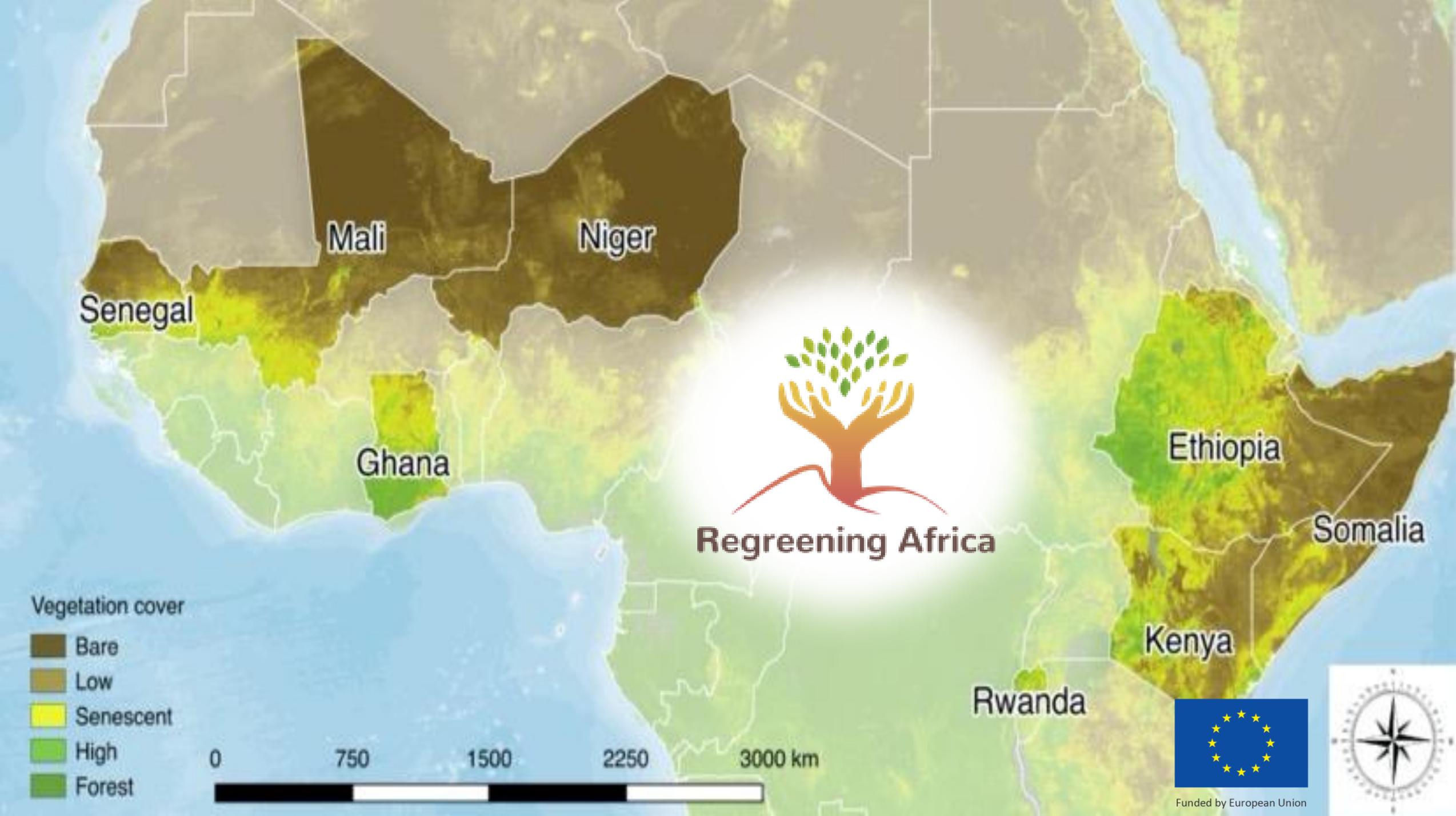


**Regreening Africa's drylands:
Reverdir les zones semi-arides:
Leçons pour la GMV**





Mali

Niger

Senegal

Ghana

Regreening Africa

Ethiopia

Somalia

Kenya

Rwanda

Vegetation cover

- Bare
- Low
- Senescent
- High
- Forest

0 750 1500 2250 3000 km



Funded by European Union



Depuis 2017, poursuite des objectifs de la GMV



Approche: ramener les arbres aux...

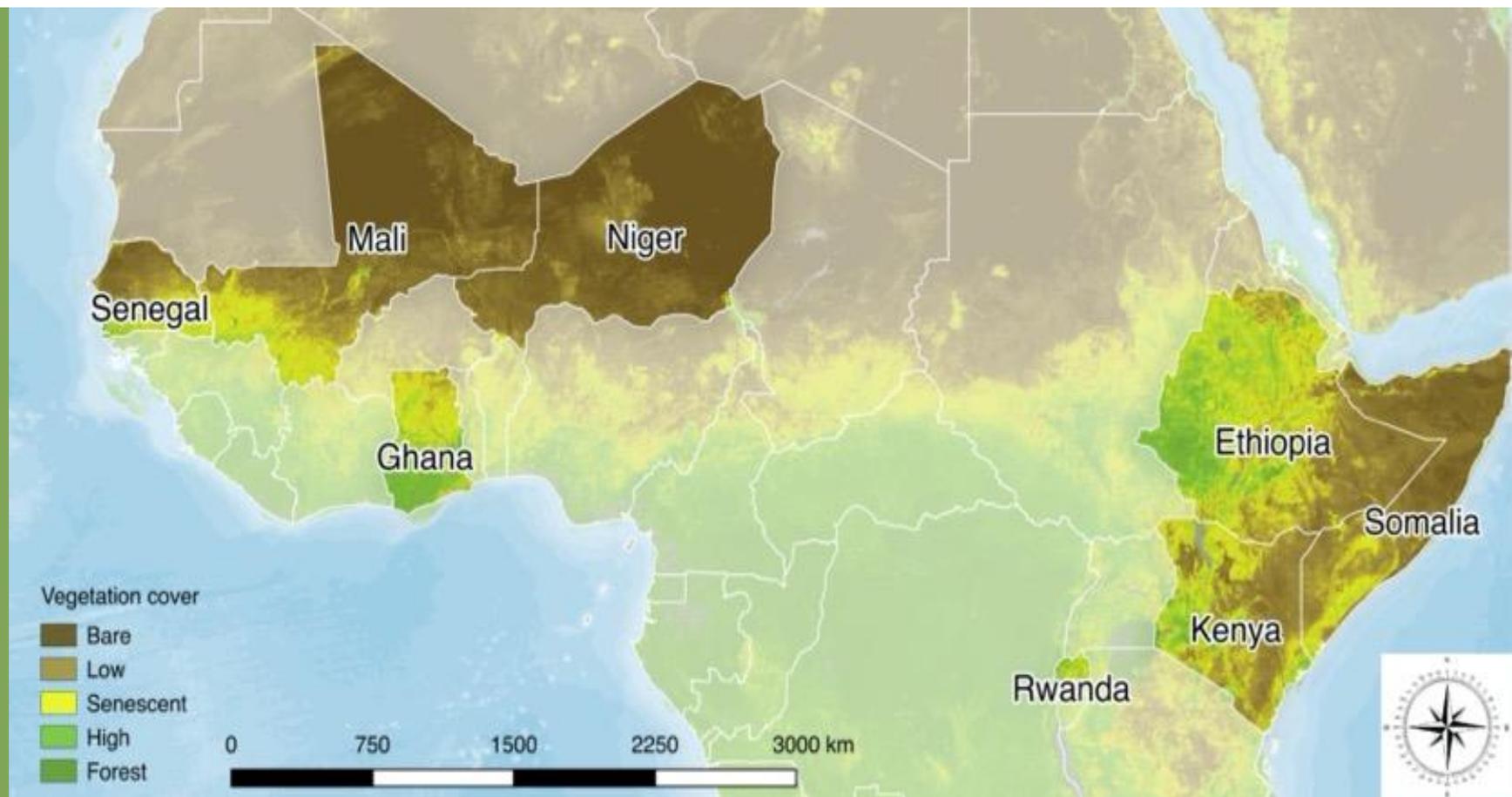
- *champs*
- *Foncier communautaire*
- *Pâturages*

