

How to make citizen science blossom: Algae sightings in Finland

Matti Lindholm, Finnish Environment Institute (Syke)



Connection to the HELCOM Baltic Sea Action Plan (BSAP)

Segment

Horizontal topics: Knowledge exchange and awareness raising



BSAP Actions

• HT27 Increase knowledge exchange and awareness raising to promote public and stakeholder support and interest in under-standing the state of the Baltic Sea and threats to its environment as well as promote opportunities for the general public to participate in citizen science.



(cyanobacteria)

Finnish algal bloom monitoring since 1998



No algae





Abundant with algae



Very abundant with algae



From observations to an assessment

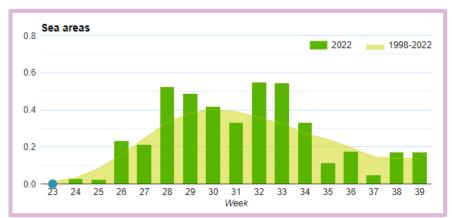
Site-specific development



Weekly maps



Algal barometer







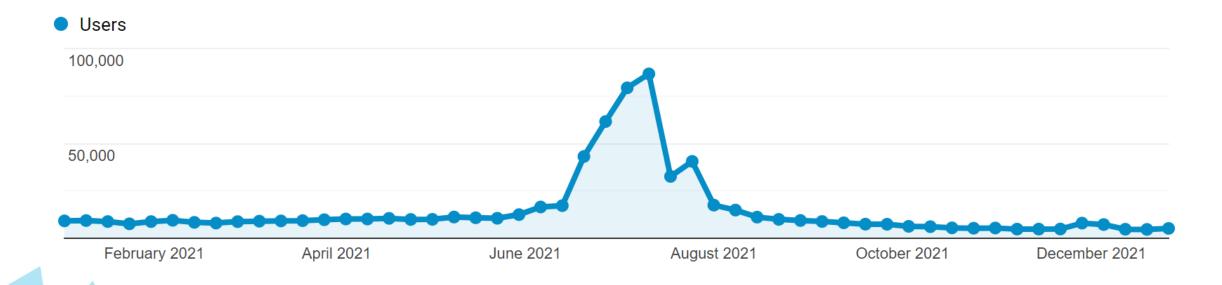
A wiki service for citizen observations

- A page for each lake and coastal water body in Finland
- Anyone can edit the introdoctory text of a water body
- All users can set up their own observation sites
- Observations on blue-green algae, water level, water temperature, nutrient concentrations, secchi depth and many others can be uploaded to each site





