



Experiences: collecting data by crowdsourcing - hopefully

BONUS BALTICAPP - project

Wellbeing from the Baltic Sea – applications combining natural science and economics



T4.1 Collecting and endorsing citizen knowledge with BalticAPP mobile application [led by **LUKE** and together with SU and UH]

In this task an online platform, preferably a mobile application, will be developed with the aim to collect hidden information of public preferences related to the Baltic Sea. The platform would pool together relevant available information on state of the Baltic Sea (e.g. weather, algae blooming data and forecasts), while collecting spatially explicit data on routes and places where recreation occurs at the Baltic Sea. As a pilot, particular focus on the data collection will be on the occurrences algae and cyanobacteria during summertime, and possibly sea ice conditions during wintertime. The platform will be promoted widely in cooperation with relevant Baltic Sea stakeholders, including relevant NGOs promoting marine recreation and protection. By the end of the project the application will be evaluated and, if successful, its future will be investigated and promoted.

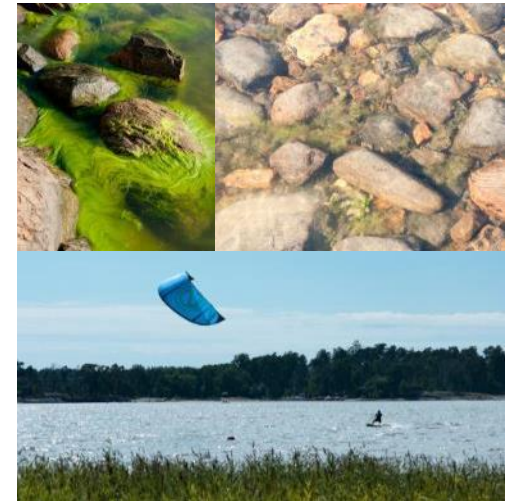
Why not?

Surveys are expensive – user panels and monitoring

Possibilities to put together:

- Citizens' experiences and knowledge
- Official information
- Scientists' needs

We just needed to try this out



What can we get?

Trading between potential users' needs and scientists' wants

We want location and frequency of visits vs. privacy

We're interested things that the ordinary citizen might not care about

Specific data collection vs. generalist approach

What can we give?

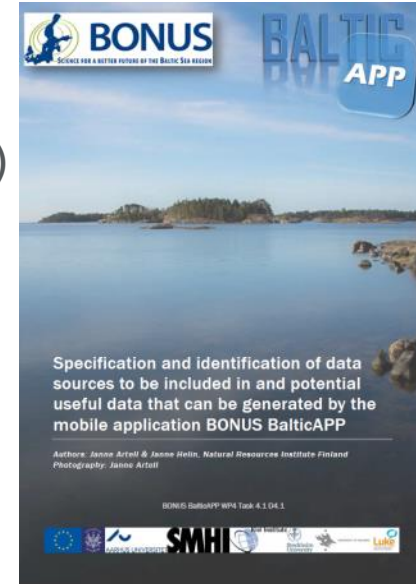
We wanted a Baltic Sea wide app...

Pooling open data (satellite imagery, weather, water quality...) hard to find for our purposes (time and expertise lacking)

Bathing water directive communications channel?

Up-to-date information sharing

Open source – the project ends, ensuring continuity? Adopt-an-app.



This is how it began.

Rahoittajat

- Bonus
- TES/BSAG / J. NURMINEN?
- FISH BRAIN

Ylläpitäjät

- BSAG?
- John NURMINEN?
- FISH BRAIN ?? (Chappellin)

Koodaus

- Tesos-app?
- FISH-BRAIN?

SOVELLUS



or just press map?

report
Search
info
location
return
Layers

Tieto

SMH

(Syke, IL)

ks. Itämeripohja
SYKE (ulkomat?) - levä, jää, vedenkorkeus, lämpö!
FORA, IL (-) - sää (lämpö, tuuli, sade?)
- kartta
- rantedirektori (e. coli)

Pohja! →
hahut
...
lin

TARPEET

- POI - virkistysalue
- palvelut
- mainosmyynti? ← kaupat
- leviämät? ← rahat
- mainosmyynti? ← V. Venesekun
- Säädata
- Suomi vs. muut alueet
- Sone
- kunnajako

Trip
advisor,
4 square
virkist?

Tuotokset (jaetaan käyttäjien pref. mukaan)

- Käytännön toteuttaminen?
- aikataulu (10 min välein?)
- toteutus?
- tarkkuus
- kuka vai auttaa toteutusta?
- mitkä tekijät?

• ajoittaiset suuret!
• varesse kootut
• kunnatko uusin

- tarvitse fikaa - asiat?
• rahat
• kunnatko hyödyntä?
- kalat?
• leivät

FOCUS GROUPS

VTT - leviämä

O pen streetmap?, Google, Here?
mut
Sea data set.org?

