



App manual

Welcome, Worker Bees!

Thank you for joining SOCIO-BEE as a citizen scientist and participating in our mission to monitor air pollution in your community. This guidebook is here to help you learn how to use the SOCIO-BEE mobile app easily. With this app, you can be a part of something big – helping to keep our air clean and healthy.

Here's what this guidebook will help you do:

1. Get Started:

How to download and install the app on your phone.

2. Sign Up and Log In:

How to create an account and log in.

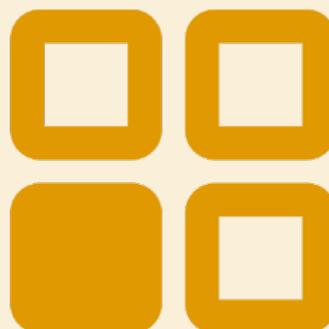
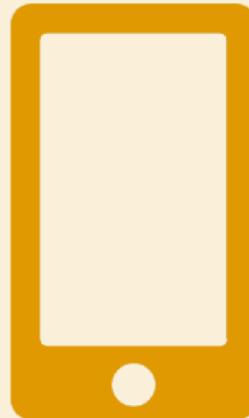
3. Explore the App:

How to use the different parts of the app.

4. Join Campaigns:

Learn how to take part in campaigns, where you can help gather important data about air quality in your area.

Let's get started!



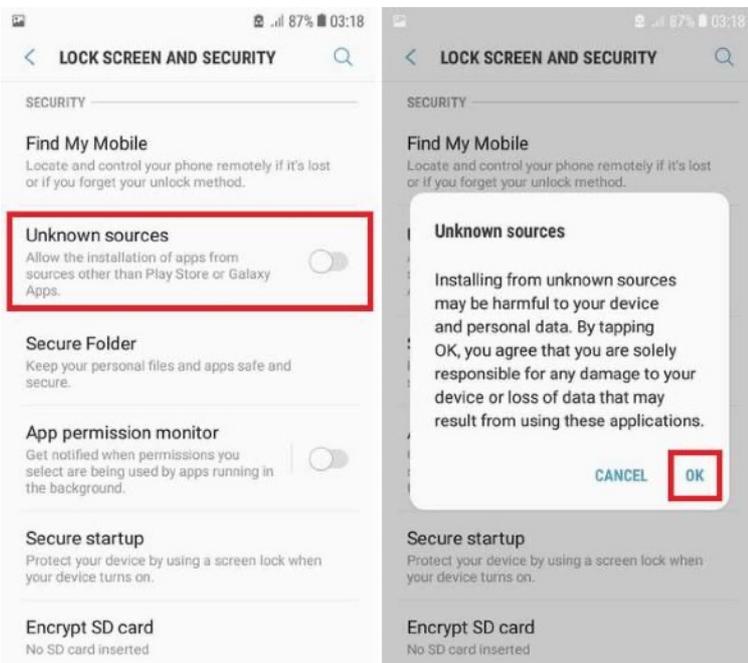
Getting started

Downloading and Installing the App in 8 steps:

1. Get the link: Your local SOCIO-BEE representative will provide you with the link to download the app.

2. Download the app: Open a browser (e.g., Chrome) on your phone and insert the link to download the installation file.

3. Allow app installation: Since you're getting the app from outside the usual app store, you need to let your phone install it:



- Go to your phone's Settings.
- Look for Security or Privacy settings (it might be different depending on your phone).
- Find "Unknown Sources" or "Install Unknown Apps" and turn it on.



Getting started

4. Find the app file: Use your phone's file manager to find where you saved the SOCIO-BEE app file. It's usually in the "Downloads" folder or a folder called "APKs".

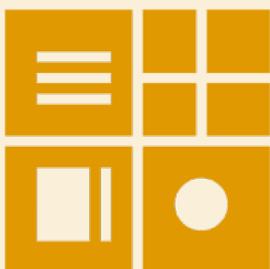
5. Tap to install: Once you find the app file, just tap on it to start installing.

6. Check permissions: Android will show you the permissions required by the app such as your phone's location. Review them and tap "OK" and then "Install" if you're okay with them.



Note: The SOCIO-BEE app will notify you when it is tracking your location even if you accidentally minimize the app and forget to log off.

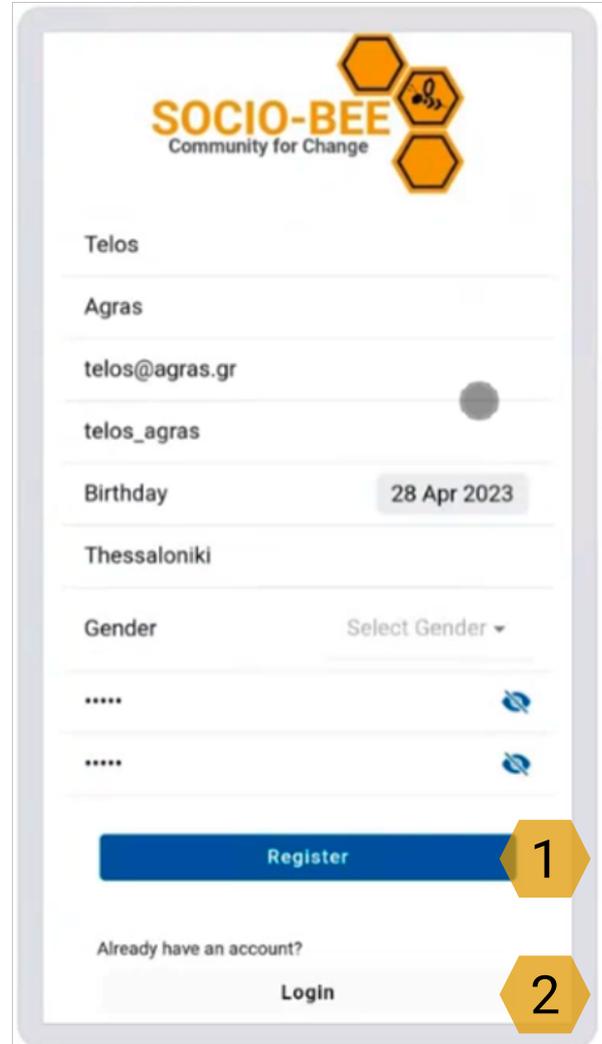
7. Finish up: After tapping "Install", the app will be ready to use! You can open it right away or go back to your home screen.



