

WABOOST d.o.o.

1. Company Overview

WABOOST d.o.o., Tehnološki park 19, 1000 Ljubljana, Slovenia

- Established: 2018
- Private limited company (SME)
- 15+ years of scientific expertise in nanobubble technology
- In-house hardware and software R&D
- Operations across multiple continents

Waboost is a Slovenian high-tech company specialising in advanced nanobubble water treatment and optimisation systems. The company develops chemical-free, energy-efficient solutions for water disinfection, oxygen enrichment and process optimisation across agriculture, aquaculture, wastewater and industrial sectors.

Waboost combines proprietary nanobubble hardware with digital monitoring and optimisation software, delivering sustainable water treatment solutions with measurable performance improvements.

Website: <https://waboost.com/>

2. Core Capabilities & Technologies

Waboost develops nanobubble-based water treatment systems that directly impact water quality, efficiency and availability.

Key Technological Strengths:

- Nanobubble generation (up to 40 billion ultrafine bubbles per 200 ml)
- Chemical-free disinfection and oxidation
- Long nanobubble lifetime (up to 4 months in water bodies)
- High oxygen transfer efficiency (>90%)
- Heat- and chemical-free water sterilisation
- Removal of pathogens, heavy metals and toxic algae
- Integrated oxygen and ozone generators
- Modular and scalable system architecture
- IoT-enabled SmartWaterPlatform with remote monitoring

Nanobubbles operate through:

- Extremely small size (nanometre range) with significantly enlarged active surface area
- Negative charge for even dispersion and binding
- Oxidation potential via OH radicals
- Ability to transport multiple gases (oxygen, ozone, CO₂)

3. Product Portfolio Relevant for the Philippines

Waboost Nanobubble Generators (Fauna, Flora, Gea Models)

- Water flow rates: 1–100 m³/h
- Built-in oxygen and ozone generators
- Fully automated remote operation
- Modular and customisable configurations
- Embedded sensors and remote monitoring

Applications include:

- Drinking water treatment
- Wastewater optimisation
- Irrigation systems
- Aquaculture (RAS)
- Mining and industrial processes
- Open water restoration

SmartWaterPlatform

Integrated IoT platform for:

- Real-time monitoring of DO, ORP, pH and EC
- Remote control and optimisation
- Cloud-based central management
- Predictive water quality management

4. Demonstrated Performance

Waboost systems demonstrate measurable impact in agriculture and water-intensive sectors:

Yield Increases (selected crops)

- +60% Cucumber
- +50% Turf
- +47% Trees
- +35% Rocket
- +30% Lettuce
- +21% Pepper
- +15% Tomatoes

Additional documented benefits:

- Improved sewage treatment capacity
- Reduced energy usage in legacy plants

- Increased aquaculture yield and fish health
- Cleaner open water bodies (lakes, ponds, reservoirs)

5. Target Sectors in the Philippines

- Department of Agriculture
- Department of Environment and Natural Resources
- Water utilities and wastewater operators
- Irrigation authorities
- Aquaculture and fisheries sector
- Food & beverage processing
- Mining operations
- Local government units (LGUs)

6. Use Cases Relevant to the Philippines

Agriculture & Irrigation

- Improved crop yield under water stress conditions
- Reduction of pathogens and biofilm in irrigation systems
- Chemical-free fertiliser booster effect
- Improved nutrient absorption

Aquaculture

- Oxygen enrichment for higher stocking density
- Reduced disease and mortality
- Improved feed conversion ratio

Wastewater & Legacy Infrastructure

- Retrofitting of ageing treatment plants
- Increased treatment capacity
- Lower OPEX and reduced chemical usage
- Energy savings in aeration processes

Open Water & Environmental Remediation

- Algae bloom mitigation
- Heavy metal reduction
- Odour control
- Biodiversity restoration

7. Competitive Advantages

- Fully chemical-free water disinfection
- Direct impact on quality, quantity and efficiency pillars of water treatment
- High gas transfer efficiency (>90%)
- Integrated oxygen & ozone generation (unique market positioning)
- Modular retrofitting into existing infrastructure
- IoT-enabled remote management
- Lower CAPEX and OPEX compared to traditional treatment upgrades

8. Deployment & Cooperation Models

- Waboost seeks cooperation in the Philippines through:
 - Pilot projects with water utilities and irrigation authorities
 - Joint implementation with agricultural cooperatives
 - Retrofitting partnerships with wastewater operators
 - Collaboration with mining and industrial operators
 - Distribution partnerships for local installation and maintenance
 - Government-supported demonstration projects

Cooperation focus:

- Sustainable water security
- Reduced chemical dependency
- Improved agricultural productivity
- Energy-efficient wastewater treatment
- Environmental resilience

9. Primary Contact

Bostjan Veronik

CEO

Email: veronik@waboost.com

Telephone: +386 31 382 434

Website: <https://waboost.com/>