Constructing a tender

Uncerta

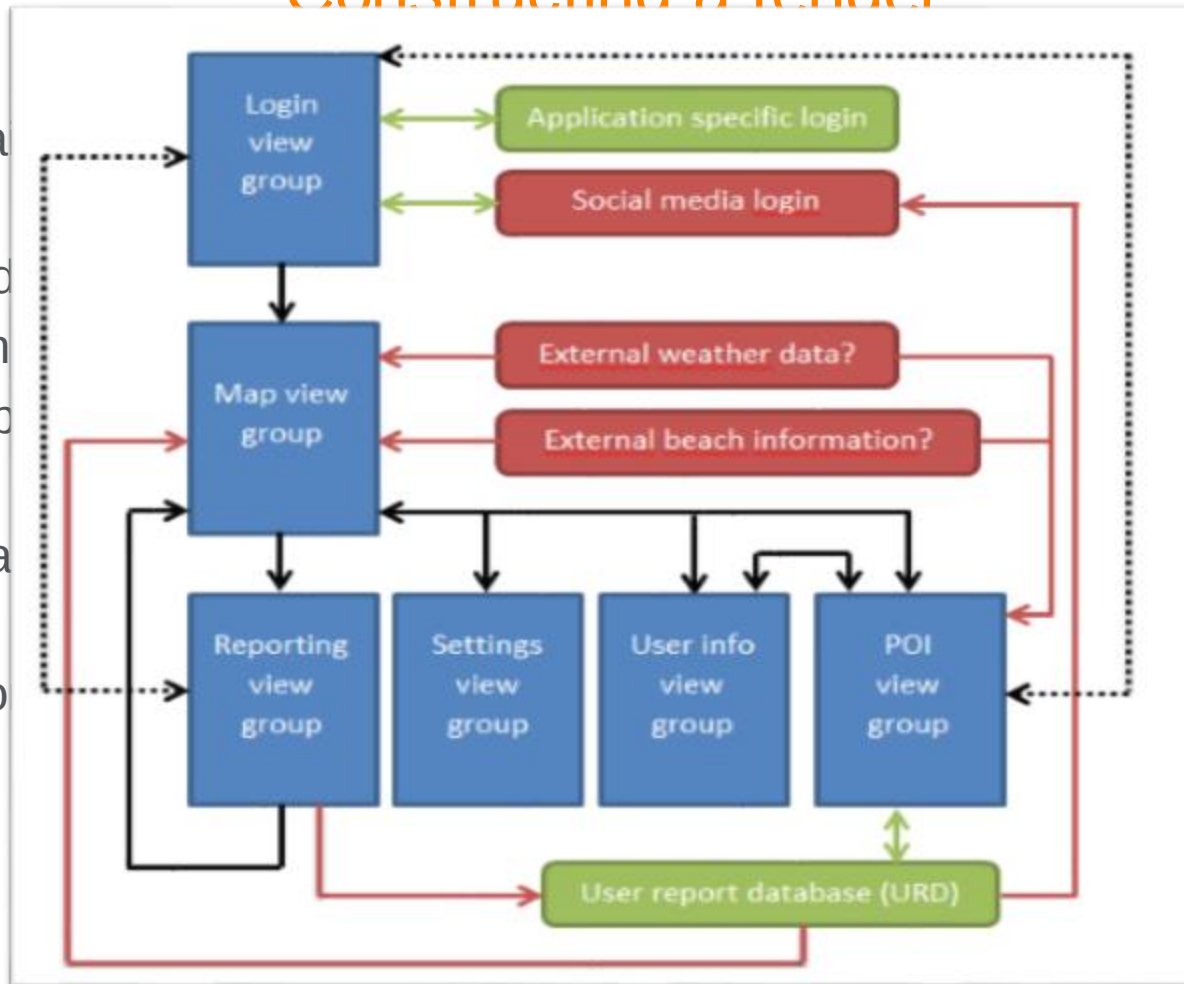
We mad

Min

Asp

Asked a

Hope fo



Appendix Baltic App – call for tenders in specification

well-being from the Baltic Sea – applications combining natural science and used by BONUS, the joint Baltic Sea research and development programme for by the University of Helsinki. The objective of the BONUS BalticAPP project is to yes for safeguarding a sustained supply of core ecosystem services that support viles and well-being in the Baltic Sea region under anticipated climate and socio- This tender focuses on the aims of a work package that utilizes citizen science to iv-cost methods to acquire spatially and temporally detailed data on the demand vices. The work package will pilot a non-profit mobile application that enables the ecosystem services to share spatially and temporally explicit information on the land and simultaneously, provide the research community and society valuable at areas of Baltic Sea recreation and other cultural ecosystem services.

ation of the Application System

lication System

ation System is to create a platform for a Mobile Web Application. The as the code for a web application and the required databases (not including data) using the web application over the Internet. The platform serves registered users f by other users, maps and information provided by the Application System chers using the database built by users.