Objectifs:

500,000 familles

1 million d'hectares

8 pays





Funded by European Union



World Vision



Implemented by giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH



Résultats



500,000

401,297

127,073

Familles paysannes: objectifs

Familles paysannes : achevé sept 2021

Familles paysannes : vérifié (sondages) Sept 2021



1,000,000

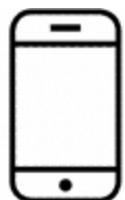
665,924

311,199

Ha: objectifs

Ha: achevé sept 2021

Ha: vérifiés (Land Health Surveillance system) sept 2021



377,810

145,624

Familles paysannes (appli Reverdir l'Afrique, aout 2022)

Ha (appli Reverdir l'Afrique, aout 2022)



Leçons clé

1. La pratique doit être adaptée au contexte



Éthiopie: exclosures +



Sénégal: FMNR+



Niger: cycle hydrique et conservation des sols +



Majorité des pays: pépinières (espèces endogènes favorisées)



Leçons clé

2. Mesurer tout ce qui possible.



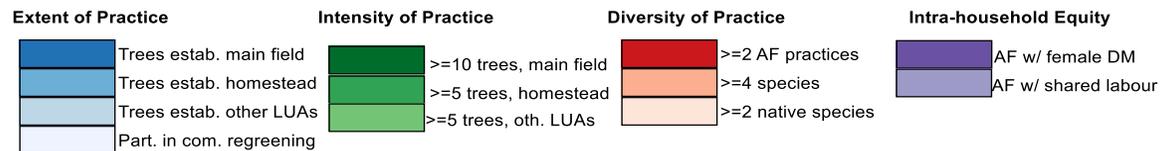
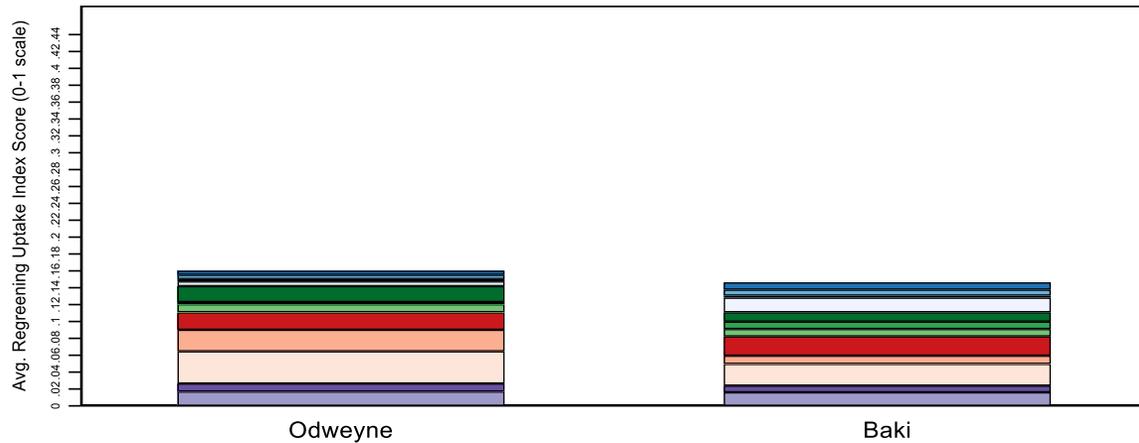
Nous mesurons des dimensions multiples.

Baseline

Somaliland

Today

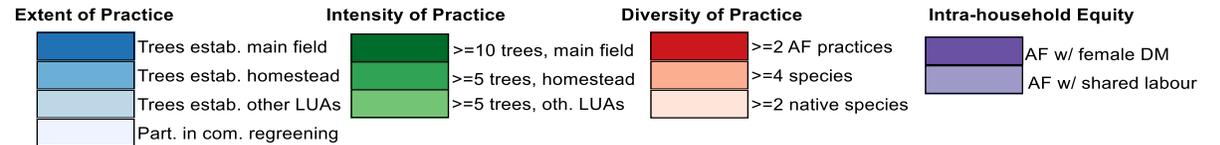
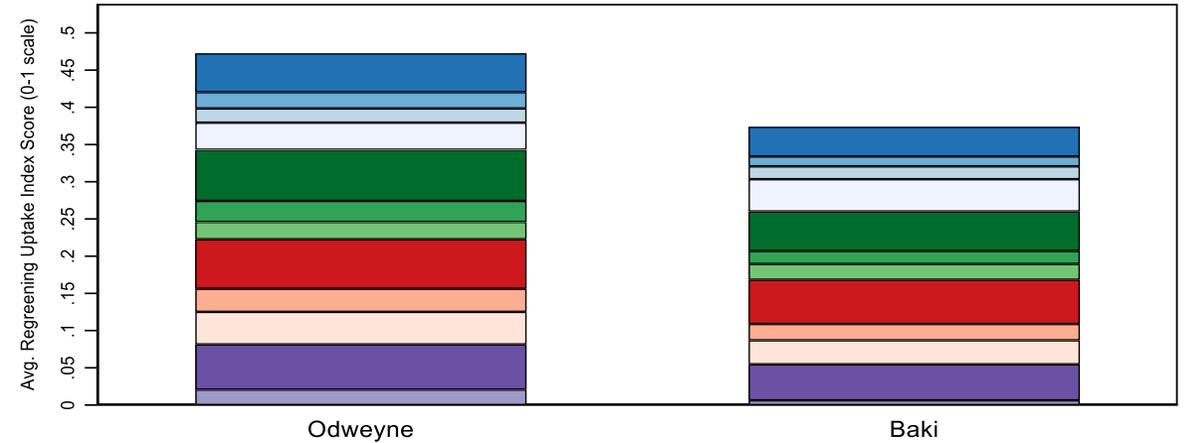
Regreening Uptake Index, with dimension & indicator contribution-Baseline



Each stacked bar indicates the country's average score on the index, as well the weighted contribution of each dimension and indicator. The greater the height of an individual sub-bar, the greater the indicator's contribution to the index. Sampling weights used to account for differences in population sizes among surveyed village clusters.

