



## Smart Water Treatment with UltraFine bubbles



Tadej Zajšek co-founder & CEO

[zajsek@waboost.com](mailto:zajsek@waboost.com)

We boost the value of water!

# Global challenges for the future of agriculture water

- AG Consumes **70% of the available fresh water** for irrigation and watering  
(EU from 35% up to 80% in S Europe)
- More than 70% of the agriculture water in use is **contaminated** with pathogenic bacteria
- Agriculture is huge source of **pollution** of waterways and resources



\* Sources: UN-FAO, EPA, Eurostat

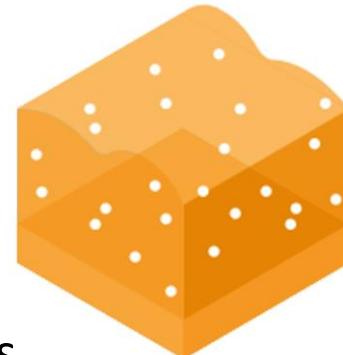
CONFIDENTIAL | All rights reserved Waboost | For internal use only



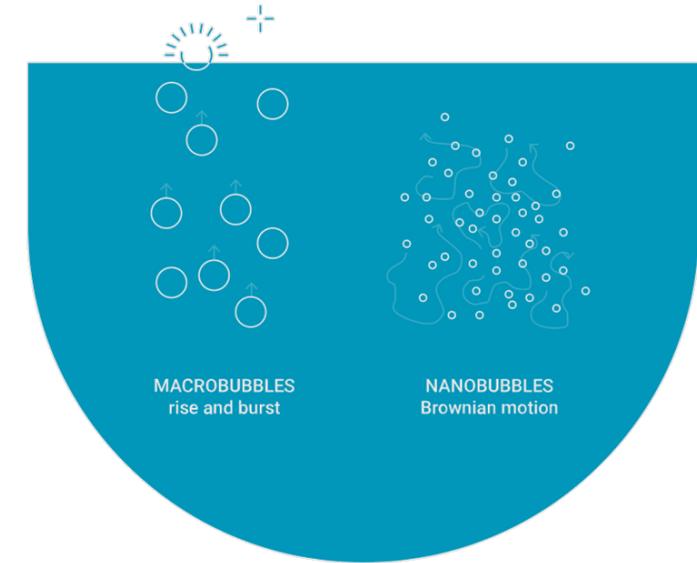
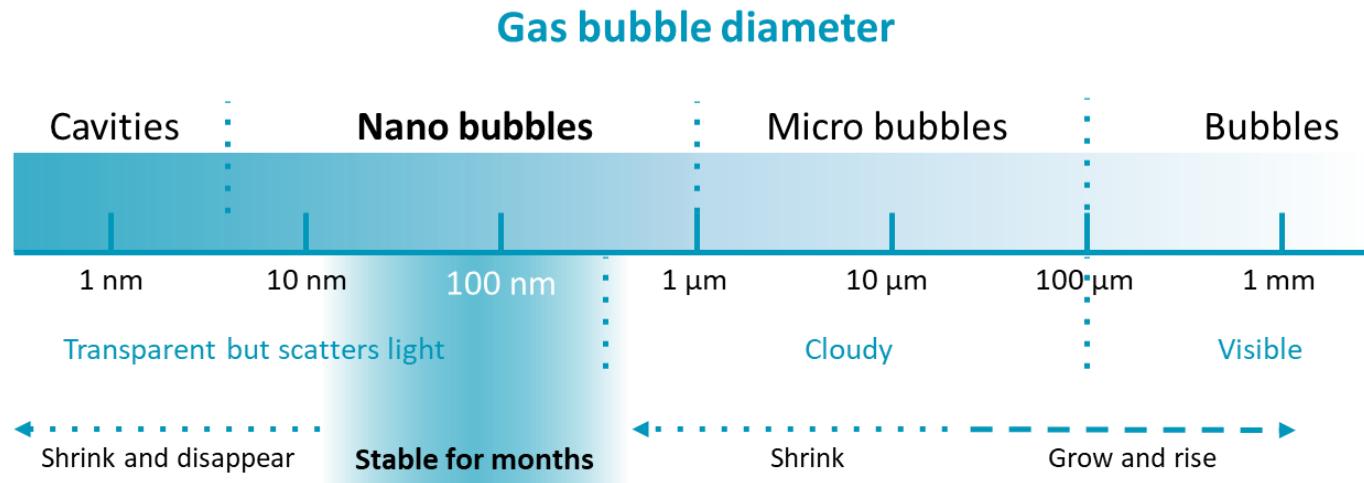
# Problems and Consequences of poor water quality