tain figures to illustrate the basic features and lay-outs of the web application, he exact or final set of functionalities or design to be agreed upon. Minimum t in the tender, whereas the aspired levels - primary and secondary - are optional. are linked across the different view groups. These links are identified in the text gh (g3) for aspired level, primary modules, and groupings (x1) through (x4) for odules. The numbering of the parts is not preferential, but primary modules are dules.

represents the order of view groups and functionalities at each view group as the m using the application (blue boxes). Further, the flowchart suggests different ation into the application and requirements for user data storage (red rounded s, green for internal services). Green arrows represent data moving in two ead-only data input to the application, and black arrows represent the order and

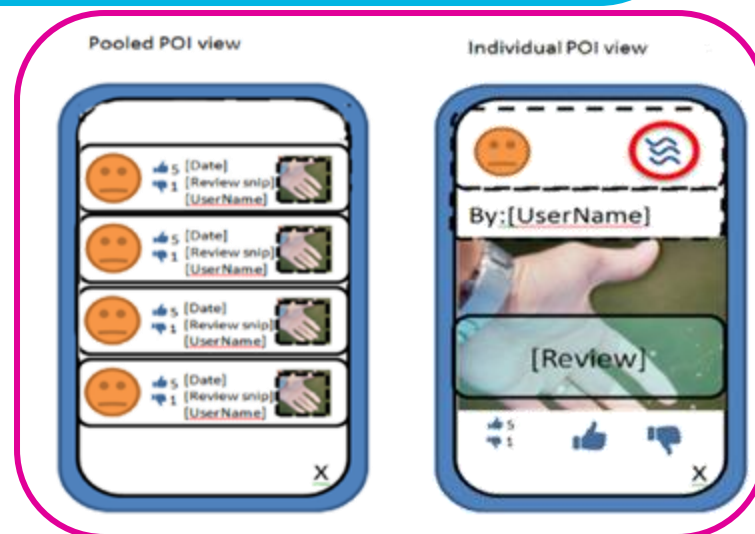
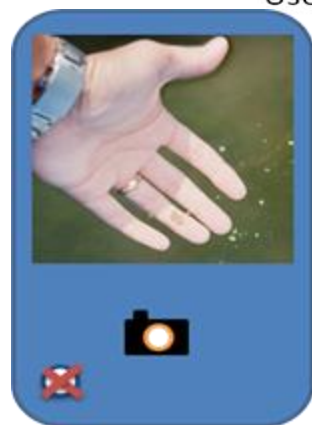
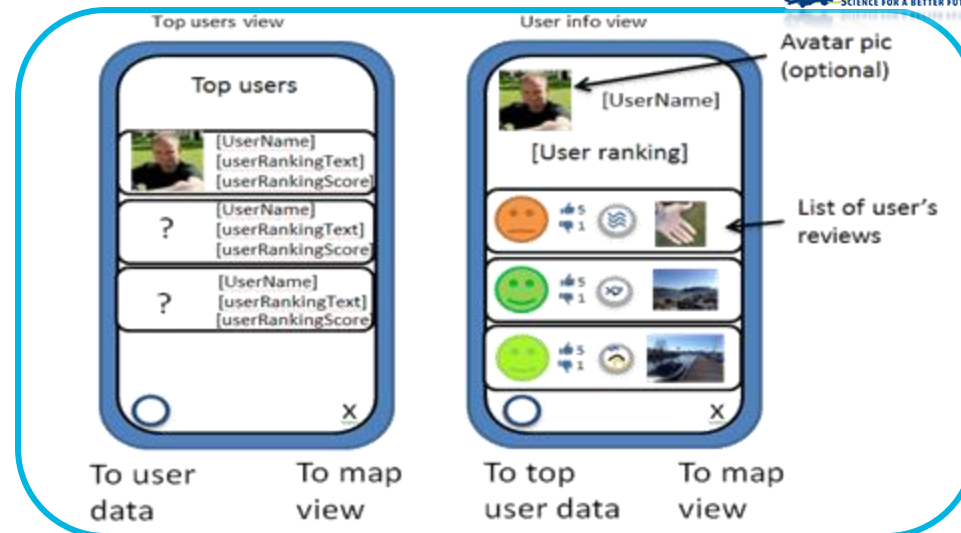
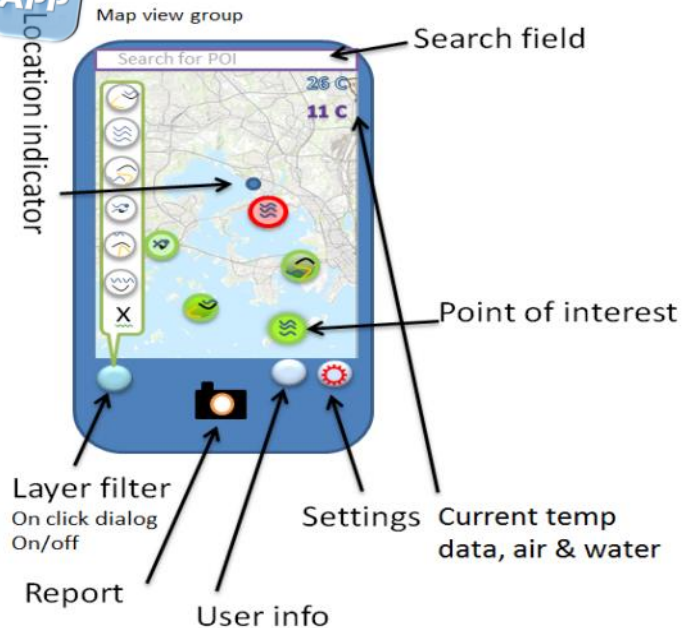
So, what happened then?

