

# NANOAQUA LTD.

Presentation

## FOR REFERENCE:

- One of the fastest growing sectors of economy in the world is the production of drinking water and alcohol-free beverages. Investigations of developed markets show that production and consumption of drinking water is growing every year in all countries and regions of the world.
- It is forecasted that total amount of water sales will exceed 300 billion liters in 2015. Bottled water will outstrip tea, which is the most consumed packed beverage in the world.
- World output of bottled water demonstrates an unprecedented growth to almost 100 billion liters, according to the forecast for 2013 - 2018. This stage will surpass the previous five-year period to more than 25 billion liters, making bottled water the fastest growing soft drink in the world.
- Commercialization of bottled water reached a record level.
- Insufficient amount of clean water in many emerging markets makes bottled water major necessary product.
- The main driving force of this growth is the health: the demand for clean water sources in emerging markets and the demand for more healthy drinks in developed countries. Such characteristics of bottled water make it a product of mass consumption. Manufacturers' focus on the increase of their product value becomes more and more apparent.

nanoschematic

DNA contains the genetic information that allows all modern living things to function, grow and reproduce. However, it is unclear how long in the 4-billion-year history of

## Global bottled water forecast 2011-2021 (billion litres)



# ABOUT THE COMPANY AND TECHNOLOGIES

- The Russian company “NanoAqua” Ltd. was established in 2012 and locates in Astrakhan city. Having the high technologies (registered in the Federal Institute of Industrial Property of the Russian Federation), the company offers to its consumers the product of special quality: Structured Drinkable Activated (SDA) water which is created applying only the Russian know-how solutions for the structuring and activation of water. Trademarks: «IDEAL», «TOP OF IDEAL» and «AQUA AURA».

- SDA water has passed through the 20-years testing and laboratory studies, approbations, research and developments works, test inspections with the following receipt of the complete package of the approval documents confirming its safety (receipt of the conformity certificate and sanitary conclusion as for the facility which is used for the production as for the product itself named Structured Drinkable Activated (SDA) water)).



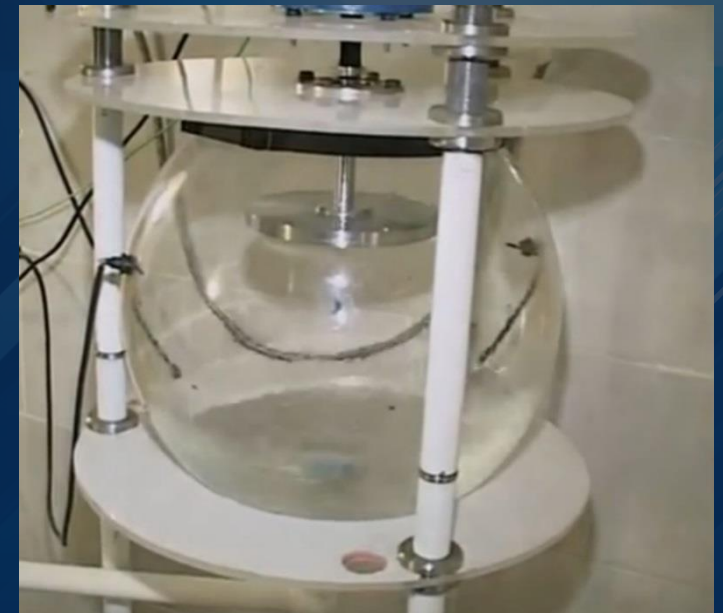
## Activity of "NanoAqua" Ltd. is supported by:

