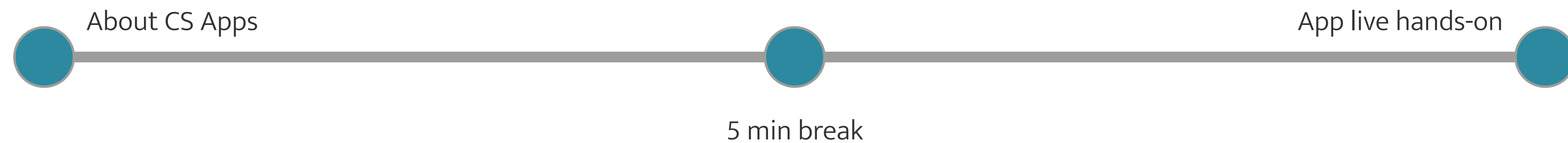


HELLO.

# Philipp Hummer

## Designer & Citizen Scientist







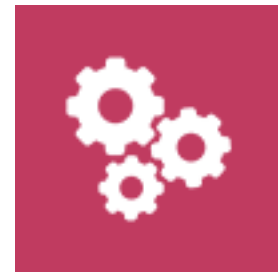
# SPOTTERON

## CITIZEN SCIENCE PLATFORM

[www.spotteron.net](http://www.spotteron.net)



# SPOTTERON **PLATTFORM**



Since 6+ years we develop the Citizen Science Platform SPOTTERON



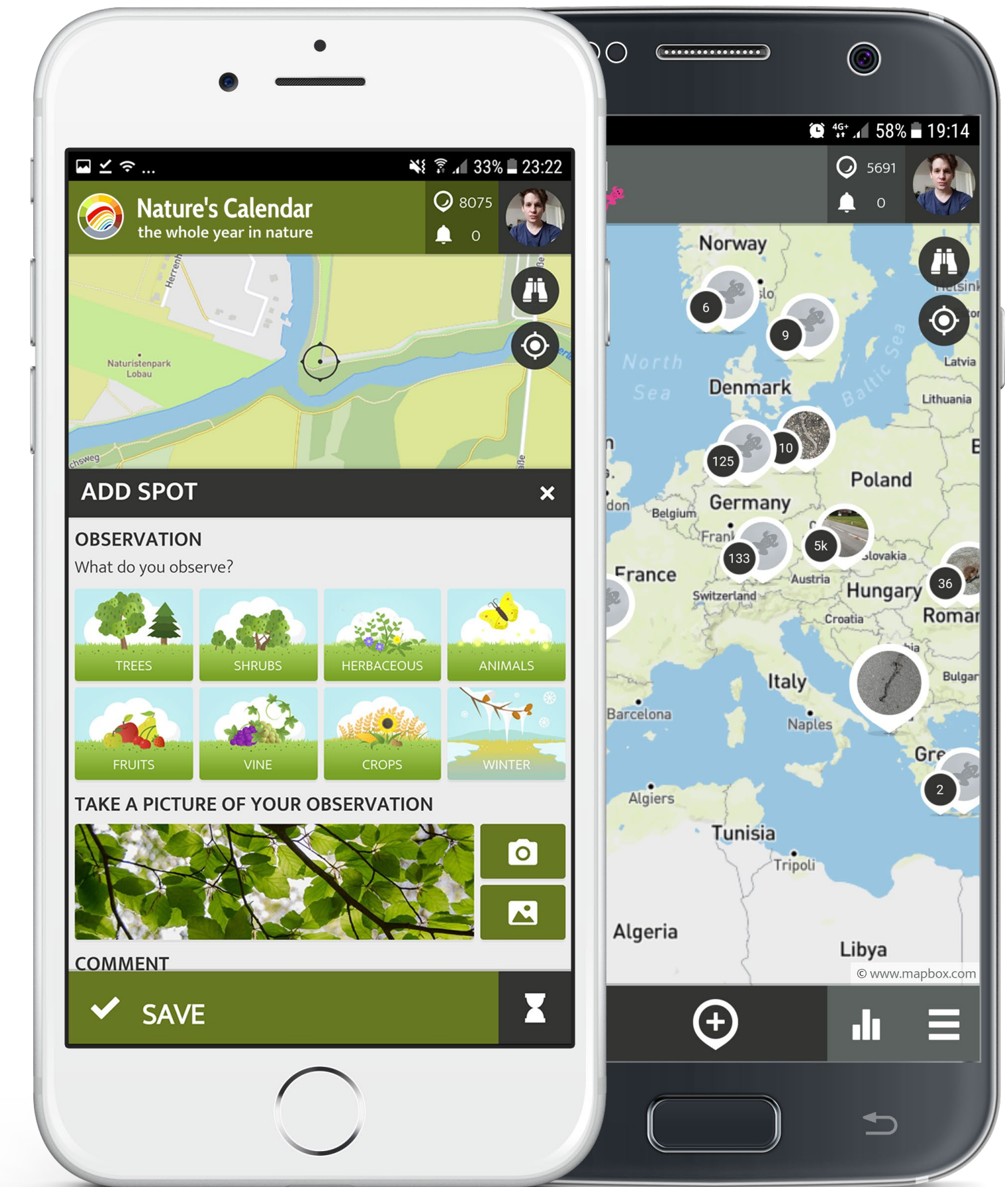
Over 60 Projects, Websites and CS Tools are running on the Plattform



