



Little Tree Monitoring

Manual - English V.2

12.04.2024 - App version 14.1.51

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1. What is Little Tree Monitoring?

This is the monitoring activity after trees have been planted and while they are still small (tree is less than 1 meter height or DBH less than 3 cm).

This is done in order to take evidence and keep track of the survival rates of the tree seedlings and tree health to determine if replanting is needed.

2. Start TREEO App

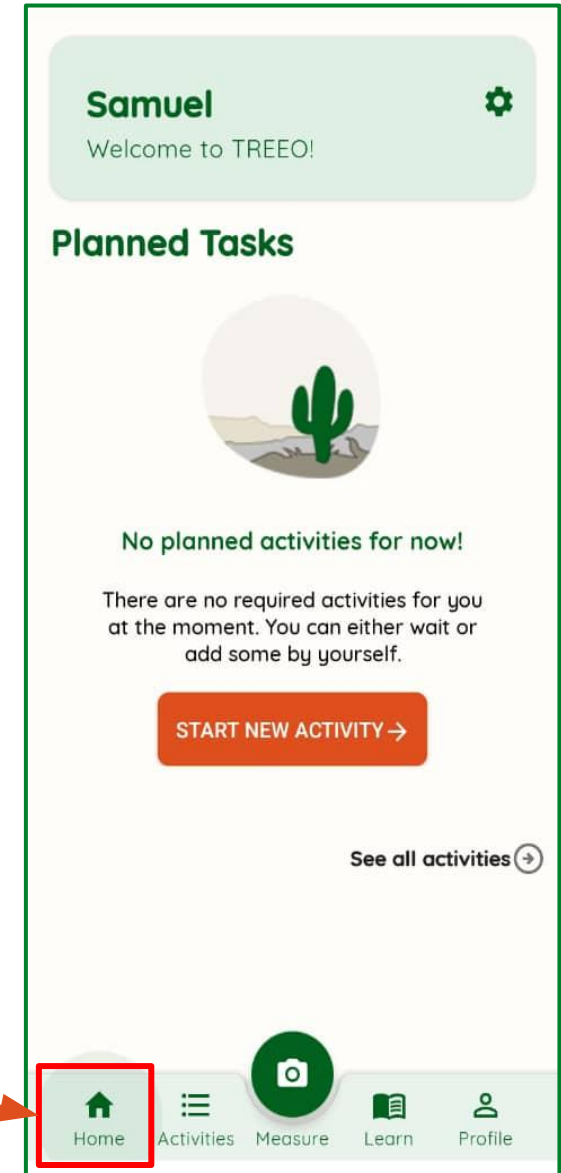
- Tap the TREEO App icon from your phone



- Go to the App Home Page

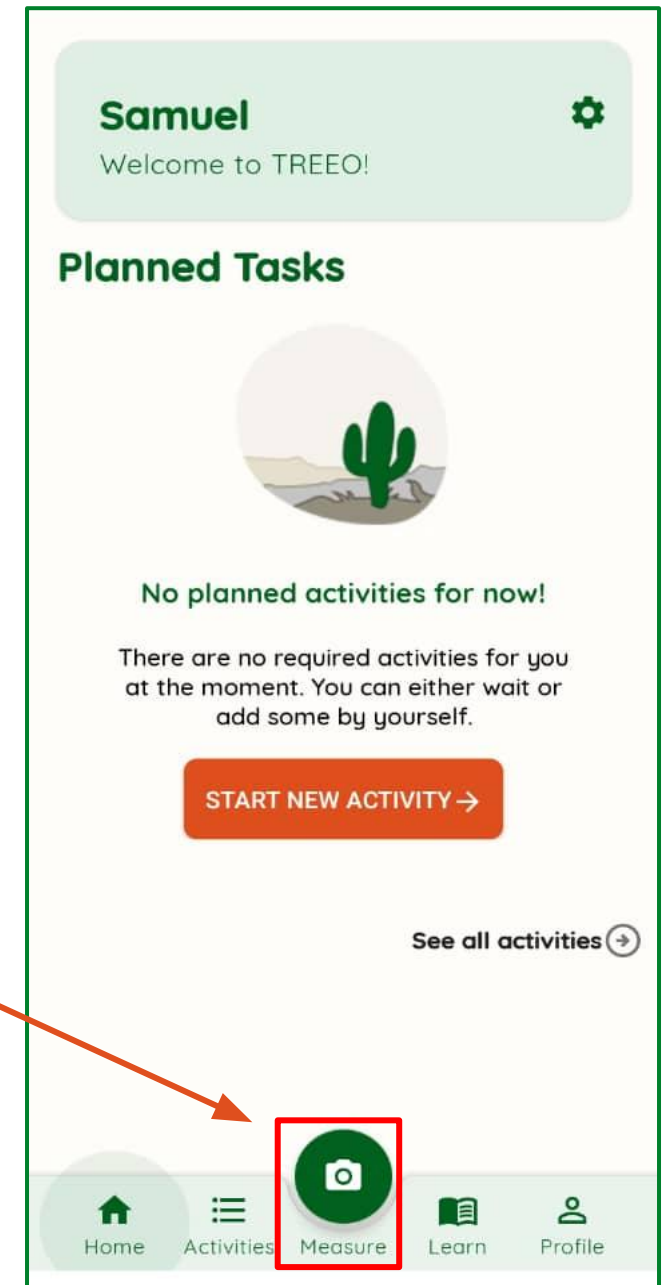


App Home Page



2.1 Start Tree monitoring

- From the App Home Page, select the **camera** button ("**Measure**")



