

Environmental monitoring

Role of citizens increasing

The Finnish Environment Institute (SYKE) coordinates national monitoring of environmental pressures and the state of the environment. The Environmental Monitoring Strategy 2020 sets the guidelines for example monitoring water, biodiversity and air. We have over 100 000 lakes and ponds to be monitored.

An important direction is involving citizen and providing them with suitable tools. Also, to measure the exact state of each of these water bodies, much effort is put into the development of both satellite and model -based services. Both of them need validation and calibration data, which citizens can provide.

Wiki – the web service of Finnish lakes and the Baltic Sea

The LakeWiki contains basic information on each Finnish lake over 1 ha in extent and tools for sharing ie. observations and pictures. The idea of LakeWiki is to become a virtual meeting point for people living around a specific lake, where local people can discuss the state of their lake and start restoration projects with the help of authorities. In LakeWiki citizens can maintain observation sites, upload pictures, announce events, discuss matters related to a specific lake or water protection in general.

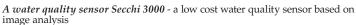




Wiki -mobile services

 $\ensuremath{\textit{AlgalWatch}}$ – an smartphone app for sending and browsing observations on algal blooms.

- taking a photo
- assessing amount of algae
- sending your observation.



- for water turbidity measurements (TSM)
- for secchi depth measurements
- for water color measurements
- Chromophoric dissolved organic matter measurements (CDOM).



Secchi3000 and a mobile phone on the top of the device. Inside the container there is the measurement structure with plates consisting of white, grey and black target areas.