8. Turn off Unknown Sources: For safety, it's a good idea to turn off the "Unknown Sources" setting after you're done. Just go back to your phone's Settings and switch it off.

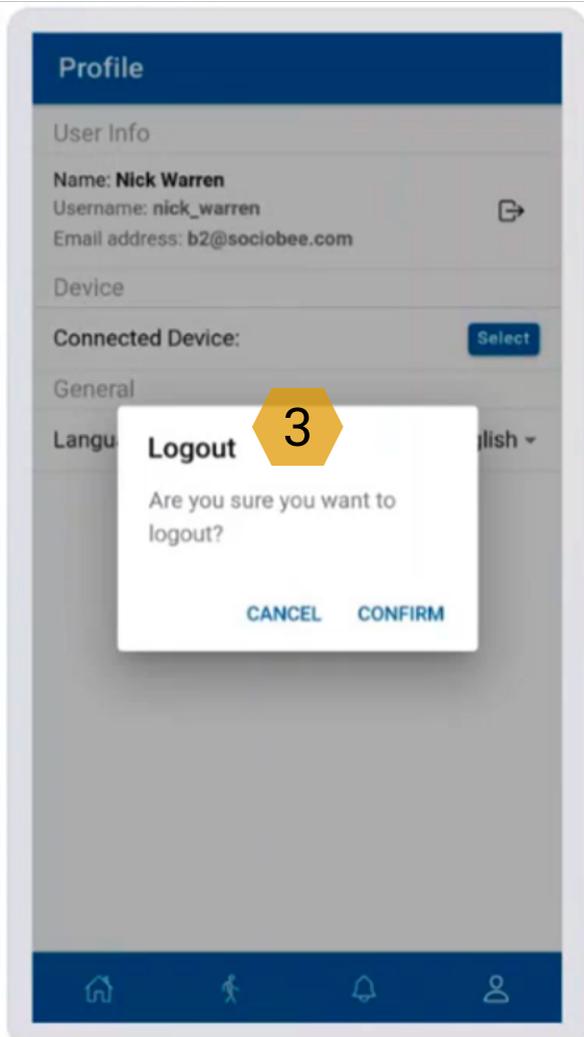
Sign Up and Log In

1. If it's your first time using the app, tap on the "Register" button and in the form provide a username, a password and your information.
2. Log in with your credentials.
3. Remember to log out when not using the app for security purposes.



The registration form includes the following fields and options:

- Telos
- Agras
- telos@agras.gr
- telos_agras
- Birthday: 28 Apr 2023
- Thessaloniki
- Gender: Select Gender
- Two password fields (represented by dots) with eye icons for visibility.
- Register button (marked with a yellow hexagon containing the number 1)
- Already have an account? Login button (marked with a yellow hexagon containing the number 2)



Explore the App

You may navigate through the different features of the app from the main menu located at the bottom of your mobile screen.



1. Home: Press the “Home” button to view the SOCIO-BEE Dashboard. Here, you can track your personal exposure, pollution footprint, and statistics as a Worker Bee. Gain experience points by participating in campaigns and contributing measurements to increase your level.

2. Available Campaigns: Tap on the symbol representing a person walking to view available campaigns. Read the details of each campaign carefully, select the campaign you want to participate in, and follow the on-screen instructions to start your measurement.

3. Notifications: Tap on the “Bell” button to view notifications on open campaigns and updates from your hives.

4. Profile: Tap the button with the “Human” icon to view your profile. Here, you can view and edit your user information, manage connected devices, and change language preferences.