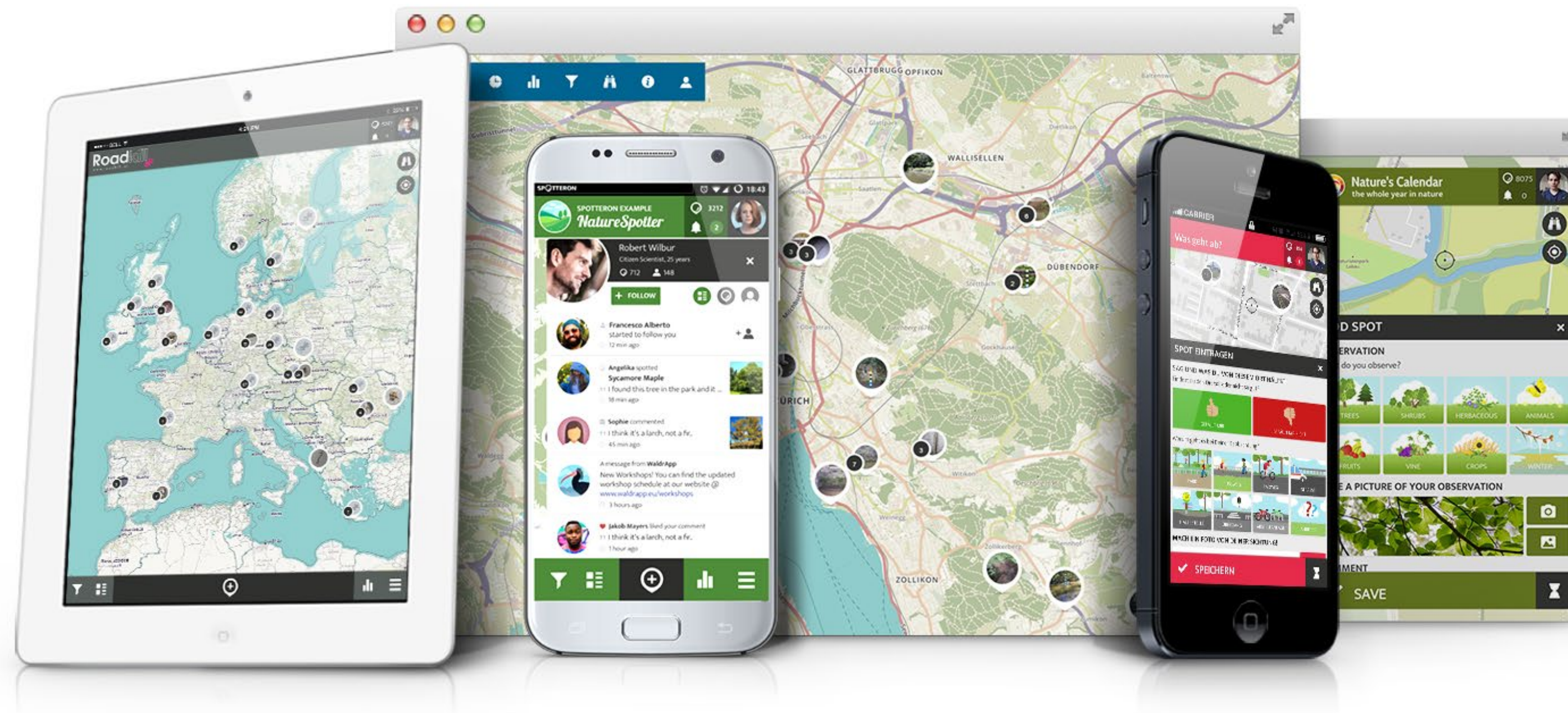
Core concept of the platform: develop Citizen Science together with stakeholders & projects



Why do we do that?  
Connect people to science. Try to save the world.







