



Food and Agriculture  
Organization of the  
United Nations



# Implementing forest and landscape restoration at scale

Tiina Vähänen  
Forestry Department, FAO  
11 December 2019, COP25





# United Nations Decade on Ecosystem Restoration

---

2021-2030



Food and Agriculture  
Organization of the  
United Nations



United Nations  
Environment Programme



# The need for action

## Land Degradation:

Negatively affecting well-being of **3.2 billion people**

Loss of biodiversity and ecosystem services = **10% of global GDP**



**Forests:**  
**70 M ha lost**  
**since 2000**



**Wetlands:**  
**70% lost in**  
**last century**



**Drastic decline**  
**of coral reefs and**  
**seagrass beds**

# Technology and innovation for restoration monitoring

## Open Foris

Free and open source tools for data collection, analysis and reporting

- 20,000 installations
- used in 60+ countries
- collaboration with countries



Collect



Collect  
Mobile



Collect  
Earth



Calc



SEPAL



## SEPAL

Cloud-based platform for autonomous land monitoring

- 4,000+ users in 225 organizations in 85 countries

Financial support provided by



# Restoration monitoring - in practice

- Support to assess global restoration potential and pilot enhancement monitoring in 4 countries (2018-2021)
  - Cambodia, Myanmar, Kenya and Uganda
- Transfer capacity and knowledge to more **effectively identify areas for restoration** to maximize carbon and socio-economic benefits
- **Restoration assessment and monitoring tools** to be available on SEPAL – in collaboration with ETH Zurich and Wageningen University



JAPAN



Food and Agriculture Organization  
of the United Nations





# Global tree restoration potential

B

Extra 900 Mha canopy cover  
= 205 ( $\pm 68$ ) GtC

Tree Cover (%)

100

0



## The Forest and Landscape Restoration Mechanism (FLRM)

- Established at COFO 2014
- Goal to support countries in planning and implementation of FLR as a contribution to **Bonn Challenge** and **CBD Aichi Biodiversity Targets**
- An integrated approach, implemented in collaboration with GPFLR partners



THE GLOBAL  
PARTNERSHIP  
ON FOREST AND  
LANDSCAPE  
RESTORATION





Food and Agriculture  
Organization of the  
United Nations

**FLRM**  
Forest and Landscape Restoration Mechanism

## *National support*

Support countries to plan, implement and monitor FLR action plans or strategies

## *Regional support*

Support existing regional Initiatives on FLR (AFR100, 20x20 in Latin America, Mediterranean, Asia-Pacific initiative)

