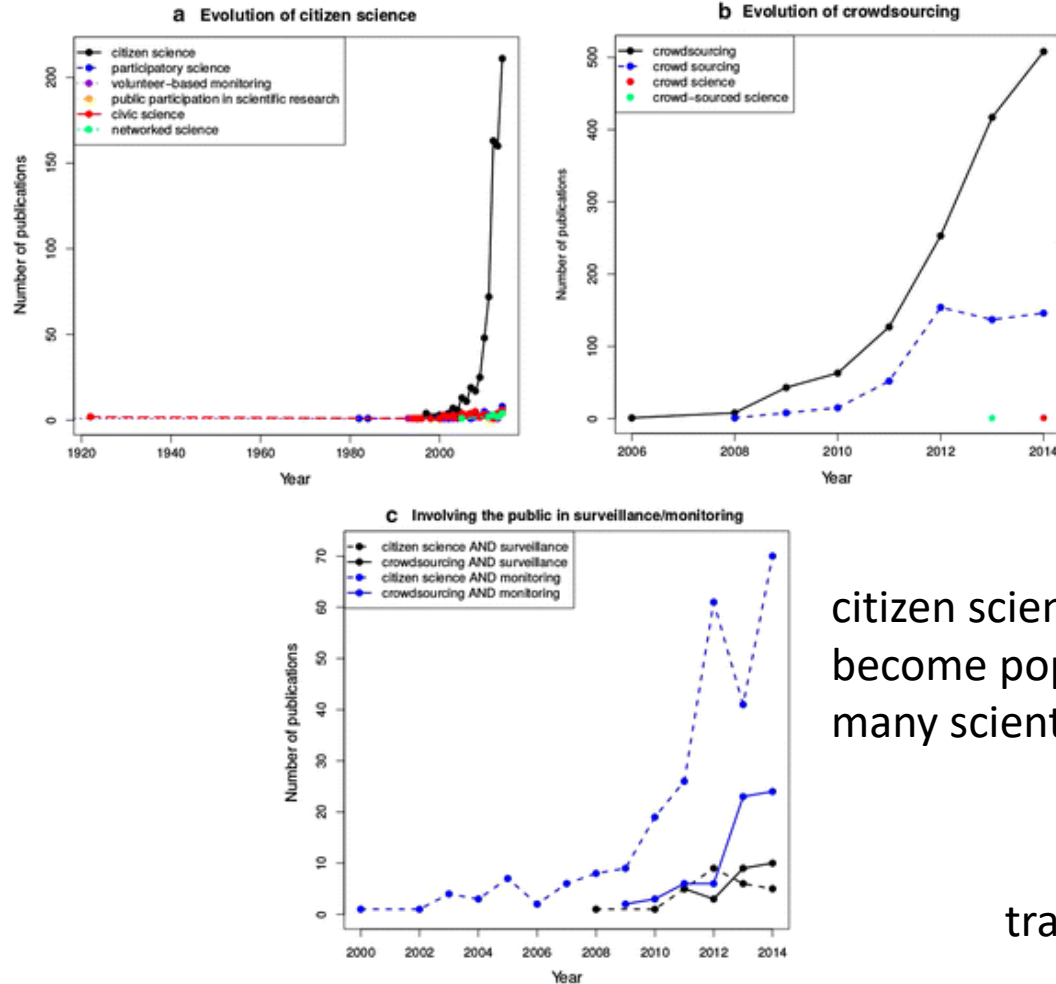


Integrating citizen surveillance and systematic data collection in monitoring of land restoration

Tor-G. Vågen



“Citizen surveillance as any type of activity conducted by volunteers, recruited or not, that results in monitoring or surveillance data”



citizen science has become popular in many scientific areas

can be structured or unstructured (i.e. crowdsourcing)

trade-off between data quality and data quantity

Welvaert, M., Caley, P. Citizen surveillance for environmental monitoring: combining the efforts of citizen science and crowdsourcing in a quantitative data framework. SpringerPlus 5, 1890 (2016). <https://doi.org/10.1186/s40064-016-3583-5>