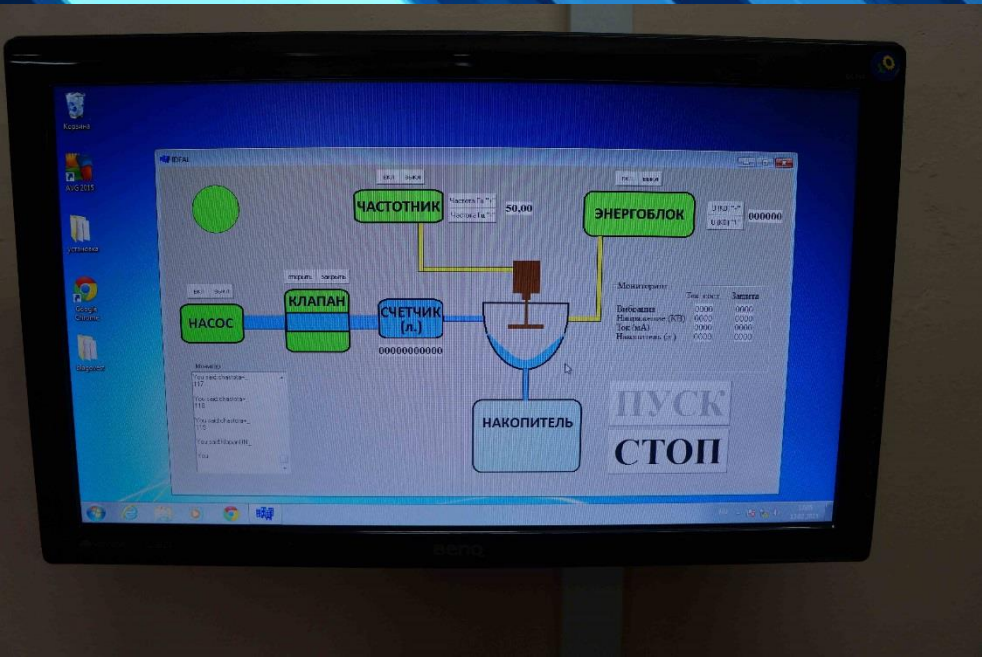
- Ministry of Economic Development of the Russian Federation (promotion of the company as a foreign trade export project with the help of all Trade Representations of the Russian Federation in 53 foreign countries);
- Ministry of Foreign Affairs of the Russian Federation (assistance in entering foreign markets through the support of the Embassy of the Russian Federation in foreign countries - Mexico, Kuwait, United Arab Emirates. "NanoAqua" Ltd. plans to continue to expand contacts and communication with other embassies of the Russian Federation);
- Russian Chamber of Commerce (in cooperation with the Business Councils: The Russian-Arab Business Council. "NanoAqua" Ltd. plans to continue to expand contacts and communication with other Business Councils attached to the Chamber of Commerce of the Russian Federation);
- The Government of Astrakhan region (including the Ministry of International and Foreign Economic Relations of Astrakhan region and the Ministry of Economic Development of Astrakhan region);
- Regional organizations and institutions of Astrakhan region on foreign economic activity (Astrakhan Export Support Center, Euro Info Correspondence Centre, Chamber of Commerce of Astrakhan region).

- The SDA water meets the GOST P 52109-2003, SanPiN 2.1.4.1116-02, TU 0131-001-30003183-12, TU 0131-001-22200604-14 has all necessary documentation for its distribution on the territory of the Customs Union (Russia, Belorussia and Kazakhstan). Available capacities in 0,5 litres; 1 litre; 5 litres; 19 litres.
- Composition, quality, characteristics, and medicative-preventive properties of this water has several advantages. As a result of technology applying, the qualitative composition of the water is changed in a positive way from the ordinary to the structural and activated, i.e. correct and biologically active, full of life energy. The absolutely clear and healthy SDA water is primarily unique because of its physical features changes while processing on the "Sirius-A" unit manufactured by "NanoAqua" Ltd.
- The production of the SDA water is located in the Astrakhan region, Russia and know no equals. During production, the water goes through the all stages of the structuring and activation on the uniquely domestic special unit called "Sirius-A" with the soft electronic control (Conformity certificate of the RF No. C-RU/AB 02.B.03.028 issued on 24.04.12, Expert Statement SEE FBUZ No. 3213 issued on 2.04.12).



