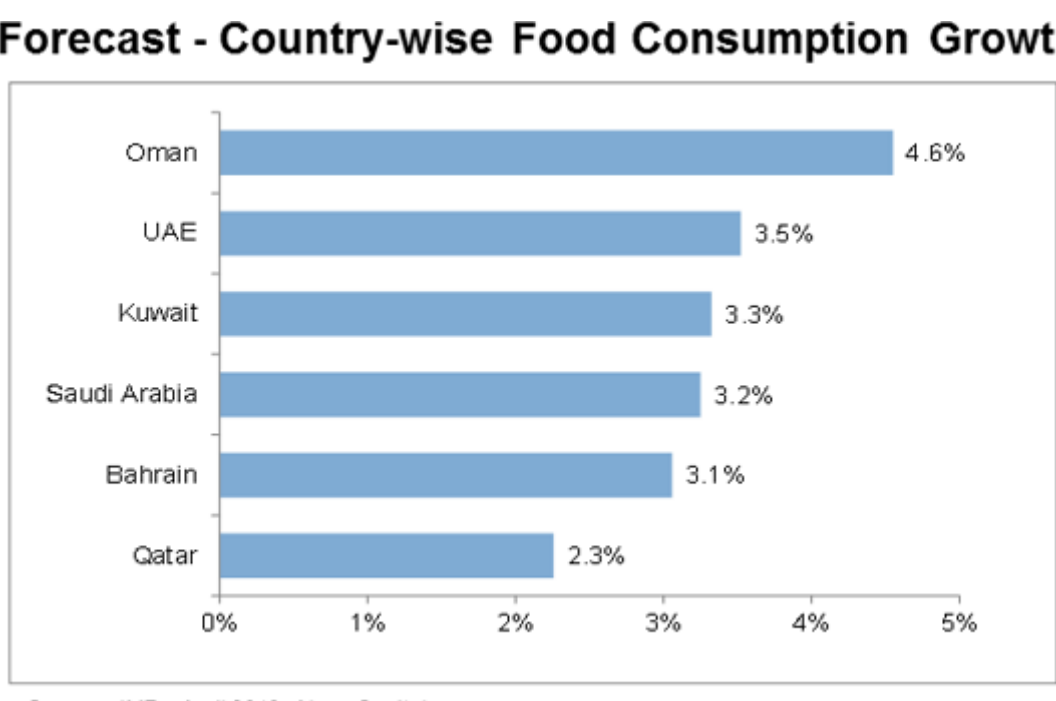
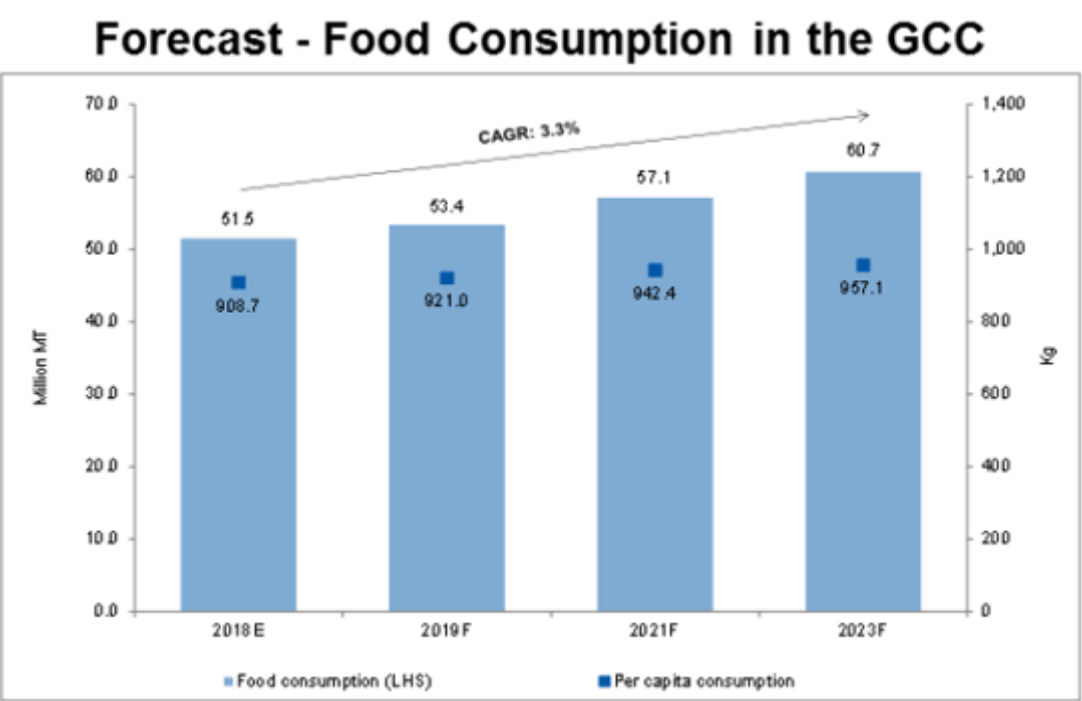
Data Source: IMF World Economic Outlook, April 2019

The United Arab Emirates will remain the largest consumers of food in the Gulf, with a combined share of around 81% by 2023, according to Alpen Capital, a banking and investment consultancy company.

The company has estimated that food consumption in the United Arab Emirates will reach 10.3 million tons by 2030, compared to 8.3 million tons in 2018.

