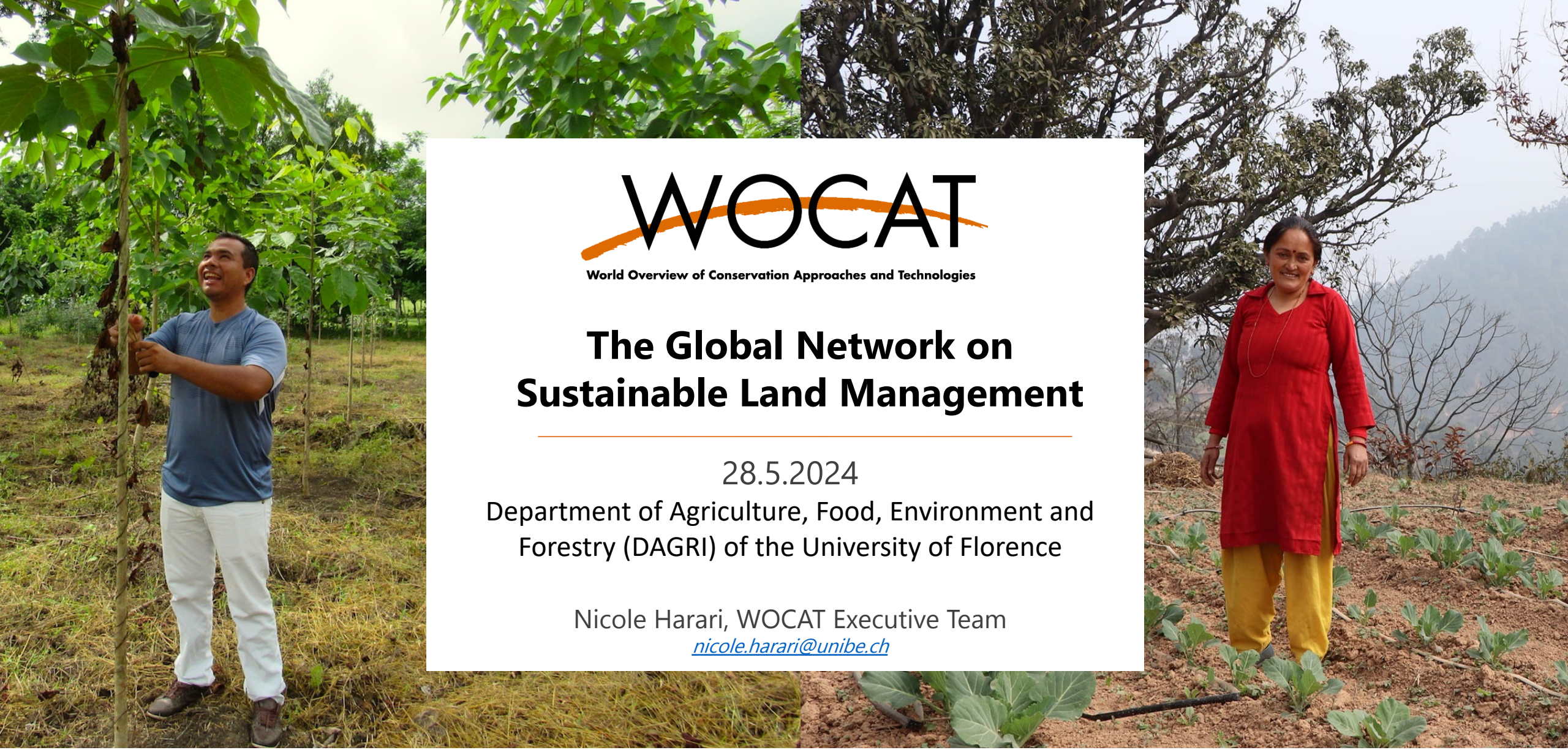

WOCAT

World Overview of Conservation Approaches and Technologies

The Global Network on Sustainable Land Management

28.5.2024

Department of Agriculture, Food, Environment and Forestry (DAGRI) of the University of Florence

Nicole Harari, WOCAT Executive Team
nicole.harari@unibe.ch

UNIVERSITÄT BERN
CDE CENTRE FOR DEVELOPMENT AND ENVIRONMENT

ISRIC World Soil Information

ICARDA Science for resilient livelihoods in dry areas

Food and Agriculture Organization of the United Nations

Alliance Bioversity & CIAT

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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About WOCAT

The World Overview of Conservation Approaches and Technologies (WOCAT) is a **global Network established in 1992**.

