**Up- and Out-scaling Sustainable Land Management and Achieving Land Degradation Neutrality** 

WOCAT Symposium, Addis Ababa 13 May 2019

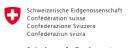
# Introduction

- Welcome and thanks
- WOCAT in short
- 3 major topics

## Hanspeter Liniger **Director WOCAT CDE** Bern Switzerland









CENTRE FOR DEVELOPMEN



nited Nation











# WOCAT in Short (World Overview of Conservation Approaches and Technologies)

Global network: since 1992

- Secretariat CDE
- 8 Consortium partners
- Institutional and individual membership
- > SLM specialists, decision makers implementers

biennial international network meeting: → last Cali Colombia June 2017 (CIAT)









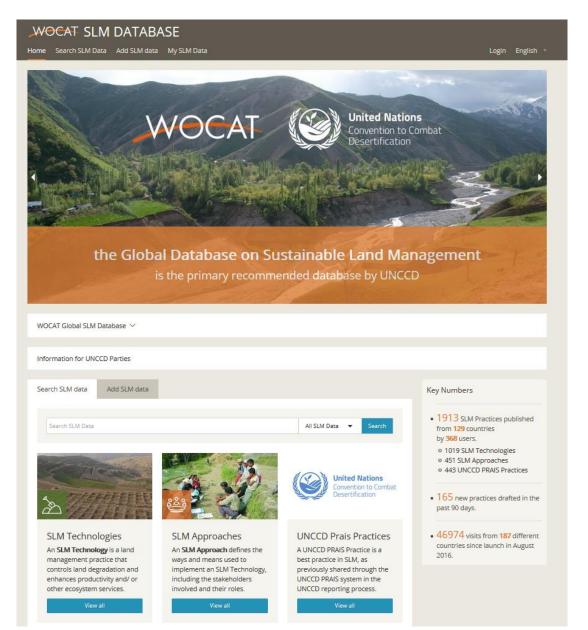
# WOCAT's mission / assets to support countries, SLM projects and programmes

maintain global, open **SLM network** harmonize and provide open access further develop global SLM data tools and methods repository with partners

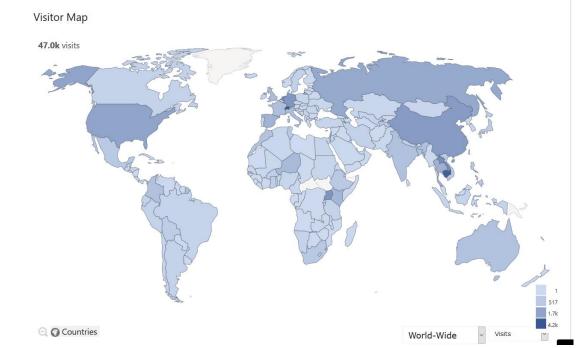
> **build capacities** at local, regional and national level

Linking: local-national-global

#### **Global WOCAT SLM Database** (field experiences)

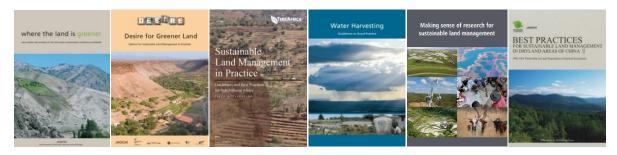






# Solid & easily accessible WOCAT knowledge products

WOCAT and its partners have produced national, regional and global **books, fact sheets, pamphlets, policy briefs...** 





