



NAIAD WATER INVESTMENTS  
**WHITE PAPER**





In Greek mythology the naiads are the nymphs presiding over land waters and the guardian spirits of streams and springs. Henceforth came the idea of entrusting them with the symbolic patronage over NAIAD WATER INVESTMENTS.

## OUR MISSION

Our mission is to ensure that during the times of the progressively worsening water crisis we can offer what is best for agriculture. We want to attain this goal by designing an innovative irrigation system capable of maximizing water savings through a union of advanced, intelligent software and the state-of-the-art hardware solutions. We also intend to actively engage in the water market by developing a convenient, worldwide water trading platform and through investments in water sources and plots of land to back the credibility of our cryptocurrency.



“WATER – THE BLUE GOLD WHICH SUSTAINS LIFE”



## PROJECT IDEA



My name is Piotr Wróblewski and I am the CEO of Naiad Water Investments. After observing the global problem of water consumption optimization, we have taken it upon ourselves to solve the problem together as a team. It is a problem that has become not only an economic one, but also social. It costs the world billions of dollars annually. Present situation in Africa, Australia, the Middle East and the West coast of the United States, as well as in different places all over the world shows how directly they experience the severe water crisis which is already prevalent. In that case, what can we expect in the future?

In order to step up to the challenge, we created the Naiad Water Investment Coin. Our vision is to build a global, international project that aims to aid in solving one of the greatest problems concerning humanity. We will be facing this issue directly in the prospect of the years about to come, whilst a large part of the global community is experiencing it at this very moment- It is the problem of accessibility and usage of drinking water.



# WATER CRISIS

Global water scarcity issue is one of the most concerning and at the same time widely neglected problems on our planet:

- ◆ 4 Billions of people – over a half of the global population – experience severe water scarcity for at least two months annually
- ◆ Over 2 billion people inhabit countries in which water supply is insufficient to catch up with the demand generated by their population
- ◆ By the year 2030 half of the global population will have been already living in areas facing constant water scarcity
- ◆ Approximately 700 million people will have resettled due to intense water scarcity by the year 2030
- ◆ By the year 2040 one in four children around the world will have been living in areas highly at risk of water deficiency
- ◆ 80% of wastewater produced due to human activities is discharged into waterways without previous treatment
- ◆ Every day almost a thousand children across the world die due to diseases caused by contaminated water and poor sanitation
- ◆ 2,4 billion people on Earth have no access to basic sanitary equipment such as toilets or latrines



## WATER CRISIS

According to the report of the UN International Resources Team, half of the world will have been facing a serious water crisis by the year 2030, unless the global use of water is decoupled from economic growth. Based on the data provided by the aforementioned report, without any change to the current levels of water mismanagement and its contamination, almost half of the global population will have suffered due to severe water deficiency by the year 2030, thus destroying the well-being of millions of people and the world economy alike.

A report prepared by the Water Working Group of the International Resource Panel concludes that together with the growth of global population, expansion of urbanisation, climate change and changes to the ways of food consumption - the future demand for water will drastically increase.

According to UNEP IRP, a consortium of 27 scientists, 33 national governments and other non-governmental organisations in sub-Saharan Africa - a region struggling with the effects of climate change and poverty-water demand is expected to rise by 283% from the levels determined in 2005 by the year 2030.

Additionally, according to the current trends, the demand for water will exceed supply by 40% in 2030, forcing the governments to spend more than 200 billion dollars a year to provide ground water supply. Water prices determined by the prevalent crisis will grow at an alarming rate over the course of the next 5 years. They may increase by 240% or even as much as 450% depending on the water abundance of a given region.



# TOKEN

## WHAT IS OUR TOKEN?



By emitting our token we want to empower people by allowing them to take matters into their own hands. Every member of our community, thanks to Naiad Water Investment Coin, will be able to take full advantage of projects being realized by the company, not needing to worry about their investment which alongside technology is also backed by the two most stable resources of our planet Earth -water and land.

We introduced a new concept interpreting the value of our token as POW (Proof of Water) - which ensures our investors that the company, after its first quarter of operation, will invest in material assets stabilizing the value of the token. The NAIAD smart contract will be connected to the NAIAD IRRIGATION application's decentralized database, which gives each holder an additional unique value as part of the global precision irrigation and plant growth database.

Naiad Water Investment Coin combines all important aspects of an investment, utility and exchangeable token. By investing in NAIAD you invest in our ambitious and revolutionary projects in both agriculture and water industry fields. Through the ownership of Naiad Water Investment Coin you invest in water sources, arable land and technologies, which will constitute the future of this planet, over the course of our long term project.

