

# Regreening Africa

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Spatial Data Science & Applied Learning Lab (SPACIAL)



# About this App

Regreening Africa App is a mobile-based Android application that helps users to collect information on how farmers are managing and protecting trees on their farms.



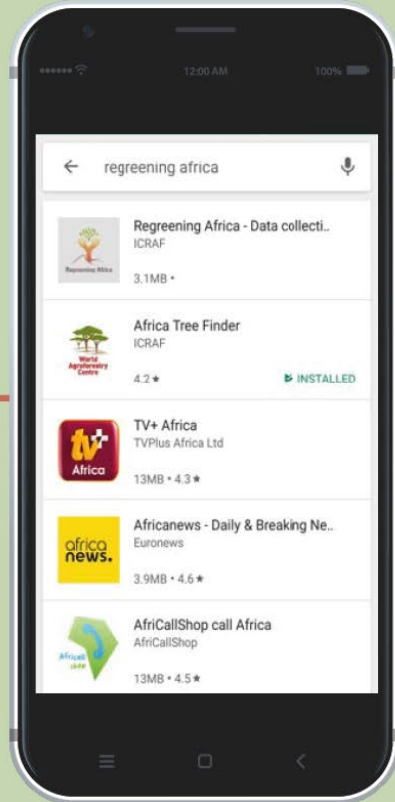


# THE REGREENING AFRICA APP

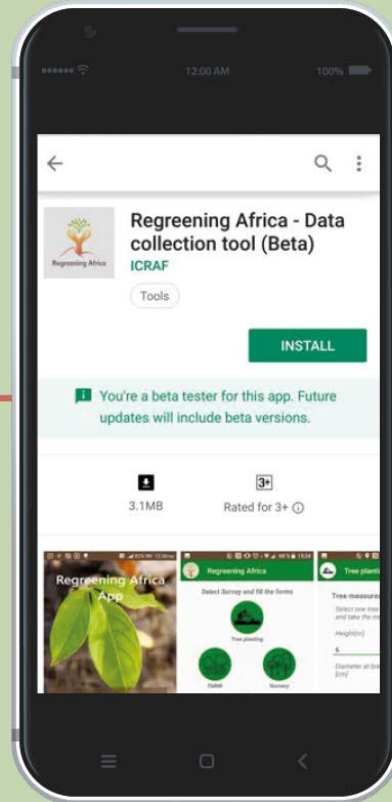


## How to download **Regreening Africa App**

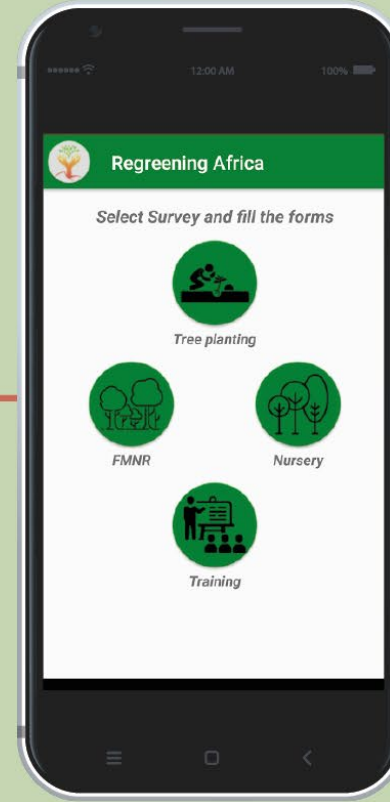
### Locate App



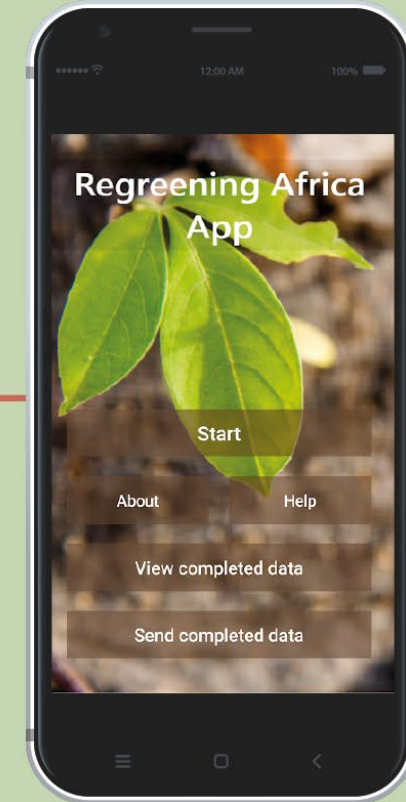
### Install App



### Start up App



### Open survey forms



# THE REGREENING AFRICA APP



## Features of the **Regreening Africa App**



### TREE PLANTING MODULE

- Record details of farmers and regreened plot
- Track tree growth
- Date(s) planted
- Characterise species composition and assess tree planting practices
- Field boundary recorded
- Location of trees planted
- Number of trees planted
- Survival of trees



### NURSERY MODULE

- Ensuring that farmers have access to quality planting materials and a wide range of species for tree planting
- Record nursery information and location
- Record nursery practices
- Record nursery production



### FARMER MANAGED NATURAL REGENERATION (FMNR) MODULE

- Record details of farmers and regreened plots
- Characterise dominant species composition
- Assess FMNR practices



### TRAINING MODULE

- Record training details
- Record gender participation in training sessions



# THE REGREENING AFRICA APP



## Why do we need it?

The Regreening Africa App links land restoration activities implemented by farmers and pastoralists to large global initiatives, providing evidence that can positively inform these efforts, whilst simultaneously assessing their effectiveness on the ground.