#### ... SLM videos: a voice to land users.



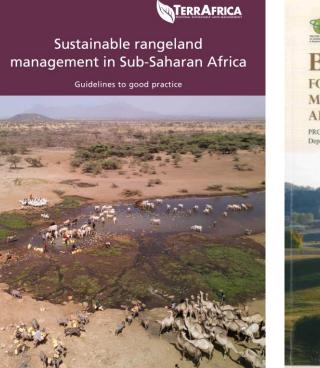


#### www.wocat.net

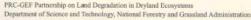


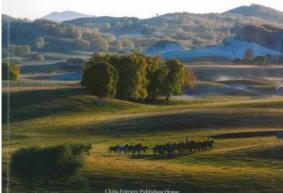


#### ... lots of other national and regional ... CATs



#### BEST PRACTICES FOR SUSTAINABLE LAND MANAGEMENT IN DRYLAND AREAS OF CHINA III PRC-GEF Partnership og Lænd Degradation in Dryland Ecosystems





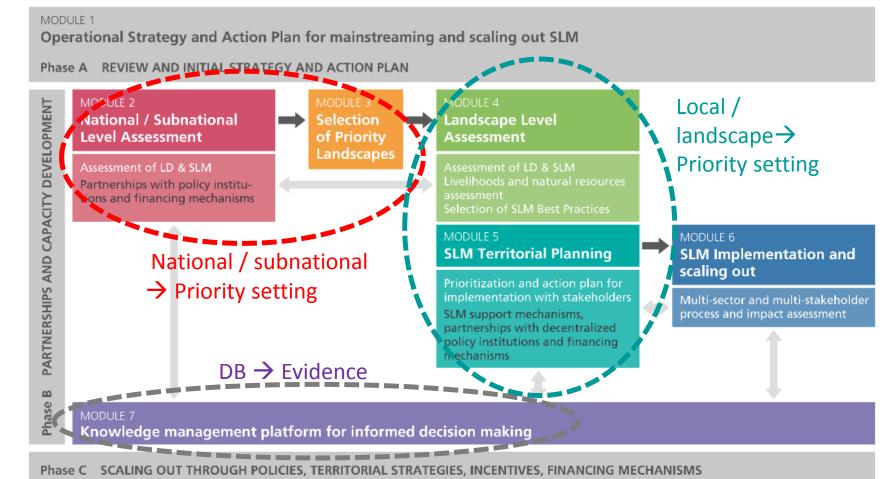


Food and Agriculture Organization of the

nited Nation

## Using knowledge for evidence-based decision making

**Decision Support Framework** for SLM mainstreaming and scaling out

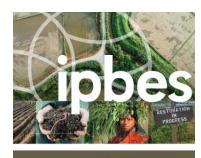


 Several presentations will refer to this

s. DS-SLM presentations

# WOCAT's global position

- WOCAT's **SLM definitions and tools** are globally used
- WOCAT Global, regional and national **SLM Database**



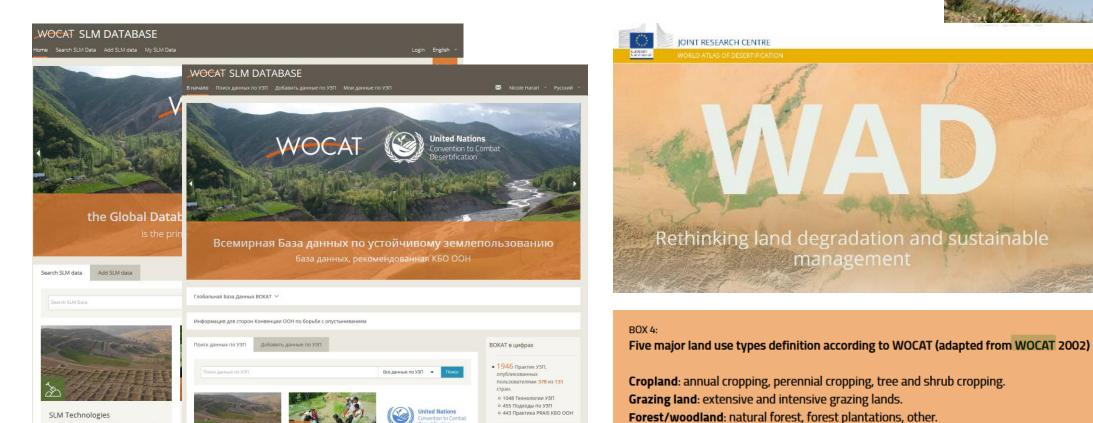
The assessment report or LAND **DEGRADATION AND** RESTORATION