Samina Ahmed, managing director of Alpen Capital, predicted that the GCC food sector will continue to grow at a steady pace due to factors such as population growth, rising incomes, thriving tourism, changes in eating habits and preferences. He also predicted that major upcoming events like Expo 2020 Dubai will help increase food consumption in the region.

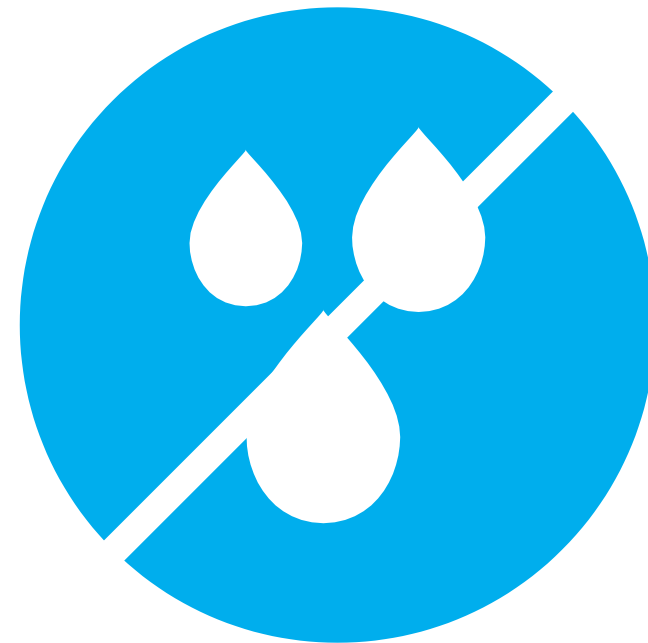
Krishna Dhanak, CEO of Alpen Capital, predicted that the food industry will see steady growth over the next five years, pointing to demographic change, the increase in the number of couples and the growing influence of global culture and its role in promoting the growth.



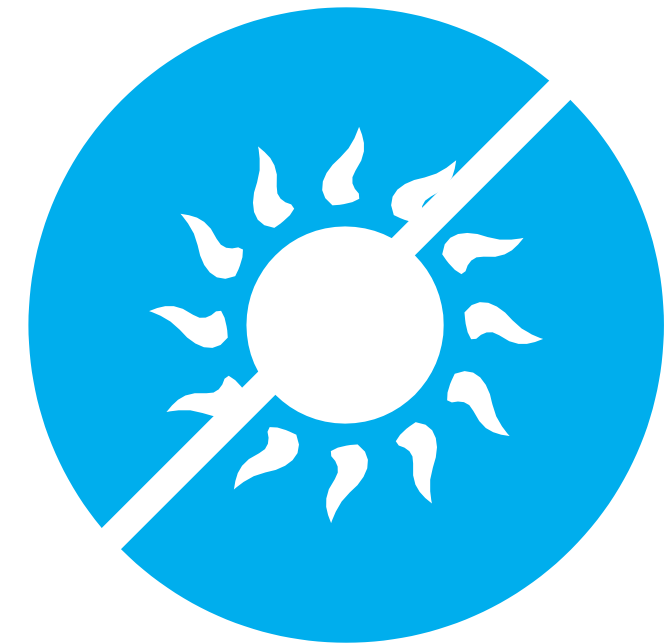
# THE PROBLEMS



LAND  
NOT FERTILE



SHORTAGE  
OF WATER



CLIMATE HOSTILE  
TO CULTIVATION

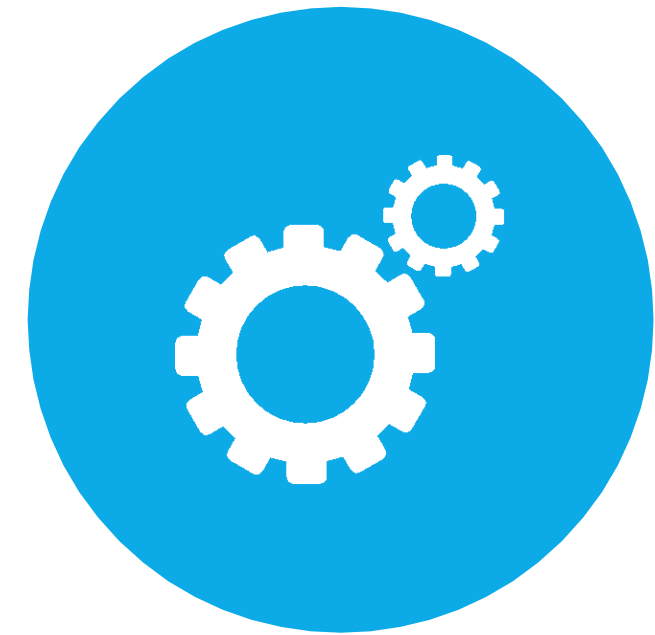
# SOLUTION



SUSTANABLE



SMART



AUTOMATED



# WHAT IS CERVIERO

Hydroponics is a cultivation method where plants grow using nutrient solutions of minerals dissolved in water, without soil, which is replaced by an inert substrate. Which can consist of expanded clay, perlite, vermiculite, coconut fiber, rock wool, zeolite, etc. The plant produced in the nursery, is transplanted on inert supports placed at about 60 cm from the ground, anchored to the aerial structure of the greenhouse, and is irrigated with a nutritive solution composed of water and compounds, mostly inorganic, necessary to bring all the elements essential to normal mineral nutrition.

Inside the greenhouses, long rows of tomatoes, zucchini, peppers, aubergines and lettuce grow on supports spaced about one meter apart.

The space needed for plant care and harvesting operations.