Strong design focus and visual quality



Users in the focus:  
Many features and tools



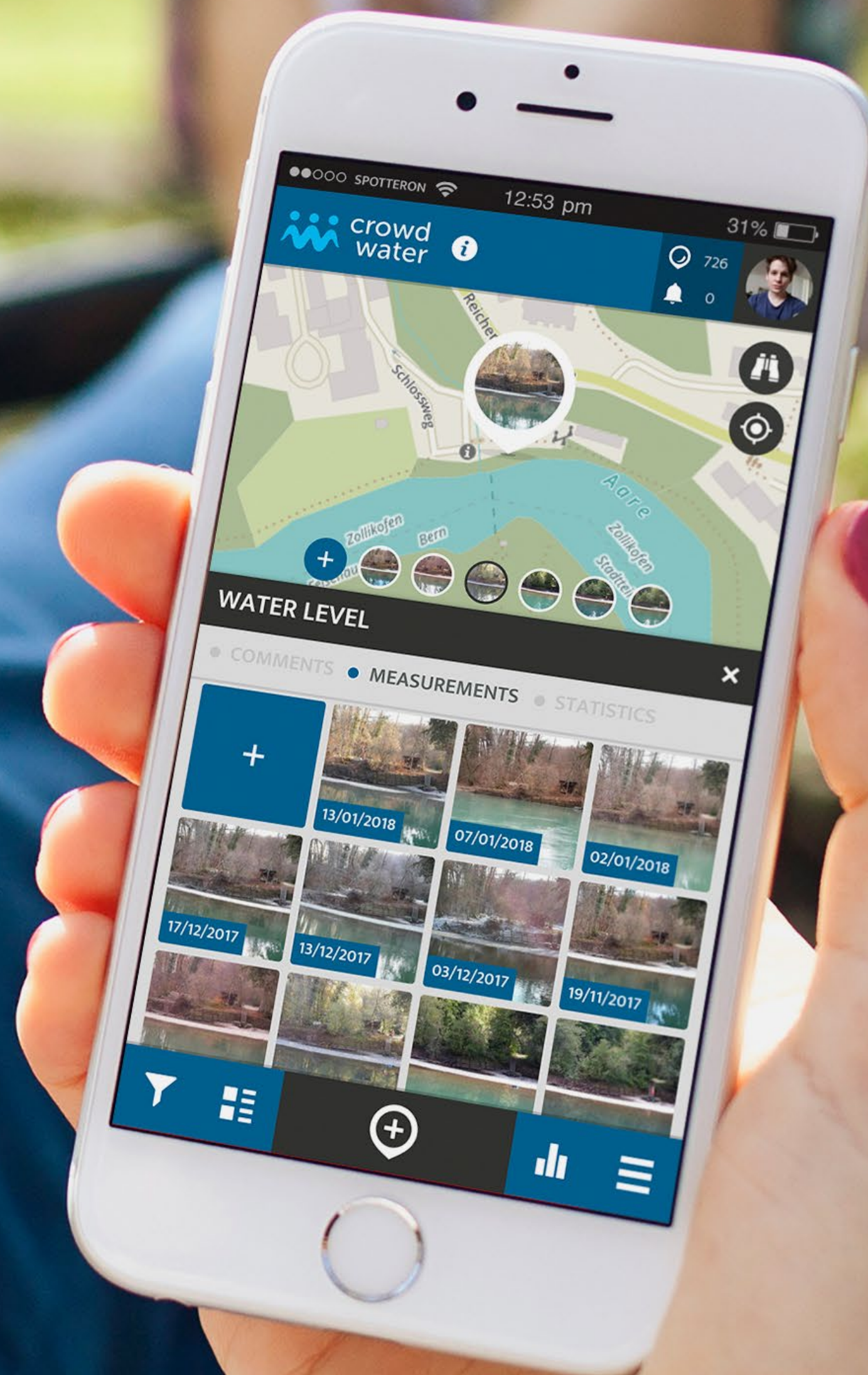
Smartphone Apps and interactive Browser-Maps



Don't walk alone:  
Service and support for apps

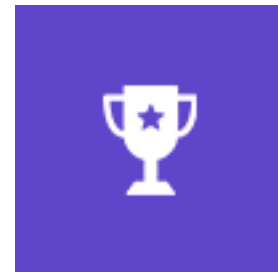


# MOBILE CITIZEN SCIENCE APPS IN 2021





# APP **REQUIREMENTS** IN 2021



Performance,  
Usability and Mobile First



High requirements for Look & Feel  
and Interface Design



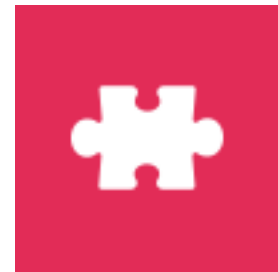
Social Citizen Science:  
Community Features in Apps



Complex technology environment:  
Mobile techs are always changing



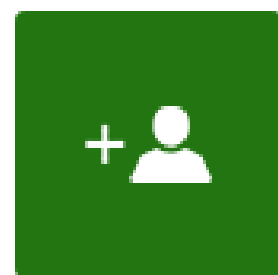
# WHY SMARTPHONE APPS?



The Tool in your pocket:  
“Swiss Knife” for participative science



Always connected:  
Smartphones are communication tools



Close & reaching out:  
Reach new target groups by social apps



Reconnect the youth:  
Mobile devices are communication on eye level





A collage of design-related items. In the center, a tablet displays a map of Europe with various location pins and a sidebar with colorful thumbnails. To the left, a hand holds a strip of three wireframe screens showing different UI layouts. Below the tablet, two smartphones are visible, one showing a map and the other a list of items. In the top left, three more wireframe screens are shown. A hand with a gold watch is visible on the right side, resting on a piece of paper. The background is a light-colored surface with various design documents, a color palette, and a white mouse.