Structured or systematic data collection and monitoring

more costly

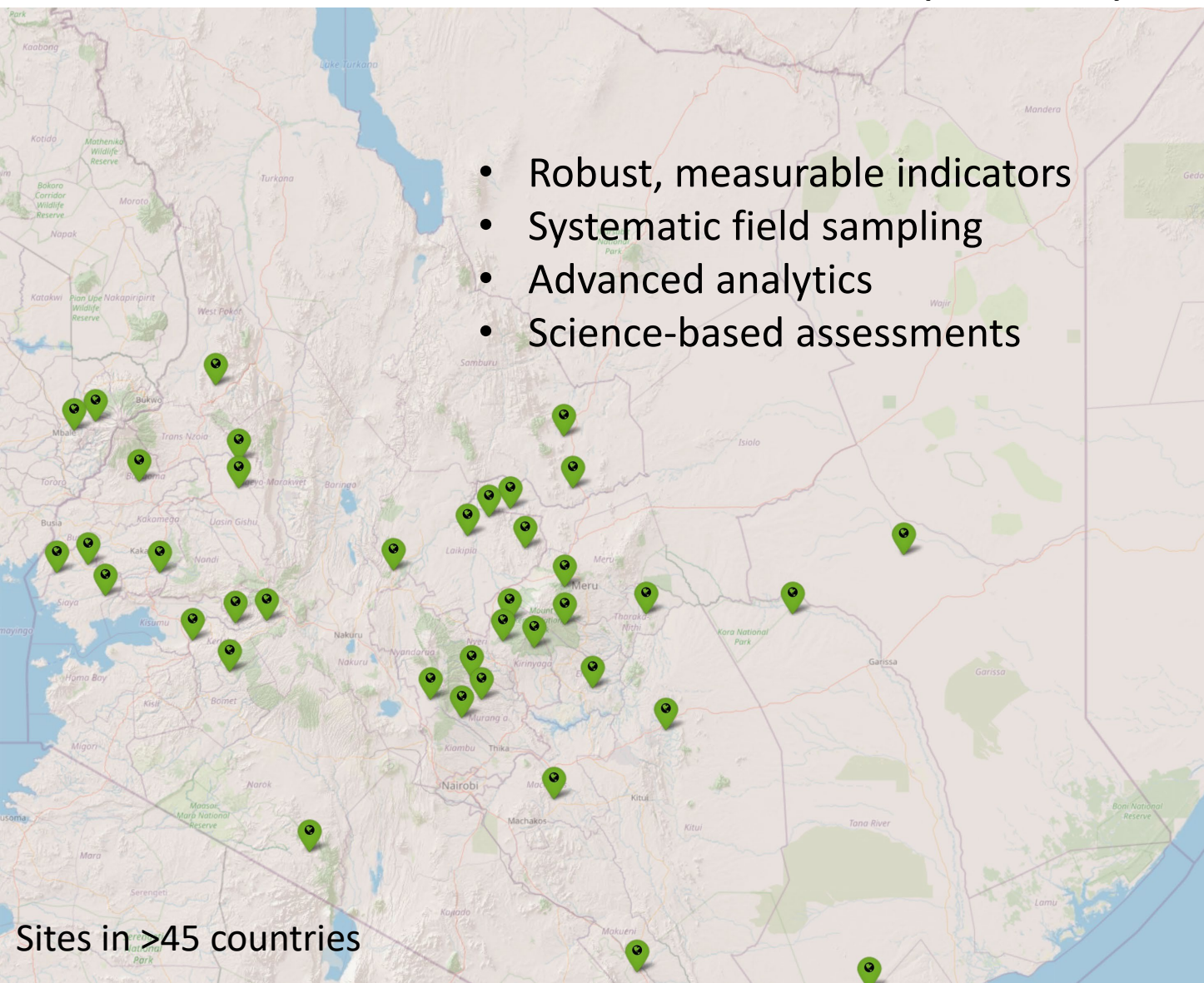
more challenging to scale

data quality high(er)

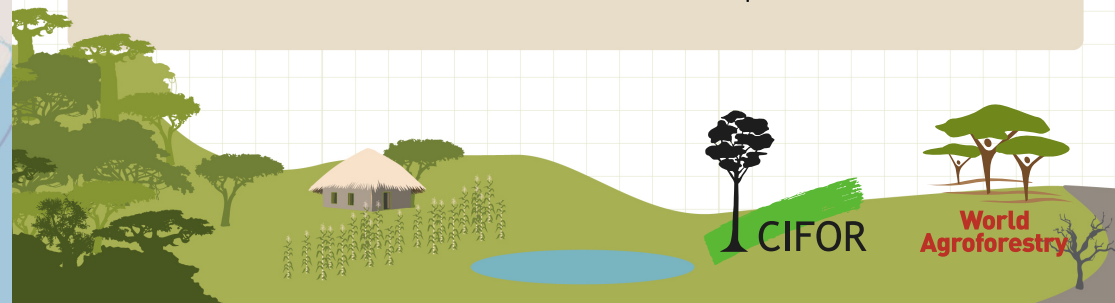


The Land Degradation Surveillance Framework (LDSF)

- Robust, measurable indicators
- Systematic field sampling
- Advanced analytics
- Science-based assessments



Sites in >45 countries



Regreening Africa App

Start

About

Help

View completed data

Send completed data

Citizen science data collection using the Regreening Africa App

Used by (among others):

- Implementing partners
- Scientists
- Extension agents
- Lead farmers
- Nursery managers

Modules:

- Tree planting
- FMNR
- Nurseries
- Training

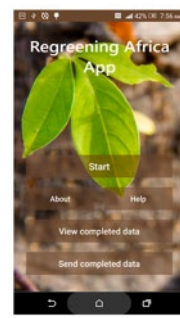
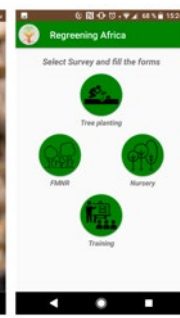


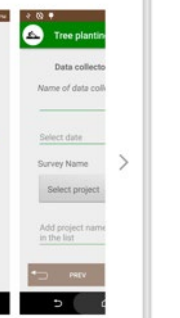
Regreening Africa - Data collection tool

ICRAF Tools

This app is compatible with all of your devices.