# THE REGREENING AFRICA APP

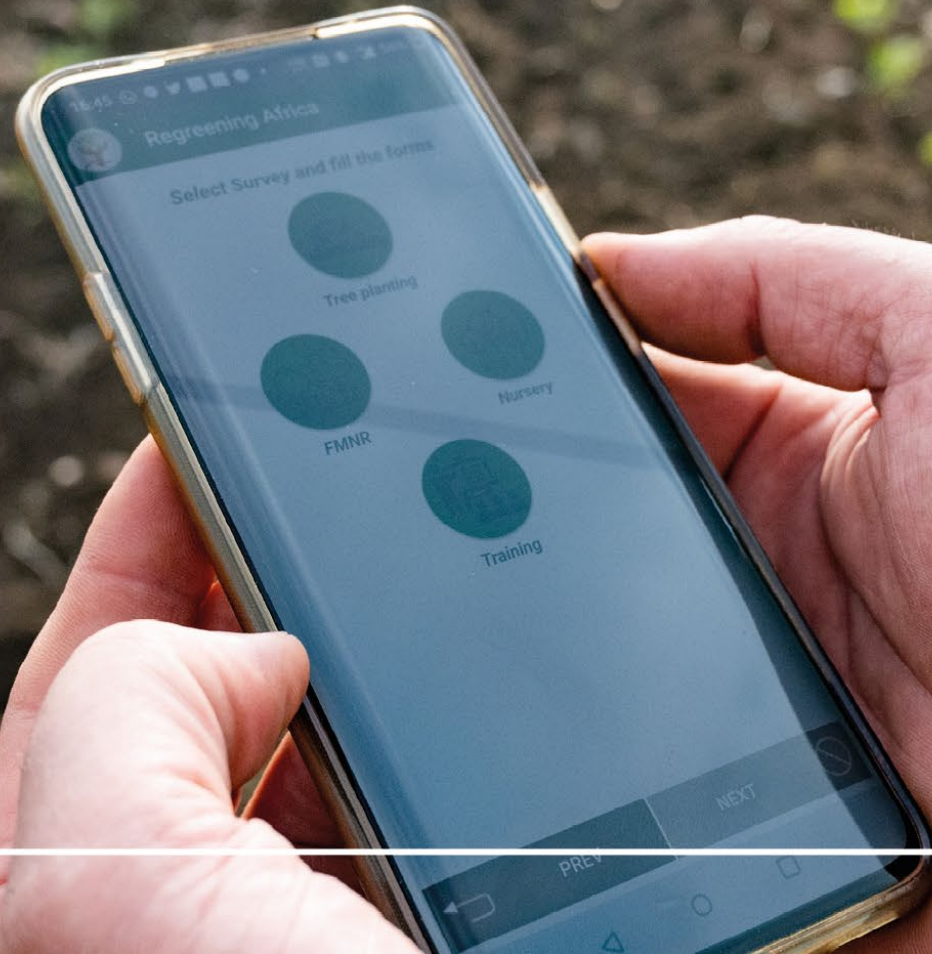


What is unique about the app?



**The App is a data collection and monitoring tool.**

The information collected can be integrated into various types of analytics and combined with information on land health and other thematic data.





# THE REGREENING AFRICA APP



What is unique about the app?



**The App enables stakeholders including farmers to record and track their land restoration practices.**

The locations of their activities are geo-referenced and species diversity and growth are recorded in real-time.





# THE REGREENING AFRICA APP



What is unique about the app?



**Data collected through the App is freely and instantly available** to the users and various outputs from the synthesis of the data, such as critical land health indicators, are then shared with the public through the Regreening Africa Dashboard.



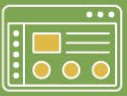
Regreening Africa



# THE REGREENING AFRICA APP



What is unique about the app?



**The App is continually updated and the design and interface amended,** based on farmers, extension agents and project implementing teams to add requested data and ensure the design and functionality match the user needs.



# THE REGREENING AFRICA APP



What is unique about the app?



Project implementors are able to use the data for **real-time decision support in project implementation and monitoring.**





# THE REGREENING AFRICA APP



What is unique about the app?