Carbon dioxide fertilization, which combined with oxygen and nitrogen in the air accelerate and multiply photosynthesis, allowing for lush and continuous vegetation throughout the year.

From each seedling two cuttings are grown, one towards the left, the other towards the right with respect to the support line. The two cuttings are made to twist with a thread that is fixed to the top of the greenhouse, at 4.5 meters high, to support them.

At the apex the thread is rolled up to a skein, and as the plant grows, in the lower part it is defoliated and the fruits brought to bare, and gradually reach maturation. And as the plant grows the skein is unrolled and moved 50 cm along the thread to which it is hanging. Thus the maximum height never exceeds the height to which they are hooked, and the part in maturation is always at the same height, the easiest for collection.

Those who do the lengthening of the skein, remove the axillary thalli, the leaves in excess and also perform the calibration of the bunches, removing, shortly after the setting, the supernumerary products. In this type of cultivation the quantity of water used, for the same production, is about one tenth compared to the cultivation in soil. The environmental aspect should not be underestimated since the use of fertilizers is targeted and there are no dispersions in the soil, while the use of herbicides is absent.

They do not use insecticides. But other insects, such as bees and bumblebees, that are in boxes distributed between the rows, which fight harmful insects. And where they don't come with other insects, they use baits and traps, with the basin in the picture.

Otherwise, targeted interventions with the brush are made with clay-based preparations.

The essential control parameters are five:

- The first is certainly the PH. Its balance is fundamental to maintain the state of solubility of the elements and optimize the exchange processes between the roots and the nutrient solution. A PH that differs from the optimal range worsens the nutritional status of the plants due to the chemical or physiological immobilization of one or more mineral elements.
- The concentration of the nutrient solution is controlled by controlling the electrical conductivity. A low conductivity is correlated to an excessive dilution of the solution, therefore the plants are in conditions of deficient mineral nutrition.
- Flow rate, timing and dispensing cycles: Mineral nutrition control is done through the correct management of the flow rate and timing of the nutrient solution, which regulates the exchange of the solution in contact with the roots.
- With the chemical composition of the solution, the nutritional balance of the plants compared to the various nutrients, the antagonism ratios between potassium and alkaline-earth metals and the solubility of the various salts are controlled. Since the plants require different fertilization ratios in relation to the species, the type of production and the quantitative and qualitative yield ratio of the product, the composition of the solution is fundamental for achieving the objectives.  
For the preparation of the solutions, fertilizers with high solubility in water must be used.
- Finally we have control of temperature and humidity inside the greenhouse.



# WHAT IS

HYDROPONIC CERVIERO IS A CULTIVATION AND IRRIGATION INNOVATIVE SYSTEM THAT ALLOWS PLANT CULTIVATION ONTO THE GROUND AND OUT THE EARTH.





# WHY CERVIERO

THE INNOVATION OF CERVIERO SYSTEM RESIDES IN THE INTERNET OF THINGS, THAT IS THE CAPACITY TO MAKE ALL COMPANY SOFTWARE AND HARDWARE INFORMATIC SYSTEM INTELLIGENT AND FULLY CONNECTED BETWEEN EACH OTHER.

WE BELIEVE THAT IT IS A FARMING SOLUTION, BENEFICIAL WELL SUITED FOR THE UAE'S CLIMATE, ITS CONSUMERS, AND ALSO HAS THE POTENTIAL TO THRIVE IN THE MARKET.





# STRENGTHS



500%

MORE PRODUCTIVITY THAN  
EARTH CULTURES



90%

LESS OF WATER  
CONSUMPTION



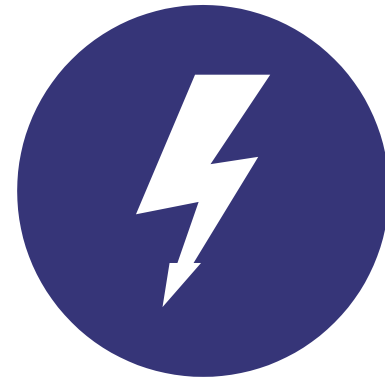
50%

FASTER GROWTH

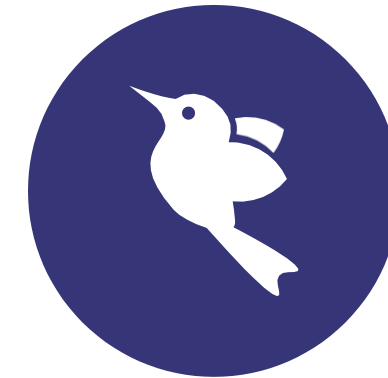
# OTHER IMPORTANT STRENGTHS



40% LESS WORK



30% LESS ENERGY  
REQUIRED



100% ORGANIC  
FERTILIZERS



KM ZERO



CONSTANT AND  
CONTROLLED  
PRODUCTION  
THROUGHOUT THE YEAR



MADE IN ITALY



# LOCATION

## KHALIFA INDUSTRIAL ZONE

IT IS GREAT POSITION  
STRATEGICALLY AND LOGISTICALLY.

- 80 KM FROM DUBAI
- 60 KM FROM ABU DHABI
- 180 KM FROM RAS AL KHAIMAH
- 190 KM FROM FUJAIRAH
- 120 KM FROM AJMAN
- 110 KM FROM SHARJAH
- 140 KM FROM UMM AL QAYWAYN





# BLOCKCHAIN

It is a secure transactional register, shared by all the parts that operate within a given distributed network of computers connected to each other via the Internet, through a dedicated application that allows interfacing with the "chain", made up of data blocks that store transactions. It records and archives all the transactions that take place within the network, through a validation process that guarantees its authenticity and integrity, thanks to the mechanism of distributed consent.