Installed



Full description

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.

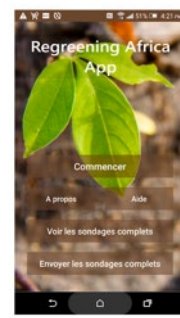


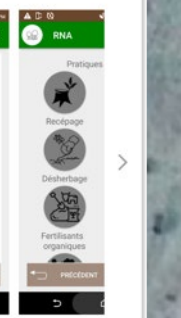
Reverdir l'Afrique – Outil de collecte de données

ICRAF Tools

This app is compatible with all of your devices.

Installed



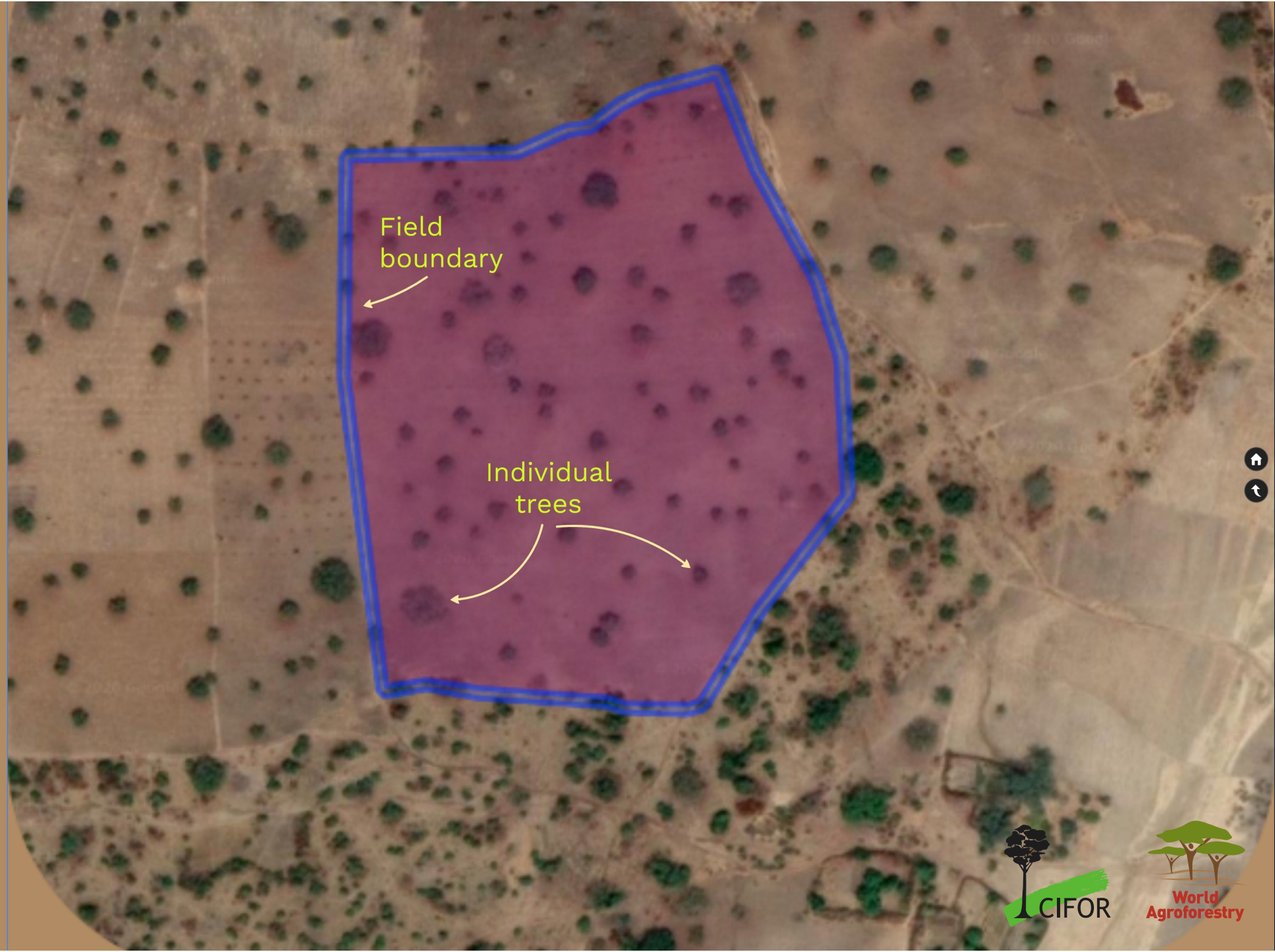



Translate the description into English (United States) using Google Translate?