AF = Agroforestry
DM = Decision Making
LUA = Land Use Area

Regreening Uptake Index, with dimension & indicator contribution-Endline



Each stacked bar indicates the country's average score on the index, as well the weighted contribution of each dimension and indicator. The greater the height of an individual sub-bar, the greater the indicator's contribution to the index. Sampling weights used to account for differences in population sizes among surveyed village clusters.

AF = Agroforestry
DM = Decision Making
LUA = Land Use Area



Science citoyenne



Regreening Africa App



Start

About

Help

View completed data

Send completed data

Citizen science data collection

Used by:

- Implementing partners
- Extension agents
- Lead farmers
- Scientists

Modules:

- Tree planting
- FMNR
- Nurseries
- Training



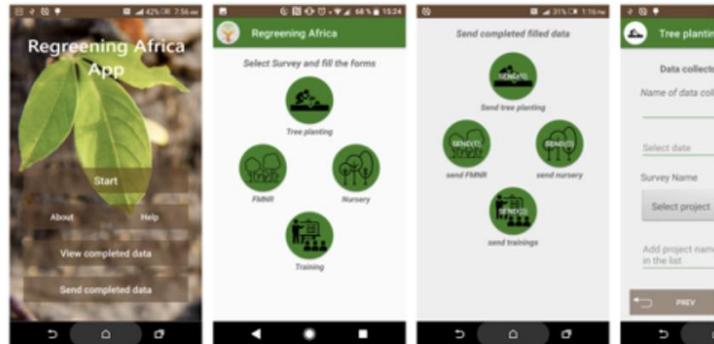
Regreening Africa - Data collection tool

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.



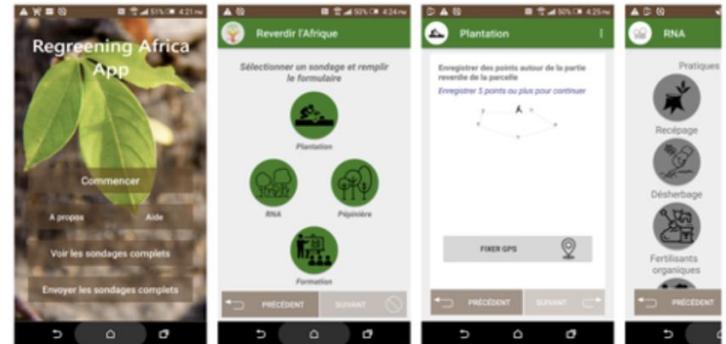
Reverdir l'Afrique – Outil de collecte de données

ICRAF Tools



This app is compatible with all of your devices.

Installed

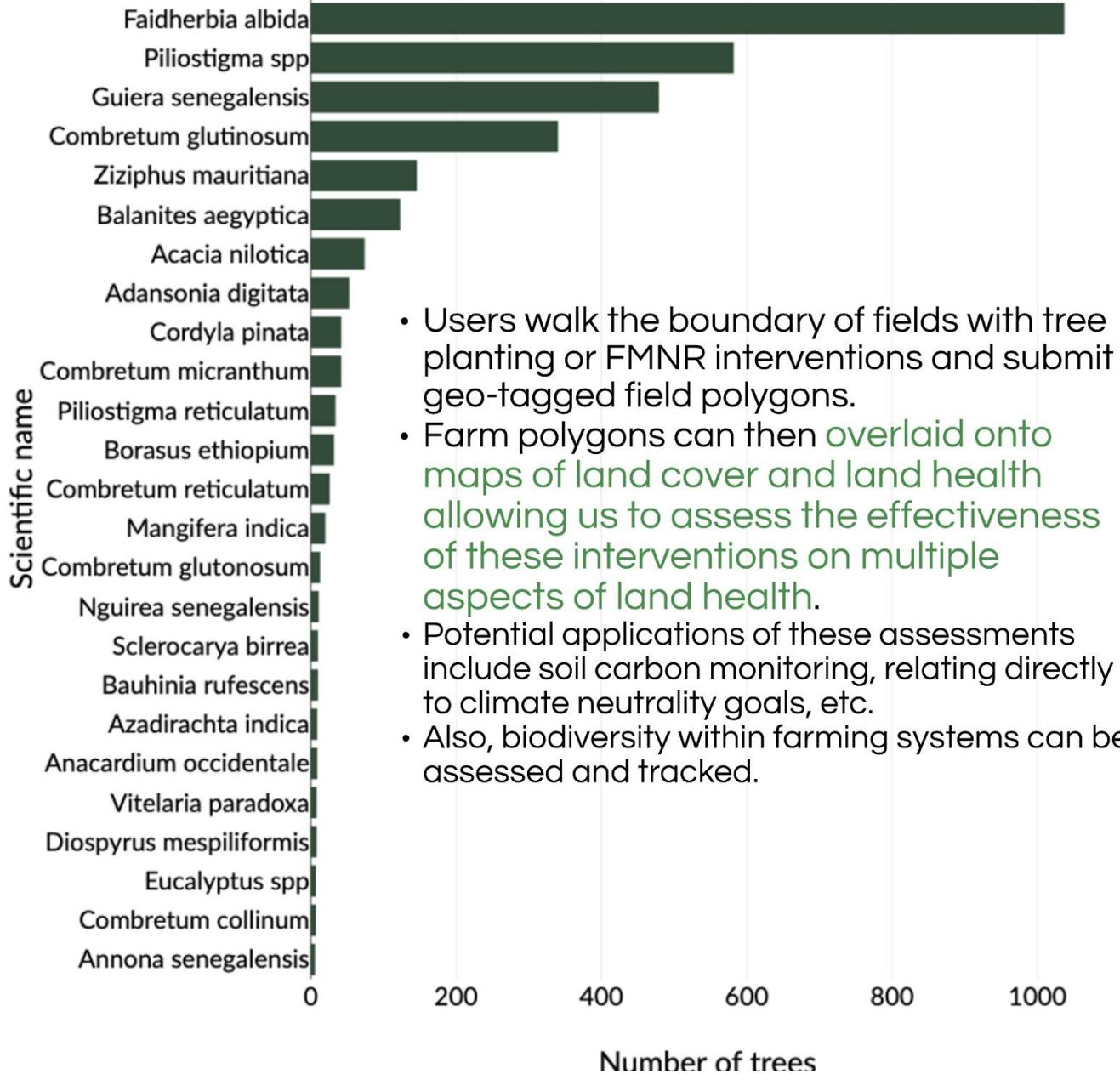


Translate the description into English (United States) using Google Translate?

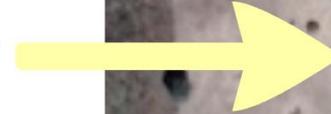
Translate



FMNR - species



- Users walk the boundary of fields with tree planting or FMNR interventions and submit geo-tagged field polygons.
- Farm polygons can then overlaid onto maps of land cover and land health allowing us to assess the effectiveness of these interventions on multiple aspects of land health.
- Potential applications of these assessments include soil carbon monitoring, relating directly to climate neutrality goals, etc.
- Also, biodiversity within farming systems can be assessed and tracked.