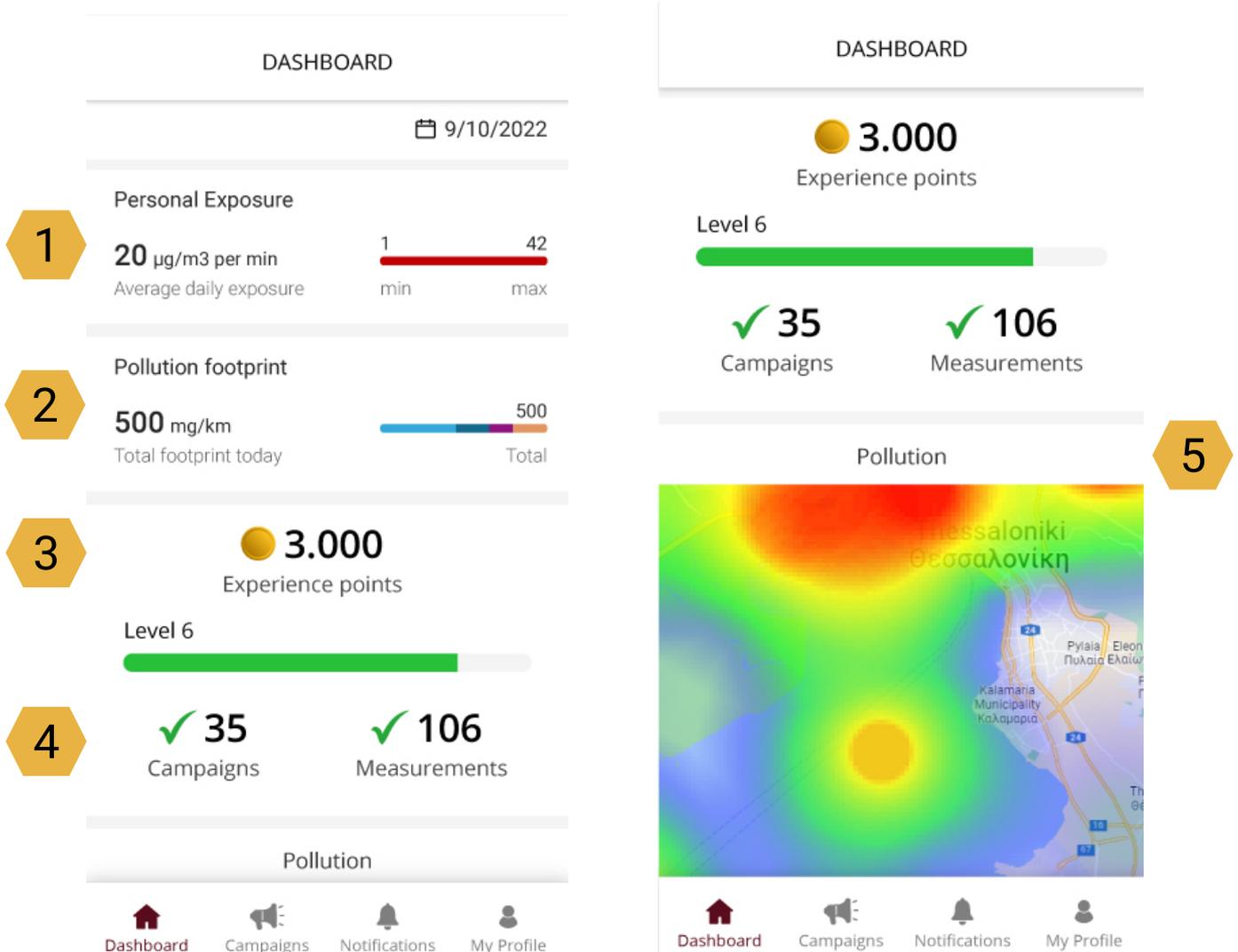
SOCIO-BEE's Dashboard

Tap the "Home" button to view SOCIO-BEE's Dashboard.



The dashboard contains information on:

1. Your personal exposure,
2. Your pollution footprint,
3. Your progress, indicated by your experience points,
4. Your personal statistics as a Worker Bee,
5. The SOCIO-BEE pollution heatmap.



SOCIO-BEE's Dashboard

With each campaign you participate in and with each measurement you contribute, you gain experience points. Score more points to increase your level!

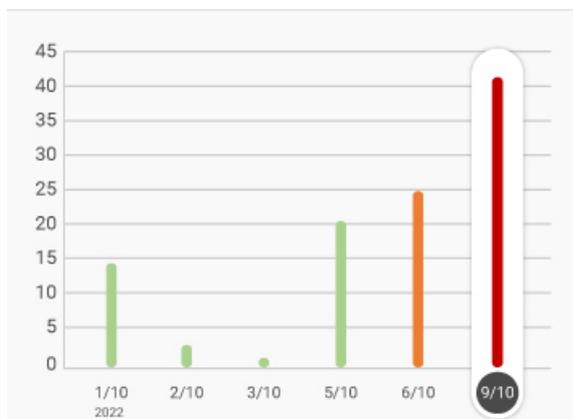
3.000
Experience points

Level 6

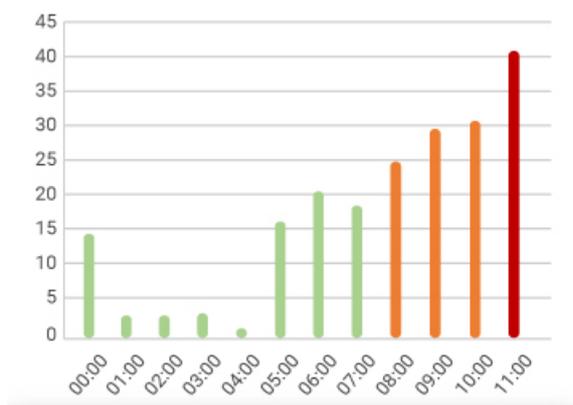
✓ **35** Campaigns ✓ **106** Measurements

You may scroll further down to view analytical graphs about your average daily or hourly exposure to pollution, as well as your pollution footprint.