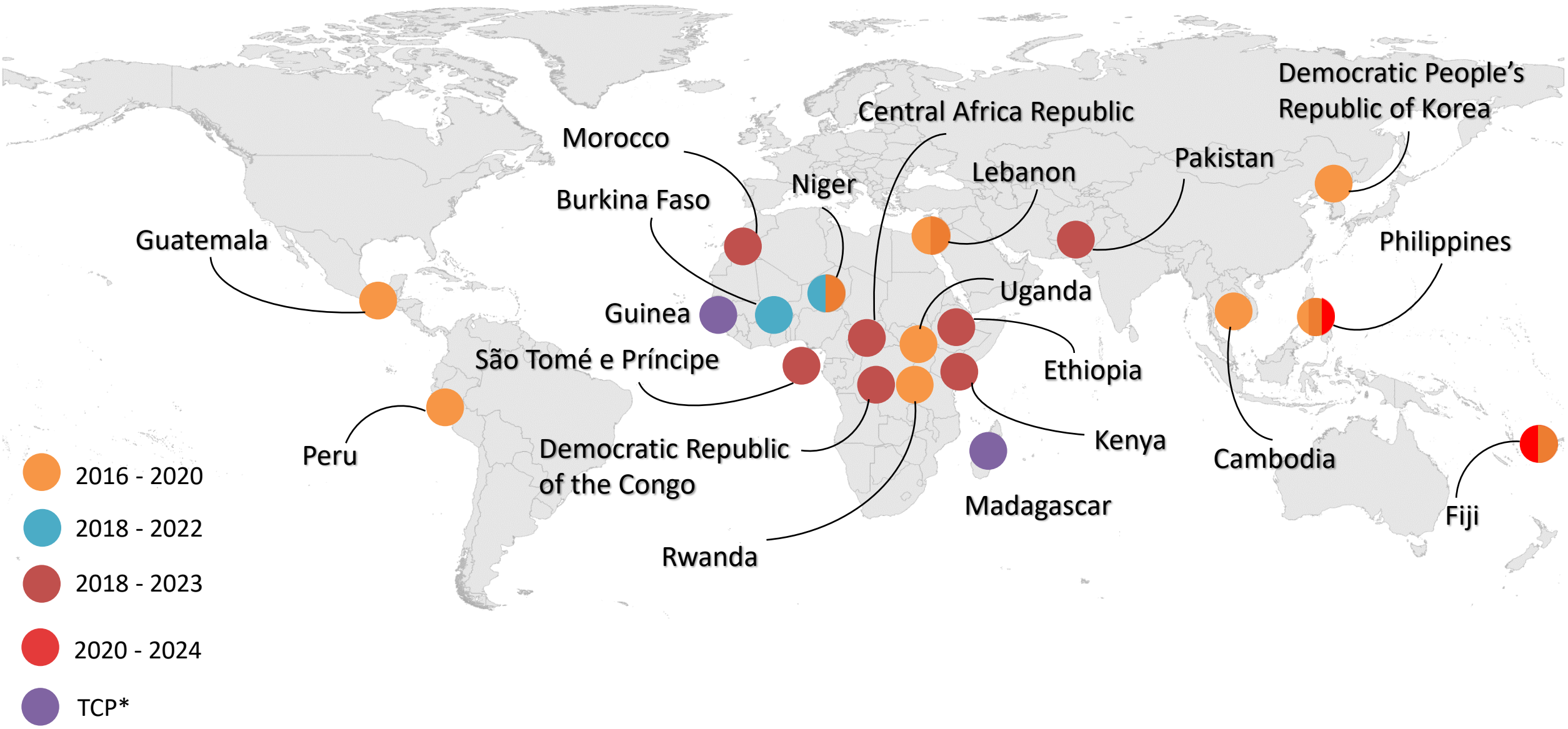
## *Global support*

Development and implementation of FLR efforts through knowledge management, communication and outreach





# FLRM Beneficiary Countries



\* Technical Cooperation Programme (TCP): Each TCP project has a maximum budget of USD 500 000 and a maximum duration of 24 months