1. The company provides equipment and technology licenses, according to legal documents and requirements of the current legislation of the Russian Federation and the country of the contracting countries. Technology is intellectual property and company offers registration of a contract in Federal Institute for Industrial Property of RF in case intellectual property will be transferred (by arrangement)
2. Sirius-A is equipment which produces structured activated water. Capability is up to 2000 L/hour. There is the possibility of integration of any number of devices for increasing the maximum capacity of the line (we are constantly checking and testing complex on our own automatic filling line with a capacity of 2000 L/hour).
3. All further (by transmitted equipment and patent) capacity increases according to technology are available for free (the company plans to increase capacity of the complex to the level of 5000 liters per hour at the next stage).
4. Certificate of conformance RF No C-RU / AB 02.B.03.028 dated 24.04.12;
5. Expert report SEE FBH-cA (sanitary-and-epidemiologic examination
6. Federal Budget health-care Agency) No 3213 dated 12.04.12;
7. A utility model patent No 131714 dated 12.11.2012.
8. TU, TI, 2012. The program of production control.







The complex of Sirius-A\* equipment with electronic program control for structuring and activation of fluid consists of:

- The Sirius-A device (chamber for structuration and activating of water equipped with an electric motor installed on the frame, line transformer, high voltage power unit, high voltage wires);
- Counters of water produced, needle water pressure sensors translating data on the PC, cumulative PET containers;
- PC: the monitor and the system unit with software (manual control) with the ability to customize the remote control of production;
- Video control system (4 cameras);
- Integrated water treatment system and piping (if necessary).

\* (Working version of Sirius-A can be seen on the company website [www.ideal30.com](http://www.ideal30.com) "Multimedia" tab (English version of the web site will be in the near future) and in Russian Export Catalog is created by Ministry of Economic Development of Russian Federation

[http://ruexport.org/eng/rus\\_export\\_catalog/?action=showuser&id=36542](http://ruexport.org/eng/rus_export_catalog/?action=showuser&id=36542) )).

## THE POSSIBILITY OF USING THE SPA WATER IS MULTIFACETED:

- use for its intended purpose - drinking water;
- rinsing, wiping the skin of the face or body, for use as a base in cosmetic purposes (improvement of skin - documented cases of getting rid of acne, for example);
- rinsing, wiping the skin of the face or body, for therapeutic purposes (helps to alleviate and / or cure skin diseases. Reported cases of psoriasis cure, improve skin burns after prolonged use);
- rinsing of the eyes, nose, rinse of the mouth and throat (recorded numerous cases of getting rid of a sore throat for 1-2 days);
- taking medications, vitamins, nutritional supplements with water (improving digestibility of drugs in the body);
- creation of decoctions, tinctures for personal use;
- rinse of hairs after shampooing (improvement of the hairs);
- tea and other drinks (improving the taste, properties of the beverages).

# THE APPLICABILITY OF THE TECHNOLOGY:

The technology of equipment use is unified, but there is a great variety of spheres of its application:

- Food industry
- Pharmacology
- Medicine
- Microbiology
- plant growing
- cattle breeding
- Fish breeding
- A number of other sectors: construction, energy and others.

All of these industries being tested (in varying degrees) and have different positive opinions from experts in a particular field. This allows us to talk about the practical applicability of the equipment in the future.

# EXPECTED AREAS OF IMPLEMENTATION OF THE PROJECT:

- production of bottled drinking water (the primary area);
- in the manufacture of various types of physiological solutions for use in medicine (skin burns, treatment of skin diseases, etc.);
- in the manufacture of medicaments (as a basis for the preparation of various pharmaceutical preparations for example);
- in the manufacture of cosmetics (ointments, creams, sprays for hands, body and face, etc.);
- in the production of agricultural products through the use of this technology for the introduction of new varieties of cereals and other crops which are more resistant to disease and aggressive environments with the aim of improving the quality of nutrition and a healthy lifestyle;
- in the production and cultivation of valuable species of fish, birds and animals. Expected results: more intensive growth, getting an immune system more stable to the adverse effects of aggressive external environment.