We made a deal with Metropolia
University for the fall of 2016

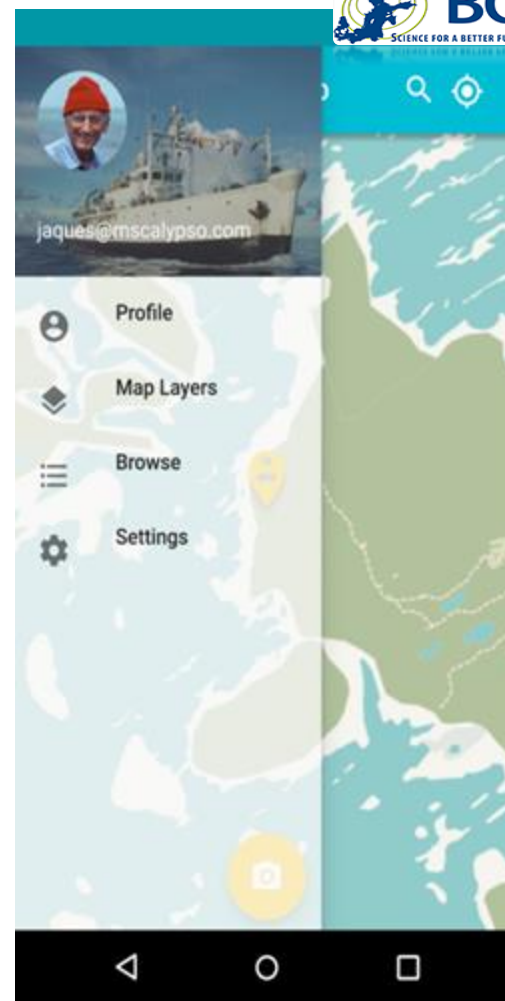
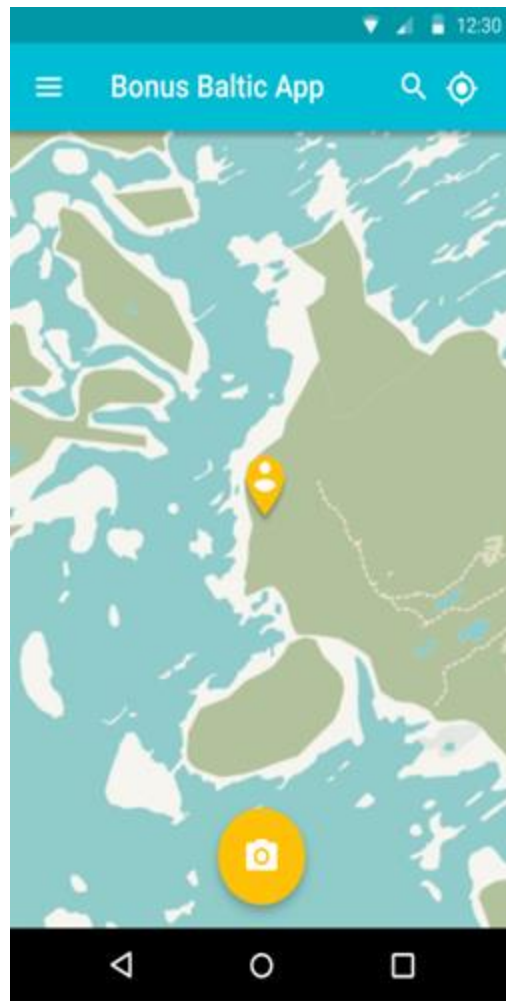
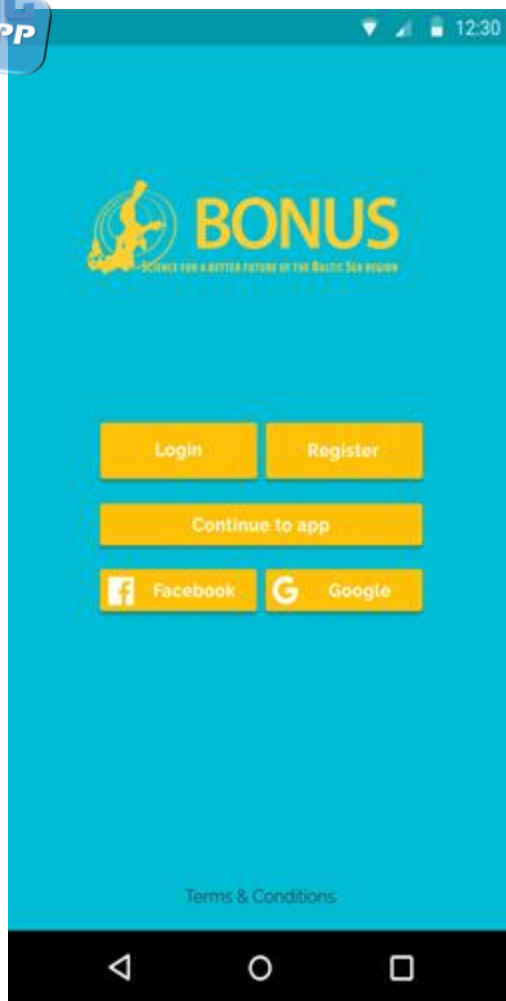
2 competing groups of students