Lake-seawiki is popular during summer





CHALLENGES TO OVERCOME

Very few contribute

For large Wikipedias active contributors make up only

0.2-0.3%

of all visitors

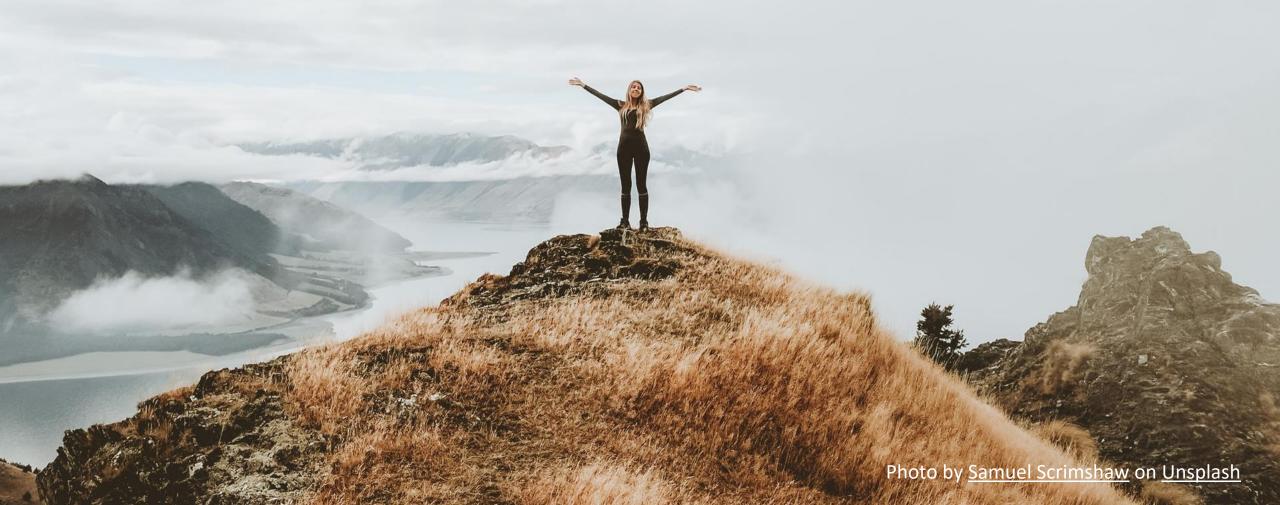
Source: Wikimedia users



Photo by Jake Weirick on Unsplash

CHALLENGES TO OVERCOME

It is relatively easy to get someone to participate once. The real trick is to have the same person collaborating again and again.

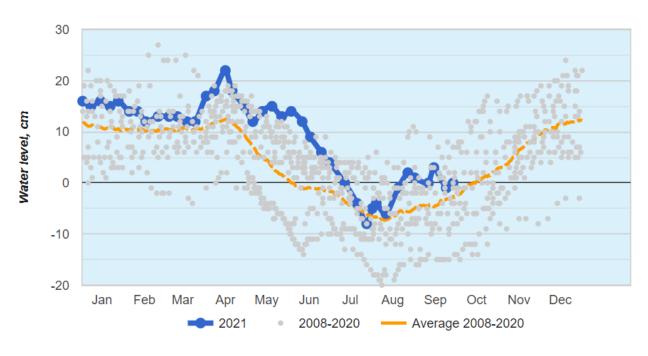




LAKE-SEAWIKI USER PERSONA

The desk drawer observer

1,750 citizen observations on lake Valkjärvi.



Motivational factors:

- Learning
- Sense of control
- Accomplishment





180 new weekly observations sites to the algal bloom monitoring campaign by the Finnish rotarians





ALWAYS ROOM FOR IMPROVEMENT

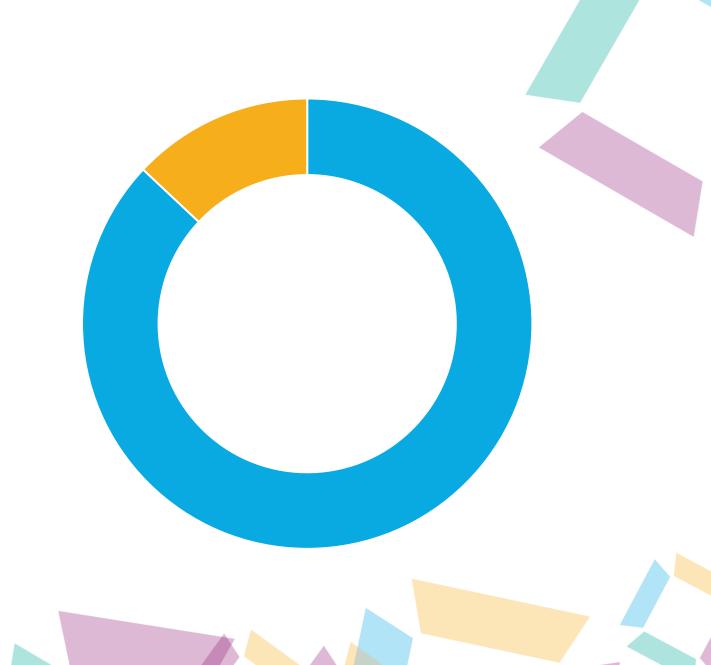
Equality is not evident

In Wikipedia only

13 %

of the contributors are women.

Source: Wikipedians





Thank you!