IOINT RESEARCH CENTRE

Rethinking land degradation and sustainable

management





Up- and Out-scaling Sustainable Land Management and Achieving Land Degradation Neutrality

**Up- scaling:** bring SLM in local, national and global agendas, in decision making, investment / implementation programmes

**Out-scaling:** Spreading SLM on the ground

Land Degradation Neutrality: one of the SDG's (and other SDG's) no further net degradation



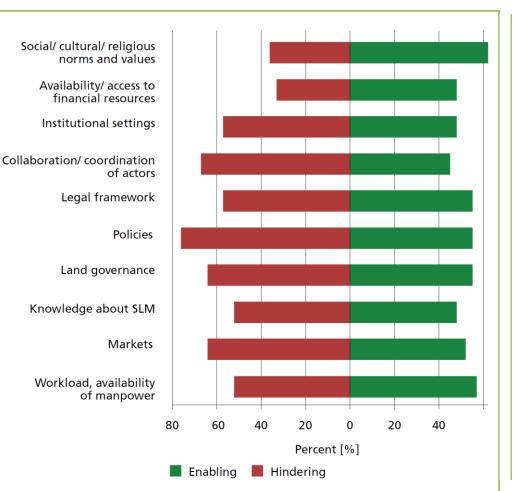


# 1. Topic: Dealing with drivers: hindering $\rightarrow$ enabling, opportunities

Role of knowledge, education and capacity building: growing challenges for SLM:

- tipping points for: land resources and human well-being (→ migration)
- fast changes need adaptation... versus:
- Investment in training, capacity building, extension service?

→ Contribution of WOCAT?: to close the capacity gap... improve policies, legal frameworks, attract funding,...



Global WOCAT dataset  $\rightarrow$  specific e.g. SSA rangelands

#### Panel Discussion: UNCCD COP 13: Ordos, China 2017

# Is SLM one of the most important cross-cutting actions for achieving SDGs $\rightarrow$ YES!!!

## ... but this is not recognized $\rightarrow$ what to do?

- all 3 UN Conventions: Desertification, Climate Change and Biodiversity
- SDGs: ...Food Security, Water conflicts/scarcity, Land Degradation Neutrality, ...



# 1. Topic: Dealing with drivers: hindering $\rightarrow$ enabling, opportunities



2 presentations (FAO Bangladesh and Uganda Land Care) and discussion:

Panel Discussion:

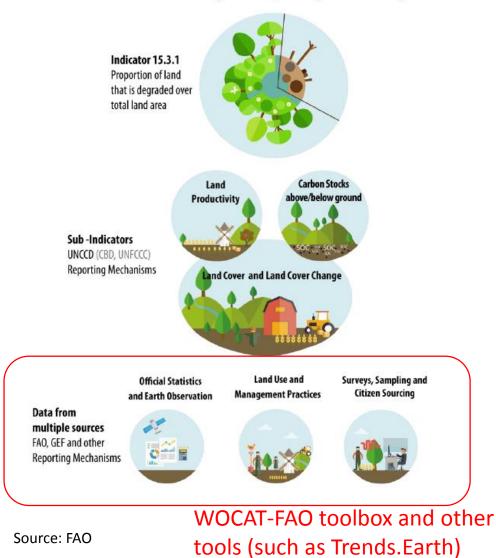
Compiled by Chair and Rapporteur

write your comments, ideas on a paper and hand it over to Chair and rapporteurs

 $\rightarrow$  Results to be summarized by Chair before closing of the symposium

# 2. Topic: Innovative pathways: towards Land Degradation Neutrality

Framework for Monitoring and Reporting on SDG Target 15.3



ELSEVIER

#### Contents lists available at ScienceDirect

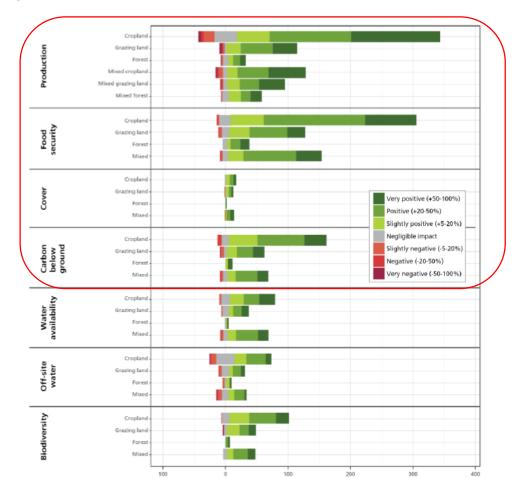
#### Environmental Science and Policy

journal homepage: www.elsevier.com/locate/envsci

Achieving land degradation neutrality: The role of SLM knowledge in evidence-based decision-making

Hanspeter Liniger<sup>a,\*</sup>, Nicole Harari<sup>a</sup>, Godert van Lynden<sup>b</sup>, Renate Fleiner<sup>a</sup>, Jan de Leeuw<sup>b</sup>, Zhanguo Bai<sup>b</sup>, William Critchley<sup>c</sup>

<sup>a</sup> Centre for Development and Environment (CDE), University of Bern, Switzerland
 <sup>b</sup> ISRIC, Wageningen University, Netherlands
 <sup>c</sup> Sustainable Land Management Associates, UK





Check for updates

# 2. Topic: Innovative pathways: towards Land Degradation Neutrality



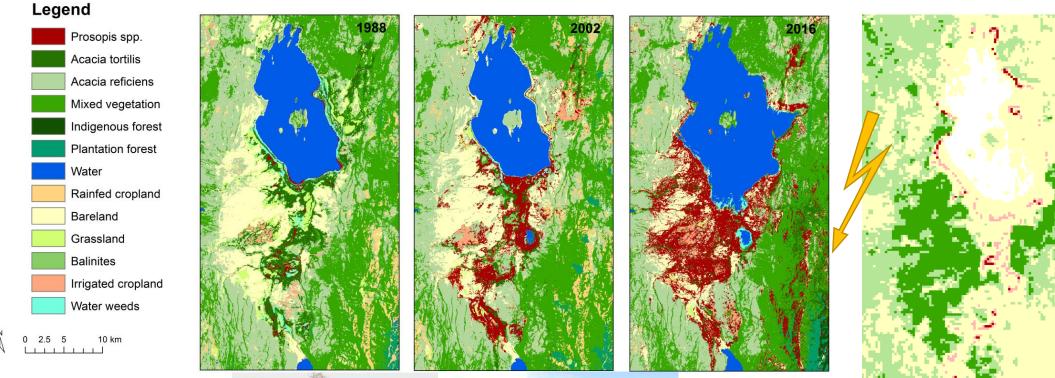
Hanspeter Liniger, Director WOCAT Renate Fleiner, Nicole Harari, Tatenda Lehmann



### Local Assessment: e.g. Woody Weeds

versus

### LDN Productivity Trends.Earth



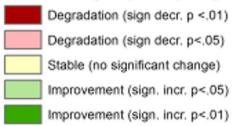






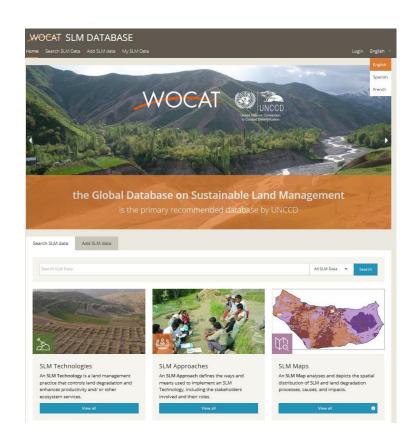


#### Productivity trajectory degradation (2002-2016)



## The evidence base

#### SLM knowledge from the WOCAT Global SLM Database ... the primary recommended by **UNCCD** for the SLM Best Practices reporting