# COMPOSITION, PROPERTIES AND APPLICATION OF SDA WATER

- Unlike conventional water SDA water of the highest quality regulates biochemical processes in the body. In the process of production water is exposed to molecular rebuilding and water elements structure is fixed into correctly folded clusters and tetrahedrons. Water acquires additional properties and becomes similar to that of intracellular structured water in the body of human. This water is easily absorbed by the body, brings out toxins and wastes, increases immunity, energizes.
- Description of the physiological effects of SDA water comes not in ascending or descending order of importance, but in a certain logical sequence. Each effect can be more important in one case, and may have a secondary value in the other. Everything in human body is interconnected, and different effects can be different manifestations of one common process.

In the process of SDA water production, we do not apply harmful substances and additives. "NanoAqua" Ltd. makes for consumers clean and useful drinking water, which strengthens the immune system, restores metabolism, bring out various kinds of intoxication.



SDA water is an environmentally friendly and healthy product with the correct molecular structure, which is useful for the daily intake without restrictions. From the earliest days of regular intake of SDA water, you will observe not only normal work of individual organs but also of the whole body system.

Therapeutic effect of structured water is the replacement of cellular water in the body of human having a partially destroyed structure with individually structured water, thus increasing the lifetime and efficiency of all human cells, as well as having beneficial complex effect on the whole body, allowing the body to escape internal pathology.

Clear indicators of changes in the state of the organism are seen in the results of blood tests (General clinical blood analysis) as well as other tests and surveys required before and after the use of water, after drinking water for the minimum recommended period of time - 1 month.

## **SDA Water penetrates into the organism and causes a range of biophysical effects:**

- restoration of the capillary circulation;
- stimulation of tissue transport, metabolism and energy reactions;
- activation of the immune cells work, enzymes and hormones;
- accelerate the healing process;
- influences the excitability process and conduction in nerve trunks, as well as spinal cord and brain;
- suppression of pathogenic bacteria reproduction ;
- slowing down the degenerative processes in the tissues and much more



## **SDA water has considerable biological effect and contributes to:**

recovery of the kidneys and the entire urinary system (up to the dissolution and removal of stones);

- normalization of the digestive system;
- cure diseases of the cardiovascular system;
- arthritis and other diseases of the skeletal system;
- lung disease;
- elimination or mitigation during any allergies;
- significant improvement in the state of health while having flu, sore throat, acute respiratory infections and a sharp decrease in the probability of complications;
- relief in the state of health when having food and other intoxication (carbon monoxide, natural gas poisoning);
- reduction of the by-effects of medications and increase of their efficiency, increase of the digestibility of herbal remedies and dietary supplements;
- normalization of blood pressure and cholesterol metabolism;
- improvement of the blood state;
- improvement of sleep, normalization of weight, increase of physical activity;
- stimulating and tonic effect on the body;
- substantial relief of the human condition with serious and severe diseases of the body.

# Organoleptic indicators and indicators of organic pollution\*

Defined indicators	Units of measurement	Quality Standards of bottled drinking water, Sanitary rules and norms 2.1.4.1116-02, not more than	The actual value of the analysis result	The name of regulatory documentation governing procedure of testing
		1 <sup>st</sup> category		
<b>1. Organoleptic characteristics:</b>				
Chromaticity	Degrees	5	1,8	State Standard of Russia (GOST R) 52796-2007
Turbidity	FTU	1,0	< 0,1	State Standard (GOST) 351-74
<b>2. Indicators of organic pollution:</b>				
Permanganate oxidizability	mgO <sub>2</sub> /dm <sup>3</sup>	3,0	0,68	Environmental Regulations Federated 14.2:5.154-99
*Testing Laboratory Federal State Budget Institution "State Agrochemical Service Center "Astrakhansky". Protocol of laboratory testing № 5686B dated from 25 February 2015				