Leçons clé

3. Construire sur les acquis





GeoScience Lab

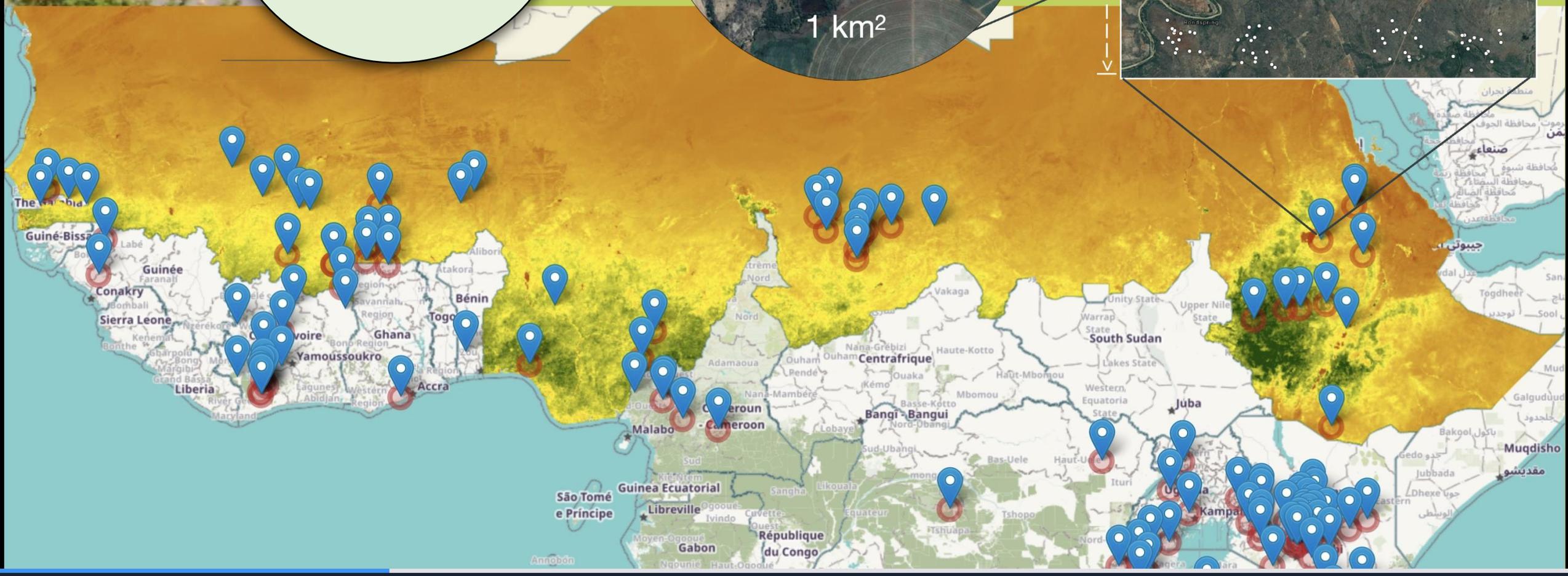
Landscapes Portal

<http://landscapeportal.org>

THE LAND DEGRADATION SURVEILLANCE FRAMEWORK

The Land Degradation Surveillance Framework (or LDSF) is designed to provide a biophysical baseline at landscape level, and a monitoring and evaluation framework for assessing processes of land degradation and the effectiveness of rehabilitation measures (recovery) over time.

**Land Degradation
Surveillance
Framework (LDSF)
Land health data
and at high
accuracy**





LDSF INDICATORS

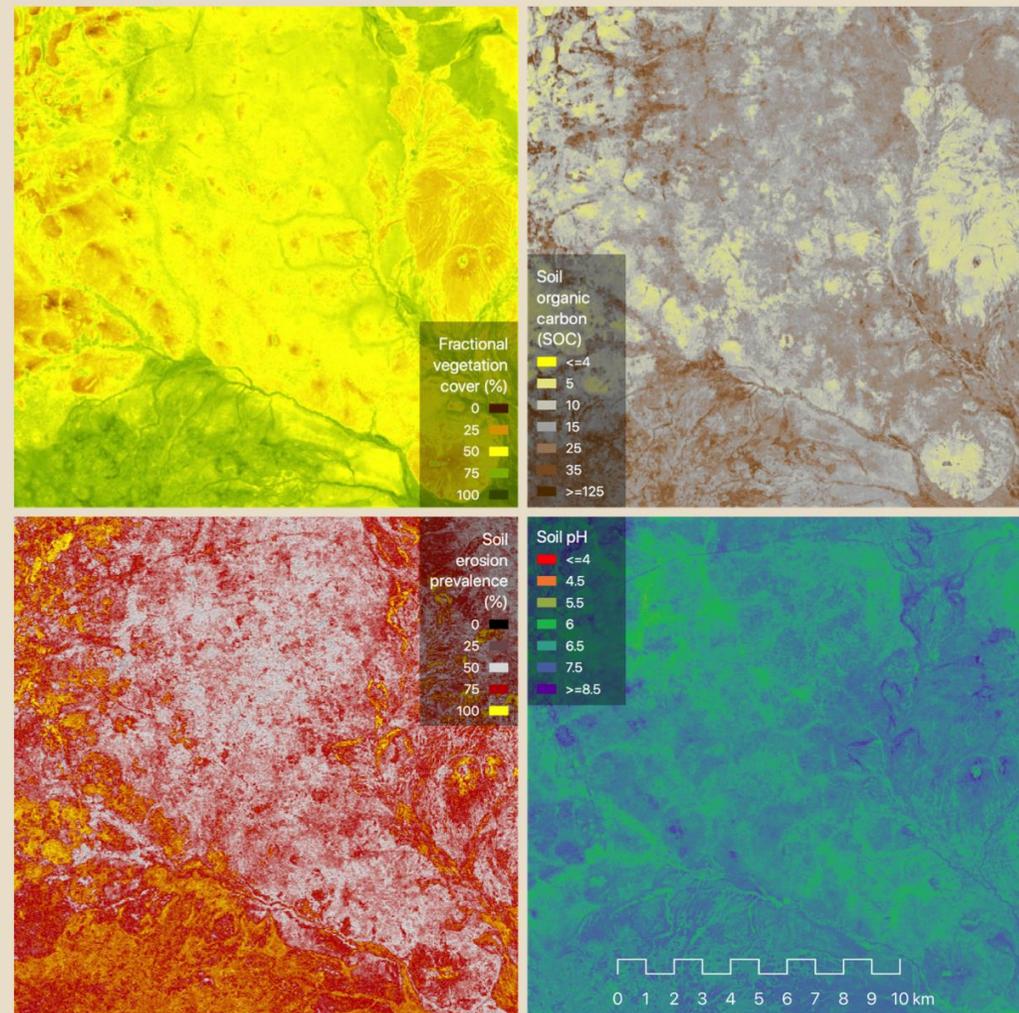
The LDSF measures a wide range of indicators, that serve as a valuable biophysical baseline.



PREDICTIVE MAPS

Data from multiple global sites are used to create predictive mapping outputs at multiple spatial scales, with fine-resolution maps produced at 5 to 10m resolution or lower, high resolution maps at 20 to 30m resolution, and moderate resolution maps at 250 to 500m resolution. This enables you to zoom in to a specific area of your site and assess the possible indicators therein.