- ! Presence of microorganisms & heavy metals
- ! Algae growth in water reservoirs
- ! Biofilm and lime scaling in pipelines
- ! Low levels of dissolved oxygen

- ↳ Loss of water
- ↳ Lower water quality
- ↳ Higher growth loss
- ↳ Excessive use of chemicals
- ↳ High costs



# Ultra Fine Bubbles or Nanobubbles in Smart Water treatment tech



Nano bubbles have unique properties for water:

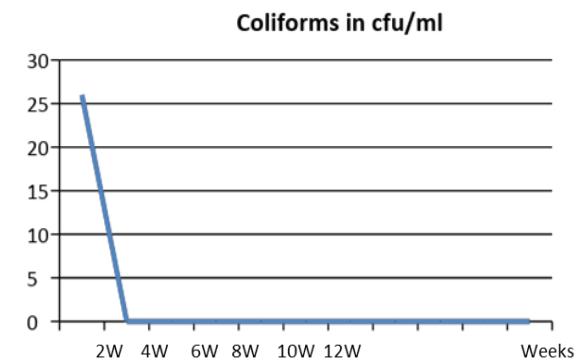
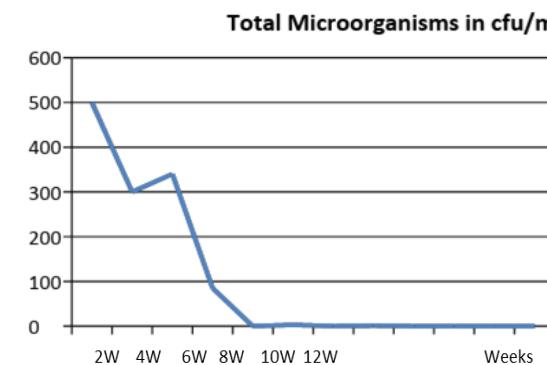
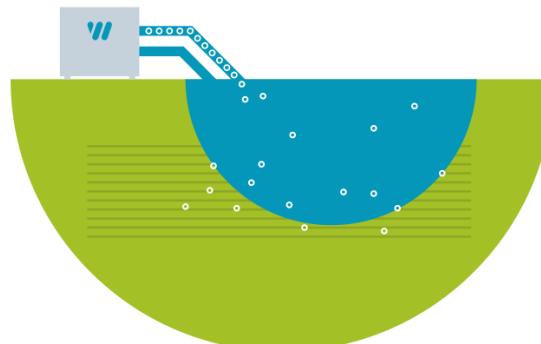
- Extremely small → Excellent solubility
- No buoyancy → Excellent gas transfer
- Resilience → Stable for months
- Electrically Charged → Excellent surface adsorption
- Free radical formation → Powerful oxidation

These unique properties enable Ultra Fine Bubbles to provide *radically* new, disruptive and proven potential for **water treatment and enhancement** applications.

- ✓ Can remain suspended in water for long time and distances
- ✓ Increases water's gas holding capacity by up to 300%
- ✓ Excellent mixing - aerates entire water body
- ✓ No coalescence among other bubbles

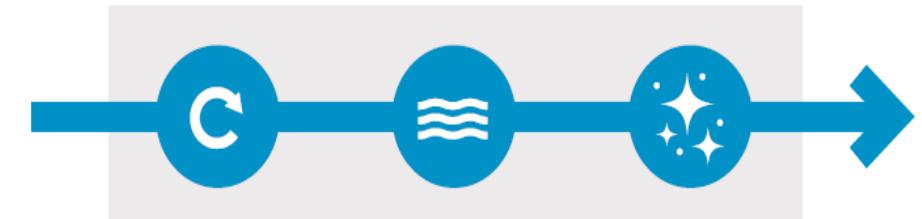
# Positive influence on water quality

- Completely removing bacteria and viruses, prevention of algae growth
- Removing biofilm, plaques and reducing heavy metals in water
- Improved water culture wellbeing and plant health
- 100% operation with no chemicals
- Fast disinfection with Smart Water:



# Waboost Smart water system

Smart water treatment system **infuses Long-living Oxygen Nanobubbles** (also Ozone, CO<sub>2</sub> or other gas) into water body or plant irrigation water.