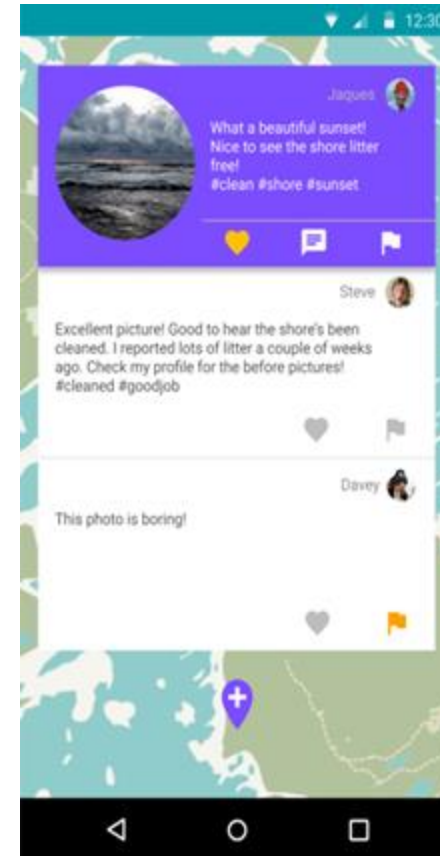
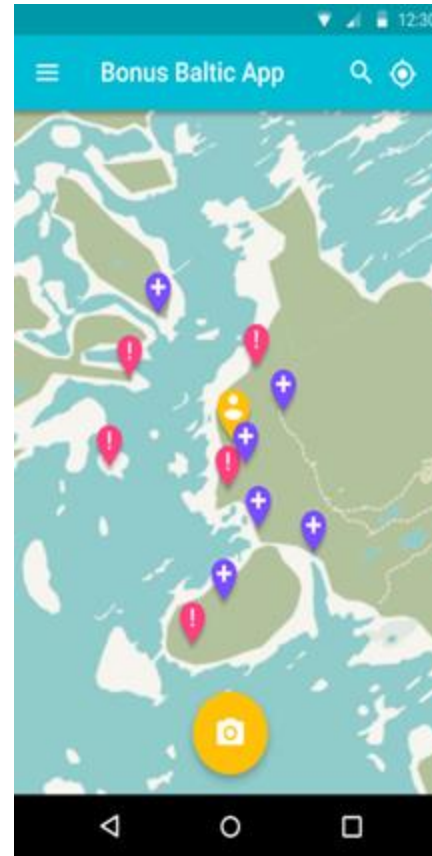
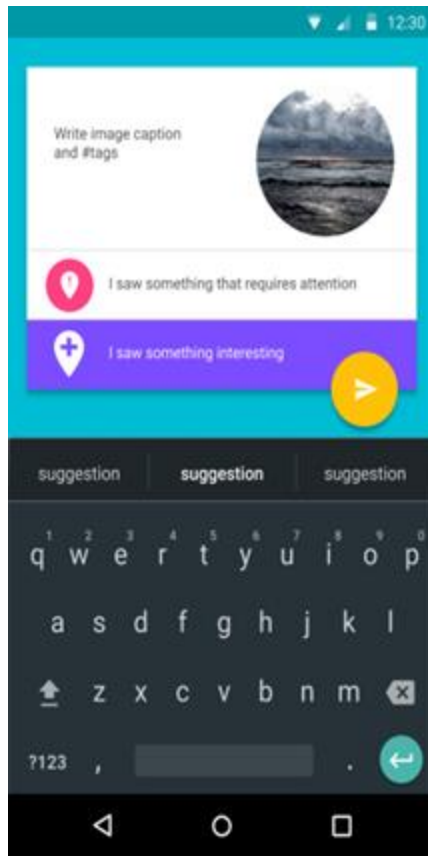
WE ARE OPEN FOR ALL SUGGESTIONS AND IDEAS
Make an app you would like to use - looks neat, works nice!