WOCAT supports the compilation, documentation, evaluation, sharing, dissemination, and application of **sustainable land management (SLM) knowledge**.

In 2014, WOCAT's growth and ongoing improvement culminated in being **officially recognized by the UNCCD** as the primary recommended Global SLM Database for best SLM practices.

https://www.wocat.net/en/about

Consortium Partners

University of Bern, CDE Centre for Development and Environment
ISRIC World Soil Information
ICARDA Science for resilient livelihoods in dry areas
Food and Agriculture Organization of the United Nations
Alliance Bioversity & CIAT
giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
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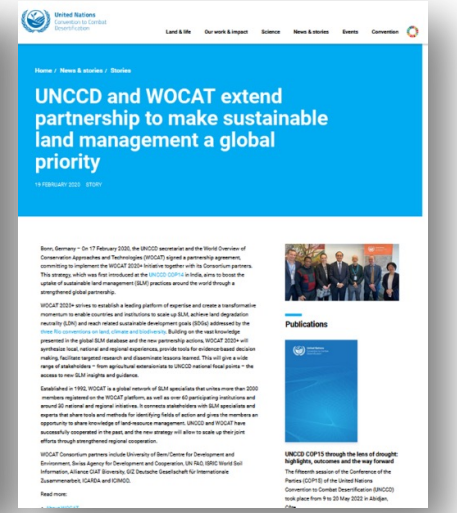
Funding Partners

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Agency for Development and Cooperation SDC

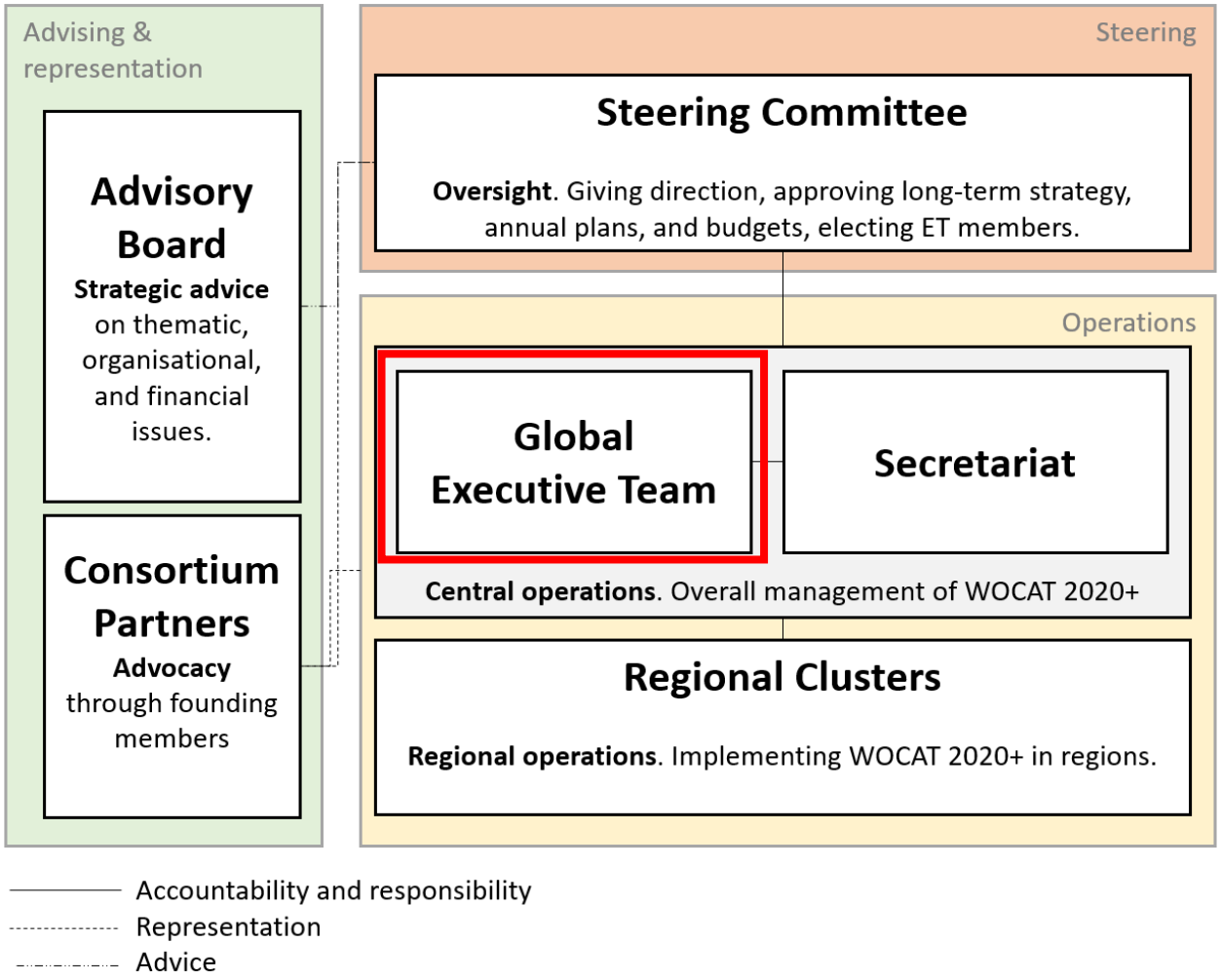
Federal Ministry for Economic Cooperation and Development