Kalama Community Wildlife Conservancy site treated with restoration technology (right) bordering untreated area (left). (Hanspeter Linige

Rangeland Restoration by cutting invasive species and grass reseeding and managing grazing (Kenya)

DESCRIP	TION		LOCATION		
This 'Ran approacl reseedin	IMPACTS				
pressure The 'Ran 'core cor tourism) reduced 9,500 Ha	Socio-economic impacts fodder production	decreased	J	increased	due 1 mini
The mair Acacia re	Ecological impacts				grazi
known a shrub bu and distu	soil organic matter/ below ground C	decreased	✓	increased	mate
large are with A. re	vegetation cover	decreased		increased	pere
making t that the	biomass/ above ground C	decreased	1	increased	
suppress infiltratic	plant diversity	decreased	J	increased	
(research increase cover. Ra	COST-BENEFIT ANALYSIS				
of their p The mair trunks an	Benefits compared with establishment costs				
and charc the bare l	Short-term returns	very negative	e	1	very positive
bare soil i termites a	Long-term returns	very negative	e	1	very positive
infiltratic	5				

# Enriching and using evidence base for LDN

#### Linking local - national - global

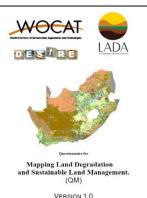
#### (2) WOCAT-UNCCD SLM BP reporting and Carbon Benefit Project



https://www.wocat.net/en/global-slmdatabase

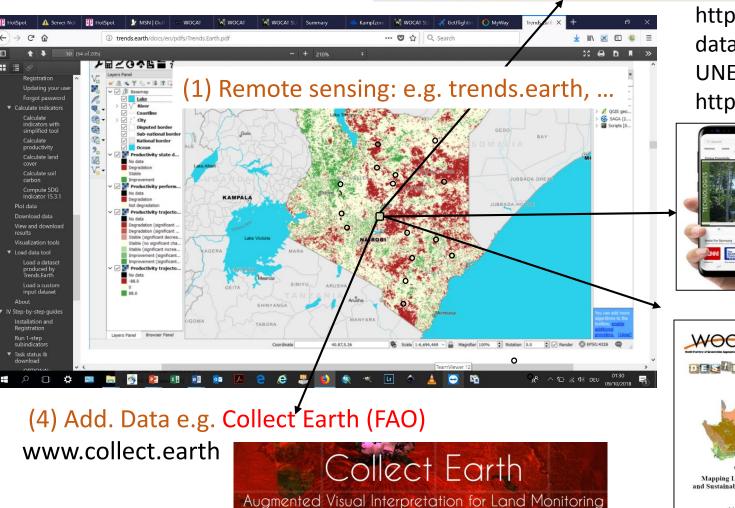
UNEP , Colorado State University http://www.carbonbenefitsproject.org





(3) Mobile App
LandPKS
LandPotential. Org
WOCAT T and A App
(developped in Thailand

(5) Validation
through expert
assessment
WOCAT-FAO
www.wocat.net



# **2.** Topic: Innovative pathways: Showing off-site impacts















On- and off-site benefits of SLM Examples:

- Haiti / China (Floods Sedimentation)
- Colombia (Floods –Sedimentation)
- Nepal: Spring protection:  $\rightarrow$  water
- Kenya: Hydropower, Nairobi Water Supply, Bidodiversity
- Island wind erosion and deposition
- Switzerland: Pollution of lakes, drinking water