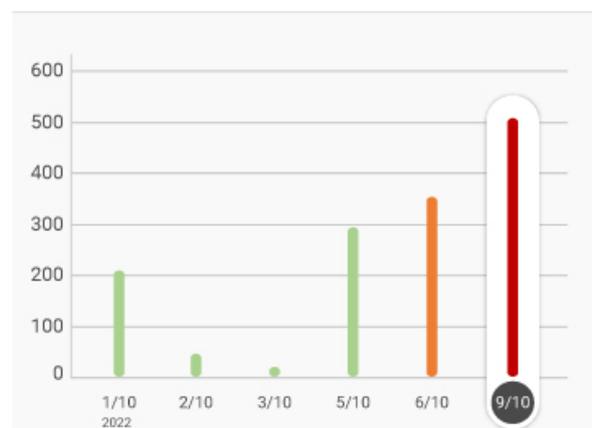
Personal Exposure



9/10/2022 **20 $\mu\text{g}/\text{m}^3$ per min**
Average daily exposure



Pollution footprint

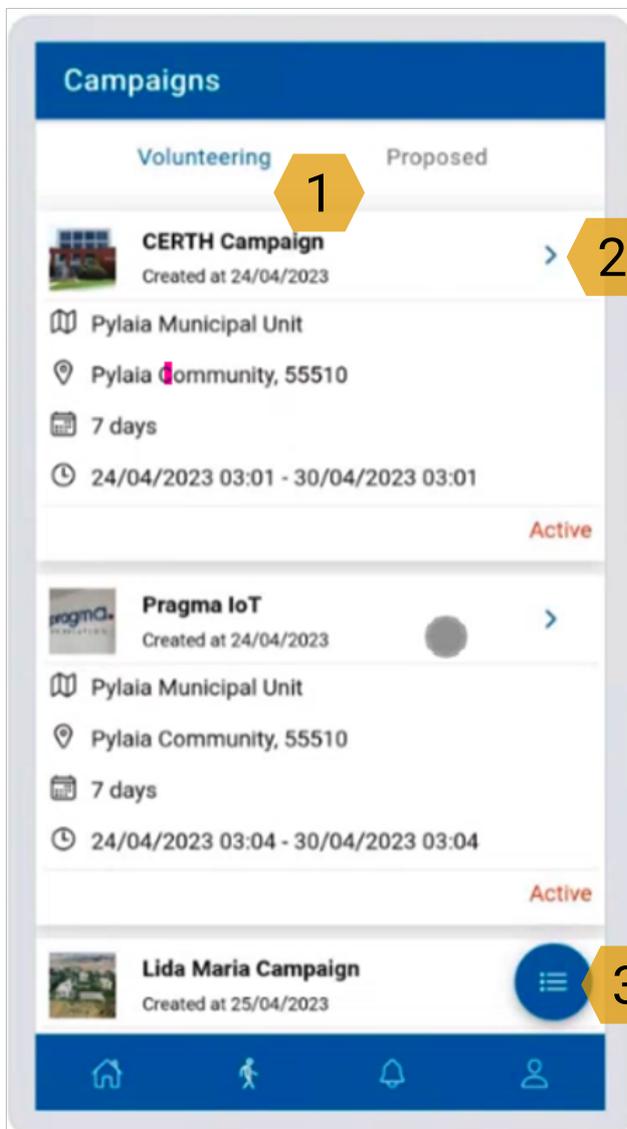


9/10/2022 **500 mg/km**
Total footprint today

- Dashboard
- Campaigns
- Notifications
- My Profile

SOCIO-BEE Campaigns

Tap on the symbol representing a person walking to view the SOCIO-BEE campaigns list.



Here you may:

1. View list: View the campaign list.

2. View details: Tap on a specific campaign to view more details about it, like its location and duration.

3. Filter/Map view: Filter the campaign list or view the campaign on a map.

How to filter campaigns:

1. Tap on the blue menu icon.



2. Two new icons will appear.



3. Tap on the filter icon.

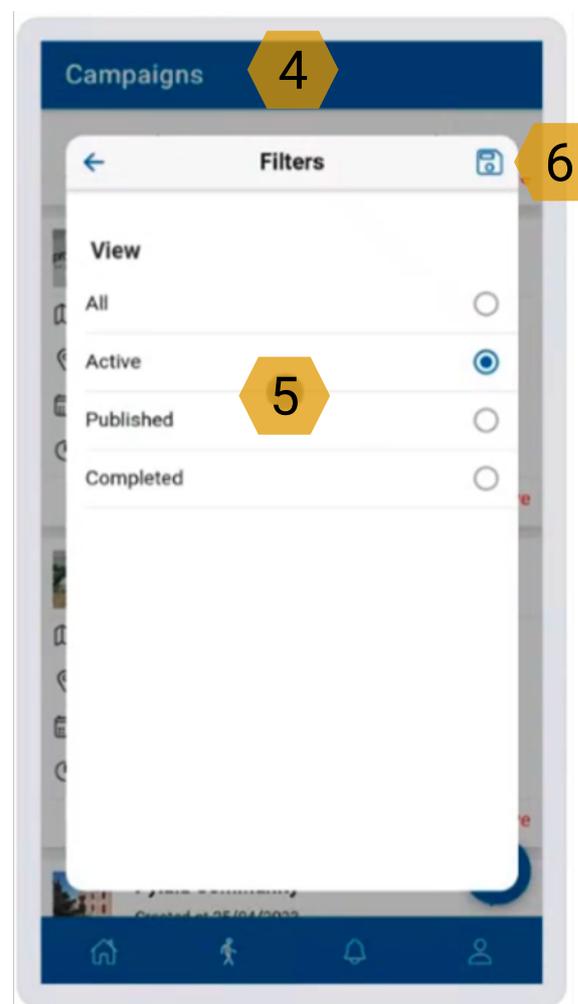


4. The filter menu will open.

5. You may select one of the following filters:

- **Active:** The campaigns that have started and are ongoing now.
- **Published:** The campaigns that haven't started yet.
- **Completed:** The campaigns that have ended.