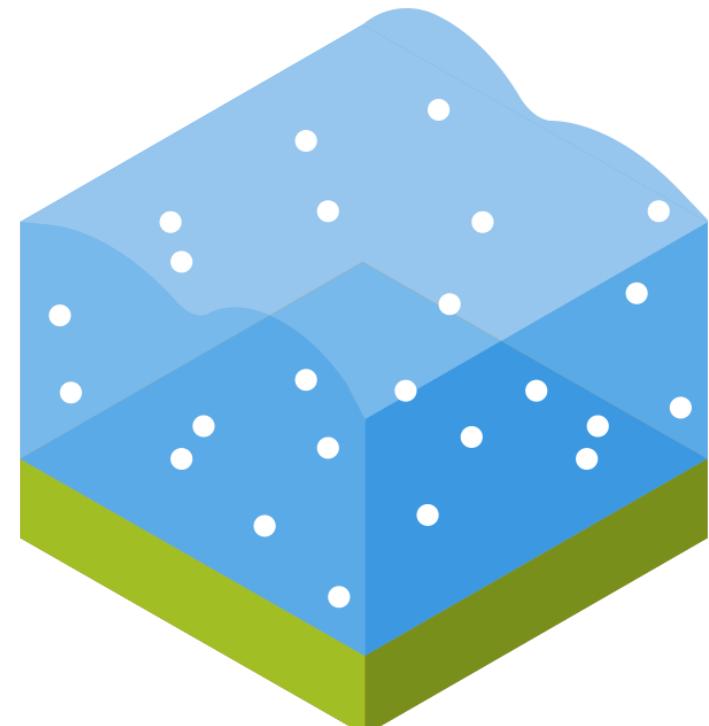


**RESTORE > STABILIZE > ENHANCE**

Solution is Natural Process to:

- **permanently disinfect and purify** the water and
- **enrich it with dissolved oxygen**, which ensures more efficient growth and health of animals and plants.

Water is measured at entry, restored, stabilized, enhanced and sent further. Process is remotely monitored and measured in real time.



# We optimize water value for your business model

Oxygen and Ozone nanobubble injecting system for water aeration is managed, monitored and automated remotely (IoT)

- Solution can fit **into any existing water treatment process** with easy upgrade
- **Our proprietary technology** enables worry-free operation and exceptional results



Waboost mobile control and monitoring system



\* Award

Best Ag  
HiTech  
Provider  
Slovenia  
2020

# Smart water digital services



# Our market segments with product/market fit are:

- **Greenhouse and Outdoor farming**  
(vegetables, industrial plants, horticulture, turf...)
- **Livestock breeding**  
(beef, pork, poultry, fish & aquaculture...)
- **Sports & recreation turfs**  
(football, golf & other sports courts, parks...)
- **Fresh water storage tanks**  
(rain or well water, desalination systems...)
- **Surface water natural cleaning, purification and restoration**  
(lakes, ponds, nature water bodies)
- **Waster water treatment**  
(agriculture, industrial, urban)



# Relevant field of our Smart Water experience and references

Sports turf



Lakes & Irrigation



Horticulture



Agriculture



Fish farming



Waste water



Fish farm

... before



... with  
Smart Water



Sports turf roots  
with Smart Water



Vegetables roots



... before



... with Smart Water



# Benefits and advantages of using Waboost solutions in horticulture farms

- Improved plant health, bigger product yield (10% - 30%)
- Reduction of fertilizers spent
- Pathogen free water
- Biofilm and scale removal
- Reduction of chemicals for water and pipelines disinfection (up to 100%)



# Benefits and advantages of using Waboost solutions in livestock farms

- Reduction of mortality and production loss  
(up to 60%)
- Increased production and yield  
(15% - 30%)
- Reduction of antibiotics and Vet  
(up to 30%)
- Improved Food conversion and Nutrients intake ratio  
(up to 15%)
- Cost reduction and revenue boost



# Waboost is looking for strategic partners!

Agriculture and water treatment business **opinion leader** companies and **early adopters** for:

- Setting and improving new agriculture sustainability and efficiency metrics for **business impact of smart water quality**
- **Testing and implementing new sustainable technologies** and digital solutions for large scale environmental friendly and sustainable agriculture in region
- **Opening new regional markets** to generate better Ag-business results with lowering environment and energy impact





**Our products and solutions for the future of aquatic environment, provide a drastic increase in the efficiency and economics of water management, while greatly reducing the impact on water resources and people.**

Wabooost d.o.o. | Bezigrad 6 | SI-1000 Ljubljana | Slovenija | Europe

This Presentation shall not be reproduced, copied, or distributed in any form without the written permission of Wabooost d.o.o.