The LDSF is part of the Ecosystem Health Surveillance System (EcoHSS) developed by ICRAF. As part of this system, **spatial assessments are produced of land degradation processes, soil functional properties, vegetation cover and biodiversity.**



Leçons clé

4. **Aucun plan ne survit le contact avec la réalité: adaptation constante.**



Map of project countries

Reversing land degradation across 1 million hectares in 8 countries in sub-Saharan Africa

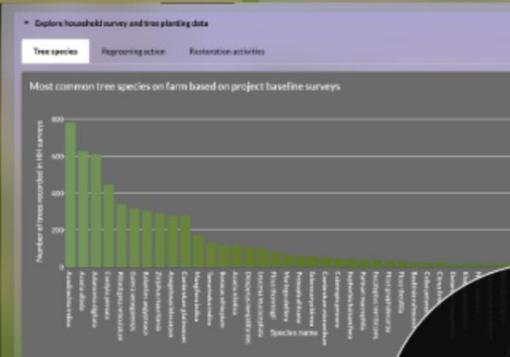
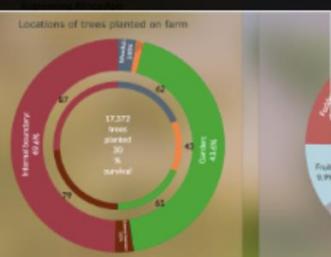
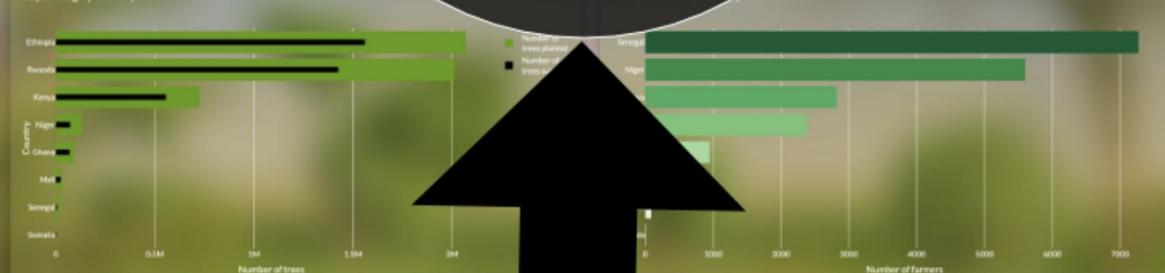
Data-driven overview of **project-level** evidence and lessons learnt



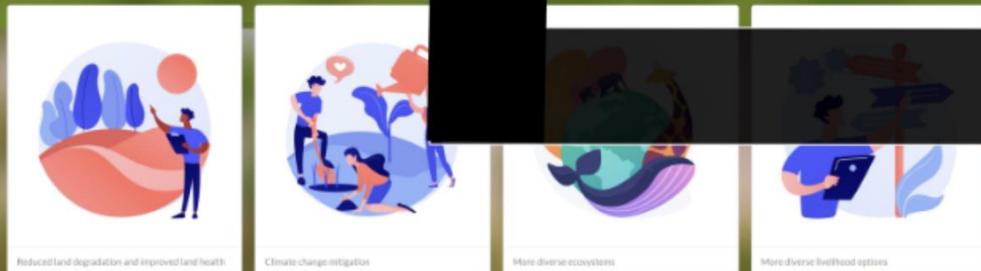
Senegal

Data-driven overview of **country-level** evidence and lessons learnt

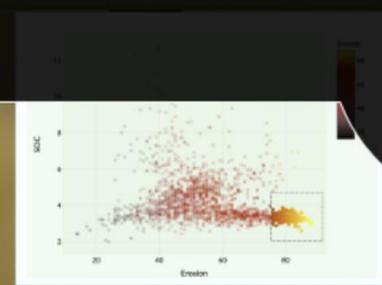
Tree planting by country



Regreening Africa works towards...



With an estimated 2 billion hectares that are in need of land restoration globally, there is a significant global momentum to address this pressing challenge. The return on investing in land restoration makes economic, social and moral sense in light of accelerating loss of biodiversity and smaller agriculture, the effects of climate change and an increasing inequality. The Bonn Challenge, which aims to help



Select variable for X axis: Erosion
Select variable for Y axis: SOC
Select variable for color: Erosion

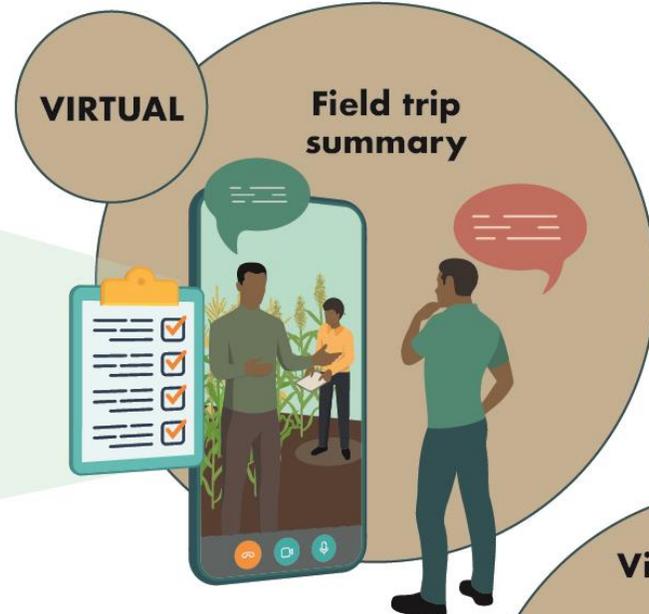
Local, actionable information to monitor progress and inform **future investments/actions**

Gestion adaptative



Part 1

Part 2



 **SHARED** framework



Joint reflective learning missions

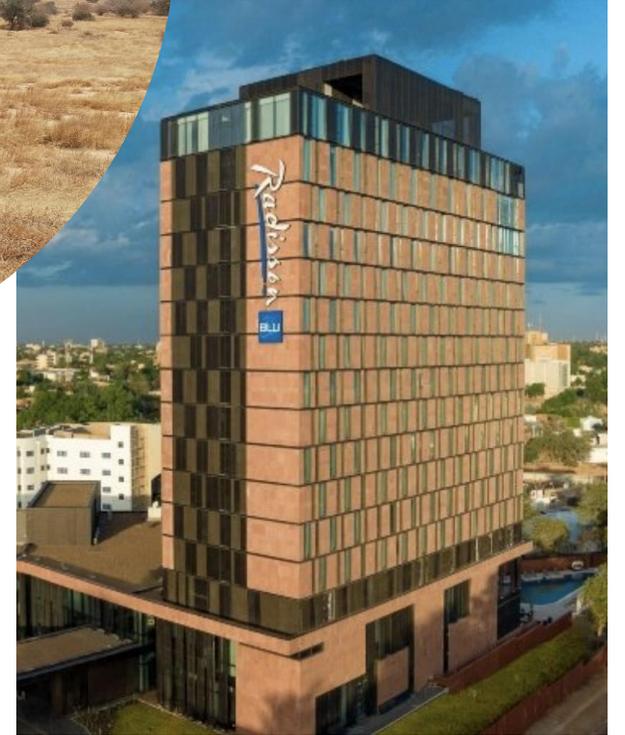




Leçons clé

5. L'argent fait tourner le monde.

Niger: d'aliments honnis... à aliments de luxe



Boscia senegalensis...