## THE CHARACTERISTICS OF THE BLOCKCHAINS

**Digital.** Currency, contracts, documents, in the Blockchain everything becomes digital and the transactions included in the chain can relate to any asset, any right or container of value and information.

**Safety.** Thanks to the encryption process that characterizes it, it is not possible to change or make changes to the blocks already inserted in the chain; the data saved in it are therefore safe, certain and not manipulable.

**Trusted.** Being chronologically organized (the blocks are added to the chain according to a precise and unchangeable chronological order) it prevents the emergence of disputes regarding the execution, for example, of the different phases of a contract.

**Reliable.** Its technical characteristics prevent any loss of data or damage: if even one of the nodes in which the chain is saved is damaged, the others will continue to function keeping the chain stable, without any loss of data.

**Fast.** It does not require a central entity that verifies its congruity and validity, this occurs by consensus of the network, and being a completely digital solution eliminates execution times, checks, paper, back-office and operational risks.

# WHY THE BLOCKCHAIN IN AGRIFOOD?

Blockchain technology is born in the financial sector but its application has an even greater potential if applied to industry and, in particular way, to food:

**COUNTERFEITING** - \$600 billion total \$65 billion for «Italian Sounding», of which \$27 billion only in the United States (data: Federalimentare)

**WASTE AND INEFFICIENCY OF THE SUPPLY CHAIN** - 1.3 billion tons of waste. That is 33% of world food production (data: FAO - UN)

**CYBERSECURITY** - 74% of the world's companies will be hacked every year (Brad Smith - Microsoft)

The unconditional trust of consumers in food products has long been compromised by numerous scandals (Horse Meat, Brazilian Meat for to mention a few) and the demand for full traceability is becoming stronger.

Companies can no longer rely on generic terms such as "healthy" or "organic" to signal value: the new generation of consumers wants to know the history of food in an "also" that is not printed on the label, otherwise it goes to look elsewhere.

The Blockchain provides a method to validate these previously unfounded claims, strengthening customer loyalty for those companies that can constantly guarantee the quality of their products.

Through the use of a simple **QR Code** and a **smartphone**, customers can scan a package at the point of sale and receive a complete and complete chronology of their food path "**From Farm to Fork**".

This is particularly useful in gray areas of food traceability such as **country of origin labeling**.



## FOOD SAFETY AND BLOCKCHAIN

Blockchain makes the supply chain more transparent to a whole new level. Furthermore, it allows the whole chain to be more responsive to any food safety incident.

Walmart, which sells 20% of all food in the United States, has recently completed two pilot blockchain projects.

Before using Blockchain, he conducted a traceback test on mangoes in one of his stores. It took six days, 18 hours and 26 minutes to trace the mangoes from the farm of origin.

Using Blockchain, it can provide all the information the consumer wants in 2.2 seconds.

## PREVENT FRAUD

Most compliance data is currently verified by reliable third parties and stored on paper or in a centralized database.

These databases they are extremely vulnerable to informational inaccuracies, hacking, high operating costs and intentional errors motivated by corruption and behavior fraudulent.

Blockchain operates anonymously, records are maintained permanently, so errors are attributable to the individual culprits and this function it is not at all trivial for the search for responsibilities and for the solution of crises.

## FAIR PAYMENT AND FASTER

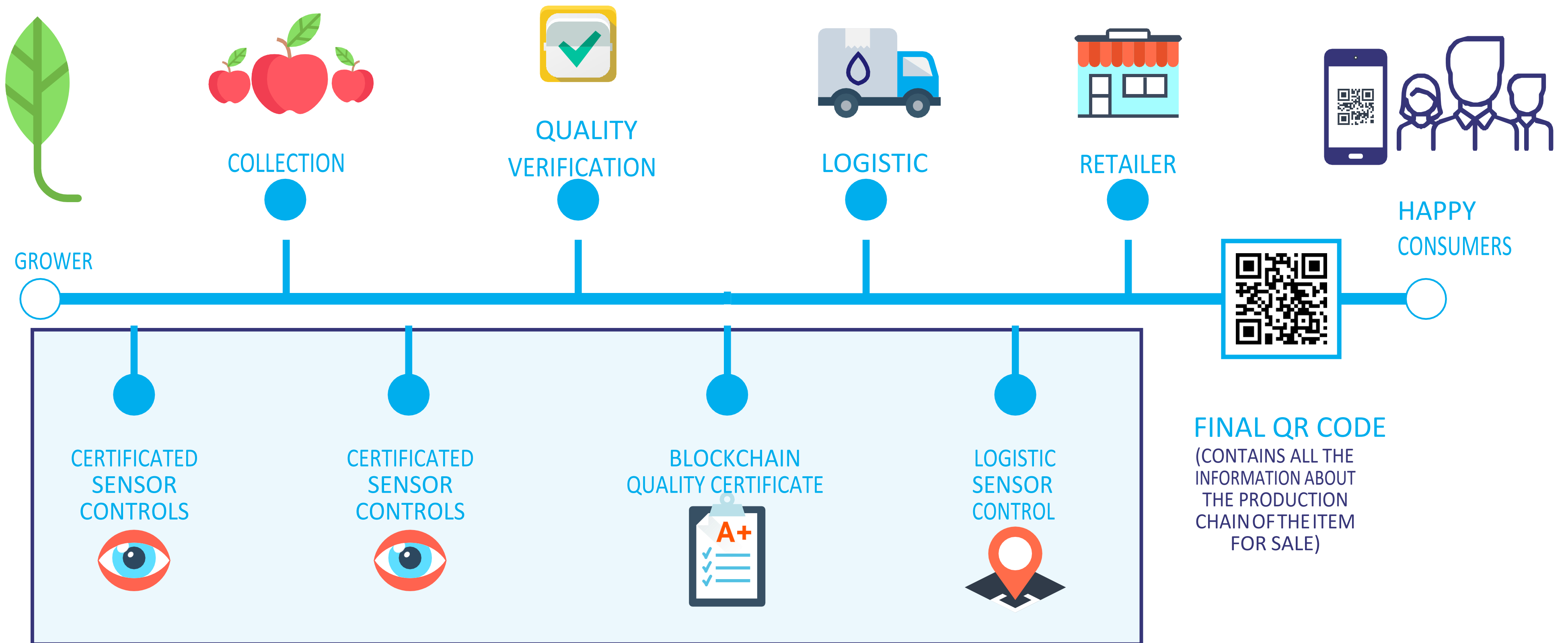
Blockchain allows all supply chain actors to be paid faster as market data would be readily available and validated, preventing the coercion of prices and retroactive payments, common in the food supply chain.