# 2. Topic: Innovative pathways: Showing off-site impacts e.g. the tragedy of the drylands

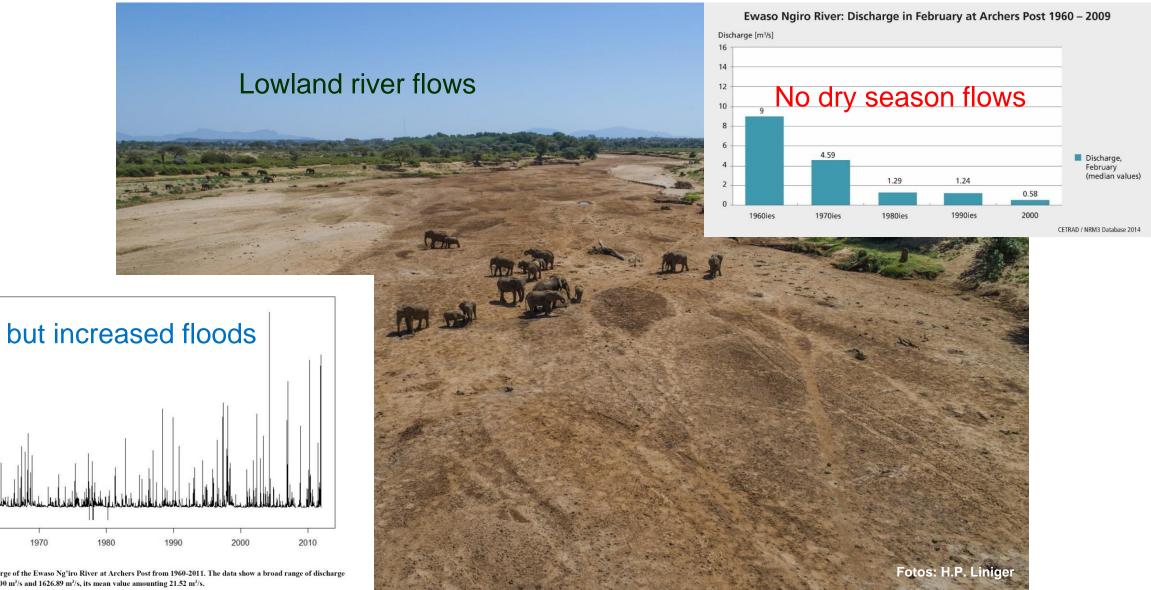


Figure 56: Recorded discharge of the Ewaso Ng'iro River at Archers Post from 1960-2011. The data show a broad range of discharge values recorded between -100 m3/s and 1626.89 m3/s, its mean value amounting 21.52 m3/s.

1500

1000

500

0

1960

1970

m<sup>3</sup>/s



Topic 2: Innovative pathways: how to integrate innovative SLM and LDN pathways into successful up- and out-scaling initiatives?

5 presentations (CONICET Argentina; FAO Colombia; WLRC Ethiopia; UZGIP Uzbekistan; Institute of Geography Russian Federation)

Panel Discussion:

Compiled by Chair and Rapporteur write your comments, ideas on a paper and hand it over to Chair and rapporteurs

 $\rightarrow$  Results to be summarized by Chair before closing of the symposium

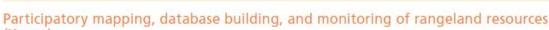
Topic 3: Community of practice: how can WOCAT, partner organizations and other institutions work better together to support the up- and outscaling of SLM and achieving LDN

3 presentations (CIAT Ethiopia, University Cambodia, ICIMOD Nepal)

Panel Discussion:

Compiled by Chair and Rapporteur write your comments, ideas on a paper and hand it over to Chair and rapporteurs

→ Results to be summarized by Chair before closing of the symposium











## **Enjoy the day**

Forget about urgent mails and deadlines Be present and enjoy others being present, Exchange and get to know each other

"If you want to learn, learn from those who have done it" "SLM and WOCAT it's a way of life and lifetime commitment"

Group photograph