Our token will enable its users to utilize optimization technology in the form of platforms and applications, exchange and water trade on local and international markets. Possible worldwide exchange ability for other crypto and FIAT currencies.



# PROJECTS

## NAIAD IRRIGATION

Irrigated agriculture accounts for 70% of all freshwater abstractions on our planet. A large part of this water is not actually used by crops - in traditional systems often more than 50% is not absorbed by crops roots and flows back into the rivers or aquifers instead. These large volumes of wasted water could be redirected and used in another way. To meet the concerning issue of large amounts of waste water produced during irrigation, we aim to create our Naiad Irrigation System - characterized by innovation and high efficiency in water use.

Our system intends to implement a complete irrigation process automation based on monitoring of environmental factors affecting plants by appropriate sensors built into its construction. Data received from the sensors will be analysed by "Five-Elements Analytics", an artificial intelligence system tightly bound to the entire irrigation machinery. Its purpose is to determine the most suitable irrigation pattern for the crops according to the dynamic data acquired from the environment and either suggest it to the user or instantly apply it and proceed with irrigation. One of the main ideas of "Five-Elements Analytics" is for the system to constantly learn how to best optimize water use to the most efficient level in irrigation of specified crops under a wide variety of factors affecting them.





## LOYALTY PROGRAMS

Our goal is to reward our clients and secure their needs in the long term perspective. As long as the client possesses a specifically defined amount of Naiad Water Investment Coin in their registered cryptocurrency wallet, they have the access to all the services provided by the company. The token can also be used as an official medium of exchange in all of our partner projects.

## PROFIT ESTIMATION

Thanks to the possibility of tokenization of water sources, agricultural real estate as well as the water management infrastructure we can notice that a great potential lies within the water market. We can see how tokenization and a futuristic approach to the issue may help in generating not only large savings in terms of volumes of water but also billions of dollars in profits – all due to optimization of water demanding processes within the various branches of the global economy. Be it agriculture, heavy industry, food production sector, pharmaceuticals, chemical or textile industry. \*

The main intention of our company is to obtain available water sources in places strategic for our projects – all around the world and in various climatic areas-where we could begin scientific and comparative work on water – use optimization systems. The investment into water sources and plots of land by itself ensures the token owners and the investors that the value of the token is backed by an asset, the company is solvent and the investment is transparent with predictable capital growth in both the short and the long term. \*

The emission of our token is addressed towards private investors, pre-sale platforms, cryptocurrency exchanges and government institutions. The planned starting price of our token is equal to the average price of a bottle of water in highly developed regions (European Union, United States of America, Canada, Australia). After the purchase of the first investment (asset) by the company the market price of the token - according to analyses and forecasts - should increase in proportion to the value of the company. \*



Apart from stabilizing the price of the token through real estate with water sources acquired by the company, the token is mainly backed by technological projects which aim to revolutionize the water market, agriculture, the food industry, heavy industry, textile, pharmaceutical and chemical industries in the coming years. \*

According to our analyses based upon precise data acquired from multiple sources (e. g. governmental and non-governmental organisations, research papers [USGOV, UN, EU, AUSTRALIA GOV etc.]) we notice the great potential of combining our technology projects with key global industries in the coming years. By optimizing crop irrigation and significant reduction of water waste governments and corporations can save billions of dollars, though most importantly – food production will be more efficient and less harmful to the planet. \*

## WHAT WE OFFER TO THE TOKEN HOLDERS:

- ◆ long term financial stability through investment into our token
- ◆ benefits of being a part of our community - 10% of the total token pool will be distributed to the community through various competitions or completing tasks related to water conservation
- ◆ lower prices on selected Naiad products
- ◆ loyalty program
- ◆ the opportunity to take part in project polls, where token holder votes affect the future course taken by the company as well as the market direction of the token



## FINANCIAL ANALYSIS

According to analysts, expected raises to water prices and technologies improving the new Blue Market will surpass demand for gold. Water used for quenching livestock often is neither controlled nor limited and means of access to crops might drastically differ depending on location. Therefore differences in approach to water trade in different regions demand a scrupulous evaluation of conditions which we have to consider in individual cases (Easter and Huang, 2014) \*

The Census reported that spendings of local governments in USA in year 2010:

- on water and sewage amounted to 111.4 billion USD: 60.6 billion USD for water supply; 50.8 billion USD for sewage systems
- on public water in the years 1972-2010 (38 years) on average grew by 7.66 percent on yearly basis
- spendings on supplying water and wastewater treatment amounted to 113 billion USD in 2017 alone