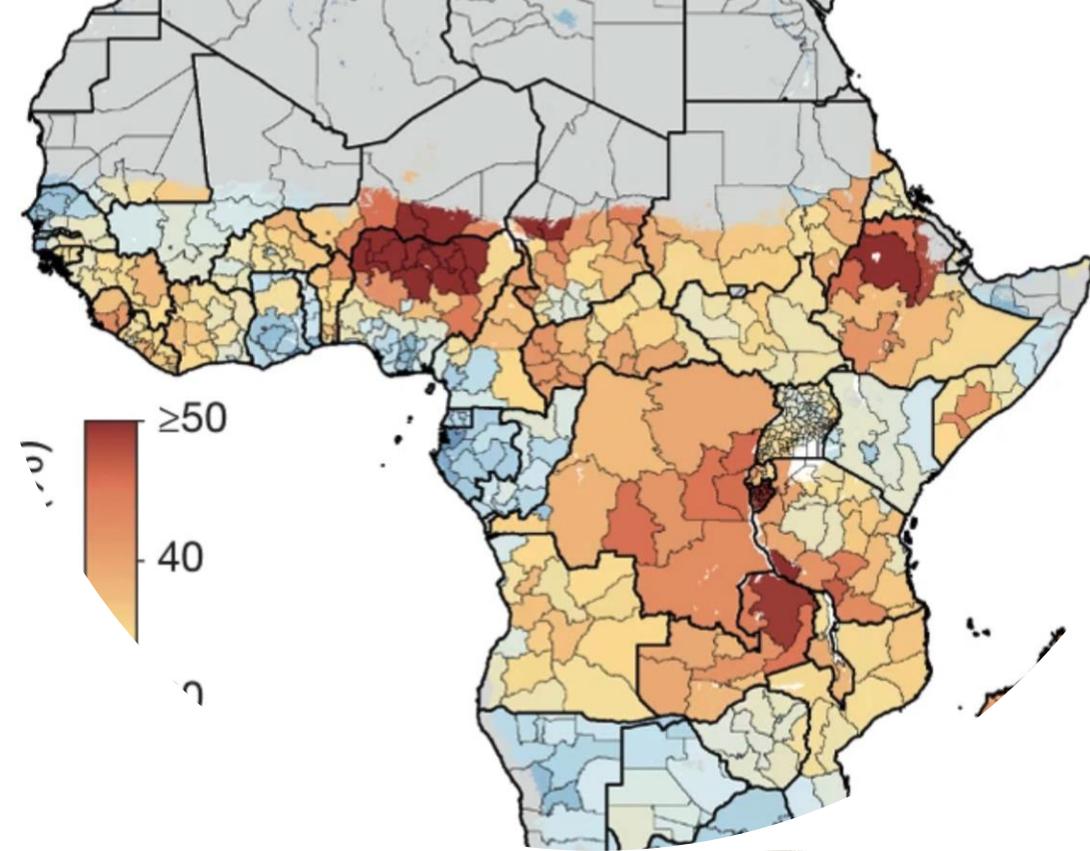
- Regeneration facile
- Bonne production même en sécheresse
- Souvent l'unique source de cash pour les femmes.

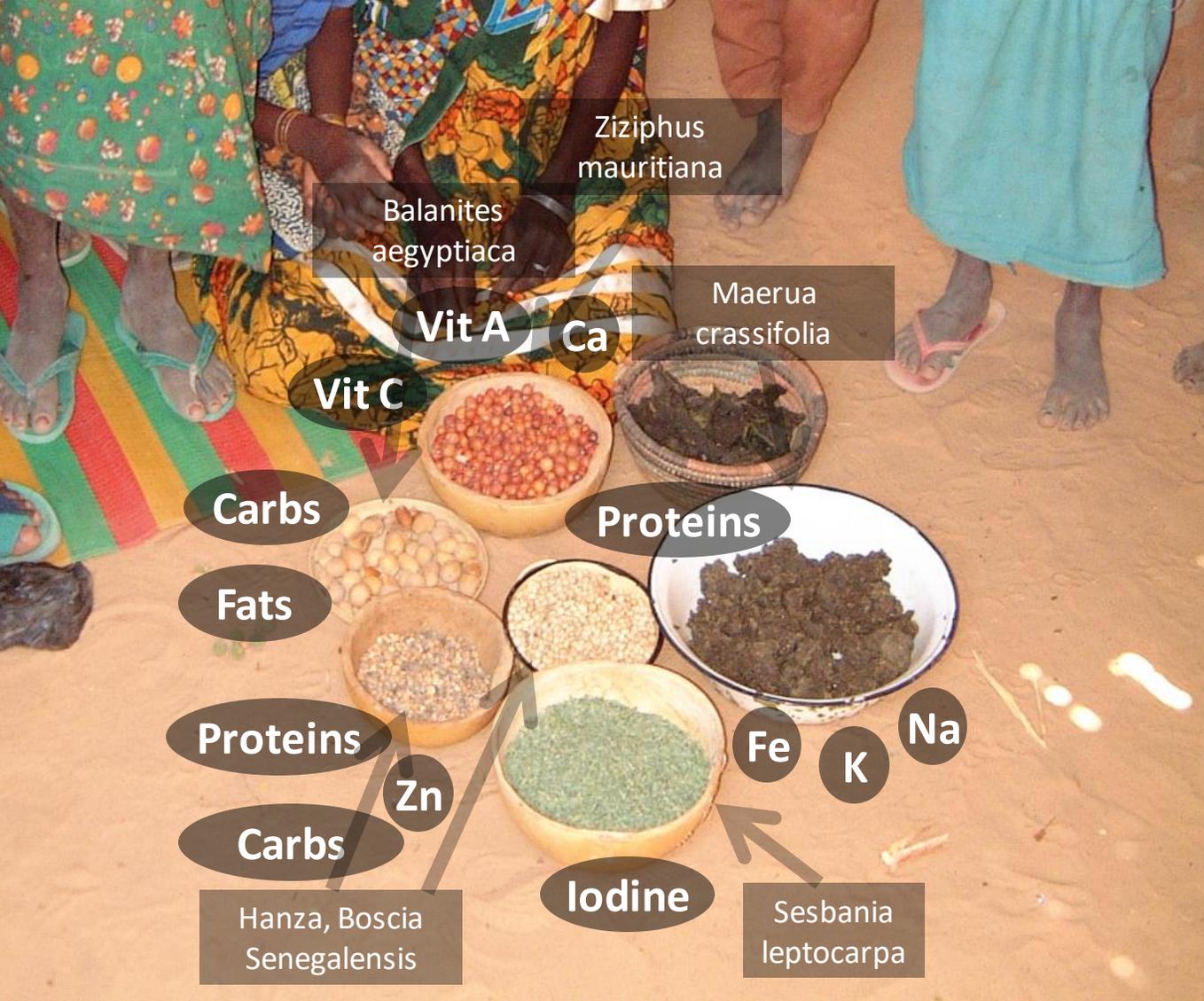
Autres incitants?