UNCCD knowledge Partner



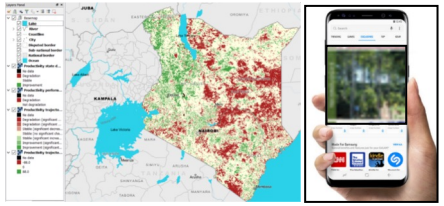
About WOCAT: Organizational structure

Global Executive Team



About WOCAT

WOCAT supports *innovation and decision-making in SLM* by:

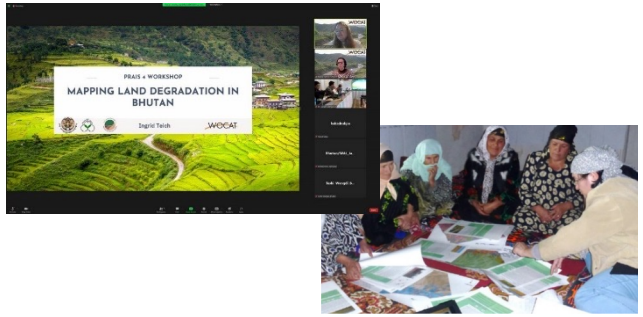


maintain global, open **SLM network**

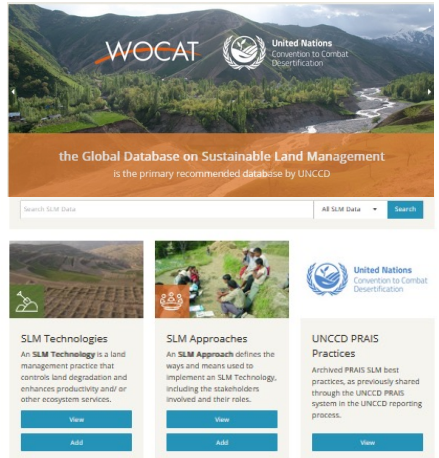
harmonize and further develop **tools and methods** with partners