From mentioned expenses 28% (31 billion USD) were spent on water capitalization and 72% (82 billion USD) on operation and upkeep of available regulatory architecture. Only 4% of mentioned spendings (4.5 billion USD) came from federal authorities-the remaining 96% (109 billion USD) came from state and local funds. The Congressional Budget Office (CBO) predicted that the total cost of the agriculture improvement act of 2018 will amount to 428 billion over the 5 years period between 2019 and 2023. Food assistance programs constitute about three quarters of this sum (321 billion USD) and predicted expenses on crop insurance, maintenance and wares constitute for the remainder of this sum. \*

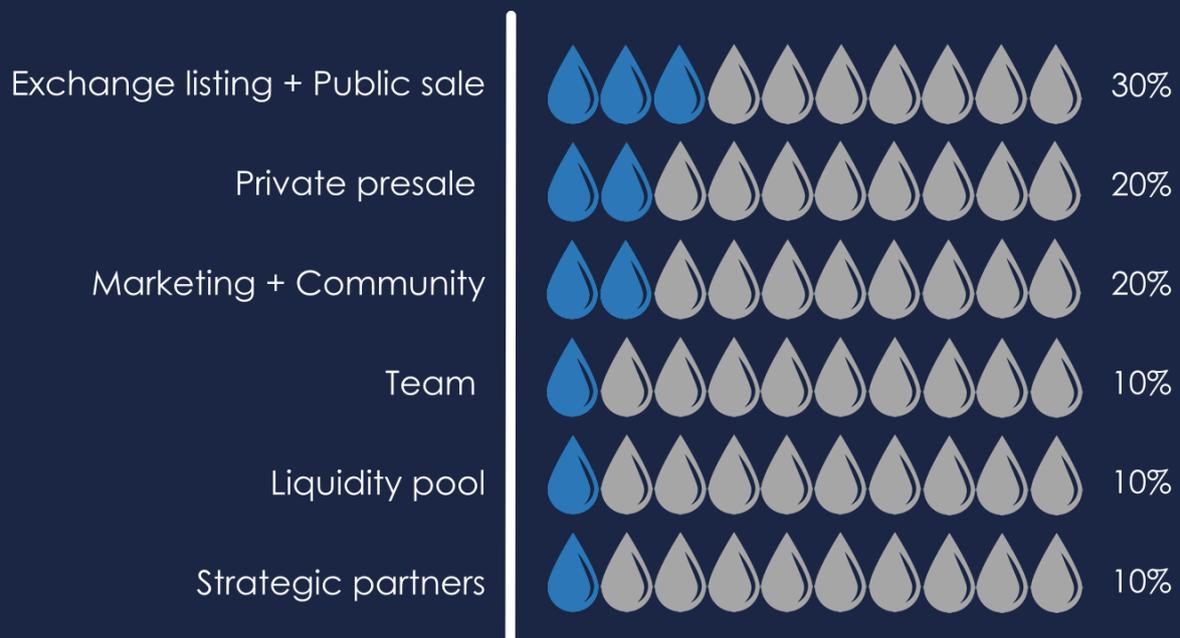


We estimate that with optimization of water usage processes in this sector these expenses can be reduced by between 15% and as much as 45% depending on location. On average it's about 30% which in the case of the USA translates to about 95 billion USD over the course of 5 years. On a national scale variable irrigation water costs for ground waters on average amounted to 32 USD per acre of land (2020), and for surface water outside of farm to about 41 USD per acre (2020). \*

These prices will increase proportionally to water usage and lack of it's availability depending on location by 8% to 15% on yearly basis. According to our analysis this increase can be reduced to levels between 3% and 7%. \*

\*Presented information does not constitute an offer in understanding of local law and doesn't constitute a calculation for such an offer. It's character is purely informative in accordance with information presented in 'disclaimer and legal information' point of this document.

## TOKENOMY



Once created, tokens are divided into separate portfolios when deploying the contract to the network, distinguishing token reserves with specific purposes in mind.



# ROADMAP



## STAGE 1

- Building our company's team.
- Market analysis and scientific data collection.
- Business model validation.
- Marketing strategy planning.
- Establishing a 5-year plan and future prospects.

## STAGE 2

- Establishing the legal entity of the company.
- First financing.
- Preliminary discussions with investors.
- Acquiring strategic partnerships and advisors.

## STAGE 3

- PR campaign and raising awareness.
- Activity in social media.
- Creating a YouTube channel.
- Private presale of the token.
- Further acquiring strategic partners.
- Registration in public pre-sales.
- Pre-release marketing campaigns.
- Public launch on cryptocurrency exchanges.
- Post-release marketing campaigns.
- Company's participation in various events and conferences.
- Naiadcoin website.

