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## DEVELOPING MOBILE SERVICES FOR IN-SITU MONITORING, DATA STORING AND SHARING (HALI)

Elsa Mäki, Priscila Estrada, Jenni Koivuniemi & Minna Vartiainen

Savonia University of Applied Sciences

### ABSTRACT

#### Developing mobile services for in-situ monitoring, data storing and sharing (HALI)

Planning of a water quality measurement device package for volunteers as part of the National environment monitoring strategy and development program MONITOR2020

Students: Ms. Elsa Mäki, Priscila Estrada, Jenni Koivuniemi & Minna Vartiainen, Savonia University of Applied Sciences. Supervisors: Teemu Räsänen, Antti Kanninen and Jari Silander

##### Project background

The HALI project is coordinated by the Finnish Environmental Institute with its intention to create possibilities for digitalization of field observations and measurements, and the implementation of new procedures and technologies as well as increasing the participation of volunteer citizens in water monitoring.

##### Project aim

The main aim of this project was to develop a practical and functional water quality measurement device package for volunteers willing to participate in the monitoring of aquatic environments like lakes and rivers.

##### Project stages

The project started by making a survey, which would help to determine people's interest in water monitoring as well as the measurements and parameters that they find most important.

After this, different measuring devices were ordered and tested in the laboratory for reliability and suitability for Finnish natural waters.

Finally, the information obtained from the survey and the tests were used for creating the water quality measurement device package for volunteers.

##### Results

The outcomes of this project were survey results, a laboratory analysis of the water quality and finally, instead of only one package, three water quality measurement device packages for volunteers were selected.

The packages were selected based on usability, reliability and price. The target groups for each package were school children, volunteers with basic skills and volunteers with advanced skills.



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