# TECHNICAL CHALLENGES



# ABOUT BUGS, UPDATE CYCLES UND PRACTICE



The basis of apps: working on many devices, operating system, browsers, etc.



Updates and constant improvements:  
Apps are running in a quick-living environment



Compatibility, growth, security, stability:  
Apps are never “finished”



Knowhow is needed.  
How does the Internet work? From privacy to mobile technology.





# USER NEEDS

## OUR LIFE IN DIGITAL WORLDS





# OUR DIGITAL LIFE



**Jane**

Is active in social networks  
Is always staying up-to-date  
Likes to communicate



**John**

Is blogging about his garden  
Uses Messenger daily  
Uses map-apps for hiking



# IN CS APP TECHNOLOGIES (EXAMPLES)



**Jane**

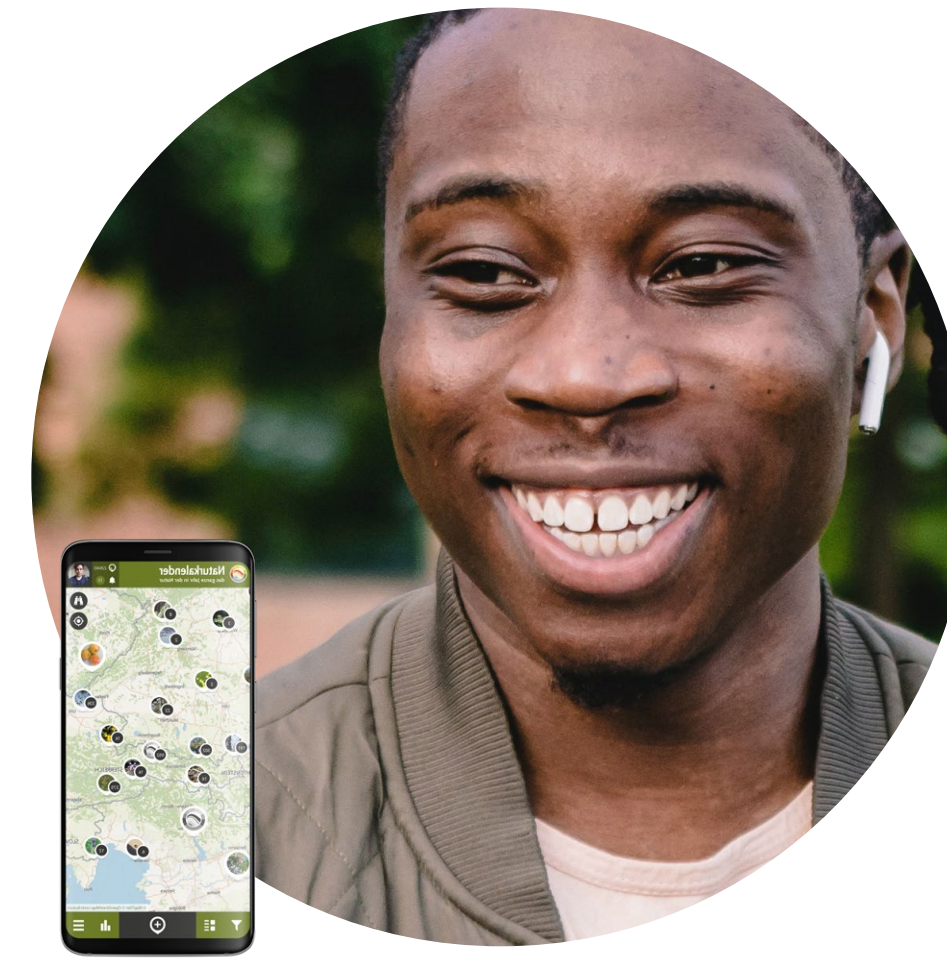
Shares posts online



Community Newsfeed & Notifications



Comments & Interactions



**John**

Creates map with own data



Uses Emojis



Offline mode & map download





“ Through Citizen Science I get to rediscover nature.

Jane, 25 years

#WeAreCitizenScientists

SPOTTERON  
BY CITIZEN SCIENTISTS  
FOR CITIZEN SCIENCE



“ Citizen Scientists should be more than just data collecting robots.

Melanie, 38 years

#WeAreCitizenScientists



“ I don't want to just add more data, but also share my own experiences.

Wolfgang, 55 years

#WeAreCitizenScientists

SPOTTERON  
BY CITIZEN SCIENTISTS  
FOR CITIZEN SCIENCE



“ It is important that the apps and the homepage open up quickly.

Juan, 29 years

#WeAreCitizenScientists

SURVEY BY  
SPOTTERON



“ Encryption is very important to me. I want my personal data to be protected.

Felix, 32 years

#WeAreCitizenScientists

SPOTTERON  
BY CITIZEN SCIENTISTS  
FOR CITIZEN SCIENCE



“ If I post a contribution to a project, I want my friends to see it.