Les arbres combattent la malnutrition

Les enfants habitant moins de 3 km d'une forêt ont une plus grande diversité alimentaire

Rasolofoson, R.A., Hanauer, M.M., Pappinen, A., Fisher, B. and Ricketts, T.H., 2018. Impacts of forests on children's diet in rural areas across 27 developing countries. *Science advances*, 4(8), p.eaat2853.





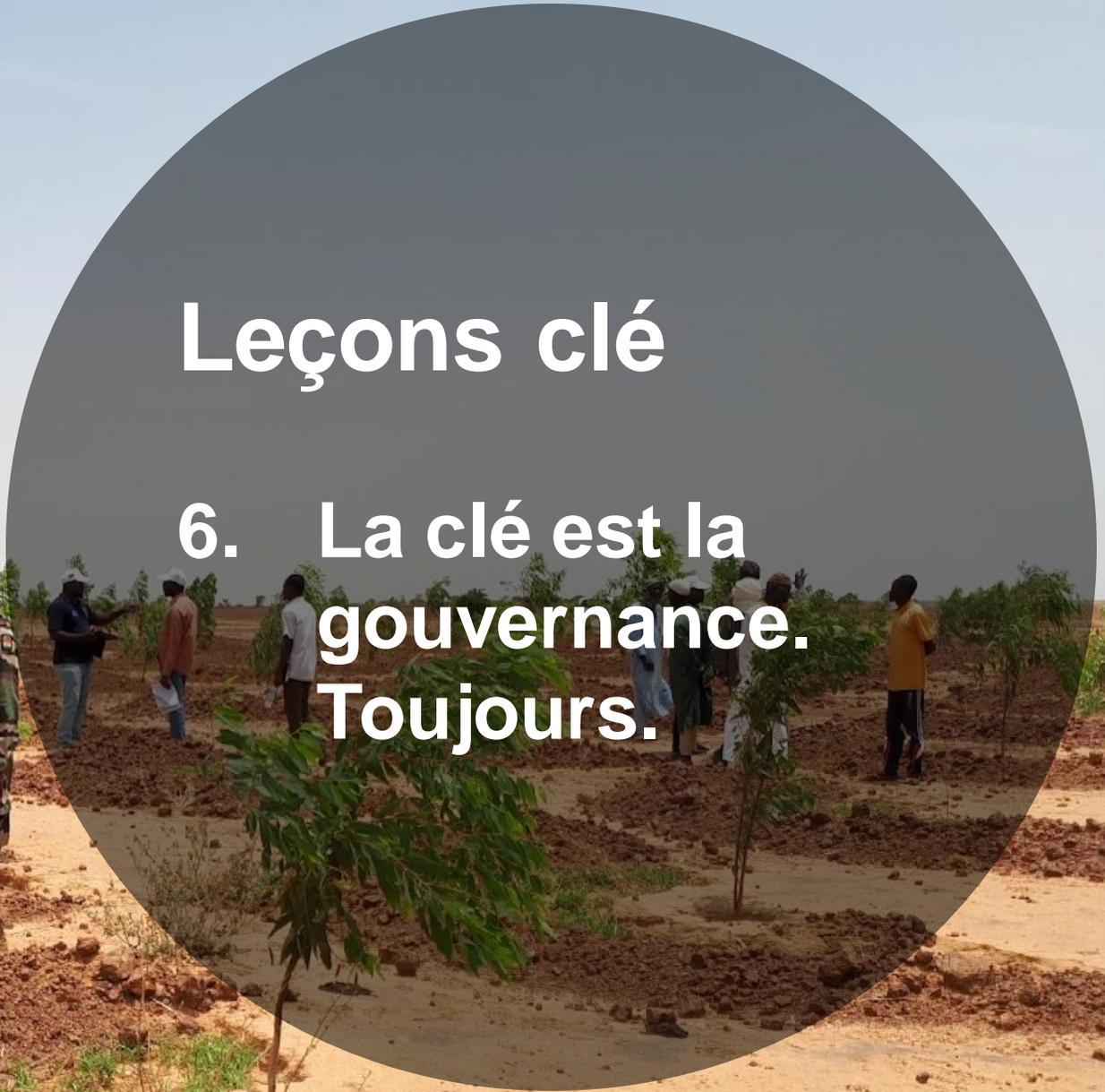
Boscia senegalensis

protéines 20,62 to 24,34 %
 Glucides 45,29 to 49,67 %
 Bonne source de lysine, calcium, potassium et
 magnesium
 Rendement : 1,000 kg / ha
 Rendement années sèches: similaire

Mil

Protéines 9,93 to 11,3%
 Glucides 63 to 75%
 Rendement : 400 kg / ha
 Rendement années sèches : 0

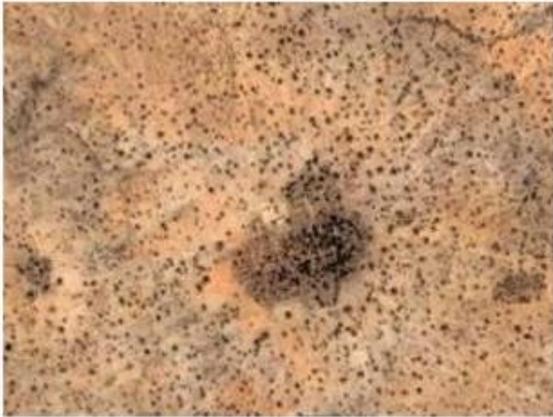
Photo: J. Garvi



Leçons clé

6. La clé est la
gouvernance.
Toujours.





Niger



Nigeria

Transects by Grey Tappan, US Geological Survey



Créer un environnement de collaboration

- Gouvernance locale et communautaire
- Gérer et réduire les barrières réglementaires
- Inclure les femmes et les jeunes
- Partenariats a toutes les échelles
- Poursuite d'objectifs nationaux
- Apprentissages entre les pays
- Créer des mouvements qui incluent tous les partenaires



La suite?

