



Automated surface water research and monitoring system

Introduction



What is WALISE?

WALISE is a low cost, low maintenance, deploy-and-forget system for continuous surface water research and monitoring.

One of the professional indicators of its creation was the demand caused by climate change to provide fishing lake operators and researchers a commercial-grade early warning system to assist them in the prevention of fish kills by scientifically forecasting oxygen-deficiency trends through the autonomous and continuous monitoring of multiple water, air and soil parameters.

It provides researchers a complete, ready to use tool-set from the layered monitoring of the whole water column, through the multi-parameter monitoring of water and air, all the way to the monitoring of chemical compounds in the soil of the banks or shores of our surface waters.

As all data is stored in an online database, the system is applicable for a wide, even a multinational use. All data are time synchronized and GPS stamped for easy evaluation and analysis.

WALISE could easily support several research cases as it is open for the integration of a great variety of sensors.

It is completely made in Europe, CE, ISO 9001, ISO 27001 certified and has its intellectual property protection pending.

See how it works: <https://walise.com/en/how-it-works/>



Figure 1 - WALISE in action

Increase your research efficiency with WALISE!

WALISE can expand your research and monitoring efficiency the following ways:

Eliminate geographical and research-cultural limits. WALISE devices can operate and communicate their data into the cloud globally. You can easily create homogeneous multinational research and monitoring projects with it as the use of the same data collecting platform at all locations can provide easily comparable, time synchronized and GPS stamped data for research.

Spend more time with real scientific work. Fieldwork is part of the research and monitoring efforts, but it takes time and resources from the actual scientific work. WALISE provides a deploy-and-forget, autonomous data collection and monitoring platform that can reduce the time and other resources you normally would spend on the fieldwork.

Open new research topics. WALISE lets you perform research and monitoring in the whole water column. This could open the way to research stratification and could add the 3rd, underwater dimension to the current, mostly surface based 2D research and monitoring. WALISE lets you collect data from water, air and soil simultaneously, therefore the parallelly and synchronously collected data can lead to the research of new correlations.

Save money. By creating a wide monitoring and data collection network based on the long lasting WALISE platform, multi-phase researches can use the same, only once installed monitoring devices. Indeed, the monitoring devices can accept multiple sensors, therefore new research targets can be performed by simply changing the sensors on the once and previously purchased base-devices.

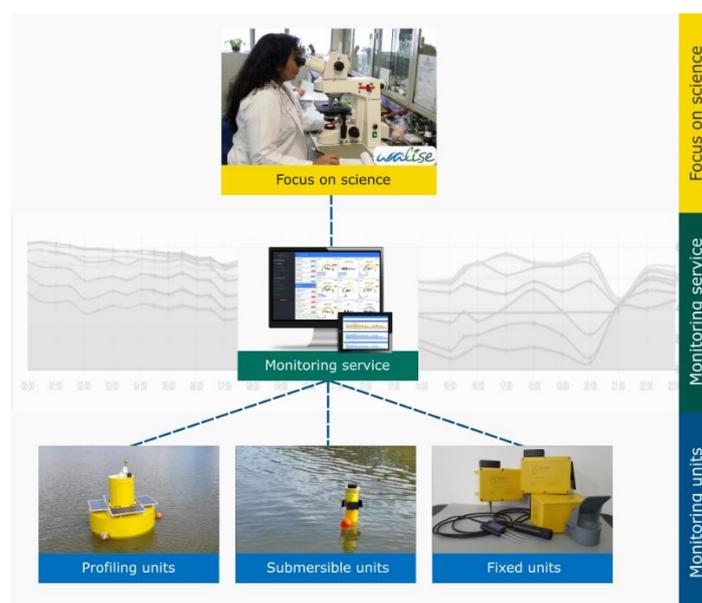


Figure 2 – WALISE could support scientific research efficiency



Contact

WALISE automated water quality monitoring and early warning system.

Made in Europe | ISO 9001 | ISO 27001 | CE

Website: <https://walise.com/en/>

Point of contact: **Mr. Ferenc Szabo**
product manager, WALISE
Phone: +36 20 544 8326
E-mail: szf@esh.hu
Office: Raktár köz 6., Kaposvár, H-7400 Hungary

Manufacturer: **ESH Ltd.**
Address: Raktár köz 6., Kaposvár, H-7400, Hungary
E-mail: info@esh.hu

Disclaimer

This document serves only as a general introduction of WALISE. The general information does not constitute an offer and does not generate any obligation for the reader, the publisher, or the manufacturer or distributor.

It is free to be distributed within the scientific, academic and business community but not to be published to the general public or media – including the internet, prints, press or presentations. This document is protected by copyright. All rights reserved!

Even with the most careful editing and change tracking, the document may contain typos. We reserve the right to correct errors.

Document reference id: WALISE-Introduction-Research

Version: 2023-10-12. Ask the manufacturer for the latest version.