Marcel, 26 years

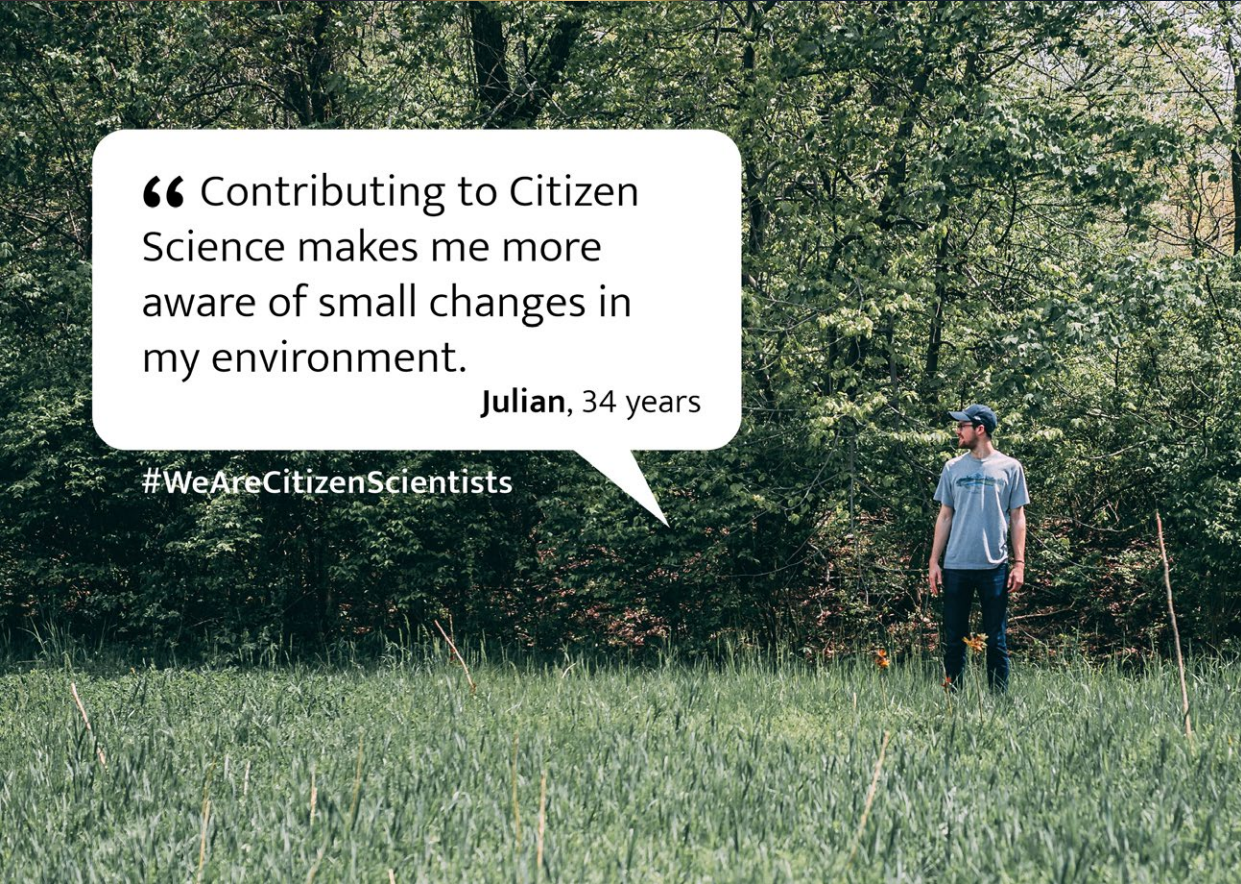
#WeAreCitizenScientists



“ I want to be part of a big Citizen Science Community.

Marlene, 31 years

#WeAreCitizenScientists



“ Contributing to Citizen Science makes me more aware of small changes in my environment.