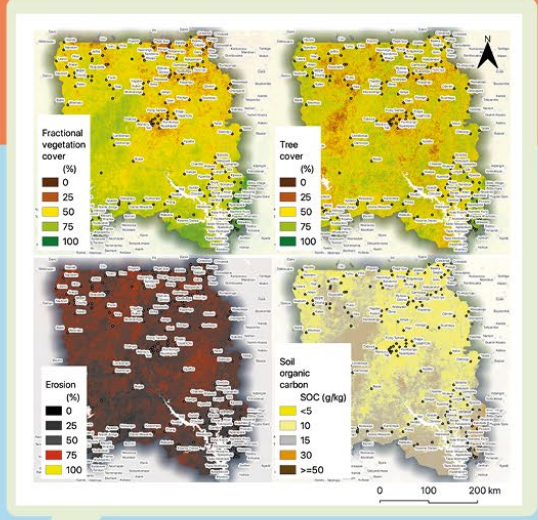
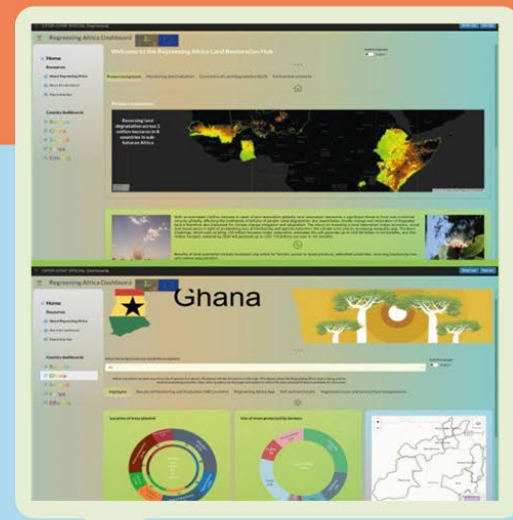
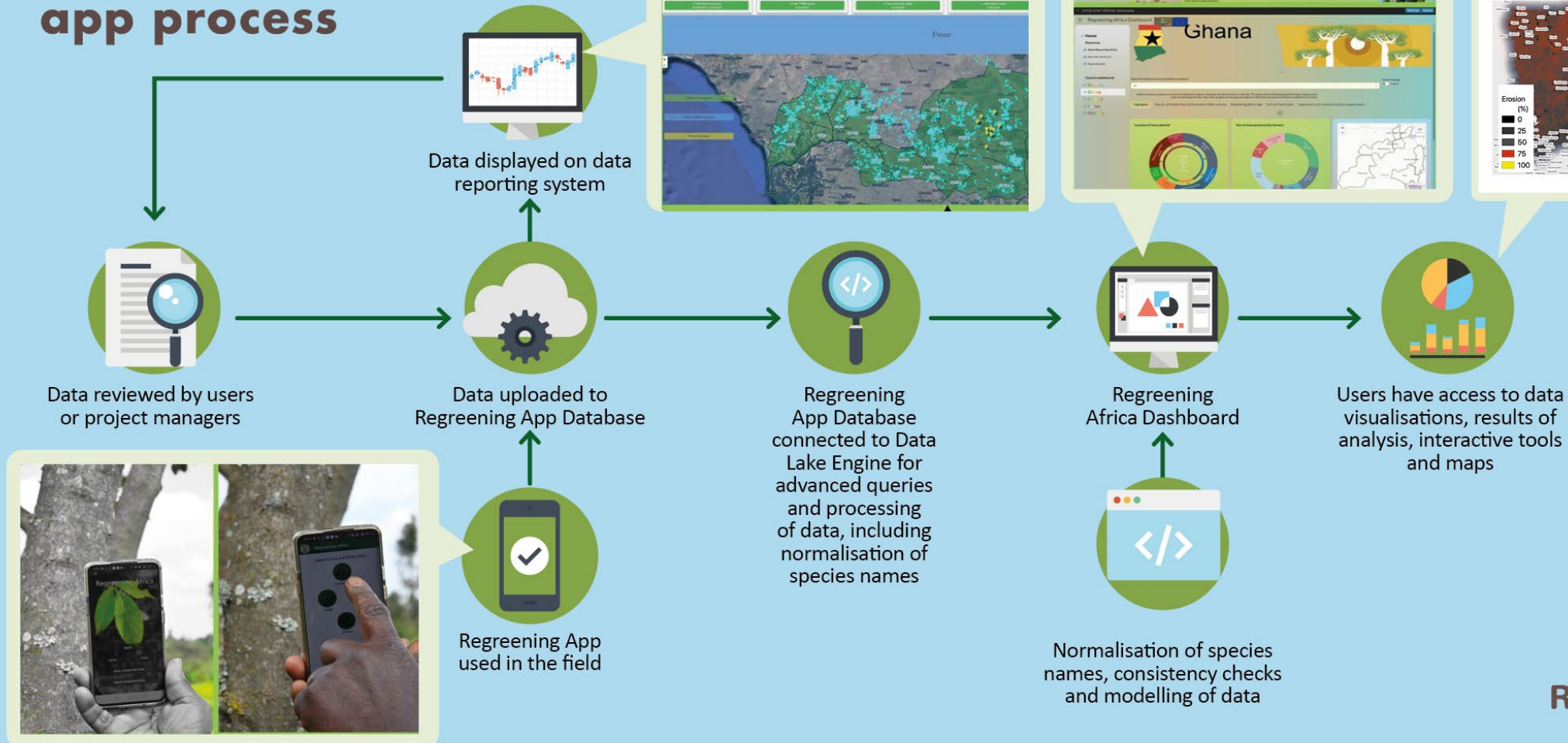
Data collected using the App is combined with **spatial assessment of land health and can be applied in soil carbon monitoring**, relating directly to climate neutrality goals or restoration targets.





# THE REGREENING AFRICA APP

## Regreening Africa app process



Examples of indicator maps for northern Ghana, the maps are generated for each country at 30 m spatial resolution to assess spatial variations and changes over time





# Thank you

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