Blockchain technologies could "Uberize" the agri-food sector by eliminating intermediaries and lowering transaction fees.

This can lead to fairer pricing and even help smaller companies to find more attention to the market.

# BLOCKCHAIN TECHNOLOGY INTEGRATION

INTEGRATION OF BLOCKCHAIN TECHNOLOGY AS A TRACEABILITY SYSTEM FOR THE POST-PRODUCTION PRODUCT



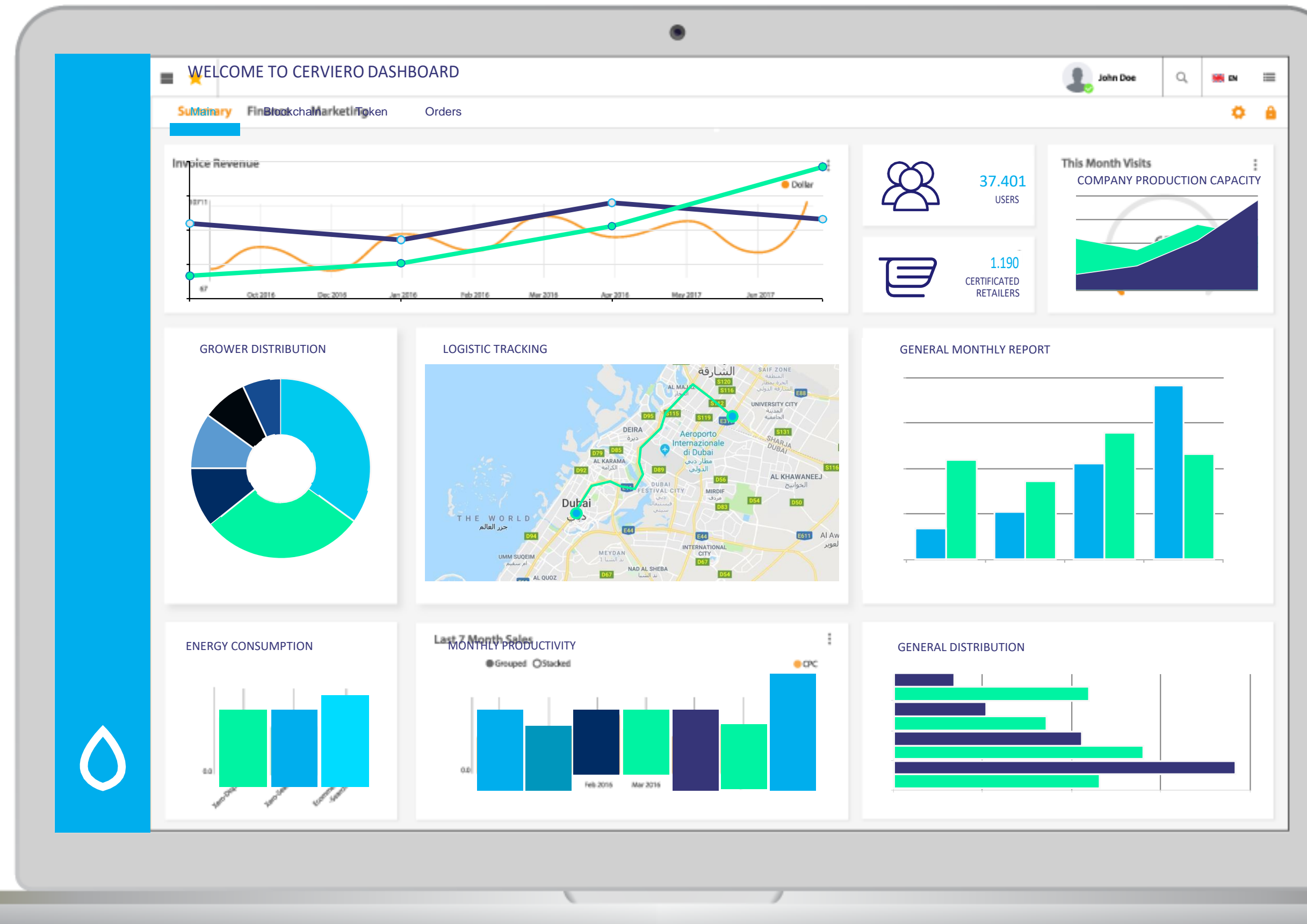
INFORMATION PRINTED ON THE BLOCKCHAIN (IMMUTABLE)  
AS A GUARANTEE OF THE PRODUCTION AND SUPPLY CHAIN

OPEN SOURCE

# DASHBOARD

A CONTROL PANEL CAPABLE OF  
SHOWING ALL THE DATA IN  
REAL TIME AND TRACKING ON  
THE BLOCKCHAIN

ITS HIGHLY FUNCTIONAL BLOCKCHAIN  
INTEGRATION TECHNOLOGY, EASY TO  
USE AND SECURE.