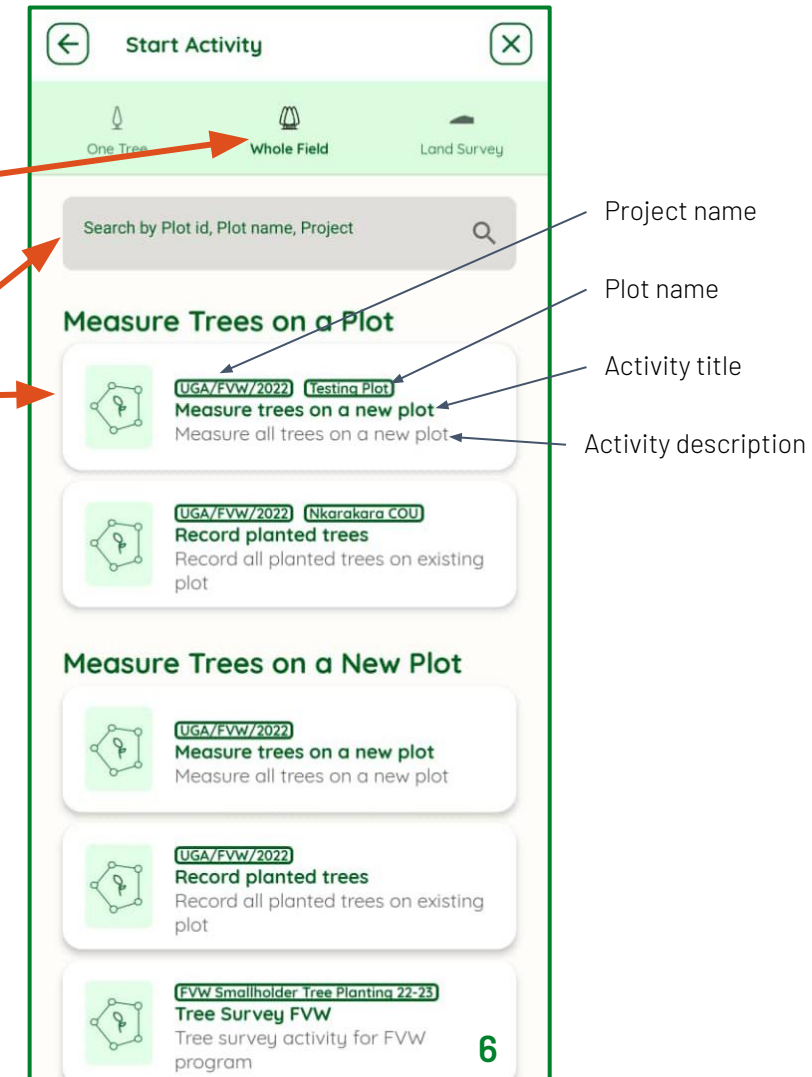
2.2 Start Tree monitoring

Steps

1. Tap on **“Whole Field”** at the top tab bar
2. Search tree survey activities by plot name or project
3. Select activities below **“Measure Trees on a Plot”** title to start a land survey activity

Note:

If you already surveyed your land and your plot does not appear, reach out to the TREEO support team for assistance.



2.3 Permissions - Camera

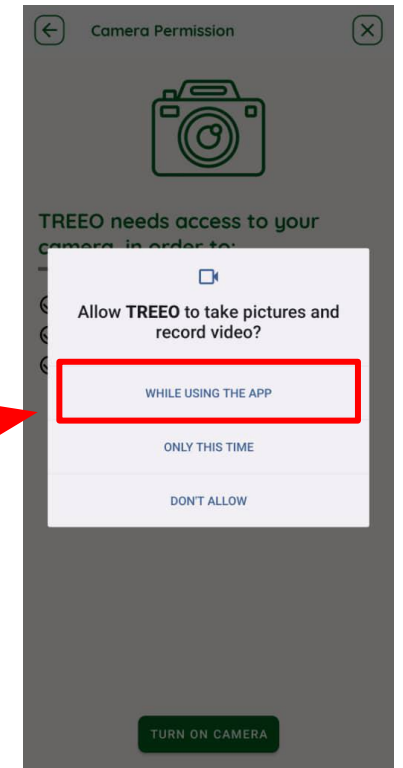
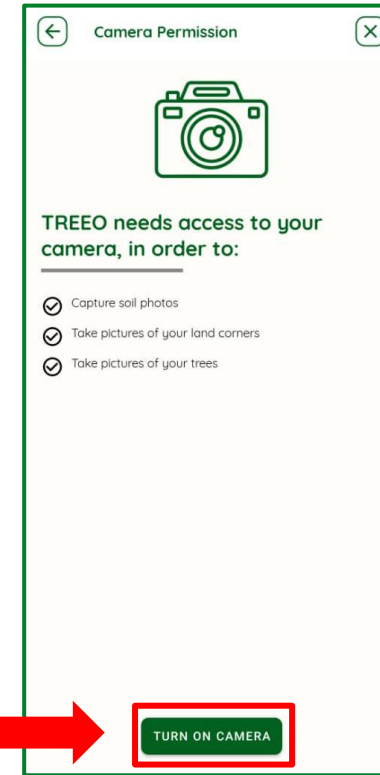
Important Reminder:

The TREEO App requires camera access

1. To continue, activate camera by tapping on **“TURN ON CAMERA”** and follow the instructions
2. Then select **“WHILE USING THE APP”**

Note:

If the camera permission is already granted, this page will not appear.