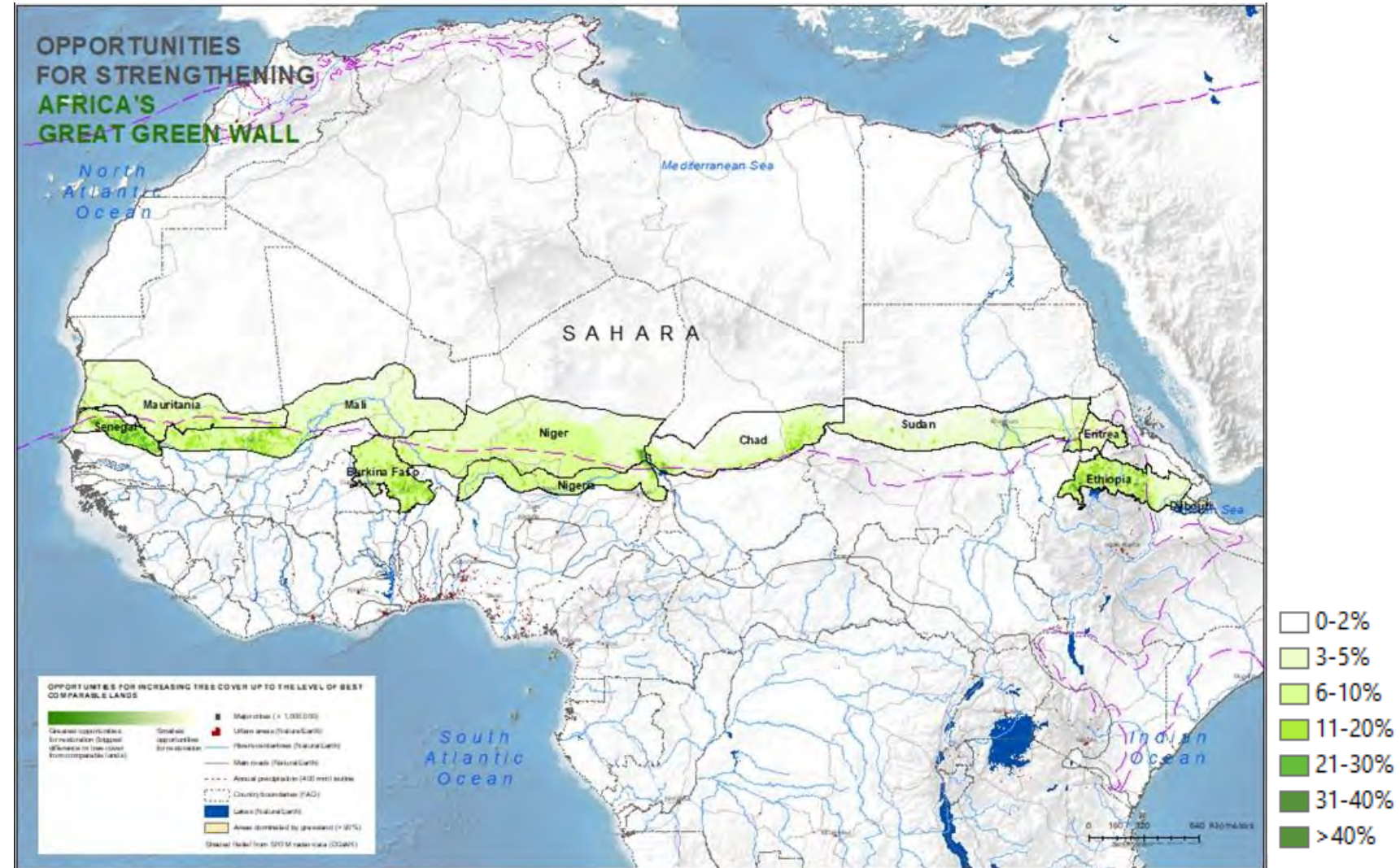


# Action Against Desertification

## - supporting Africa's Great Green Wall

Tree cover gap from  
“optimum”

= 166 million ha of  
restoration opportunities in  
GWW core area





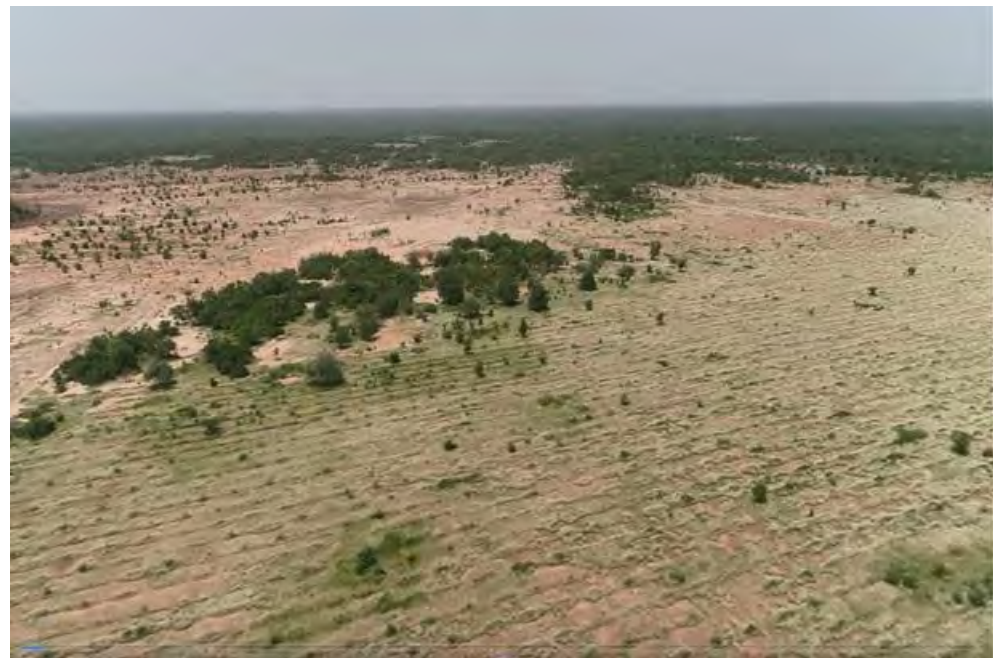


# Transformative Investment in Larger Scale Restoration

AAD achieved over 50, 000 ha of degraded lands planted for restoration in 4



**Initial land preparation, Burkina Faso**



**2-year result of restoration, Burkina Faso**

# FAO Work on REDD+

From Readiness, to Implementation, to Results

- Assist countries in identifying **drivers** of deforestation and degradation and **implementing REDD+ actions** -- in a wider context of sustainable development
- Help countries develop and operationalize their **National Forest Monitoring System (NFMS)** and build their forest reference levels, measure and monitor results of REDD+ actions