Design #0

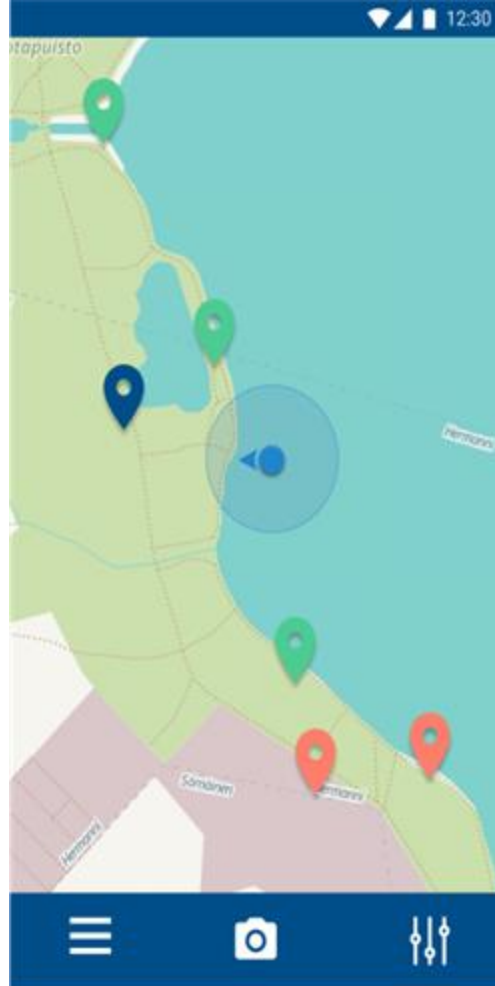


Group #1

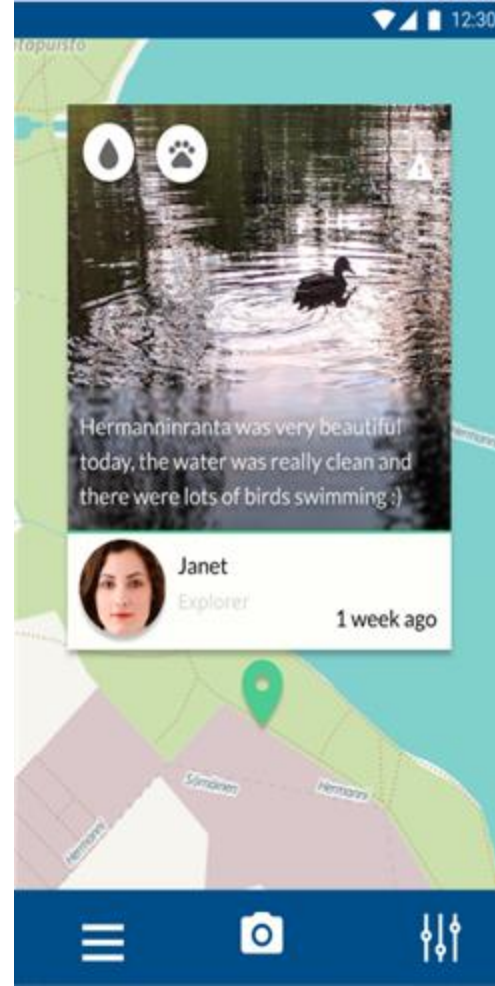




Group #2

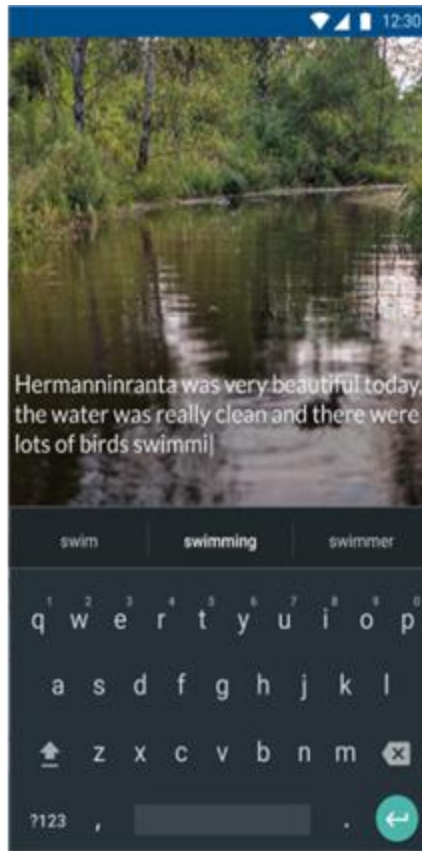
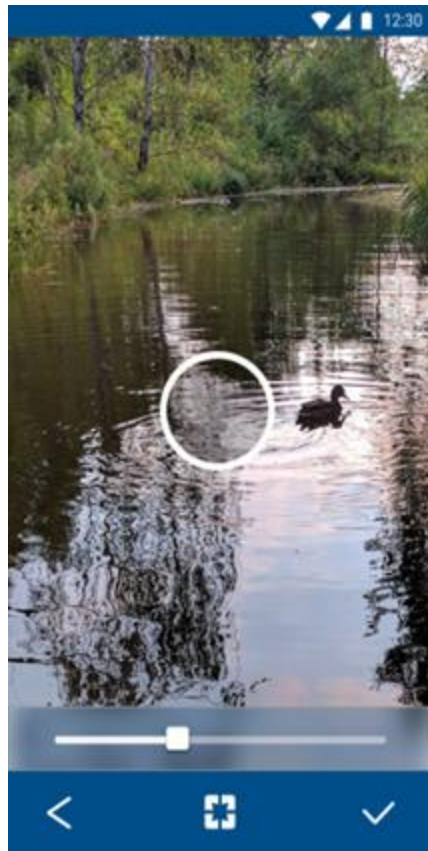