2.4 Permissions - Location

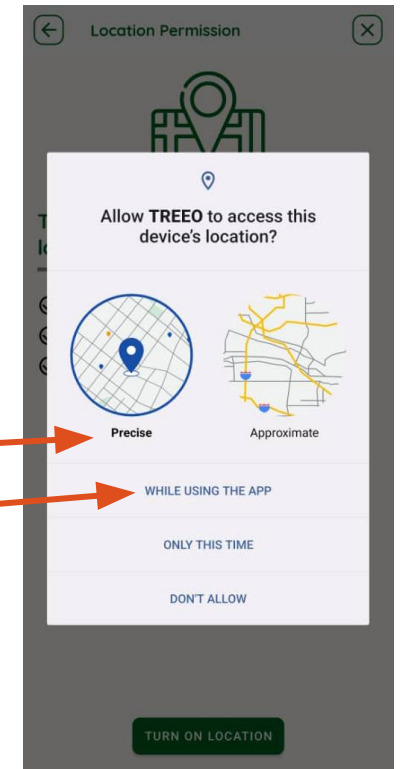
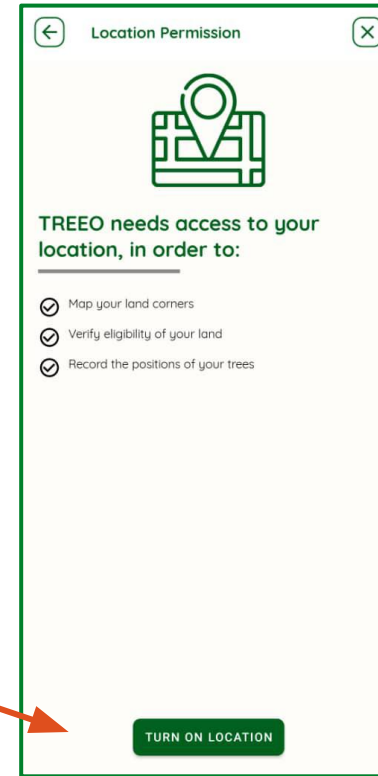
Important Reminder:

The TREEO App requires Location access

1. To continue, activate location by tapping on **"TURN ON LOCATION"** and follow the instructions
2. Then choose **"Precise"**
3. Then tap **"WHILE USING THE APP"**

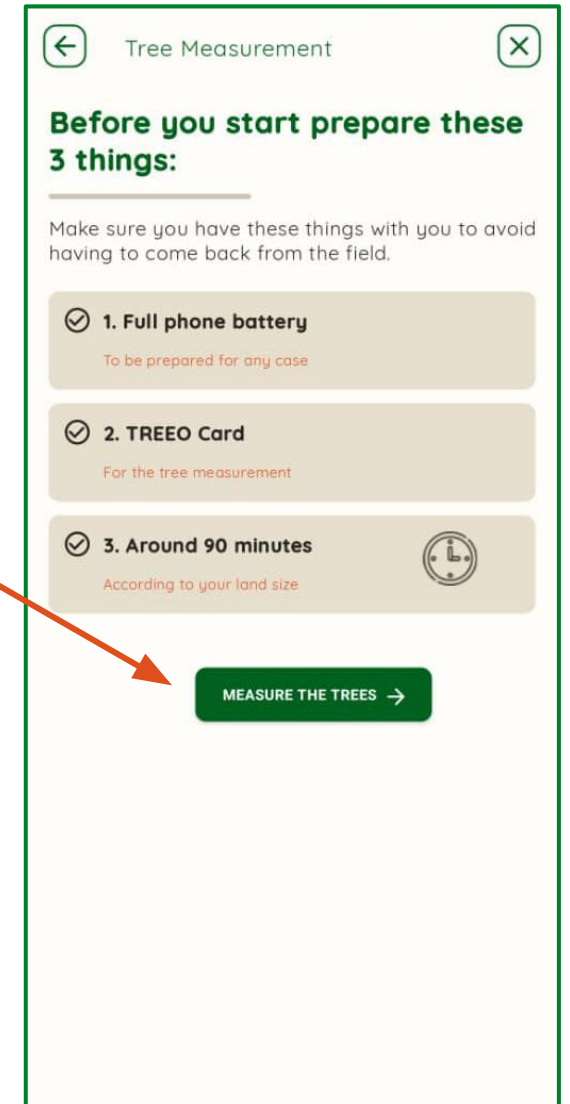
Note:

If the location permission is already granted, this page will not appear.



3.1 Preparation: Instructions

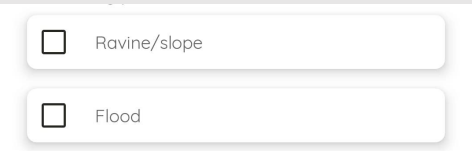
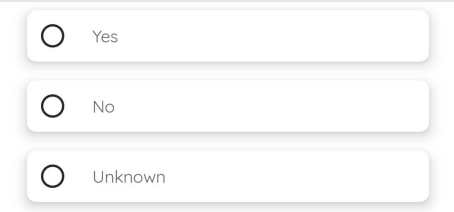
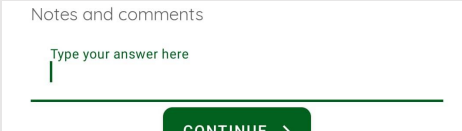
- Please read and carefully follow instructions on how to properly conduct tree monitoring.
- Proceed with **“MEASURE THE TREES”** button.

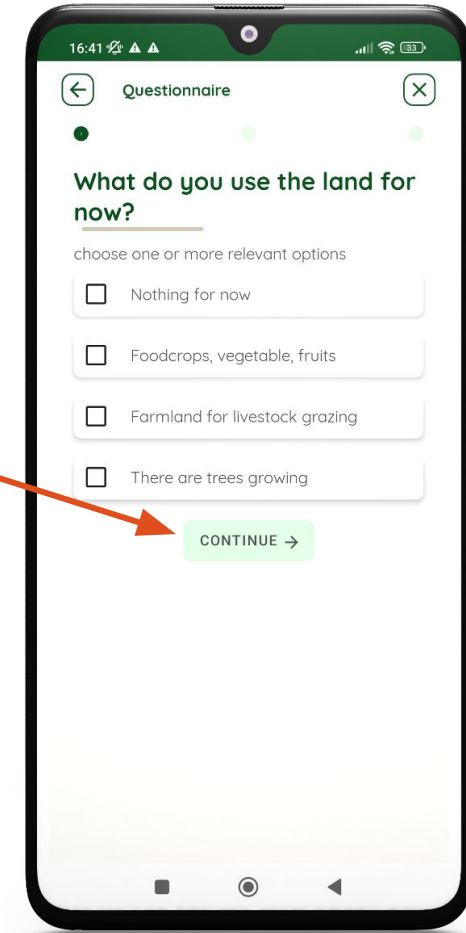


3.2 Preparation: Questionnaires

- Answer the questions in the form.
- Tap **“CONTINUE”** to proceed, after adding your response.
- Sometimes your project does not have questionnaires so you might not see them.