6. Tap on the "Save" button to save your filter.



View Campaigns on a Map

1. Tap on the blue menu icon.



2. Tap on the map icon.

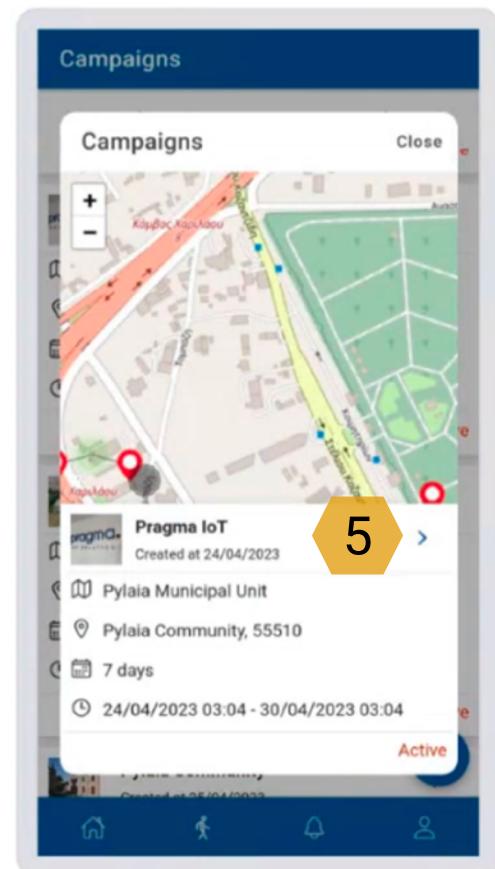
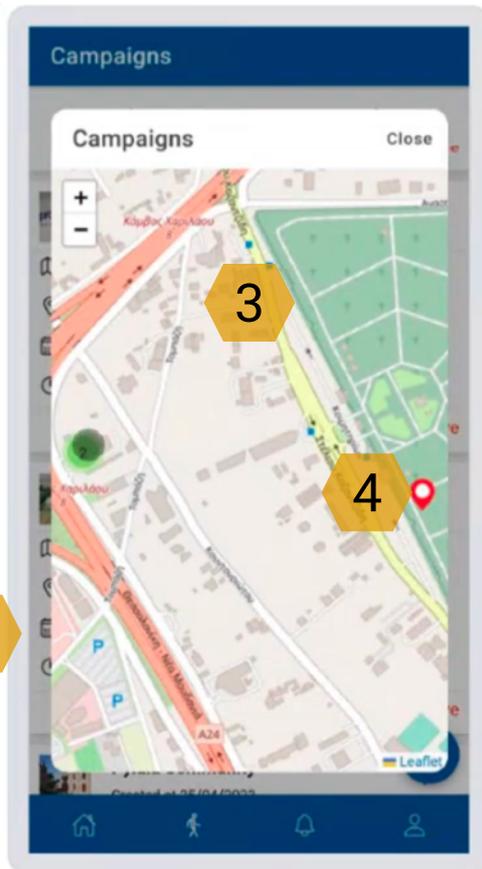
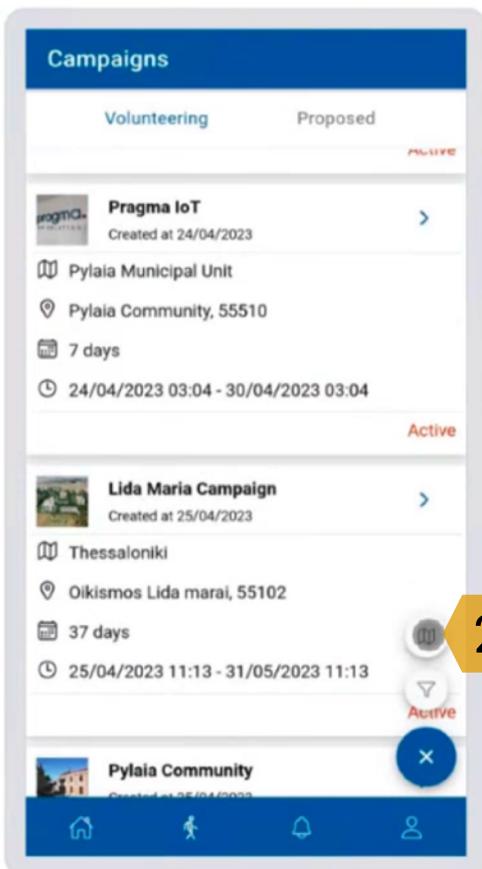
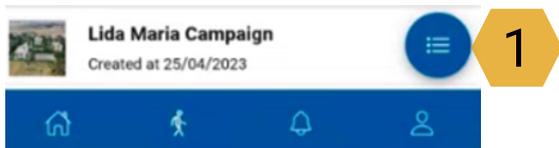


3. A map will appear with the campaign locations marked by red symbols. If there's more than one campaign in an area, a circle with a number will appear.

4. You may select a campaign on the map by tapping the symbol.



5. If you want to see details of that campaign, tap the ">" button.



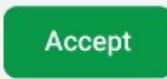
View your Notifications

Tap on the “Bell” button to view notifications on open campaigns and updates from your hives.



NOTIFICATIONS

 **Thermi campaign** is available.
Do you want to participate?
1 min ago

 Accept

 **Marousi campaign** is available.
Do you want to participate?
Febr, 28 at 16:05



View your Profile

Tap the button with the “Human” icon to view your profile.



Here, you can

1. View your user information.
2. Manage connected devices.
3. Change language.
4. Log out from the app.



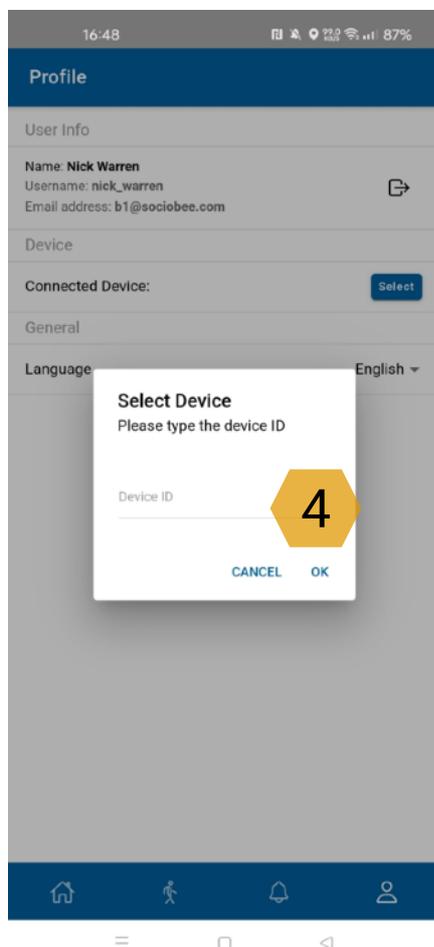
Connect your Mobile Phone with the Sensor Device

Before joining a campaign and starting to perform measurements, you first need to connect your SOCIO-BEE sensor device to your phone by using the app.



To do this:

1. Turn on the device.
2. Open your profile.
3. Tab on the “Select” button.
4. On the pop-up window type the device ID and tap “OK”.
5. The device ID is located on your sensor device.
6. Once connected the light on the device turns green.