UN-REDD  
PROGRAMME



Food and Agriculture  
Organization of the  
United Nations

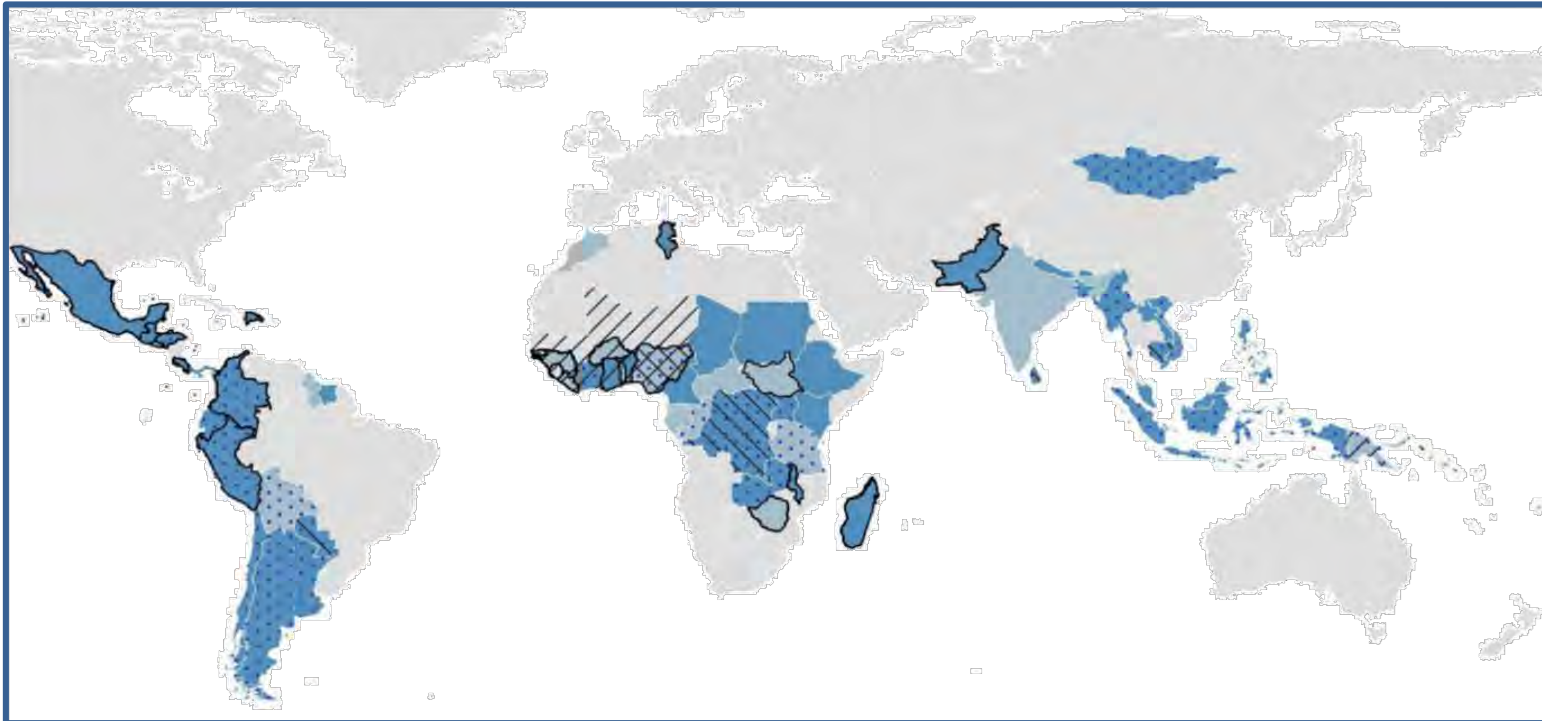


UN  
environment



# Where we work

- Around 70 countries (64 UN-REDD member countries and other REDD+ initiatives)
- Global, regional and national programmes
- South-south Cooperation





# Way forward

- Nature based solutions are key
  - Help mitigation, adaptation and resilience, conserve and restore ecosystems
  - Ensure nature contributes to resilient livelihoods, green job generation and rural poverty reduction
- **UN Decade of Ecosystem Restoration 2021-2030** as a timely vehicle



**Mass movement for action and knowledge sharing**







Food and Agriculture  
Organization of the  
United Nations

**Thank you**

---