L'initiative MOSAIC pour la GMV



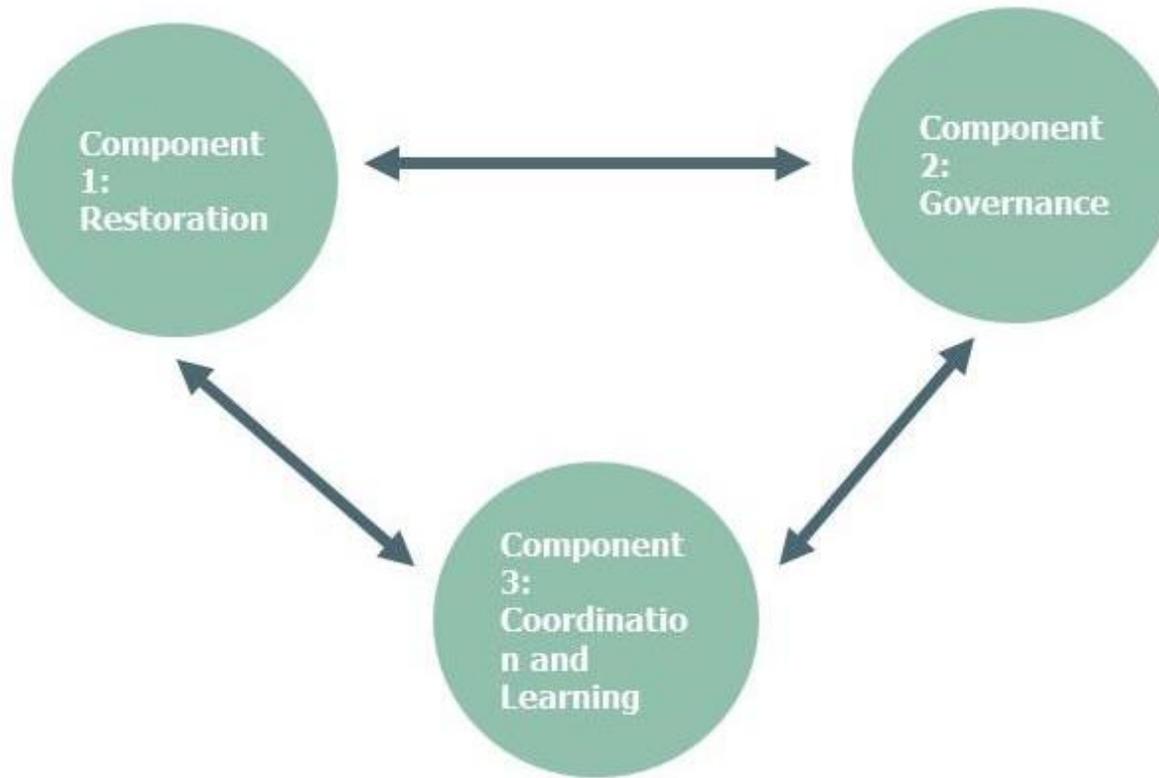


En s'appuyant sur les **efforts de décentralisation**, les **gouvernements** peuvent déclarer des **zones de régénération**, où les **parties prenantes** (y compris les communautés, les entreprises locales et les ONG, les donateurs et les agences gouvernementales) **collaborent pour régénérer les paysages à grande échelle en *responsabilisant les communautés locales***.

Autonomiser et soutenir les petits exploitants

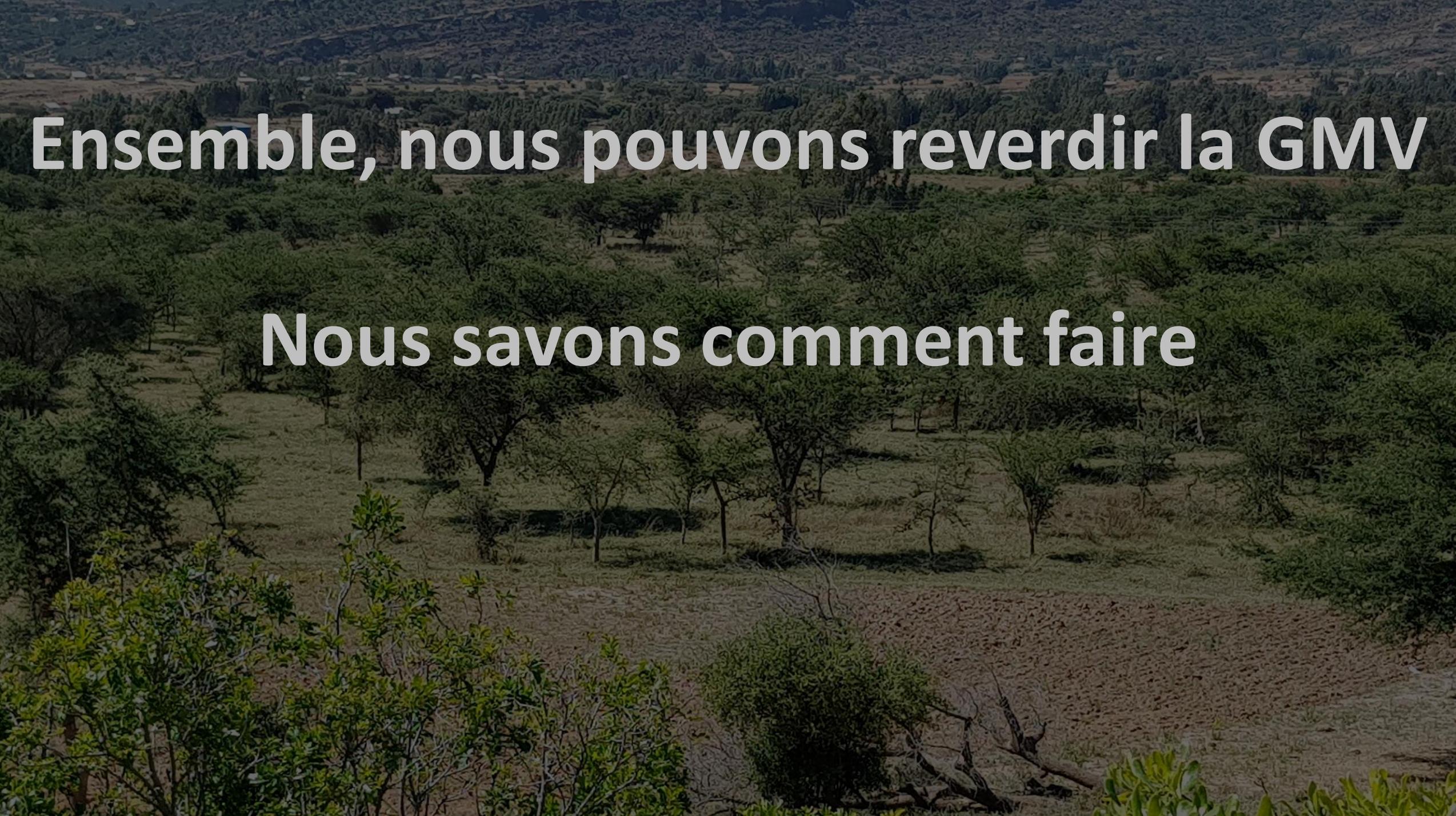


Equip and support CSOs to undertake 3m hectares of land restoration, develop value chains and build climate resilience in their local communities



Engage government to identify, develop and empower through pioneering Special Regeneration Zones, as the focus areas for CSO work and governance engagement

Coordination, monitoring, learning, reflection and adaptation within and across Special Regeneration Zones and countries.

An aerial photograph of a savanna landscape. The foreground and middle ground are filled with numerous small, green trees and shrubs scattered across a dry, brownish-yellow ground. In the background, a deep valley is visible, with a dense line of trees and some small structures. The overall scene is a natural, open landscape.

Ensemble, nous pouvons reverdir la GMV

Nous savons comment faire



Thank you

cifor.org | worldagroforestry.org | foreststreesagroforestry.org | globallandscapesforum.org | resilient-landscapes.org

The Center for International Forestry Research (CIFOR) and World Agroforestry (ICRAF) envision a more equitable world where forestry and landscapes enhance the environment and well-being for all. CIFOR–ICRAF are CGIAR Research Centers.



RESEARCH
PROGRAM ON
Forests, Trees and
Agroforestry



Global
Landscapes
Forum



Resilient
Landscapes