Join Campaigns

Now you can start participating in campaigns!

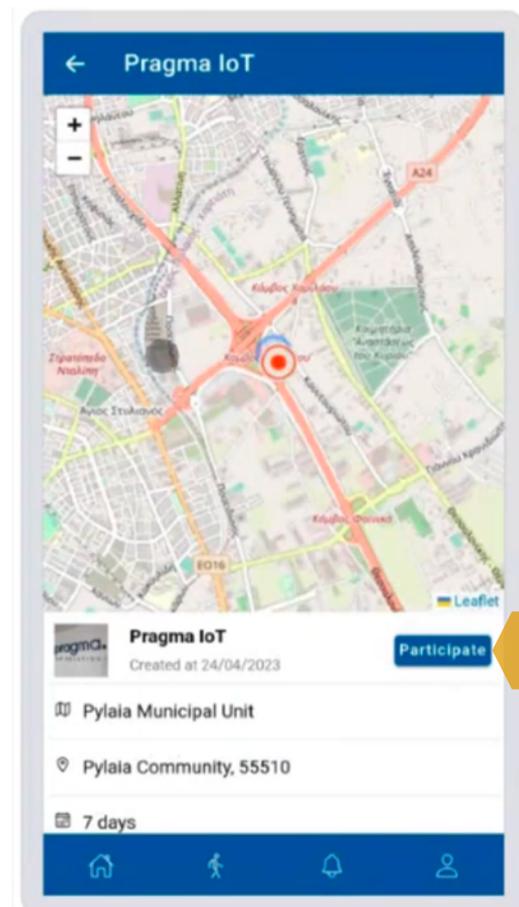
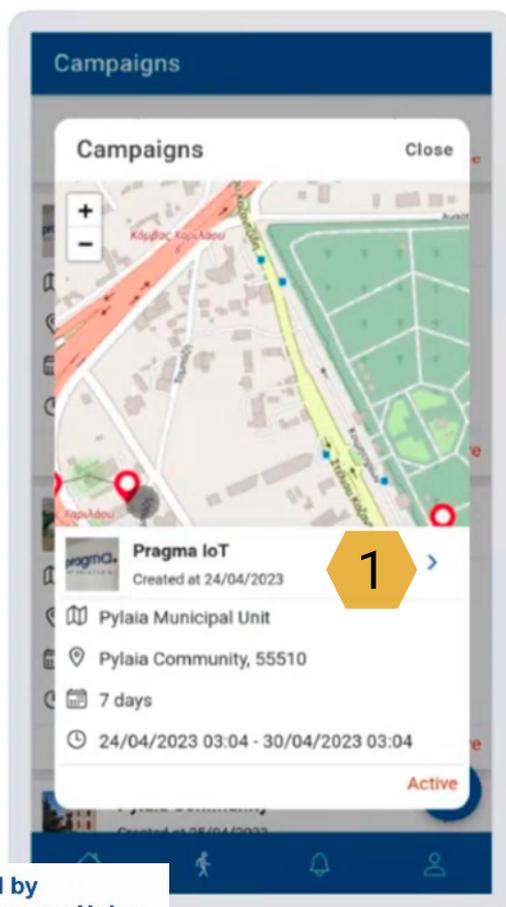
Go to the campaigns list.



Use the filter or the map view to find the campaign you want to participate.  

1. Tap the ">" button to view the details of the selected campaign.
2. Tap the "Participate" button to join the campaign.

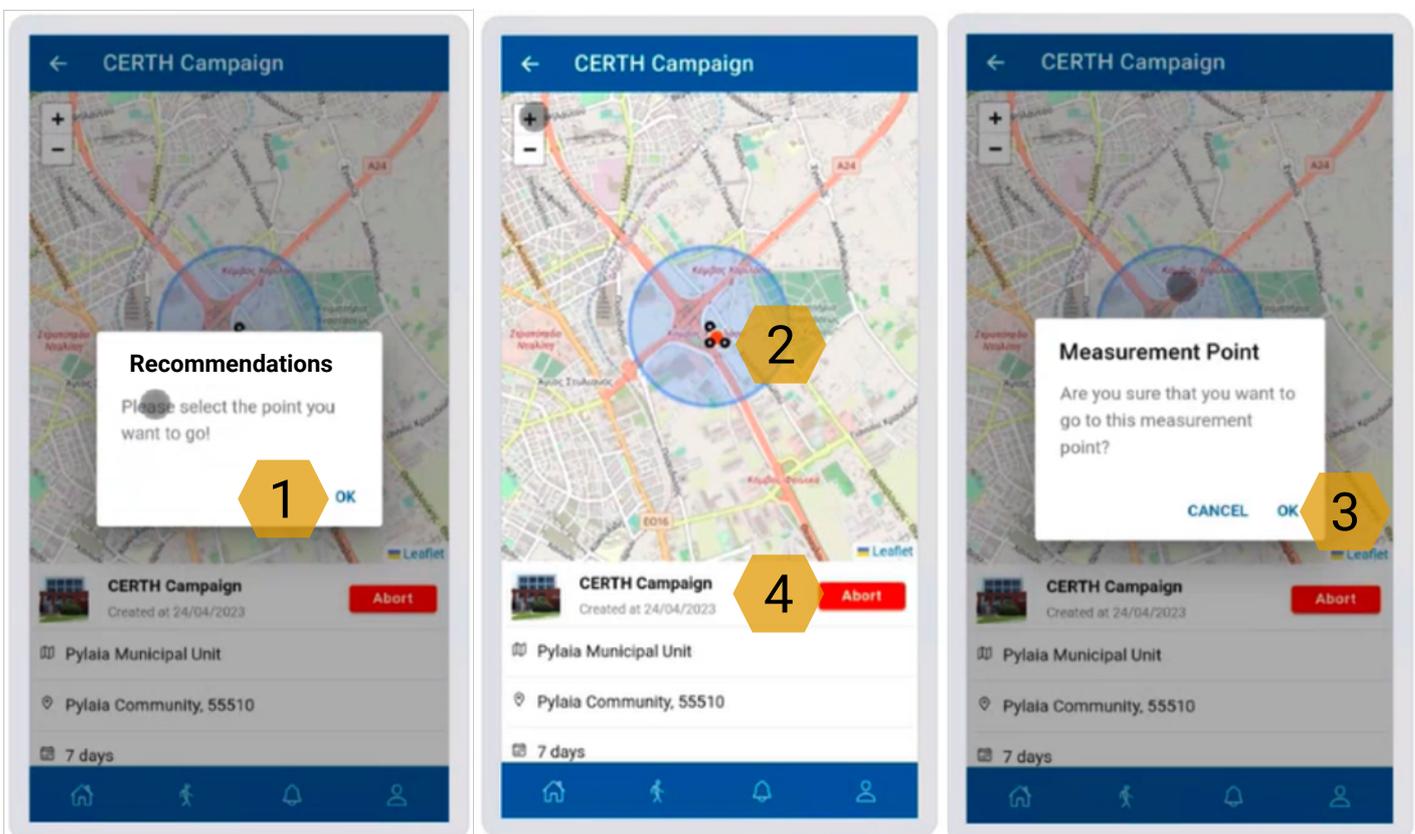
Make sure that the campaign is active and that you are in range.