WOCAT

provide open access **global SLM data repository**



build capacities at local, regional and national level



Target groups

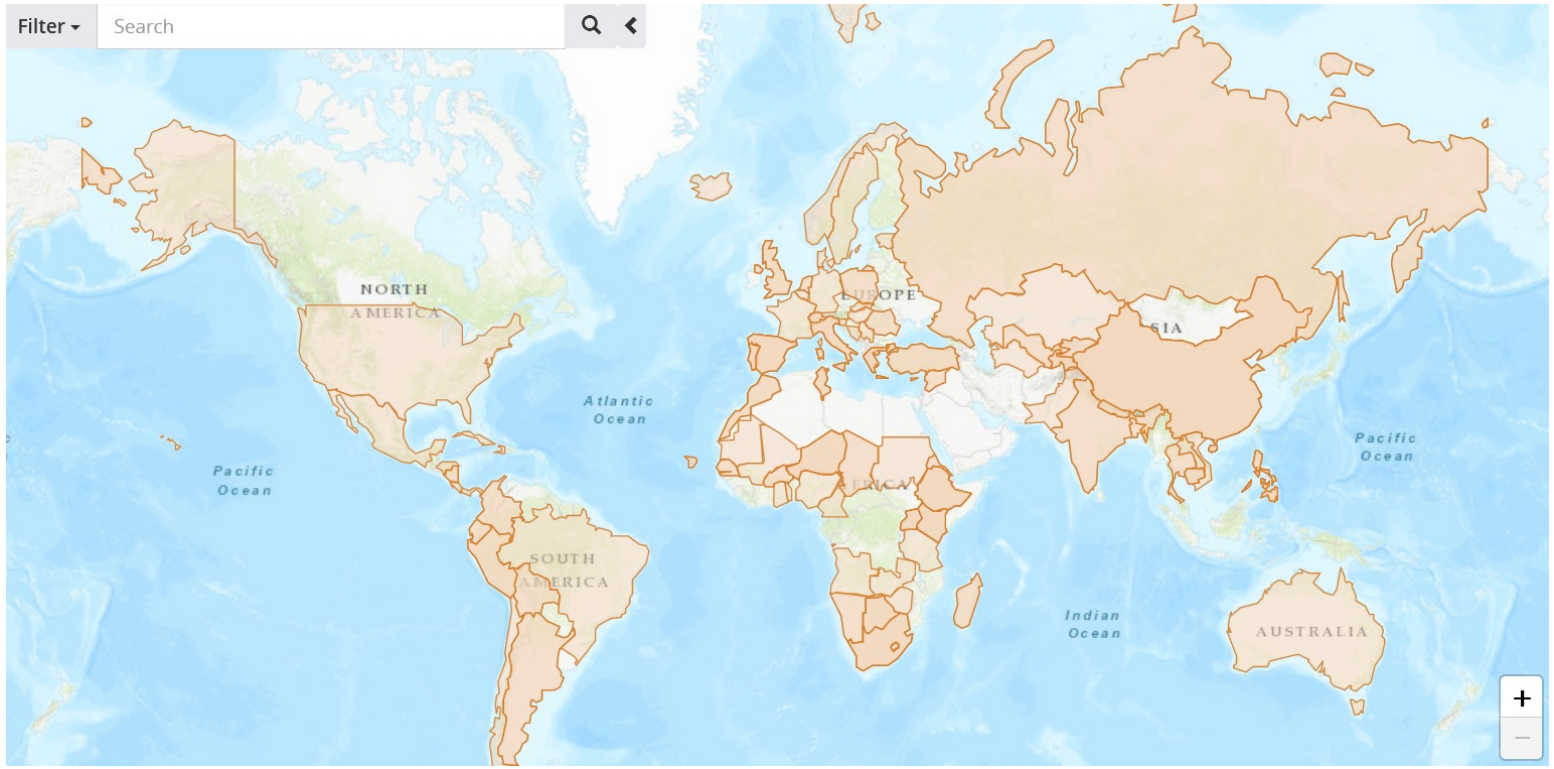
- **SLM specialists at the field level**, including technical staff, extension workers, agricultural advisors and project implementers.
- **SLM specialists at the (sub)national level**, including planners, project designers, policy makers and researchers.
- **SLM specialists at the regional and global level**, including international programme planners and donors.

Target beneficiaries and ultimate beneficiaries:

Land users and the public benefit from more secure ecosystem services.

WOCAT collaborations: The Global SLM Network

At national and regional level, WOCAT collaborates with **projects and programmes – through international agencies, government actors and non-government actors (NGOs, CSOs, research org.)**. WOCAT tools and methods are included in specific projects, mainstreamed in programmes, and may become part of a national strategy.