Tip: There are several input types, and these include:

 <p><input type="checkbox"/> Ravine/slope <input type="checkbox"/> Flood</p>	 <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown</p>	 <p>Notes and comments Type your answer here</p>
More than one option can be selected	Only option can be selected	Short / Long answer can be typed



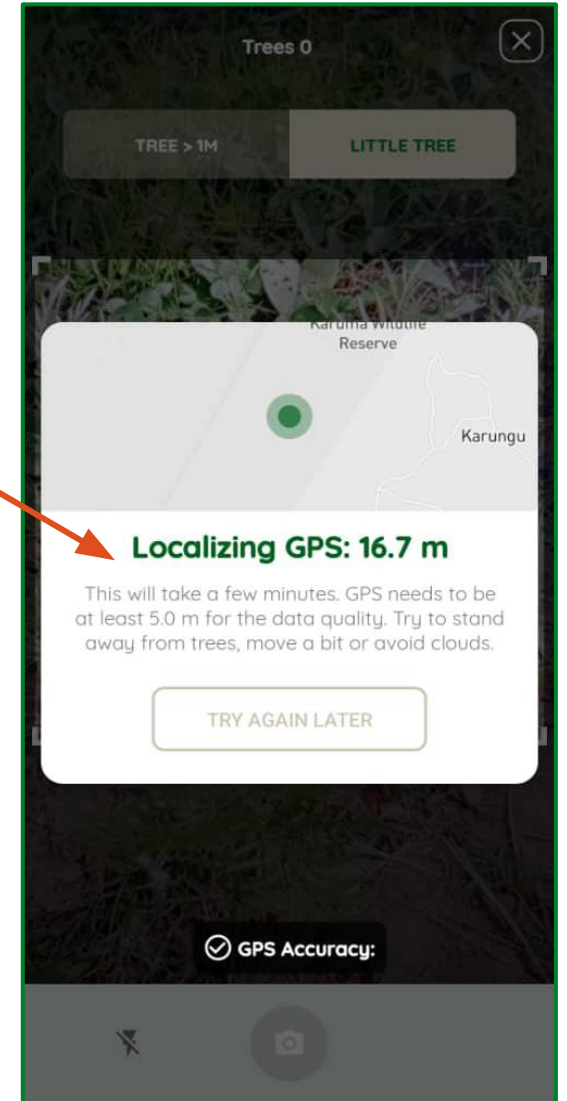
3.3 Preparation: GPS

GPS Waiting Screen

- On the camera screen, the app is getting your exact location. you need to wait until the GPS localizing box disappears.

Note:

GPS Threshold is the maximum acceptable GPS accuracy set by the project. Until your GPS reading is under this threshold, the GPS box will still be visible.

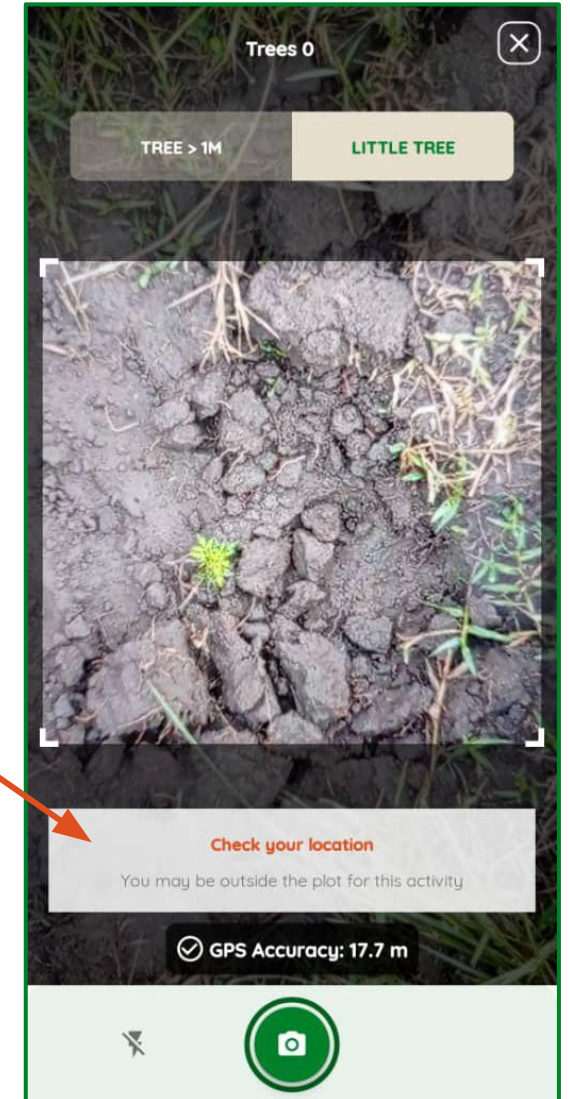


4.1 Taking Pictures: Check Plot

If you are outside the activity plot area, this warning box will appear. You are probably monitoring a wrong plot.

Note:

Cross-check the plot name or reach out to the plot owner if that area was included in the land plotting.



4.2 Taking Pictures: Little Tree

1. Select **"LITTLE TREE"**
2. Wait until the green camera button below is visible.
3. Press camera button to capture the little tree in your camera view.
4. Use the Camera flash light switch on the device camera flash light.