Select a Measuring Point

Once you are in range of the campaign, the app will recommend and guide you to specific measuring points based on the campaign's needs.

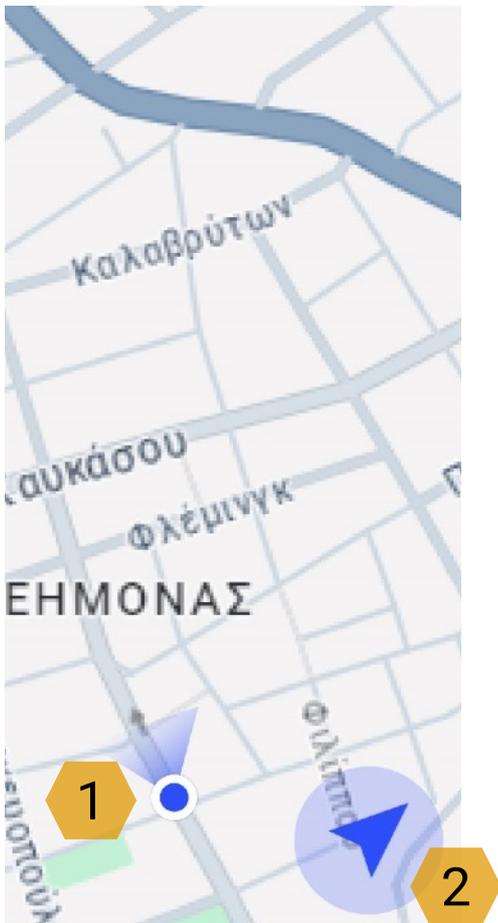
1. Tap "OK" to receive the recommendations.
2. Select one of the recommended measuring points by tapping on it.
3. Tap "OK" to continue to navigation.
4. You may leave the campaign you are currently on at any time just by tapping on the "Abort" button.



Navigate to a Measuring Point

From time to time, check your screen to find your way towards the measuring point(s).

Stay aware of your surroundings and always stop in a safe location before interacting with any devices!



1. The blue dot is you and the cone in front is your point of view.

2. The blue arrow on the bottom right shows you the direction towards the measuring point you selected.

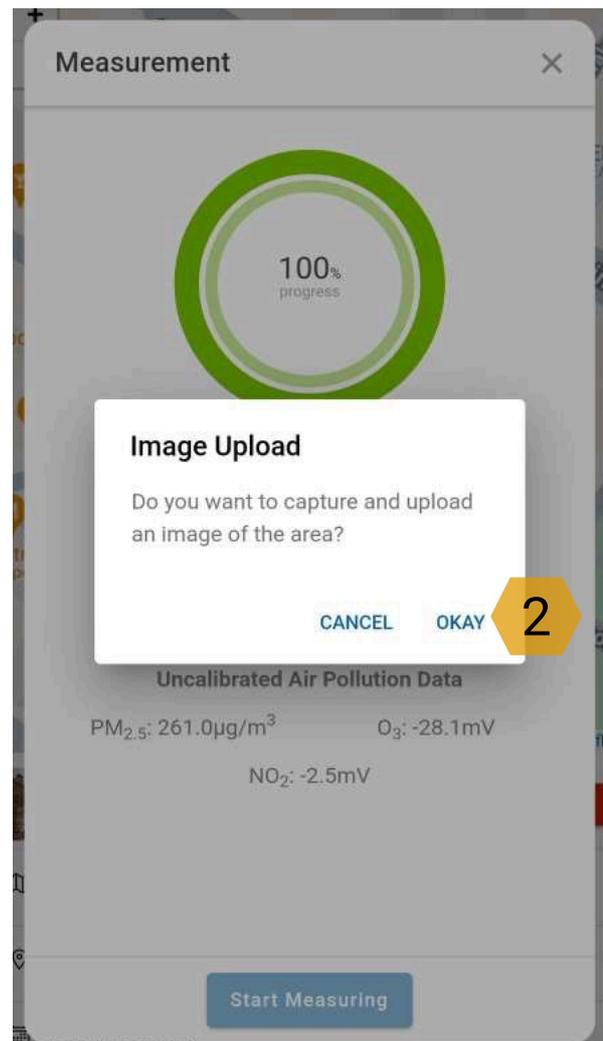
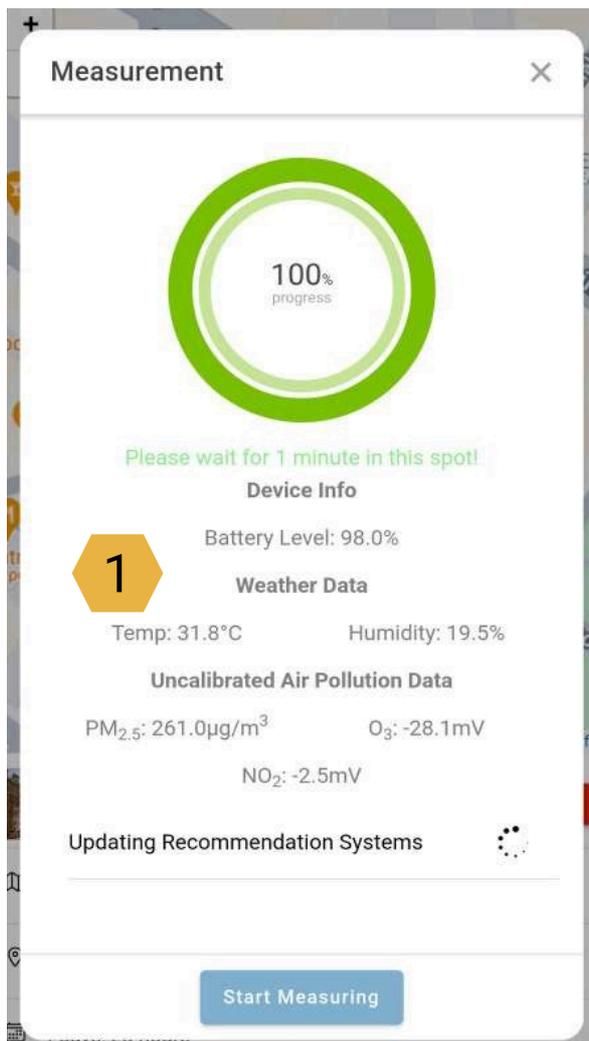
Take a Measurement