Translate



- Field boundary delimited
- Number of trees planted
- Date(s) planted
- Species planted
- Location of trees planted
- Survival of trees



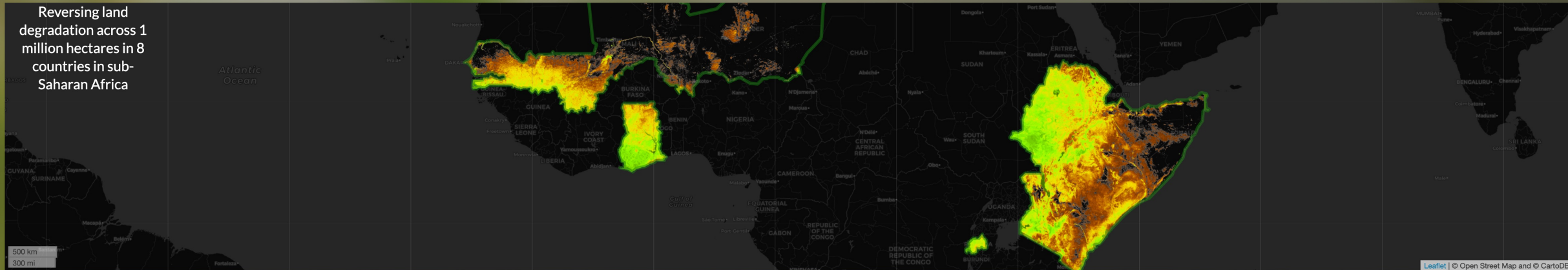
Regreening Africa

[Home](#)[Rwanda](#)[Ghana](#)[Senegal](#)[Kenya](#)[Ethiopia](#)

Welcome to the Regreening Africa Restoration Hub

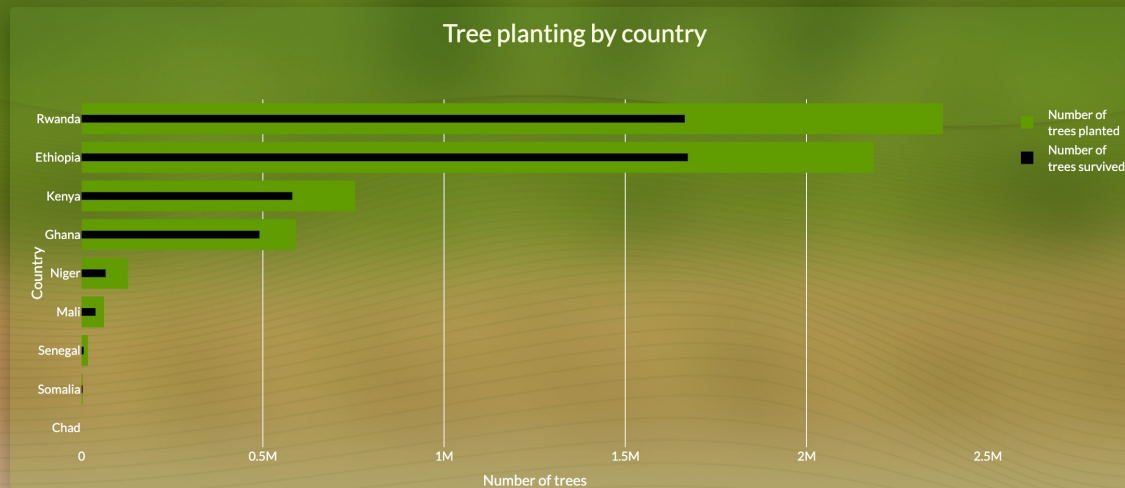
☐ View this page in French? / Afficher cette page en français?

