AUTONOMOUS INSPECTION OF WATERWAYS, PORTS AND SEA
Today's challenges in the field of river, harbor and sea monitoring & maintenance are complex and require a multidisciplinary approach. Water authorities and maritime contractors or operators do not always have full insight in the effects of underwater operations, marine assets and maintenance interventions. Adequate information leads to significant cost savings and risk reduction.

Therefore, there is a great need for extensive and reliable data, to acceptable costs and with reduced environmental footprint.

**The solution: Autonomous Surface Vessels**

Our Autonomous Surface Vessels (ASV) are multi-use robots with a wide range of sensors enabling an autonomous operating system with object detection and avoidance. They can collect, analyze and interpret data, which simultaneously facilitates our predictive maintenance models. These can deliver data processing and predictive maintenance algorithms that fit client workflows and software.

**More data, less costs, lower footprint.**

We develop sustainable solutions in open collaboration with technical frontrunners, customers, development partners, research institutes, suppliers and experts.

We aim to realize the highest value for human, economic and ecologic progress by protecting & maintaining the waters in a more sustainable, safe & cost-efficient way.
Company Profile

High-end technology
We focus on high-tech solutions for cutting edge autonomous surface vessel platforms

Quality & safety
Our goal is to keep quality and above all safety in the highest regard to deliver highly reliable products

Customer satisfaction
Our clients are always top priority and their satisfaction the main driver behind our ambitions

Partnerships & ecosystems
We always aim for constructive cooperation and co-creation through strong and long-lasting partnerships

High impact solutions
We consistently aim to contribute globally with impactful solutions and use of new technology
Added value of Unmanned operations

- 24/7 operation
- Fully autonomous
- 0-1 person crew
- High safety
- Low OPEX
- Clean tech
- Low CAPEX
- Multiple applications
Introducing: Aquatic Drones Phoenix 5
Length oa: 5m
Beam: 2m
Draft: 0.55m
Deadweight: 1200 – 1500 kg
Fits in 40ft. Incl. trailer
Fully electric or hybrid power
Max. range: 450km
Max. speed: 10 knots
Tailored set-up
Winch system on board
5 sensor systems onboard for situational awareness:
• Automatic Information System (AIS)
• RADAR
• LiDAR
• Camera
• Forward Looking Sonar (FLS)

Sensor data are processed and overlapping signals are cross checked for highest secured situational awareness
Our communication system consists of multiple modules, to ensure a stable connection in any application and environment.

- **4G data connection** (from multiple providers)
- **Broadband Radio link** (long-range dedicated connection)
- **Radio Frequency** (short range connection)
Our USVs are equipped with high-end technologies and intelligent solutions. This enables the platforms to be operated in various applications and domains. To keep advancing, we continuously develop and improve the system.

We develop novel solutions such as platooning, swarming and we keep improving our sensor suite and autonomy systems.

For these developments we partner up with our value chain and top-notch R&D institutes.
Aquatic Drones

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