https://www.wocat.net/en/projects-and-countries

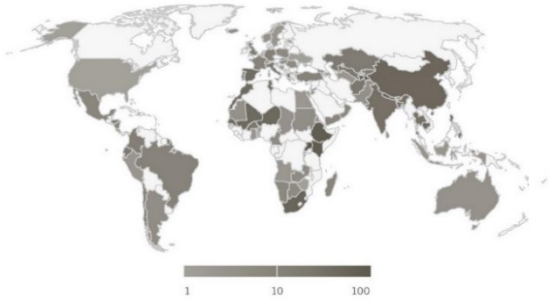
WOCAT Global Database

Main features

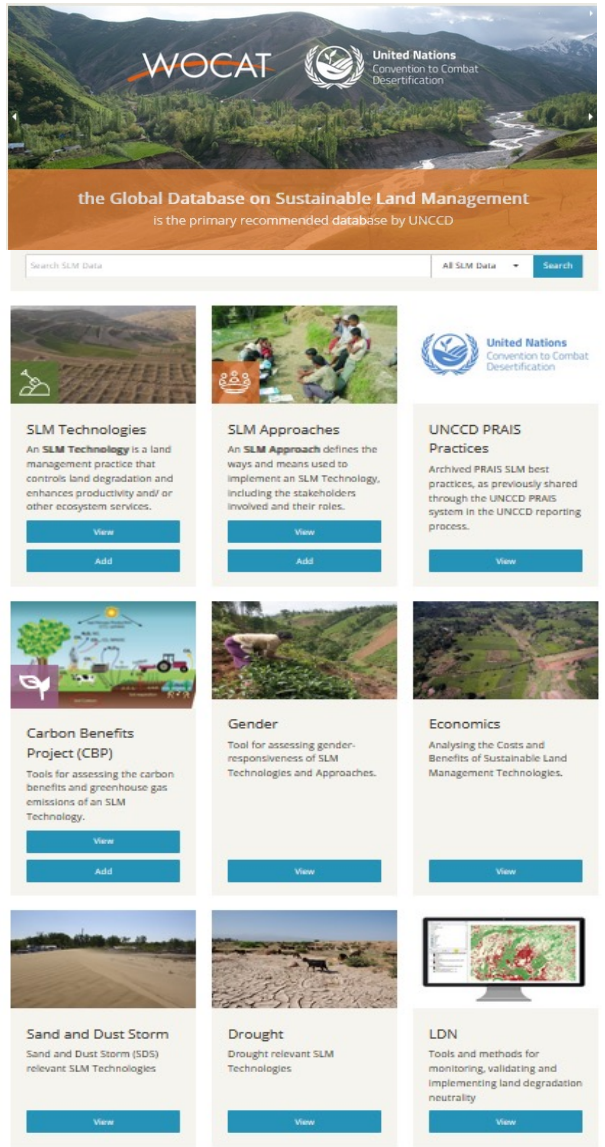
- ✓ **free upload and worldwide sharing** of countries' good SLM practices in English, Spanish, French, Russian, Chinese, Portuguese and other languages
- ✓ **free access** to 2200+ reviewed, proven, field-tested SLM practices from over 130 countries
- ✓ **standardized summary** of all Technologies and Approaches can be downloaded in various languages
- ✓ **database filter** to find relevant SLM practices for specific landscapes, land uses etc.
- ✓ possibility to integrate national SLM good practices in national/project/global platforms **through API**

UNCCD parties and other reporting agencies are encouraged to enter and share SLM best practices in the WOCAT SLM Database, and report in PRAIS under "Implementation Framework"/"Actions on the ground" (section 7.4.1 of the PRAIS reporting manual)