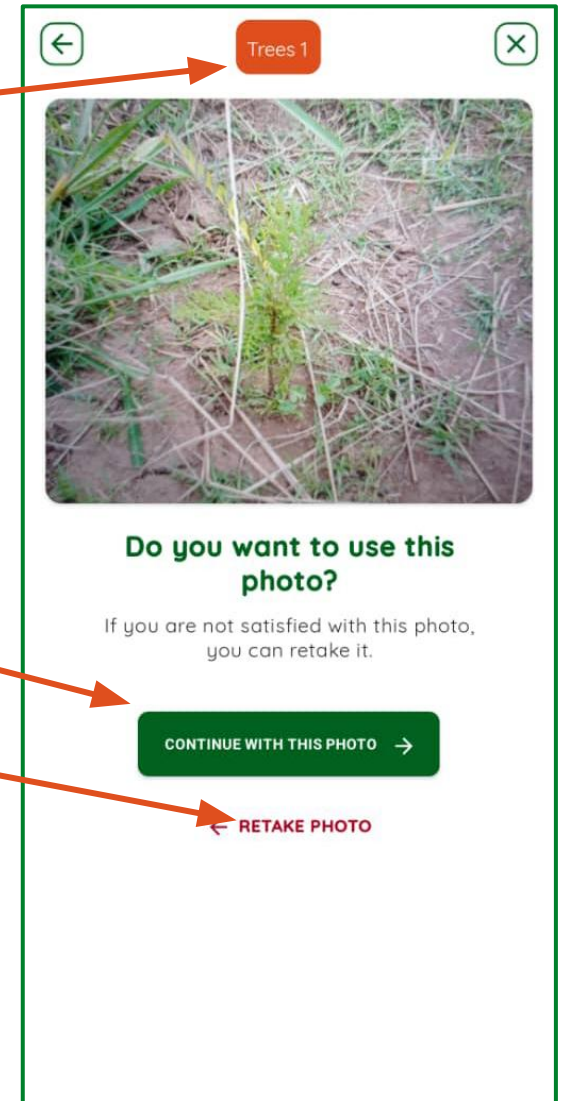
Note:

1. Make sure you stand overhead the tree. Face your camera down. If the tree is tall, take from you knee level down, but be as close to the tree as possible.
2. Depending on the activity configuration, sometimes when the option to switch to "little tree" is not available, it means it is the default activity.



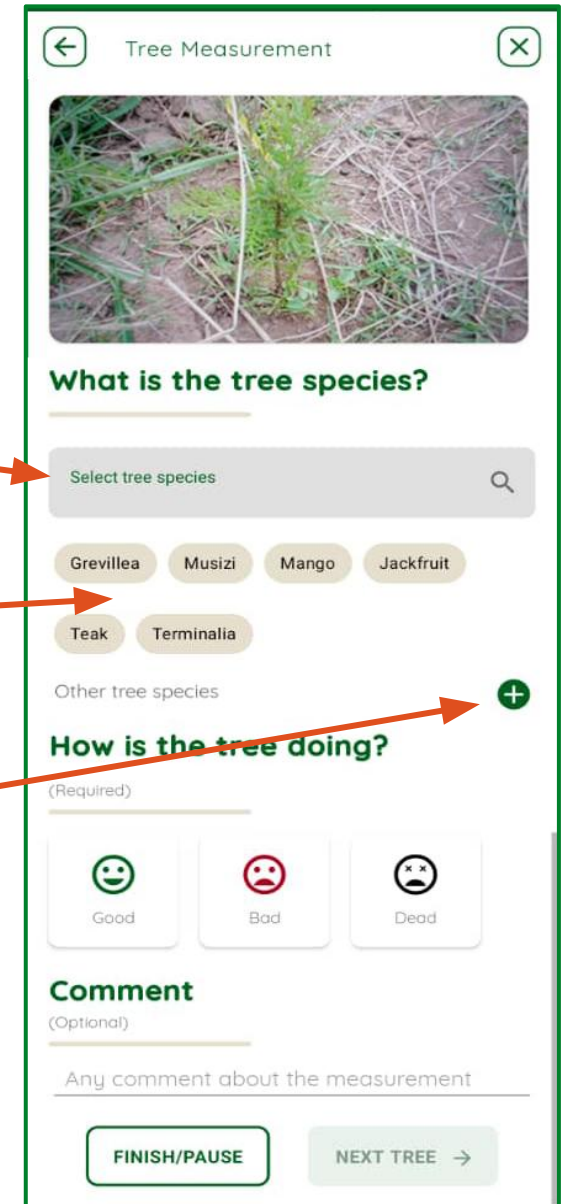
4.3 Taking Pictures: Confirm

- Current tree count
- If you are satisfied with photo, press **"CONTINUE WITH THIS PHOTO"**
- You can retake this photo if it is not clear



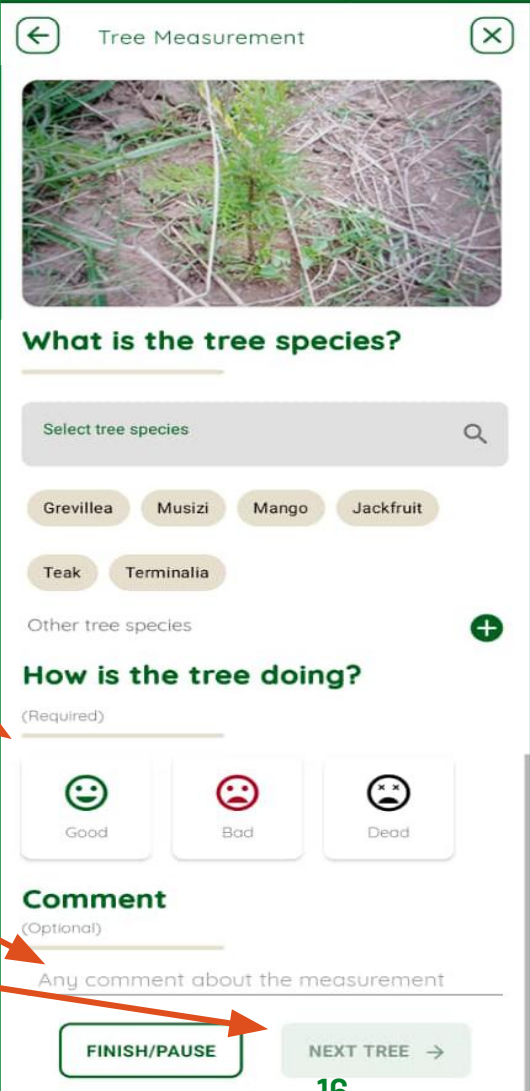
4.4 Taking Pictures: Species

1. When you are not able to find a Tree species from those provided in list, use this search input to find the tree species
2. Select the tree species from this list. This is a mandatory step to proceed.
3. If you are not able to find the species in the search, and your species is not on the list, add a new one using the input box after tapping this button.