Map of project countries

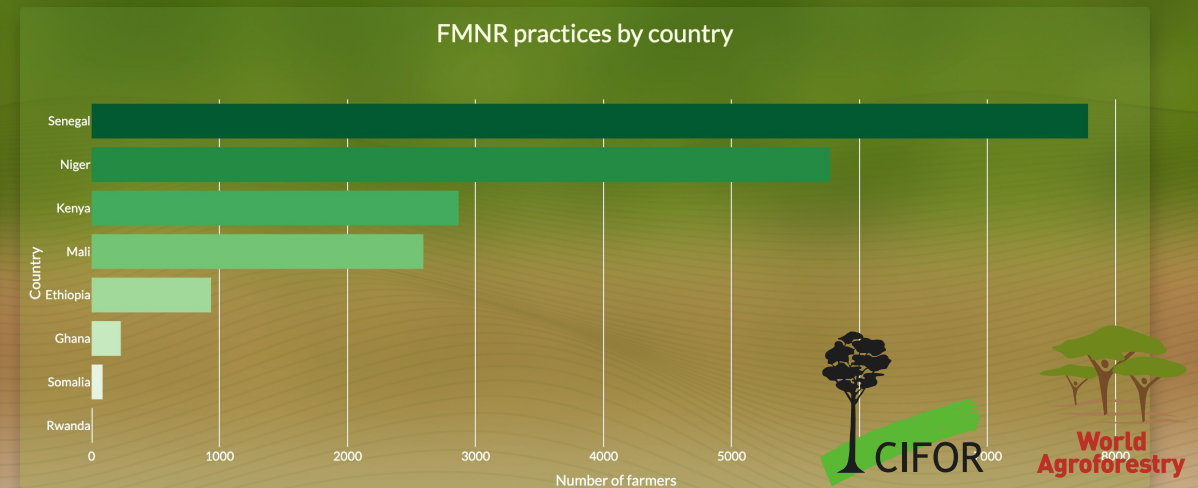


Summary of data collected using the Regreening Africa App across project countries

Tree planting by country



FMNR practices by country





Kenya

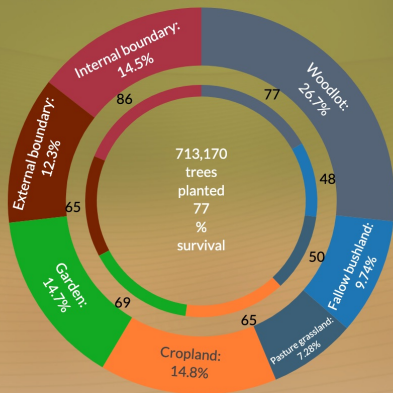


Main map Explore monitoring and evaluation results Explore land health indicators and maps

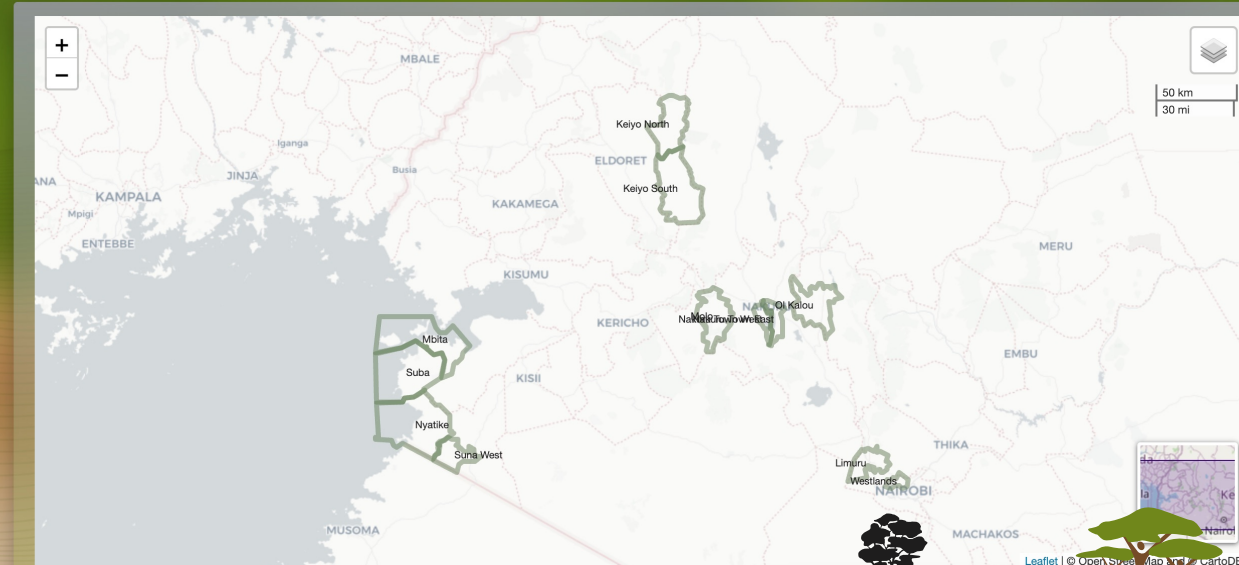
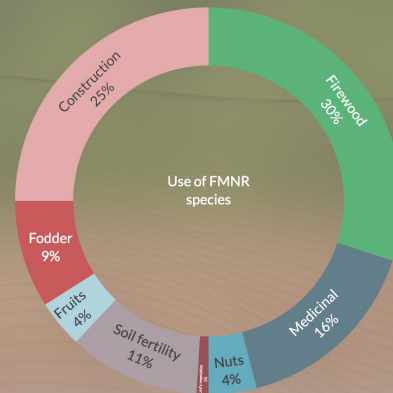
English/Français
English