Julian, 34 years

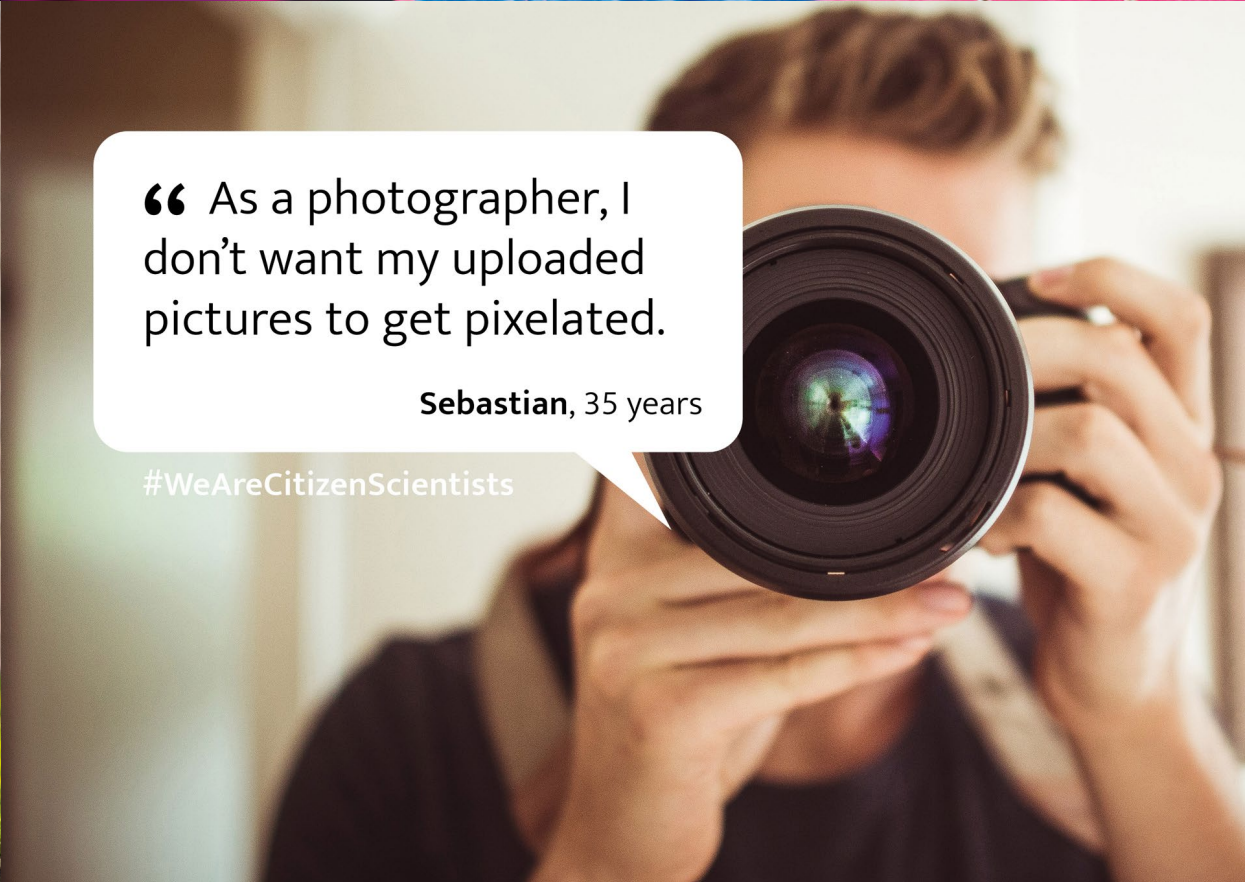
#WeAreCitizenScientists



“ Through Citizen Science Apps I can contribute something positive to society anywhere and any time.

Tina, 27 years

#WeAreCitizenScientists



“ As a photographer, I don't want my uploaded pictures to get pixelated.

Sebastian, 35 years

#WeAreCitizenScientists



“ We have Snapchat and Instagram, why not also an app for interactive classes?

Andrea & Eva

#WeAreCitizenScientists



“ I want to be able to decide, which personal information is visible to others.

Anonymous

#WeAreCitizenScientists



# Example **COMMUNITY PACKAGE**



Complete  
Social Media Channel



Released in  
alle Projects

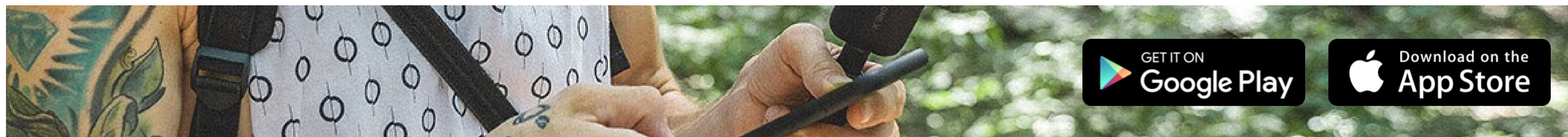


**SEE IT LIVE**

[www.spotteron.app](http://www.spotteron.app)







## LET'S SEE IT IN **ACTION!**

**Interactive hands-on with screenshare coming up.**

To follow along live: Please download an app from [www.spotteron.net/apps](http://www.spotteron.net/apps) or from your App Store.



**Crowdwater**

Hydrology & water observations

[www.crowdwater.ch](http://www.crowdwater.ch)



**NatureSpots**

Nature observations

[www.naturespots.net](http://www.naturespots.net)



**ArtSpots**

StreetArt and Culture

[www.artspots.net](http://www.artspots.net)