Database Visitors



SLM good practices in Database

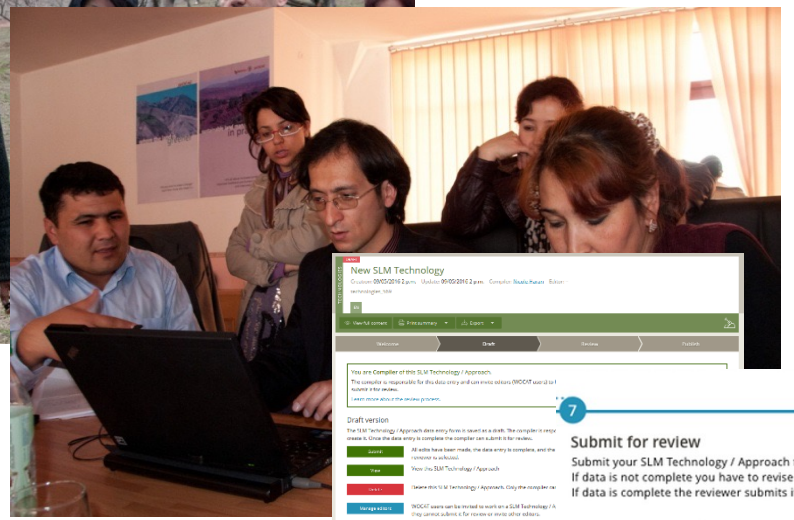


https://qcat.wocat.net

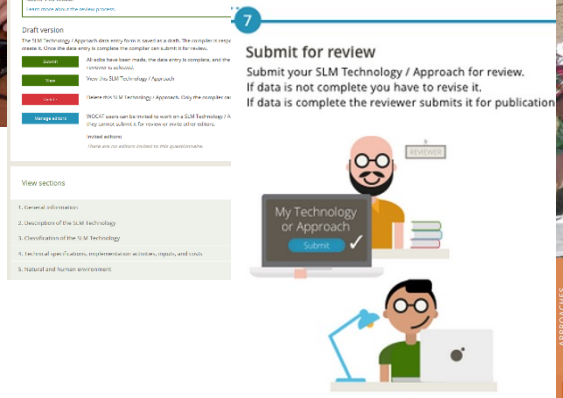
Global WOCAT SLM Database – process

Questionnaires on SLM Technologies and Approaches

Documenting information from and with land users, entering in Questionnaires