Tree planting efforts recorded with the Regreening Africa App

Locations of trees planted on farm



Farmer-managed natural regeneration (FMNR)

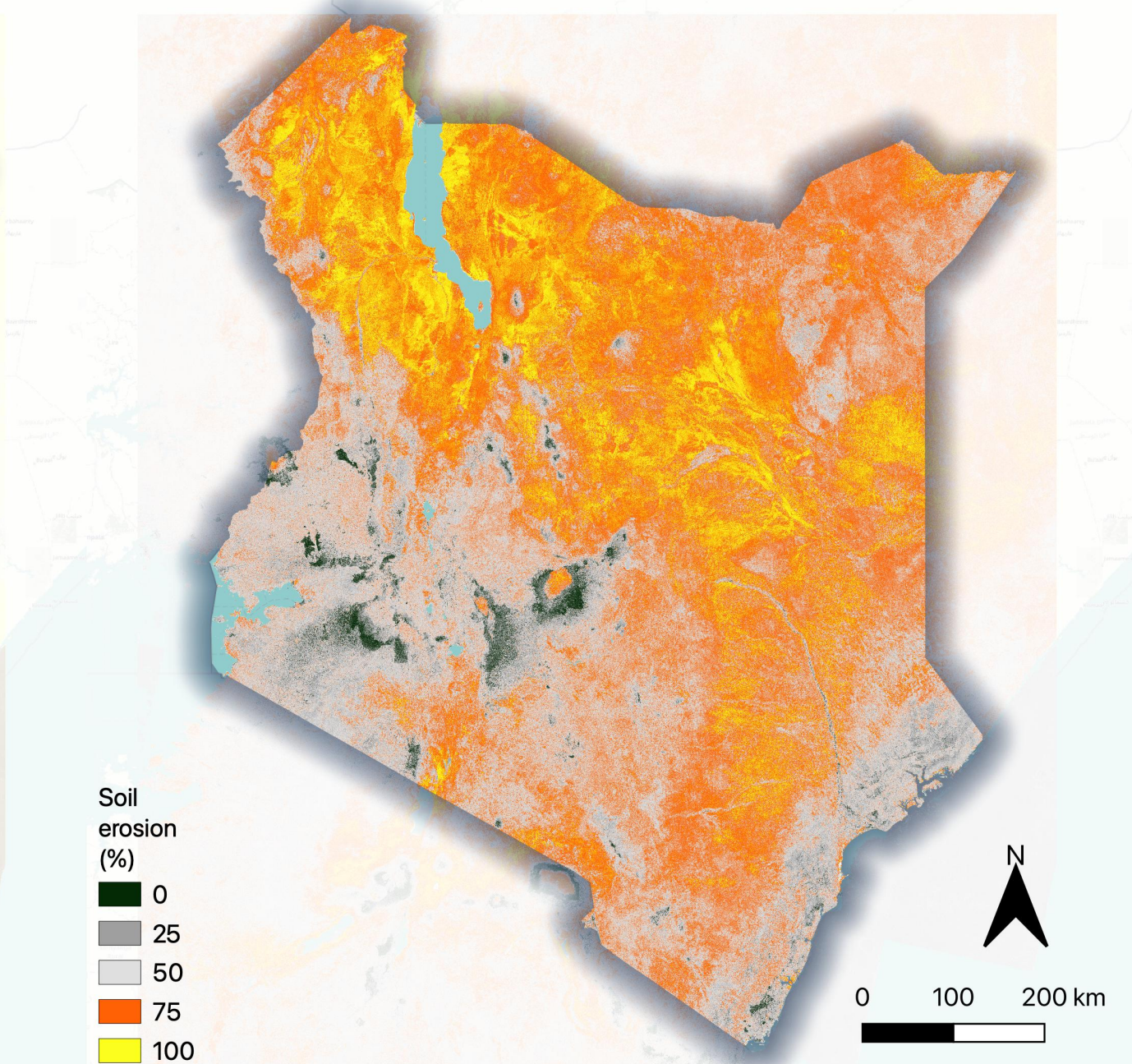
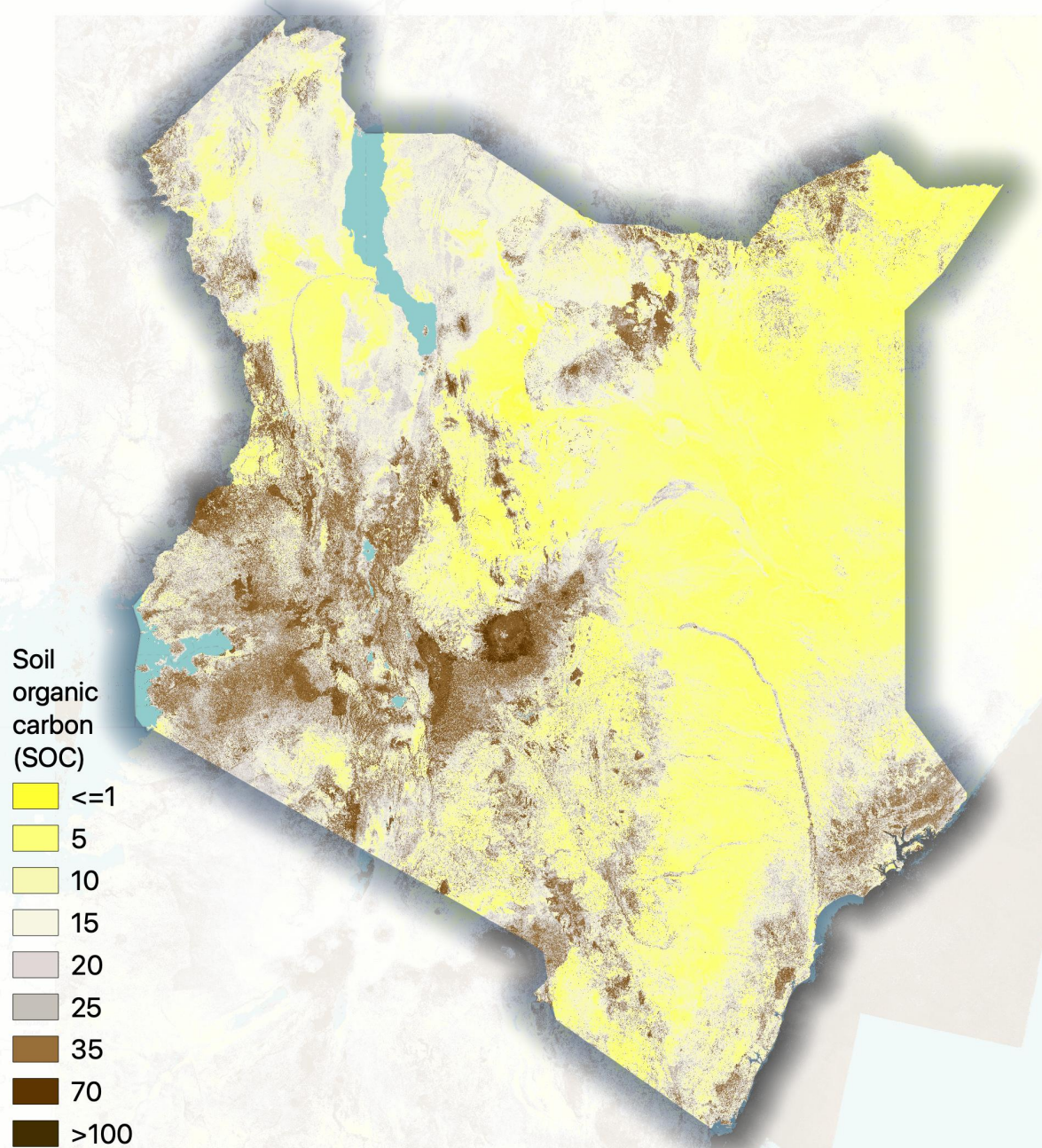