## The physiological usefulness of macro - and microelement composition of bottled water

Indicators	Units of measurement	Standards of drinking water physiological usefulness, in limits	The quality standards of bottled water		
			1 <sup>st</sup> category	Highest quality	The actual value of the analysis (laboratory test)
Total mineralization	mg / liter	100 - 1 000	1 000	200 - 500	234,6
Hardness	mg-equivalent/liter	1,5 - 7	7	1,5 - 7	< 0,1
Alkalinity	"-	0,5 - 6,5	6,5	0,5 - 6,5	0,3
Calcium (Ca)	mg / liter	25 - 130	130	25 - 130	< 0,1
Magnesium (Mg)	"-	5 - 65	65	5 - 50	6,1
Potassium (K)	"-	-	20	2 - 20	0,8
Bicarbonates (HCO <sub>3</sub> )	"-	30 - 400	400	30 - 400	143
Fluorides	mg /dm <sup>3</sup>	0,5 - 1,5	1,5	0,6 - 1,2	< 0,1
Iodides	mcg / liter	10 - 125	125	40 - 60	< 10

# RESEARCHES. DIFFERENCES BETWEEN SDA WATER AND ORDINARY FRESH WATERS.

- EXPERT REPORT on Research and Development work for designing of "Sirius-A" equipment (Activating fluid bodies equipment) for structured fresh activated water «IDEAL» producing. **"Some success was reached it can be proved by existing of object of intellectual property, accordance of producing output product to standards and existence of customer demand"**. (Head of "Production machines and equipment" department of Astrakhan State technical university, Prof. Dr.-Ing. Aleksanyan I.U., General director BIOPROPHILAKTIKA LLC, Astrakhan, reader of "Production machines and equipment" department of Astrakhan State technical university, PhD in Technical Sciences Maksimenko U.A., 2013);
- RESEARCH of structured activated water influence on fish breeding process (sturgeons breeding). **20-33% and more increase of correlation of settlement and survivability level during valuable fishes species breeding was recorded** (FSBI North Caspian basin administration of fishery and aquatic biological resources protection, 2001);
- CHECKUP of «IDEAL» water physiological influence on human body. Test was carried out by the EAV method using Fenix device. **As a result of the tests positive effect of «IDEAL» water on immune system, metabolism and blood circulation was recorded in 83% of cases and on the autonomic nervous system in 57% of cases** (Valeology center of doctor Chernyakov, academician, Ph.D., chief of biophysical correction of health, neurologist, reflexologist V.P. Chernyakov. St. Petersburg, 03.11.2010);

- MEDICAL CHECKUP: 80 volunteers with a different diseases: cardiovascular diseases, with high blood pressure, pulmonary, musculoskeletal system, urogenital system, the gastrointestinal tract, allergic, skin. With the combined pathologies (combined diseases). Duration of observation was 1-3 months. The daily water intake was 600 ml (3 cups). **Results: Multiple stabilization of blood pressure, refusal to take medicine or transfer to maintenance dose of hypertensive medicine (anti high blood pressure medicine), decrease of swelling, fatigue, pain in the legs of patients with thrombophlebitis, cessation of bleeding, pain of patients with hemorrhoids, pain relief, improved mobility of the joints of patients with problems of the musculoskeletal system, the disappearance of cough and shortness of breath of the morning smokers, improvement of patients with urolithiasis, reducing allergic concerns, the flow in an easy manner, reducing skin problems of patients with neurodermatitis, disappearance of pain, heaviness in the stomach of gastroenterological patients, normalization of temperature from 39 to normal in a day of 2 patients with fever heat after taking the water at ARD. Improve the sexual function of men. Improvement of sleep, rise of vigor and physical activity** (Russian Academy of Medical Sciences, National Research Center of Surgery (RNCH RAMS, Professor V.S. Gigauri, Moscow, 1999);
- BOOK PUBLICATION "Biological and energoinformational properties of water" **based on research of SDA water «IDEAL»** (Academician, Doctor of Biological Sciences, Ph.D., Zenin S.V., Moscow, 2003);
- THE STUDY OF THE INFLUENCE OF ACTIVATED WATER ON BIOLOGICAL PROPERTIES AND REPRODUCTIVE ACTIVITY OF POTENTIALLY PATHOGENIC AND SANITARY-INDICATIVE MICROORGANISMS. The studies revealed that the samples of activated water as compared with ordinary water have biological activity to a wide spectrum of the studied test-organisms: (E.coli (Escherichia coli), S.aureus (Staphylococcus aureus), P. mirabilis (the causative agent of acute intestinal wound infections), P.aeruginosa (Pseudomonas aeruginosa), B.sereus (bacteria which causes toxic infection in humans). **Biological effect of AW was in its bactericidal effect on microorganisms, which manifested itself in accelerated withering away of bacteria. Within 6-9 days there was marked: a sharp reduction in reproductive activity / full disability to reproduce / death of microorganisms in the AW.** (International Fund for support of economic reforms in Russia, Cand.Biol.Sci., N.A. Polikarpov, 1998).