## STAGE 4

- Expanding our team.
- Acquisition of the first assets (land and water sources.)
- PR campaigns and raising awareness.
- Naiad app prototype.
- Sponsorship of events related to water scarcity issues.
- Scientific partnerships.

## STAGE 5

- Water related conferences and exhibitions.
- Further expanding our team.
- Expansion of our global presence and awareness of the issues concerning water.
- Introduction of new strategic investors to our future projects.
- Marketing campaigns.



# TECHNOLOGY DESCRIPTION

Naiad Tokens are emitted through a program (further referred to as „smart contract” or „contract”), utilizing popular programmable Ethereum blockchain, combined with Arbitrum-One network, which is a layer-2 scaling solution allowing transactions to be processed at lower fees.

Contract managing tokens implements ERC-20 token standard, allowing users to access data stored within free of charge:

- ◆ Name, symbol and decimals
- ◆ Token balance of specified ETH address
- ◆ Total supply of the token
- ◆ Upon providing spender and issuer addresses, amount of tokens issuer authorized the spender to manage to his liking.

As well as functions which require paying a transaction fee:

- ◆ transfer () – transfer specified amount of owned tokens to provided address
- ◆ approve () – allow specified address to manage specified amount of owned tokens
- ◆ transfer From () – transfer tokens from one specified address to another (assuming you've been approved to manage amount larger than specified)

Due to implementation choice all created tokens are fungible.



## OUR TEAM



**PIOTR WRÓBLEWSKI**

FOUNDER AND CHIEF EXECUTIVE OFFICER



**EWELINA PIETRZAK**

CHIEF OPERATING OFFICER



**EDYTA LIZAK**

CHIEF MARKETING OFFICER



**PAWEŁ PIWOWARCZYK**

CHIEF TECHNOLOGY OFFICER

**MAXIMILIAN BUKOWSKI**

PARTNERSHIP MANAGER



**PAWEŁ WRÓBLEWSKI**

PROJECT MANAGER





**SABINA STANKIEWICZ**

SALES DIRECTOR



**TYMOTEUSZ WIŚNIEWSKI**

ADVISOR



**JUSTYNA LIZAK**

OFFICE MANAGER



# DISCLAIMER AND LEGAL INFORMATION

## ISSUER

The entity responsible for the preparation of this document is NAIAD WATER INVESTMENTS Sp. z o. o. (KRS: 0000932931, NIP: 5252884521) with its registered office at Senatorska 2, 00-075 Warsaw (hereinafter referred to as the "Issuer")

## INFORMATION CLAUSE

All information contained in this document has been prepared and presented by the Issuer to the best of its knowledge as of the date of preparation of this document. However, under no circumstances should the information contained herein be considered as advice, investment counseling or an investment recommendation. This document is for information purposes only and presents the main assumptions of the project implemented by the Issuer, the development plan, the technology used, as well as the opportunities related to the acquisition of Naiad Water Coin tokens. No person wishing to make an investment should rely solely on the information contained in this document. The issuer disclaims all liability for any incorrect use of the information contained in this document.

## JURISDICTION CLAUSE

This document has been prepared in compliance with the legal regulations of Poland. However, future changes in the tax law and different interpretations of the law by tax authorities and courts cannot be excluded. Therefore, out of an abundance of caution, the Issuer reserves the right to change the jurisdiction and the entity through which this process of distribution of Naiad Water Coin tokens is carried out. At the same time, it should be emphasized that this distribution of Naiad Water Coin tokens is not an issue of financial instruments-both within the meaning of national laws applicable to the Issuer's registered office and any other surrounding laws relating to such issues and applicable to the securities market, financial instruments or other exchange goods or services.



# DISCLAIMER AND LEGAL INFORMATION

## RISKS CLAUSE

Prior to getting into the process of distributing Naiad Water Coin tokens, you should familiarize yourself with the mechanics of blockchain-based software and applications. Never invest more than you are prepared to lose and you should be prepared to lose the entire value of your funds. If in doubt, you shall seek independent financial advice before doing anything related to the process described in this document. The cryptocurrency market is unpredictable and the Issuer may be required to adjust its strategy in response to changing market conditions. Therefore, the Issuer reserves the right to modify this document at any time. All complementary information regarding the Naiad Water Coin token acquisition process is available at: [www.naiadcoin.com](http://www.naiadcoin.com).