Integrating citizen surveillance and systematic data collection in monitoring of land restoration as part of the Regreening Africa Land Restoration Hub

[illegible]

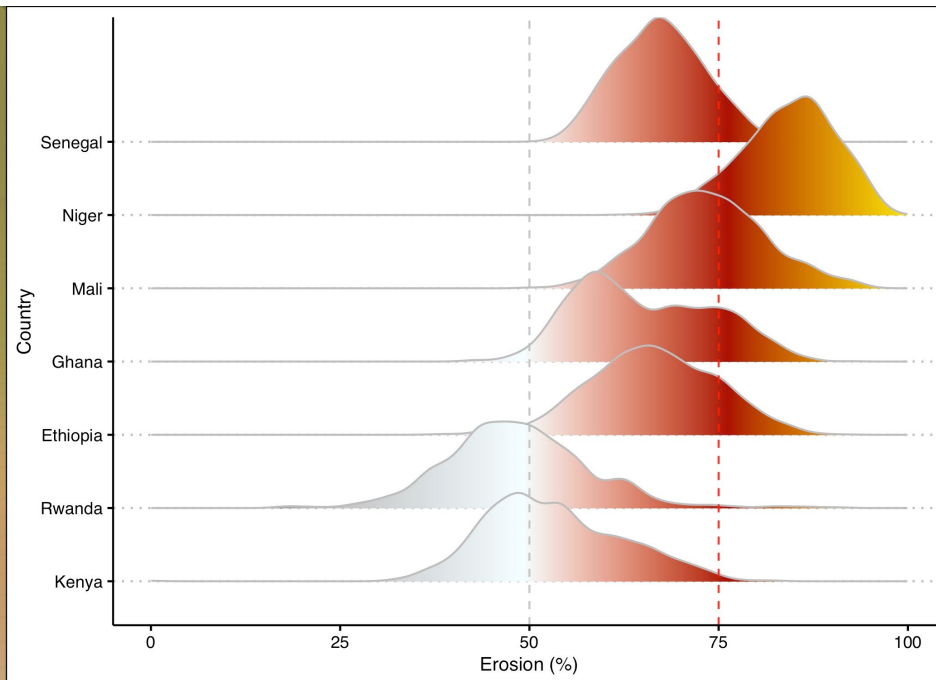
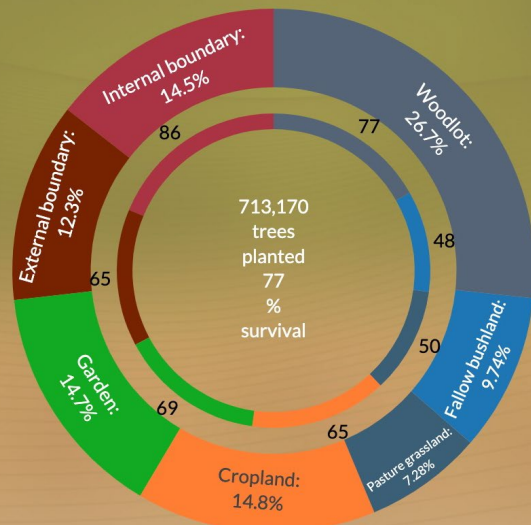
Citizen science data collection using the Regreening App