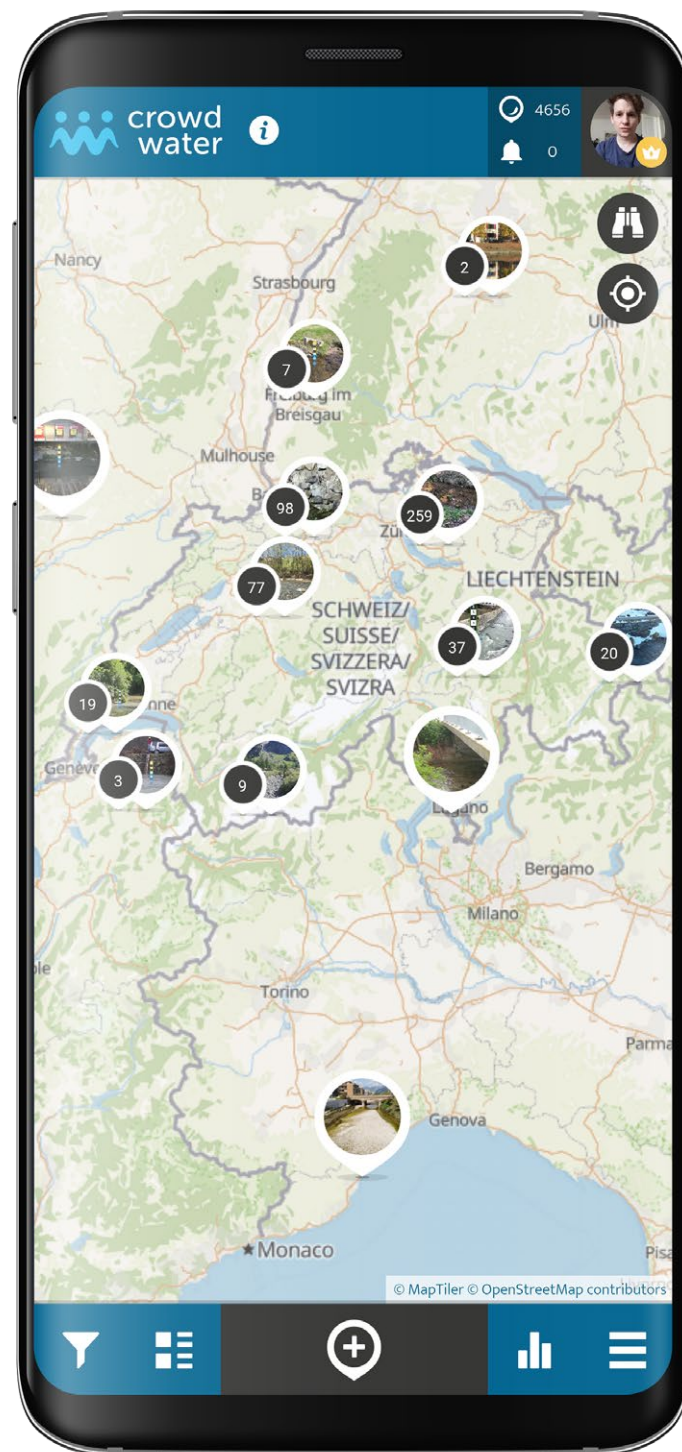


# GOING LIVE

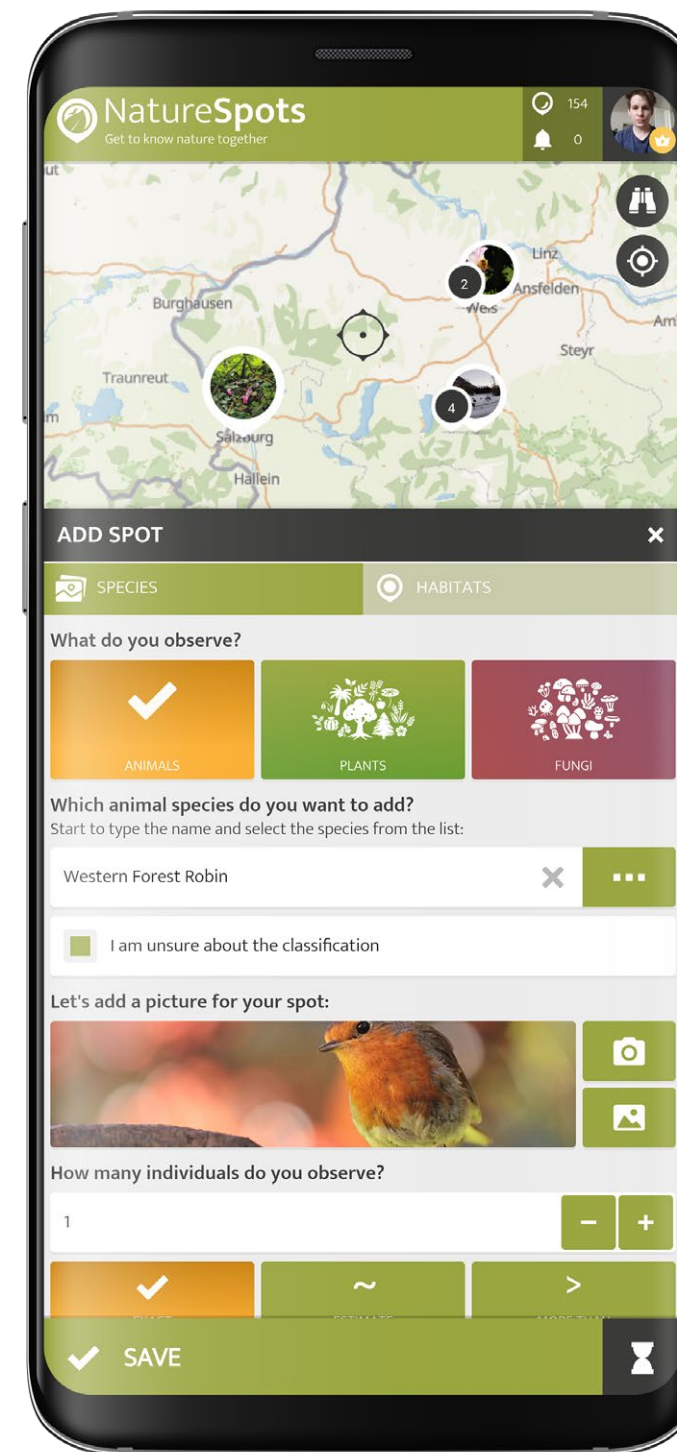




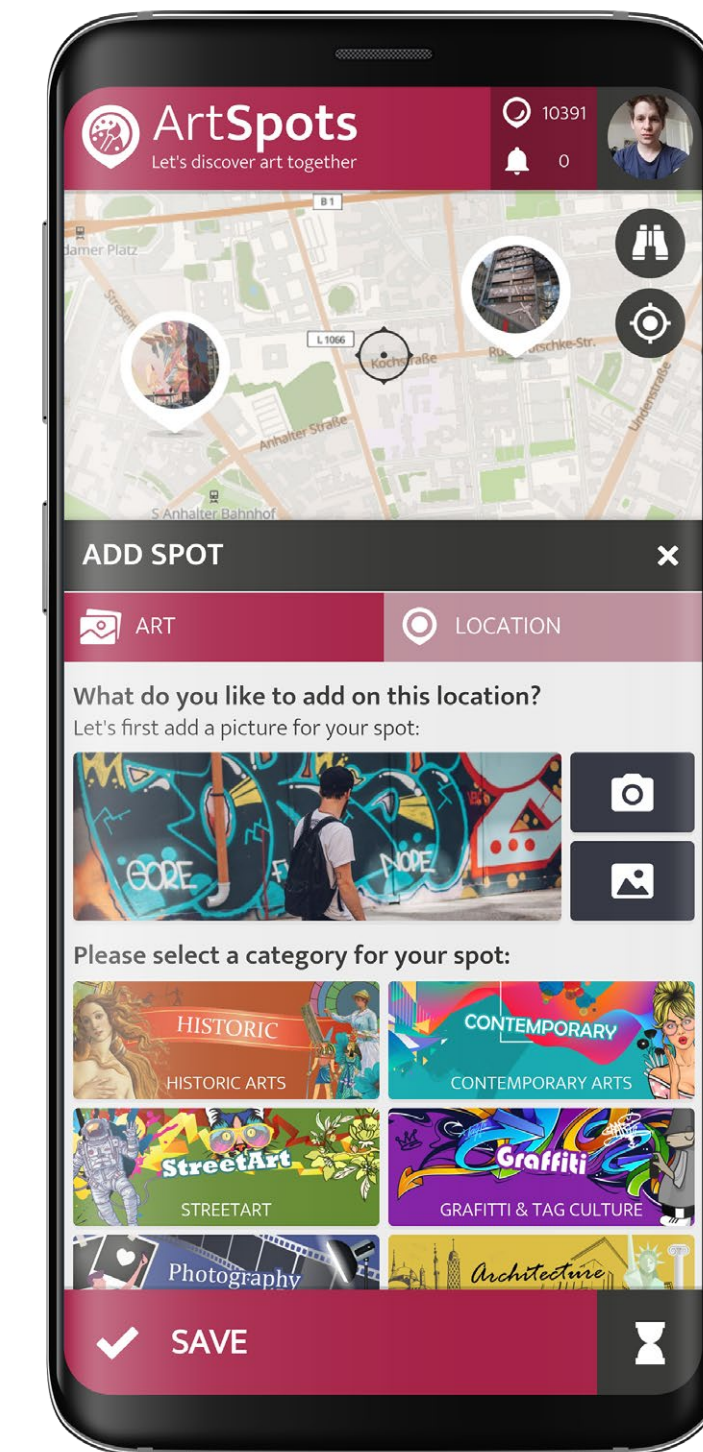
# CHECK OUT THOSE CS APPS



[www.crowdwater.ch](http://www.crowdwater.ch)



[www.naturespots.net](http://www.naturespots.net)



[www.artspots.net](http://www.artspots.net)



# QUESTIONS?

What are your experiences with Citizen Science Apps?

Design and technology: what are your favorite or most interesting apps?

Can Citizen Science Projects change the world?

What are difficulties and challenges in Citizen Science?

...



# THANK YOU.

Download and App and join: [www.spotteron.net](http://www.spotteron.net)



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