1. Once you have reached the measuring point, the measurement window will pop up. Find a safe location to stop moving.
2. Tap on the “Start Measuring” button to initiate the measurement.
3. During measurement, the green loading circle will start to fill up. Ensure the sensor is steady and free of obstructions during the measurement.
4. Once the green circle is completed after 60 seconds, your measurement is completed!



View Measurement and Upload Image

1. Once the measurement is completed, you may view the main data that you collected, including weather and uncalibrated air pollution data.
2. The app will ask you if you want to capture an image of the area to associate with your measurement which will help us identify the pollution source. Tab 'OKAY' to open your camera and take a picture of the area.

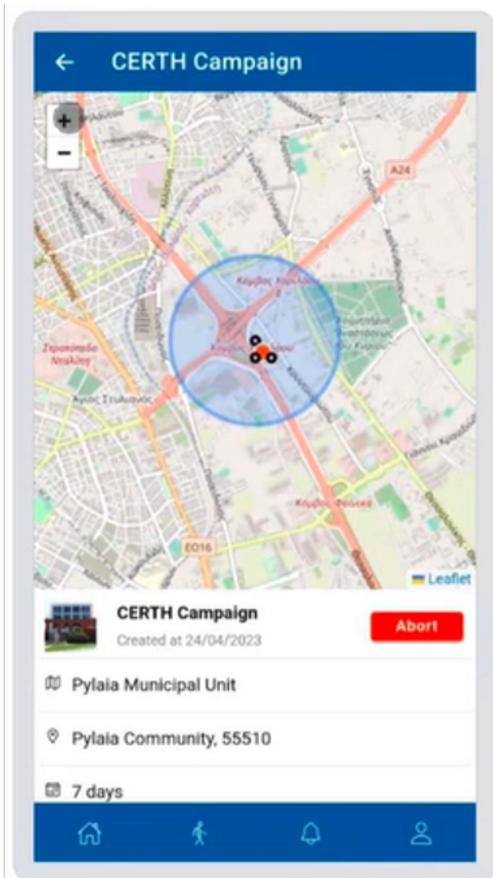


Move to the Next Point

Good work! You submitted your measurement for the campaign's cause, you may continue to the next point.

A new recommendation for measuring points will be displayed on your screen based on your new location and the evolving needs of the campaign.

Repeat the process to submit further measurements to contribute more to the campaign!



You can stop anytime!
SOCIO-BEE is a
voluntary activity!



Step-by-step Measurement

Taking a measurement includes the following 7 main steps:

1. Connecting your sensor to your mobile phone.
2. Selecting your sensor using its unique code.
3. Choosing the measurement point indicated on the map.
4. Walking towards your destination, following the arrow on the map.
5. Once you reach the measurement point, pause for one minute while the sensor takes measurements.
6. Ensure the sensor is steady and free of obstructions during the measurement.
7. Once the measurement is completed you may upload a photo and move to the next.

Safety First!

While using the SOCIO-BEE app, please prioritise your **safety at all times!**

Walking while looking at your screen can be hazardous and increases the risk of accidents or injury!

Always prioritise your safety over using the app!

Avoid Distractions: Do not walk around or navigate the app while moving. Always stop in a safe location before interacting with your device.



Stay Aware: Pay attention to your surroundings, especially when near roads, intersections, or crowded areas.

Use Caution: If you need to adjust settings or view information on the app, find a safe spot away from traffic and other hazards.



Stay Safe: Remember to prioritise your safety and the safety of others while using the SOCIO-BEE app.

Thank you for your cooperation in ensuring a safe experience for yourself and those around you!

Congratulations Worker Bee! Now you know how to use SOCIO-BEE's mobile app to view and contribute to your hives campaigns!

You may also log in with your account to our web platform to explore more data about the air quality in your area and the SOCIO-BEE campaigns around you.

Go to <http://academe.itigr/>

Happy honey hunting!