- **RESEARCH WORK** for the study of biological influence of activated fluid on animal bodies with acute hepatitis and chronicle infections, under H2S, heat and other kinds of attack. **FEEDBACK** on the program "Development and use of new treatments based on environmentally friendly technologies". **Ecological purity of the produced product, as well as the production process itself, is a huge advantage of this technology.** Research Institute for the Study of leprosy studied activated water (AW) (within the requirements of the Pharmacological Committee of Russia). It was found that AW is biologically active both for short-time and long- time injection in the organism of animals. Pathological changes with long-term use of AW are not revealed. The structure of the internal organs testifies about their functional restructuring and about activation of metabolic processes. Activated water does not have negative influence on the processes of fertilization, pregnancy and child -bearing in the experiment. AW has a positive effect on the growth and development of young animals. There was defined biological activity and therapeutic effect of this drug in case of poisoning caused by the damage of liver, lungs and other internal organs. The use of AW in case of acute experimental toxic hepatitis in mice showed promise of its use as a therapeutic agent. It has been found that the introduction of AW in the animals with experimental damage of lungs promotes more rapid process of normalization

**changes, occurring in lungs, liver and kidneys. It is shown that the use AW accelerates restoration of body weight in animals, in vitro experiments shows antibacterial activity against a number of growing bacteria. Thus, the studies show excellent prospects for the use of AW in treatment of various diseases and provide the basis for clinical trials. The proposed program for further research "Development and use of new treatments based on environmentally friendly technologies" includes the creation of advanced methods of treatment of a wide range of serious illnesses (endocrine, neoplastic, infectious diseases, diseases associated with metabolic disorders and others (including diseases caused by ecology))** *(Director of the Institute for the Study of leprosy, Health Ministry of the Russian Federation, Doctor of Medicine, Prof. A. Yushchenko, 1995);*

Structured, activated, specially prepared (SDA) water meets requirements of GOST P 52109-2003, SanPin 2.1.4.1116-02, TU 0131-001-30003183-12, TU 0131-001-22200604-14. There are no contradictions and limitations in taking. Trademarks:

«**IDEAL**» (Certificate of state registration of the Russian Federation № RU.30.AL.02.006.E.000005.07.12 dated 09.07.2012),

«**AQUA AURA**» (Certificate of state registration of the Russian Federation № RU.30.AL.02.006.E.000002.01.15 dated 13.01.2015r.);

«**TOP OF IDEAL**» (Certificate of state registration of the Russian Federation № RU.30.AL.02.006.E.000001.01.15 dated 13.01.2015).

**Structured Drinkable Activated water** – is physiologically full featured fresh water. Compare to ordinary bottled water, SDA water assumes additional properties and becomes similar to the human cellular water in result of special treatment carried out in accordance to proprietary technology. It's easy digestible by body cells and it intensively cleans human body of toxins and wastes (in case of using directly through GIT), improves immunity and vitality, has energizing effect.

**One of the main differences between structured activated water and other bottled fresh waters is that structured activated water has complex curative effect on human body and, as a result, makes humans body more healthy in many ways (see above: properties, researches, using).**

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**THANK YOU FOR YOUR  
ATTENTION!**

The background features a dark blue gradient on the left, transitioning into a complex pattern of overlapping, semi-transparent blue geometric shapes on the right. These shapes, including triangles and parallelograms, are arranged in a way that creates a sense of depth and movement. A bright, glowing light source is positioned on the right side, casting a strong beam of light across the scene and creating a lens flare effect.