## BIBLIOGRAPHY:

Ahmed, A.; Ranasinghe-Arachchilage, C.; Alrajhi, A.; Hewa, G. Comparison of Multicriteria Decision-Making Techniques for Groundwater Recharge Potential Zonation: Case Study of the Willochra Basin, South Australia. *Water* 2021, 13, 525. [CrossRef]

Anda A, Simon B, Soós G, Teixeira da Silva JA, Kucserka T (2019) Crop-water relation and production of two soybean varieties under different water supplies. *Theoretical and Applied Climatology* 137: 1515-1528.

ASAE (2001) Soil and water terminology. ASAE Standards 49th Ed S526. 4: 903-907. Bao Y, Hoogenboom G, McClendon RW, Paz JO (2015) Potential adaptation strategies for rainfed soybean production in the south-eastern USA under climate change based on the CSM-CROPGRO-Soybean model. *Journal of Agricultural Science* 153: 798-824.



AQUASTAT—FAO's Global Information System on Water and Agriculture. Water Use. Available online: [www.fao.org/nr/water/aquastat/water\\_use/index.stm](http://www.fao.org/nr/water/aquastat/water_use/index.stm) (accessed on 26 August 2021)

Camp CR (1998) Subsurface drip irrigation: A review. *Trans. Am. Soc. Agric. Eng.* 1353–1367. Candogan BN, Sincik M, Buyukcangaz H, Demirtas C, Goksoy AT, Yazgan S (2013) Yield, quality and crop water stress index relationships for deficit-irrigated soybean [*Glycine max* (L.) Merr. ] in sub-humid climatic conditions. *Agricultural Water Management* 118: 113-121.

Candoğan BN, Yazgan S (2016) Yield and quality response of soybean to full and deficit irrigation at different growth stages under sub-humid climatic conditions. *Journal of Agricultural Sciences* 22: 129-144.

Contreras, J. I.; Roldán-Cañas, J.; Moreno-Pérez, M. F.; Gavilán, P.; Lozano, D.; Baeza, R. Distribution Uniformity in Intensive

Demirtaş Ç, Yazgan S, Candogan BN, Sincik M, Büyükcangaz H, Göksoy AT (2010) Quality and yield response of soybean (*Glycine max* L. Merr.) to drought stress in subhumid environment. *African Journal of Biotechnology* 9: 6873-6881.

Egli DB (2008) Soybean yield trends from 1972 to 2003 in mid-western USA. *Field Crops Research* 106: 53-59

Horticultural Systems of Almería and Influence of the Production System and Water Quality. *Water* 2021, 13, 233. [CrossRef]

Moreno-Pérez, M. F.; Roldán-Cañas, J. Assessment of irrigation water management in the Genil-Cabra (Córdoba, Spain) irrigation district using irrigation indicators. *Agric. Water Manag.* 2013, 120, 98–106. [CrossRef]

Pulido-Bosch, A.; Vallejos, A.; Sola, F.; Molina, L. Groundwater Sustainability Strategies in the Sierra de Gador-Campo de Dalías System, Southeast Spain. *Water* 2020, 12, 3262. [CrossRef]

Tamagnone, P.; Cea, L.; Comino, E.; Rosso, M. Rainwater Harvesting Techniqueto Face Water Scarcity in African Drylands: Hydrological Efficiency Assessment. *Water* 2020, 12, 2646. [CrossRef]



UNESCO, UN-Water. United Nations World Water Development Report 2020: Water and Climate Change; UNESCO: Paris, France, 2020.

U. N. Desa. Transforming Our World: The 2030 Agenda for Sustainable Development; UN DESA: New York, NY, USA, 2015.

WWAP (UNESCO World Water Assessment Programme). World Water Development Report 2019: Leaving No One Behind; WWAP: Paris, France, 2019.

Zapata-Sierra, A. J.; Roldán-Cañas, J.; Reyes-Requena, R.; Moreno-Pérez, M. F. Study of the Wet Bulb in Stratified Soils (Sand-Covered Soil) in Intensive Greenhouse Agriculture under Drip Irrigation by Calibrating the Hydrus-3D Model. Water 2021, 13, 600. [CrossRef]

<https://www.census.gov/>

[https://www.ec.europa.eu/environment/water/water-drink/reporting\\_en.html](https://www.ec.europa.eu/environment/water/water-drink/reporting_en.html)

<https://www.nature.com/articles/s41545-019-0039-9>

<https://www.unwater.org/publications/un-world-water-development-report-2021/>

<https://www.unwater.org/water-facts/water-scarcity>

<https://water.org/our-impact/water-crisis/>

<https://www.worldwildlife.org/threats/water-scarcity>

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