THE DASHBOARD WILL SHOW DATA ON PRODUCTION, DISTRIBUTION, WAREHOUSE,  
COMPANY PRODUCTION CAPACITY, PRODUCT QUALITY, PRODUCT CHARACTERISTICS, ETC...



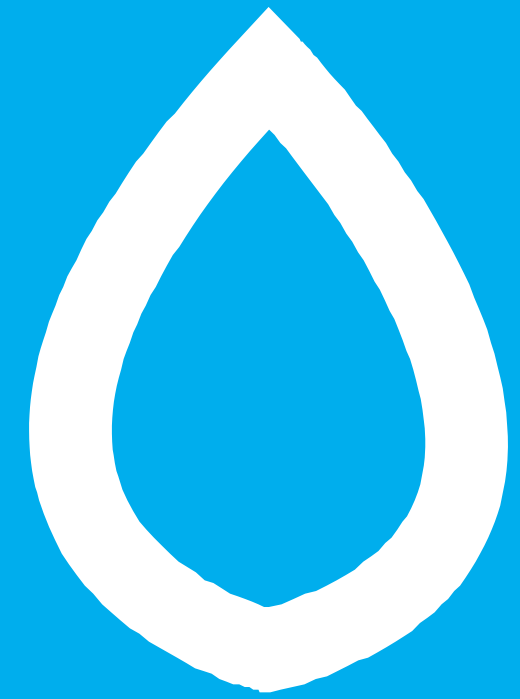
OUR MISSION

# TRANSPARENCY FIRST



cerviero

# THE TOKEN (AQUA) AS PAYMENT SYSTEM



**aqua**

# MAIN CHARACTERISTICS OF TOKEN:

NAME: AQUA

TPOLOGY: UTILITY TOKEN\*

TOTAL SUPPLY: 100.000.000

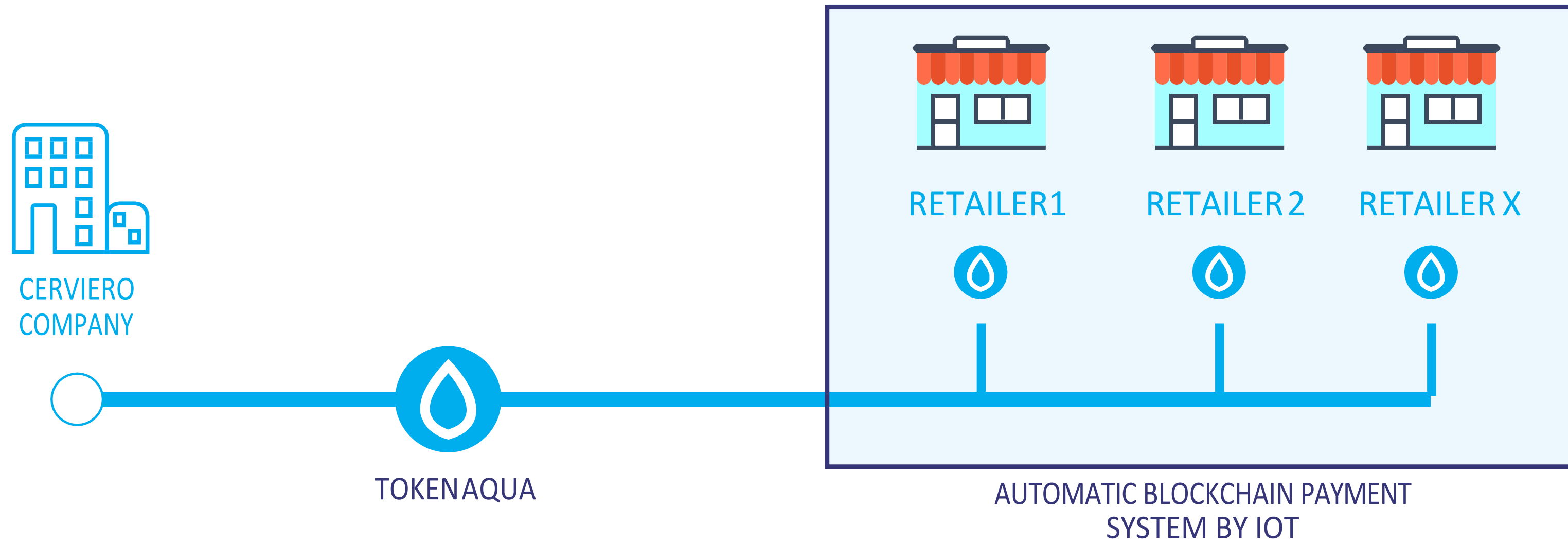
INITIAL VALUE: 0,21 US\$

\* WHAT IS A UTILITY TOKEN?