4.5 Taking Pictures: Health

1. Select the icons that represent the health status of the tree
2. If you have a comment, add it here
3. Tap **"NEXT TREE"** to take evidence of the next tree




The screenshot shows the 'Tree Measurement' app interface. At the top, there is a back arrow and a close button. Below is a photo of a tree. The main section is titled 'What is the tree species?' and features a search bar labeled 'Select tree species'. Below the search bar are several tree species buttons: Grevillea, Musizi, Mango, Jackfruit, Teak, and Terminalia. There is also a plus sign for 'Other tree species'. Below this is the 'How is the tree doing?' section, which is marked as '(Required)'. It contains three buttons: 'Good' (with a green smiley face), 'Bad' (with a red frowny face), and 'Dead' (with a black frowny face). Below the health status buttons is the 'Comment' section, marked as '(Optional)'. It has a text input field labeled 'Any comment about the measurement'. At the bottom, there are two buttons: 'FINISH/PAUSE' and 'NEXT TREE →'. Three orange arrows point from the text instructions on the left to the 'Good', 'Bad', and 'Dead' buttons, and the 'NEXT TREE' button.

5 FINISH/PAUSE

- When you want to pause or exit this activity, tap **"FINISH/PAUSE"**

Tree Measurement



How is the tree doing?
(Optional)

Good Bad Dead

Comment
(Optional)

Any comment about the measurement

FINISH/PAUSE NEXT TREE →

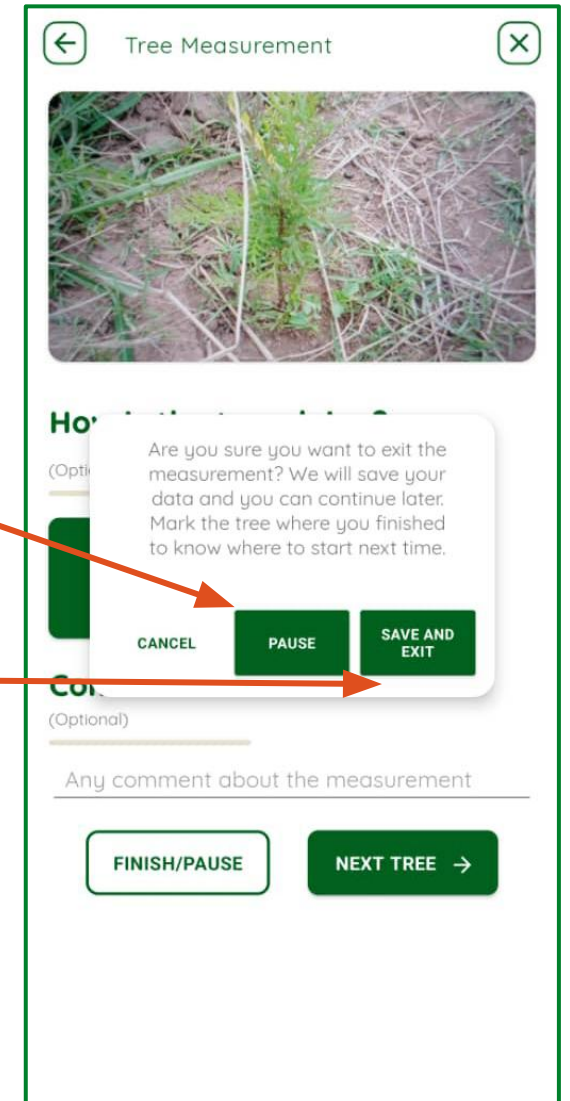
5.1 PAUSE or EXIT Activity

Option 1: PAUSE

- If you need to take a break, tap **"PAUSE"** button, the app will take you back to the Home Screen. You can resume this activity when you tap on the "Activities" in the App home page, under the unfinished tab.

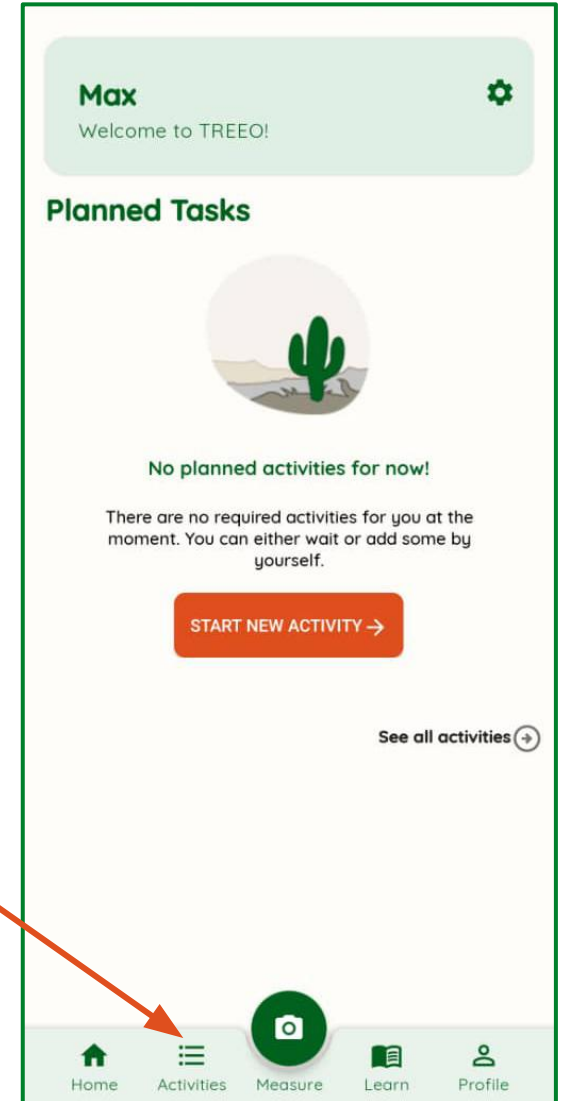
Option 2: EXIT

- When you are done monitoring all trees inside your plot, tap **"SAVE AND EXIT"**



