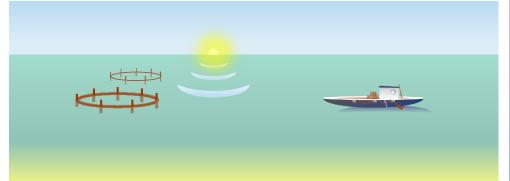




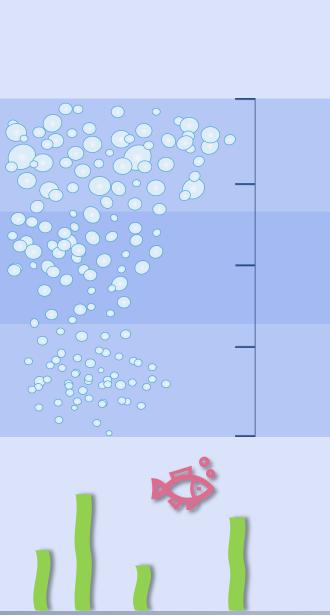
OK NOZZLE

ULTRA-FINE BUBBLES

AQUACULTURE SOLUTIONS



ULTRA-FINE BUBBLES - CLEANING WATER – ECONOMICAL AND ECOLOGICAL SOLUTION



Macrobubbles — big visible bubbles.

Quickly rises to the surface, creating movement in the water column. Going up they catch debris and bring it to the surface.

Small and microbubbles — much smaller but still visible bubbles.

They stay in the water for some time. Usually up to 1 hour. Some of the bubbles of that type merge with others, forming large bubbles. Some of them burst under the water pressure, dissolving. Dissolved oxygen in water is crucial not only for aquacultures but also for aerobic bacteria. The more saturation is the more actively aerobic bacteria decompose organic matter, improving the condition of the water reservoir.

Ultra-fine bubbles (nanobubbles) — bubbles with size $\leq 1 \mu m$ (< 200 nm).

Invisible to the naked eye. Able to remain suspended in water for a long time (sometimes for weeks).

Most of the polluted water sources have a thick layer of sediment at the bottom. This layer is usually in an anaerobic state, as little or no oxygen enters the sediment. Nanobubbles, moving randomly due to the Brownian motion, effectively contacting with the sedimentary layer. They penetrate the sediment, and dissolves inside it, making sediment layer turn to aerobic condition. This accelerates the oxidation and decomposition of organic matter, thereby clearing the sediment layer.