DEFINITION OF UTILITY TOKEN.: A DIGITAL TOKEN OF CRYPTOCURRENCY THAT IS ISSUED IN ORDER TO FUND DEVELOPMENT OF THE CRYPTOCURRENCY AND THAT CAN BE LATER USED TO PURCHASE A GOOD OR SERVICE OFFERED BY THE ISSUER OF THE CRYPTOCURRENCY  
SOLD UTILITY TOKENS AS A METHOD OF FUNDRAISING FOR THE START-UP.



# INTEGRATION OF BLOCKCHAIN TECHNOLOGY AS A PAYMENT SYSTEM BETWEEN MANUFACTURER AND DISTRIBUTOR



\*FOR AQUA CRYPTOCURRENCY PAYMENTS IT WILL BE POSSIBLE TO HAVE A DISCOUNT ON THE FINAL PRICE (10% DISCOUNT)

# CROWDSALE DETAILS

The Aqua crowdsale and the corresponding token creation process will be issued by CERVIERO FZ-LLC, a UAE Company, and will be organized around smart contracts running on Ethereum.

Participants willing to support the development of the Aqua Project can do so by sending via the exchange launchpad. By doing so, they are purchasing Aqua Tokens (AQUA).

- The accepted currency is Ether, Bitcoin and USDT.
- The creation will be capped upon receipt of 100.000.000 AQUA Token equivalent to USD 22m.
- Token Creation has a hard cap: upon achieving this cap, token creation will stop and no further contributions will be accepted. The hard cap amount is USD 22m.

Issuer CERVIERO FZ - LLC	Jurisdiction of Issuance UAE
Legal qualification	Utility Coin, not a security
Hard Cap	USD 22m
Maximum number of tokens generated	100.000.000
% of tokens generated to Cerviero team	10%
% of tokens generated for future company financing	10%
Date of crowdsale start	January 2020

AQUA Tokens

The AQUA token will be an Ethereum-based token of value. The token is a digital asset, bearing value by itself based on its underlying assets, properties and/or associated rights.

Ethereum-based tokens rely on a well-established Ethereum infrastructure, benefiting from several advantages:

- Security and predictability (as opposed to, for example, having to run an independent blockchain network).
- Use of robust and well-supported clients (Ethereum-based tokens can be managed with official Ethereum clients).
- High liquidity (interchangeable with other Ethereum-based tokens or Ether), easier listing on exchanges with infrastructure already in place.

Our Ethereum-based token contract complies with the ERC20 standard.

INCENTIVE PROGRAM

You can even get a 10% discount if you use AQUA coin to pay product.

# INVESTMENT REQUIRED

22

MIO





**TECHNOLOGY AND PLANT ENGINEERING 9 MIO**

**LOCATION 4,5 MIO**

**MEANS OF TRANSPORT 1 MIO**

**MARKETING 2 MIO**

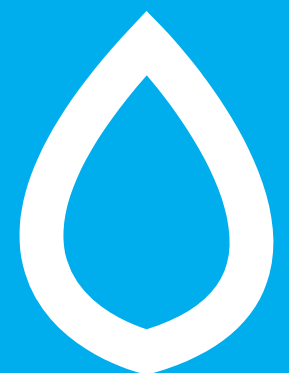
**TEAM 2 MIO**

**R&D 0.5 MIO**

**IT 0.5 MIO**

**EXTRA 0.5 MIO**

**LAUNCHPAD SALES 2 MIO**







# PROFITS

SALE OF  
CULTIVATED  
PRODUCT KM0



SAVING ON IMPORTS



SAVING ON  
WATER WASTE



# LEGAL

## GENERAL INFORMATION

The AQUA token does not have the legal qualification of a security, since it does not give any rights to dividends or interests. The sale of AQUA tokens is final and non-refundable.

AQUA tokens are not shares and do not give any right to participate to the general meeting of CERVIERO FZ-LLC.

AQUA tokens cannot have a performance or a particular value outside the AQUA Platform. AQUA tokens shall therefore not be used or purchased for speculative or investment purposes.

The purchaser of AQUA tokens is aware that national securities laws, which ensure that investors are sold investments that include all the proper disclosures and are subject to regulatory scrutiny for the investors' protection, are not applicable. Anyone purchasing AQUA tokens expressly acknowledges and represents that she/he has carefully reviewed this white paper and fully understands the risks, costs and benefits associated with the purchase of AQUA.

## KNOWLEDGE REQUIRED

The purchaser of AQUA tokens undertakes that she/he understands and has significant experience of cryptocurrencies, blockchain systems and services, and that she/he fully understands the risks associated with the crowdsale as well as the mechanism related to the use of cryptocurrencies (incl. storage). CERVIERO shall not be responsible for any loss of AQUA tokens or situations making it impossible to access AQUA tokens, which may result from any actions or omissions of the user or any person undertaking to acquire AQUA tokens, as well as in case of hacker attacks.



## RISK

Acquiring AQUA tokens and storing them involves various risks, in particular the risk that CERVIERO FZ-LLC may not be able to launch its operations and develop its blockchain and provide the services promised. Therefore, and prior to acquiring AQUA tokens, any user should carefully consider the risks, costs and benefits of acquiring AQUA tokens in the context of the crowdsale and, if necessary, obtain any independent advice in this regard. Any interested person who is not in the position to accept or to understand the risks associated with the activity (incl. the risks related to the non-development of the AQUA platform) or any other risks as indicated in the Terms & Conditions of the crowdsale should not acquire AQUA tokens.