5.2 Paused: Resume Activity

- Open App to home page
- At the bottom navigation, tap the **“Activities”** button

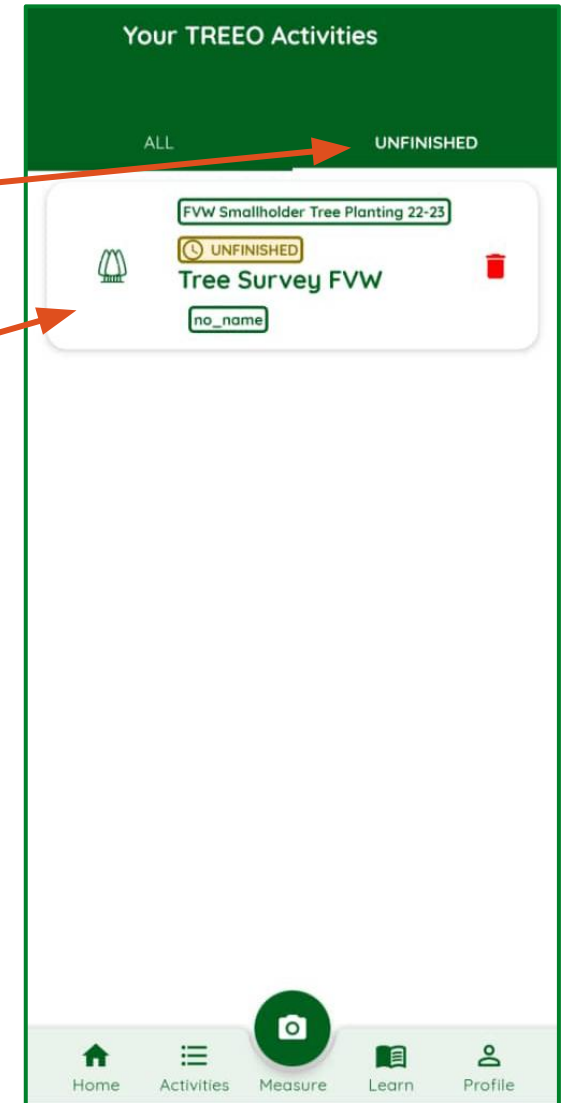


5.2 Paused: Resume Activity

- Select the **“UNFINISHED”** tab
- Select the activity you would like to resume

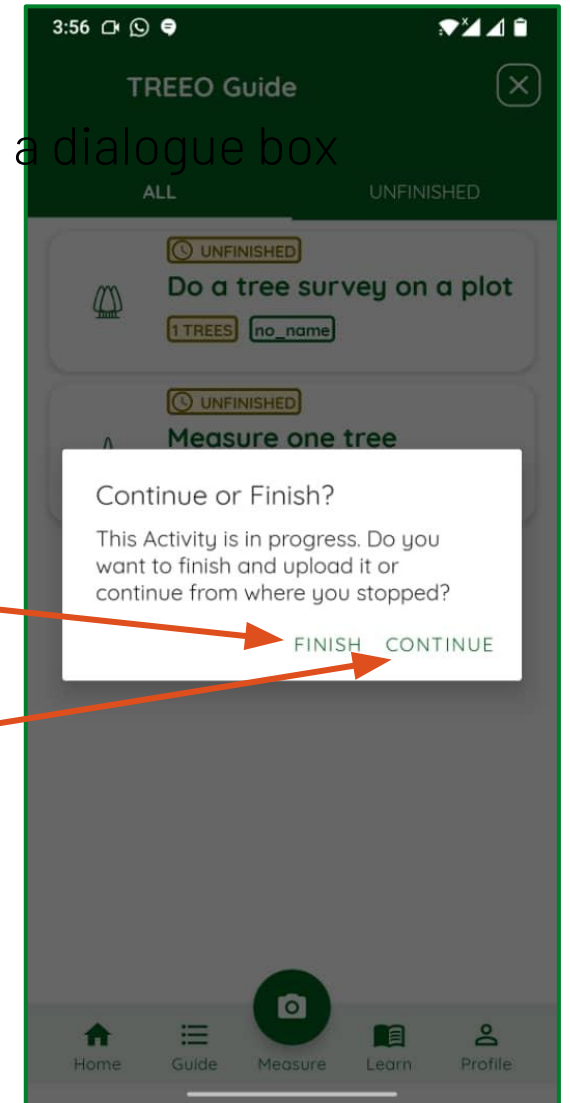
Note:

Remember the last tree you monitored, and go to the next one



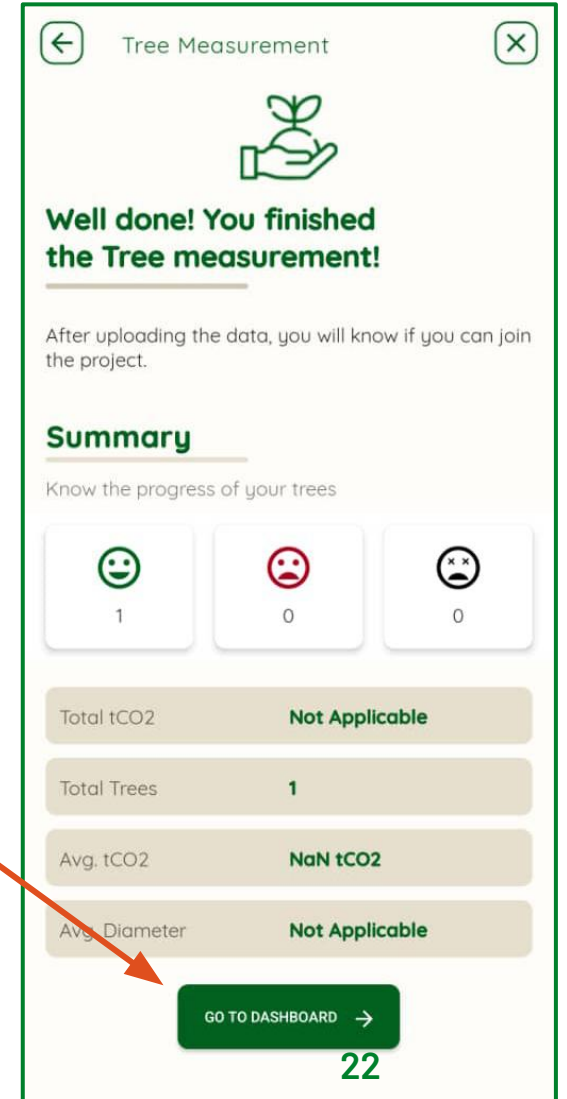
5.3 Paused: FINISH / CONTINUE

- When you have unfinished activities under the Treeo guide section, a dialogue box appears.
- Tap **“FINISH”** and activity data will start uploading
- Tap **“CONTINUE”** to resume the unfinished activity