SCIS.LTD
Smart Business Development Solutions

ULTRA-FINE BUBBLES – NANOBUBBLES FEATURES

Ultra-small size

High Stability

Negative Charge

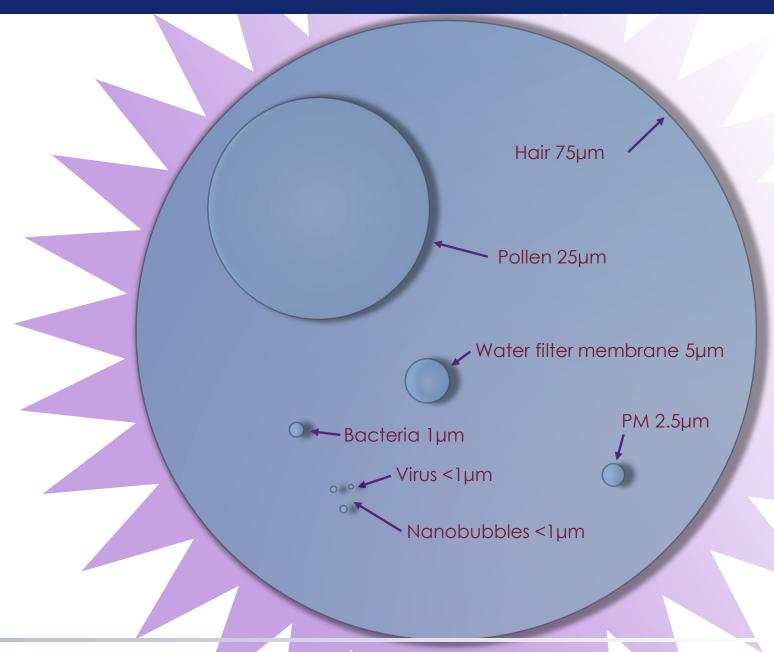
High Penetrative Ability

Brownian Movement Tendency

Reduction of the Surface Tension of Water

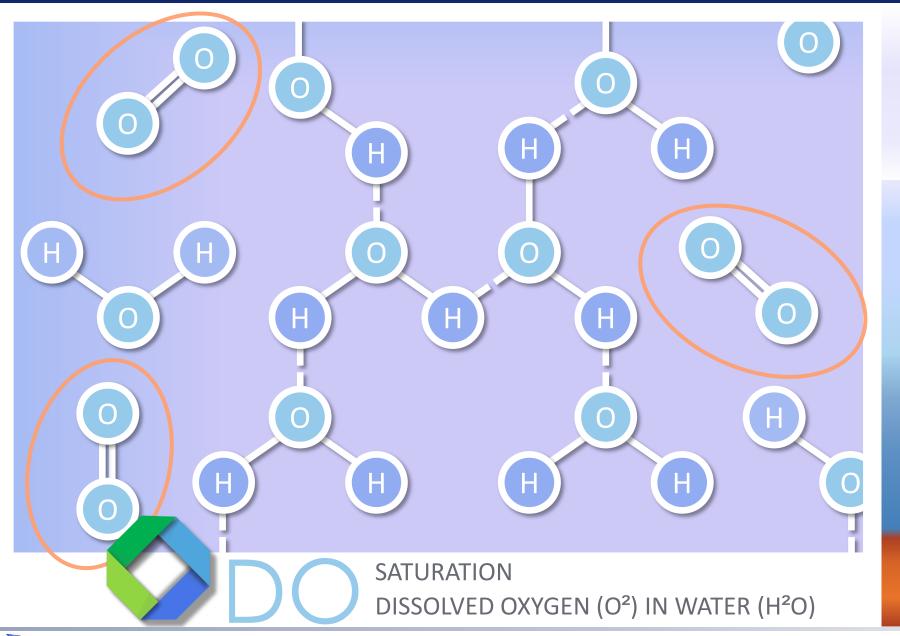
High Surface Area to Volume Ratio

High Surface Tension and Gas Pressure Inside





ULTRA-FINE BUBBLES – SATURATION BY AIR





DO up to 100%

Upper layer of water

DO up to 60%

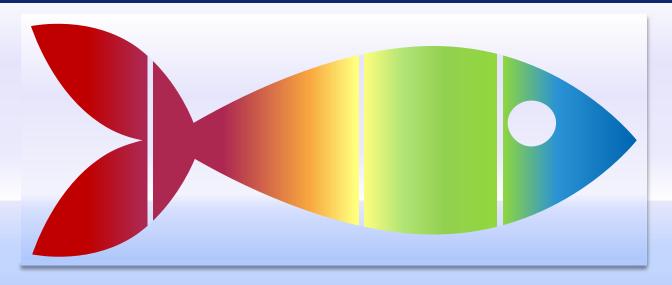
Deeper layer of water

DO 0%

Sediment layer



ULTRA-FINE BUBBLES - SATURATION BY NANOBUBBLES



<3mg/L no population

4-6 mg/L survival up to 48h (stressful condition) >7mg/L growth and spawn possible >9mg/L adequate for large populations The oxygen-to-water transfer efficiency for ultra-fine bubbles exceeds 85% for both fresh and sea water, regardless of temperature!

Together with other beneficial effects such as - water purification, increased transparency of water, odor reduction, reduction of harmful algae and bacteria, as well as the general improvement of the water reservoir, - using ultra-fine bubbles for water saturation is the most efficient, modern, and most importantly, environmentally friendly solution for any aquaculture enterprise!

Low level of dissolved oxygen are especially detrimental to cold-water fish species. Trout, salmon, sturgeons - all are very sensitive to the lack of DO. Even if adults could endure at DO=6.5-7mg/L, levels below 11mg/L delay eggs hatching and levels below 8mg/L impair growth and reduce the percentage of survival of young species.

When the dissolved oxygen concentration falls below 6mg/L, although it is normal condition for most of the warm-water fish species, the vast majority of trout, salmon and sturgeon eggs die.





ULTRA-FINE BUBBLES - AQUACULTURE APPLICATIONS

Decreased dissolved oxygen (DO) levels are considered as a major cause of poor quality of water.

Oxygen in the water is not only vital for fish and other aquatic animals, but also for aerobic bacteria that help decompose organic matter.

The implementation of the ultra-fine bubbles (nanobubbles) technology to aquaculture facilities could be done at every stage: from hatching and breeding to the transportation of final products.

Ultra-fine bubbles improve water quality and clarity, reduce dirt and odor, increase dissolved oxygen level and keep fish healthy without the use of any chemicals.

Using nanobubbles also increase the efficiency of other technological solutions at every step of the production chain.

From fish and seafood farming to algae farming, nanobubbles are the perfect solution for any kind of aquaculture!



The introduction of nanobubble system may significantly reduce or even completely eliminate the need of use of harmful substances in aquaculture

www.scis.ltd





Page 6

DISCLAIMER & CONTACTS



SCIS group is a distinguished leader in international Business Development, specializing in strategic entry strategies and implementations, corporate finance and IT outsourcing. Our accomplished team boasts over 30 years of individual expertise, having previously held key positions in BIG 4 and major corporations. With a robust track record of successful projects with top-tier companies and banks, we bring unparalleled experience to every endeavor. Headquartered in Hong Kong, SCIS ltd. extends its global reach with offices in the USA, France, UK, Czech Republic, UAE, and Japan. Elevate your business aspirations with our seasoned professionals and comprehensive services.



Alex Bezberdy Ing, Ph.D

Managing Partner, SCIS Ltd ab@scis.ltd +971 508 359 263



Japanese Partner

KMJ Co., Ltd. sales@km-japan.com +81 80 1516 9894

CONFIDENTIALITY WARNING:

The information contained in this presentation is confidential or protected by law. If you are not the intended recipient, please contact the sender and immediately delete all your copies of this document. Any unauthorized copying of this document or unauthorized distribution of the information contained herein is prohibited.

DISCLAIMER:

This preliminary information has been prepared by SCIS Ltd which conducts the search of potential Buyers and Partners in cooperation with KMJ Co. Ltd., Japan, a representative of the OK ENGINEERING CO., LTD, Japan. The information and opinions contained in this document are derived from public and private sources which we believe to be reliable and accurate. Nevertheless, this information cannot be warranted as to their absolute accuracy, completeness or correctness. In particular any numbers, initial valuations and schedules contained in this document are preliminary and are for discussion purposes. Therefore, this information is supplied on the condition that neither SCIS Ltd, nor any partner or employee of SCIS Ltd, are liable in any way for any type of error or inaccuracy contained herein. The SCIS Ltd does not take any liability for loss or damage suffered due to such an error.