You can login to submit or skip the login to just browse findings

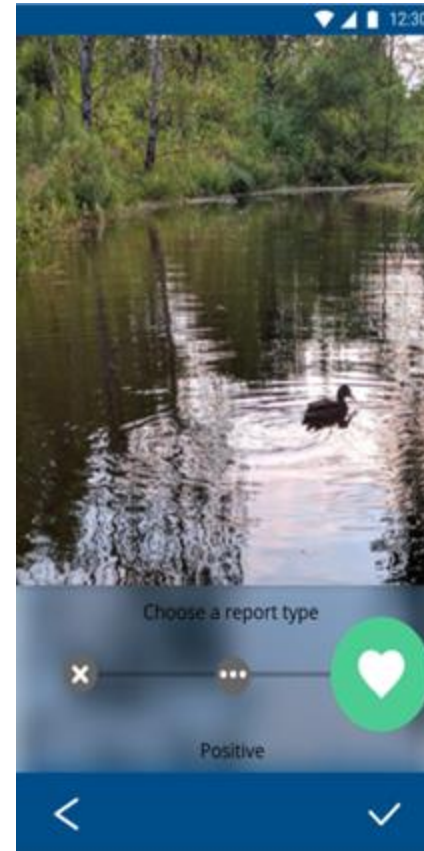


Findings are categorized for easy filtering of the map view

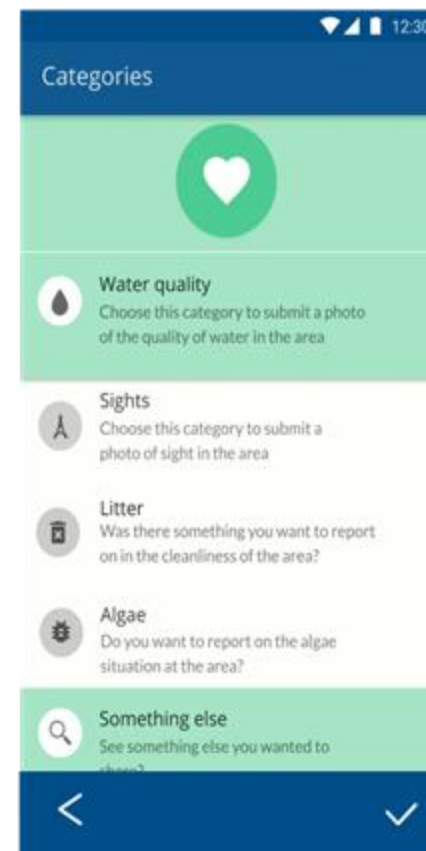
© Luonnonvarakeskus



Write a description for your photo

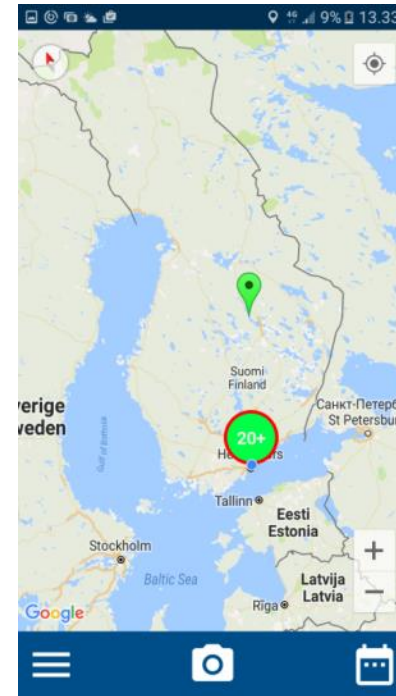
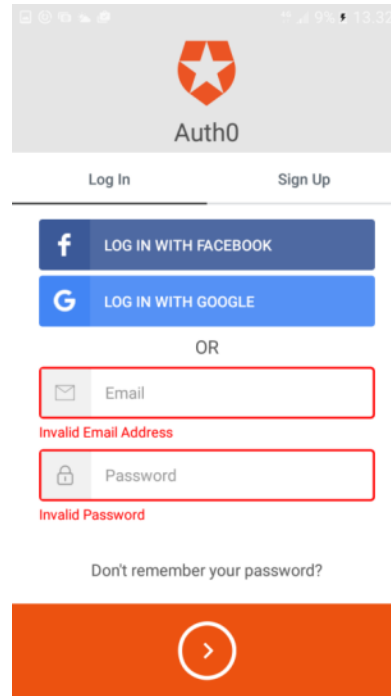
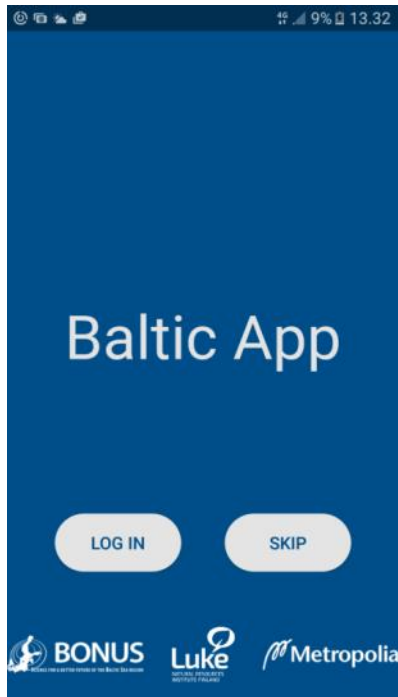


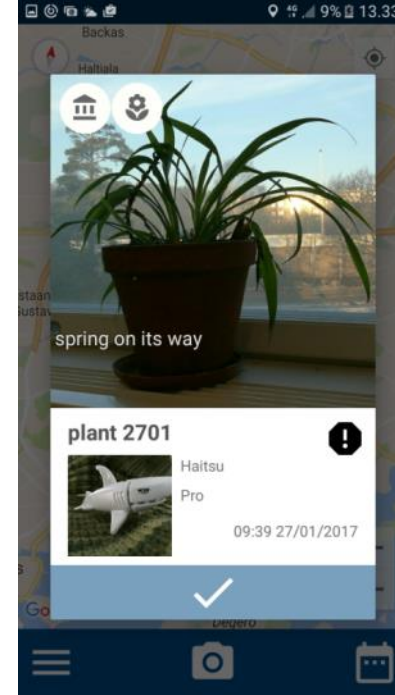
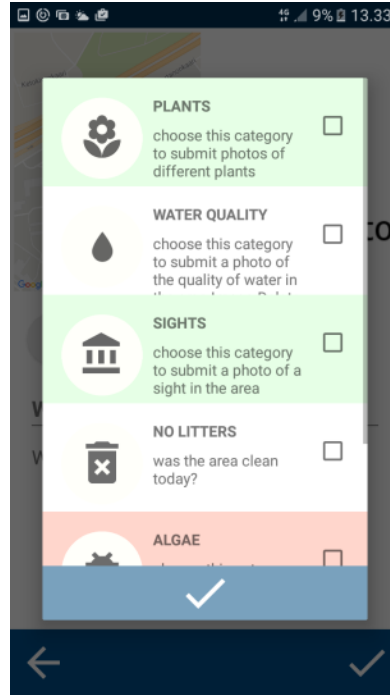
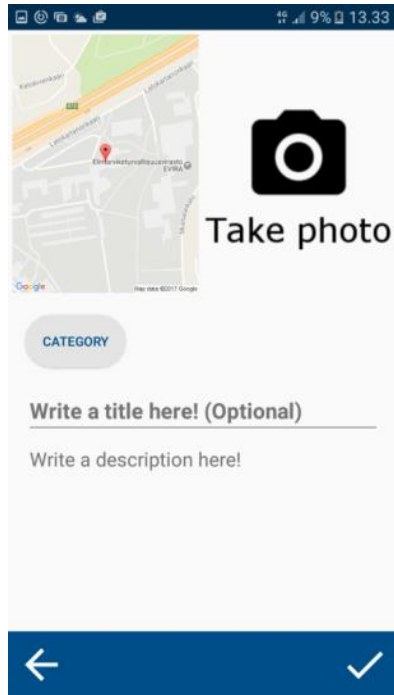
Choose a main category



And then choose a specification

This is where we got...





Testing, testing, one, two, three

- Where to get the people? Voluntary testing experiences poor
- There is interest, but success would (?) require polishing and endorsement/adoption by a respectable player

Eye-openers

- Number and range of things to take into account
 - Technical issues
 - Budgeting
 - Bureaucracy
 - Continuity
- Keep things simple, really really simple
- Keep pushing, something may come out of it one way or another

Thank you!



<https://github.com/harmittaa/LukeApp/releases>

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