5.4 Activity Summary

- The app will bring you to the Summary page, providing you information regarding the tree monitoring
- Exit to the home page by tapping **“GO TO DASHBOARD”**



5.5 Upload your data

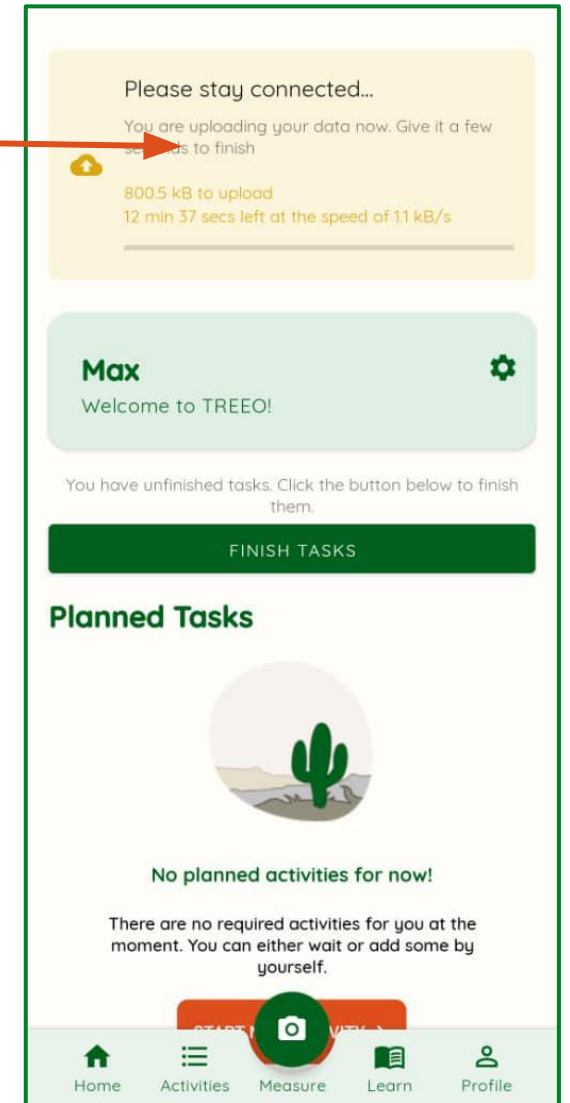
- Once connected, an upload status bar will appear, and all your data will be uploaded. Make sure your internet connection is good and wait that all data has synced.



Note:

TREEO App needs internet connection to upload the data to our server. When not connected to the internet, it will keep all your data and wait for you to connect.

NEVER DELETE ACTIVITIES OR REMOVE THE APP UNTIL EVERYTHING IS UPLOADED: ALL DATA NOT UPLOADED WILL BE LOST AND CAN NOT BE RECOVERED



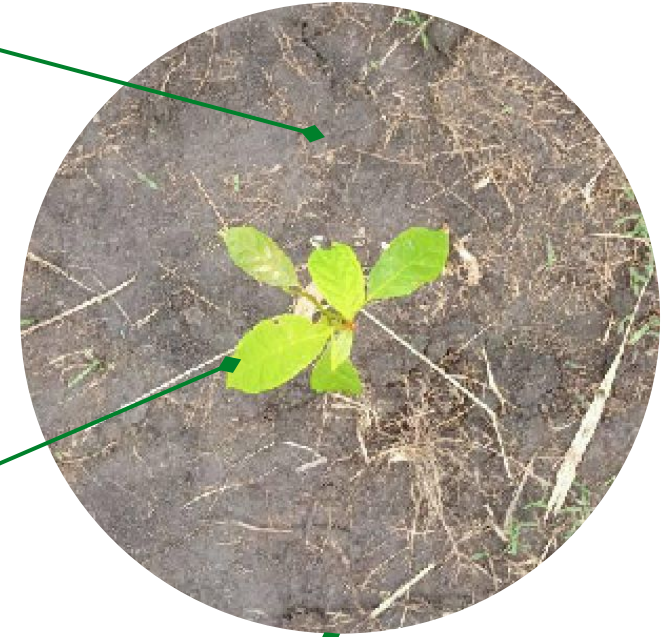
6.1 Best Practice: General

- Make sure to update app to the latest version from the Play Store (never from .apk file)
- Ensure that the GPS accuracy is as low as possible
- Make sure the whole tree is visible and there is enough light
- Perform the little tree monitoring as soon as possible after tree planting (max. 3 months)
- Make sure all your data is uploaded to TREEO Cloud as soon as possible (you need to connect to the internet)

6.2 Best Practice: Taking Picture



Clear area around tree
(Spot Weeding)



Clear view of the leaves

Picture taken directly from
the top of the seedling

6.2 Best Practice: Pictures to Avoid



Poor visibility of leaves



Lack of spot weeding



Monitoring
unplanted trees is
not allowed



Waiting too long
between planting and
tree monitoring

7. Need more support?

Please note that we update the app regularly and new updates may not be included in this user manual.

If you need help with following the instructions or encounter any issues with the TREEO app, please contact us at:

Email: **support@treeo.one**

WhatsApp: **+49 174 162 89 99** (Monday - Friday: 09.00 - 17.00)