## IMPORTANT DISCLAIMER

This white paper shall not and cannot be considered as an invitation to enter into an investment. It does not constitute or relate in any way nor should it be considered as an offering of securities in any jurisdiction.

This white paper does not include or contain any information or indication that might be considered as a recommendation or that might be used as a basis for any investment decision. AQUA tokens are just utility tokens which can be used only on the AQUA platform and are not intended to be used as an investment. The offering of AQUA tokens on a trading platform is done in order to allow the use of the AQUA platform and not for speculative purposes.

The offering of AQUA tokens on a trading platform does not change the legal qualification of the tokens, which remain a simple means for the use of the AQUA platform and are not a security. CERVIERO FZ-LLC is not to be considered as an advisor in any legal, tax or financial matters. Any information in the white paper is provided for general information purposes only and CERVIERO FZ-LLC does not provide any warranty as to the accuracy and completeness of this information.

CERVIERO FZ-LLC is not a financial intermediary according to Swiss law and is not required to obtain any authorization for Anti Money Laundering purposes. Acquiring AQUA tokens shall not grant any right or influence over CERVIERO FZ-LLC organization and governance to the Purchasers. Regulatory authorities are carefully scrutinizing businesses and operations associated to cryptocurrencies in the world. In that respect, regulatory measures, investigations or actions may impact CERVIERO FZ-LLC business and even limit or prevent it from developing its operations in the future. Any person undertaking to acquire AQUA tokens must be aware of the CERVIERO FZ-LLC business model, the white paper or terms and conditions may change or need to be modified because of new regulatory and compliance requirements from any applicable laws in any jurisdictions. In such a case, purchasers and anyone undertaking to acquire AQUA tokens acknowledge and understand that neither CERVIERO FZ-LLC nor any of its affiliates shall be held liable for any direct or indirect loss or damage caused by such changes.

CERVIERO FZ-LLC will do its utmost to launch its operations and develop the AQUA platform. Anyone undertaking to acquire AQUA tokens acknowledges and understands that CERVIERO FZ-LLC does not provide any guarantee that it will manage to achieve it. They acknowledge and understand therefore that CERVIERO FZ-LLC (incl. its bodies and employees) assumes no liability or responsibility for any loss or damage that would result from or relate to the incapacity to use AQUA tokens, except in case of intentional misconduct or gross negligence.

## REPRESENTATION AND WARRANTIES

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

- have read carefully the terms and conditions attached to the white paper; agree to their full contents and accept to be legally bound by them;
- are authorized and have full power to purchase AQUA tokens according to the laws that apply in their jurisdiction of domicile;
- are neither a US citizen or resident;
- live in a jurisdiction which allows CERVIERO FZ-LLC to sell AQUA tokens through a crowdsale without requiring any local authorization;
- are familiar with all related regulations in the specific jurisdiction in which they are based and that purchasing cryptographic tokens in that jurisdiction is not prohibited, restricted or subject to additional conditions of any kind;
- will not use the crowdsale for any illegal activity, including but not limited to money laundering and the financing of terrorism;
- have sufficient knowledge about the nature of the cryptographic tokens and have significant experience with, and functional understanding of, the usage and intricacies of dealing with cryptographic tokens and currencies and blockchain-based systems and services;
- purchase AQUA tokens because they wish to have access to the AQUA platform;
- are not purchasing AQUA tokens for the purpose of speculative investment or usage;

## GOVERNING LAW AND ARBITRATION

Any dispute or controversy arising from or under the crowdsale shall be resolved by arbitration in accordance with the UAE Rules of International Arbitration of the UAE Chamber of Commerce in force on the date when the Notice of Arbitration is submitted in accordance with these Rules. The arbitration panel shall consist of one arbitrator only. The seat of the arbitration shall be Abu Dhabi, UAE. The arbitral proceedings shall be conducted in English.



TEAM

# ANTONELLO CERVIERO

## CEO & FOUNDER

ENTREPRENEUR WITH EXPERIENCE IN THE AGRICULTURAL FIELD AND LOVER OF THE FORMATION AND INNOVATION, AS IT IS BLOCKCHAIN TODAY. STRUCTURED AND ORGANISED PERSON, ABLE TO EFFICIENTLY PLAN AND MANAGE TIME. DEEPLY MOTIVATED TO WORK IN INTERNATIONAL ENVIRONMENTS.







MELANIE SCHILLINGER

CHIEF OPERATING OFFICER

AS A SENIOR EMPLOYEE IN THE FIELD, WITH MANY YEARS OF SALES AND FINANCIAL EXPERIENCE. EAGER TO EXTEND HER PREVIOUS KNOWLEDGE PROFITABLY AND USE HER PASSION FOR SALE, HER KNOW-HOW.



ALBA CERVIERO

DIGITAL MARKETING

SPECIALIZED IN THE COMMERCIAL SECTOR WITH EXPERIENCE IN THE SALE OF SERVICES. ABILITY TO INTERPRET THE CUSTOMER'S NEEDS, TO ADVISE HIM IN THE BEST WAY AND TO ACCOMPANY HIM TO COMPLETE THE PURCHASE. ANALYTICAL AND ORGANIZATION SKILLS, APTITUDE FOR TEAMWORK AND FLEXIBILITY.



ANTONIO GRECO

DIGITAL PARTNER

WORKED FOR SEVERAL YEARS IN THE IT INDUSTRY. THE PASSION FOR BLOCKCHAIN TECHNOLOGY PUSHES HIM TO ACCEPT NEW FASCINATING CHALLENGES IN THE SECTOR.