Mapping soil and land health using LDSF data coupled with earth observation



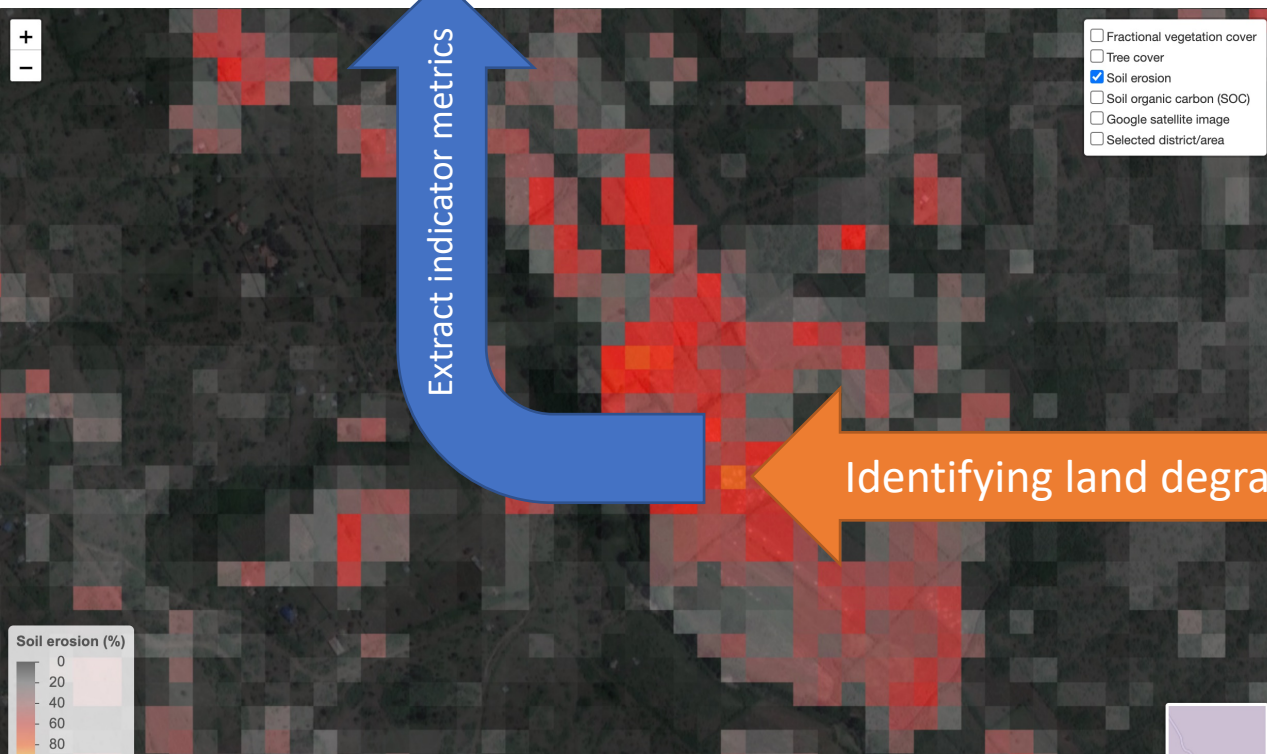
Tree planting efforts recorded with the Regreening Africa App

Locations of trees planted on farm



Integrating citizen surveillance with science-based (structured) data collection and analytics to

- Target restoration interventions
- Assess the effectiveness of restoration interventions across scales



Thank You!