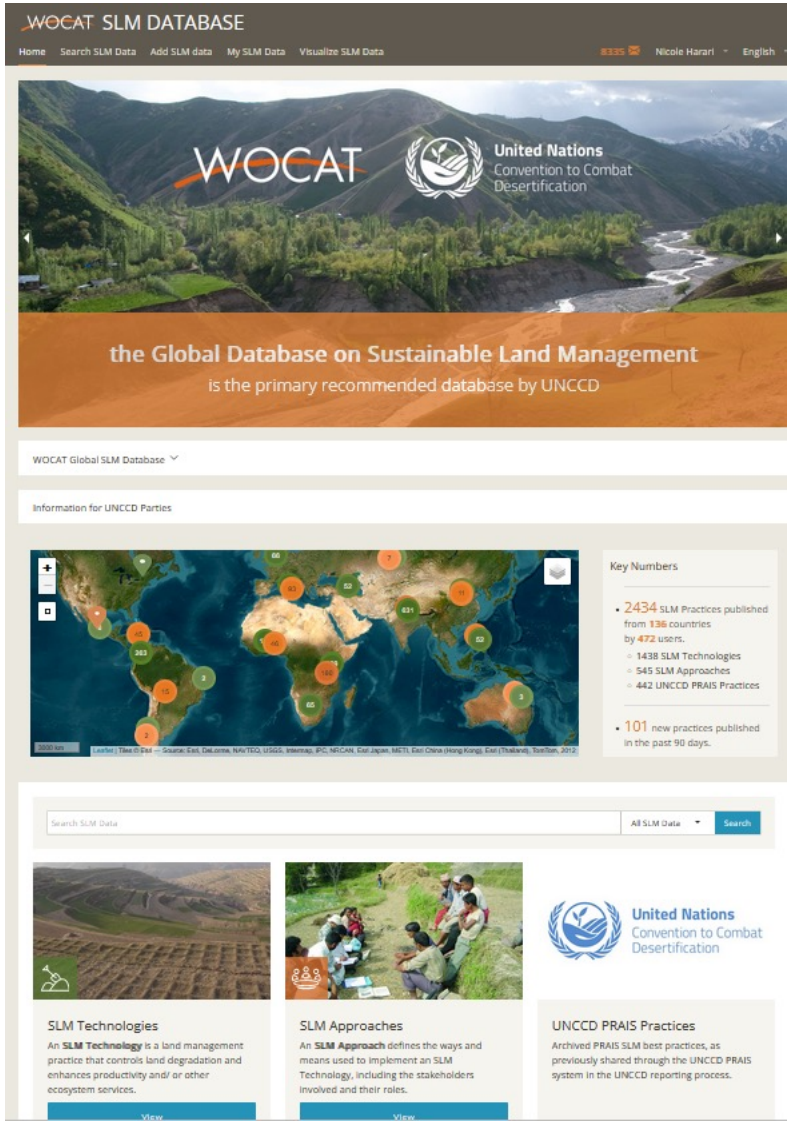
Entering data in Database

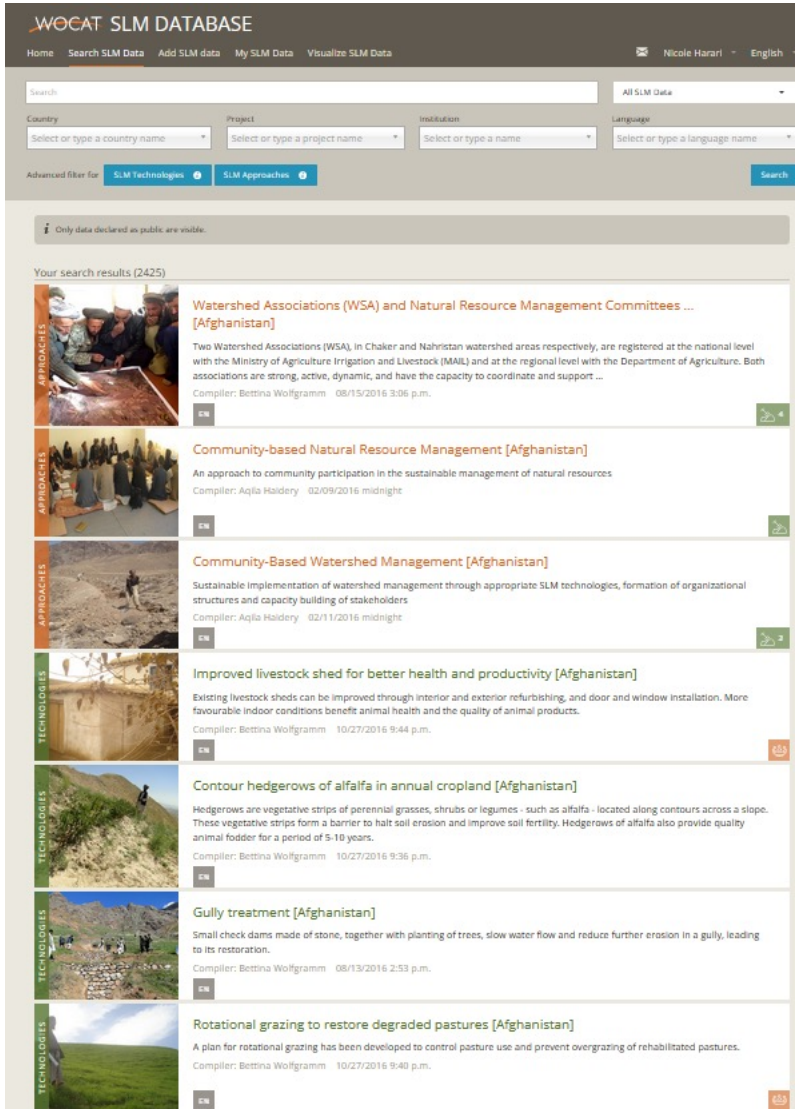


Review process

Data available online

WOCAT Global SLM Database



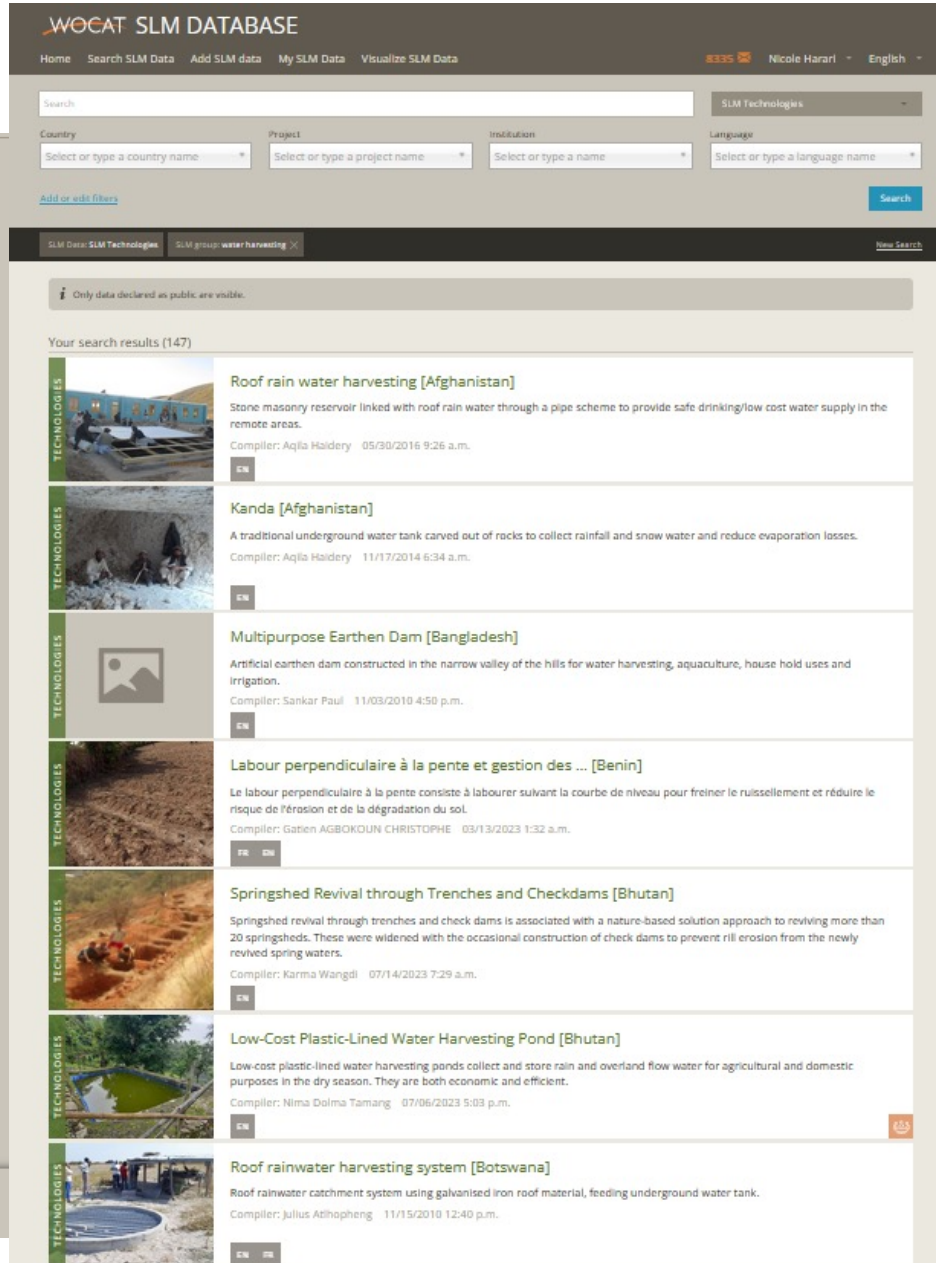


WOCAT Global SLM Database

SLM group

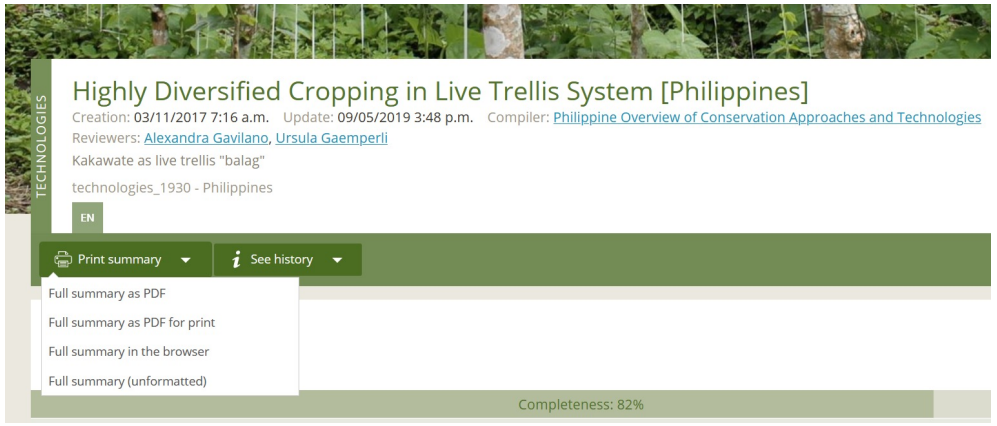
- [ ] natural and semi-natural forest management (61)
- [ ] forest plantation management (50)
- [ ] agroforestry (161)
- [ ] windbreak/ shelterbelt (63)
- [ ] area closure (stop use, support restoration) (65)
- [ ] rotational systems (crop rotation, fallows, shifting cultivation) (118)
- [ ] pastoralism and grazing land management (120)
- [ ] integrated crop-livestock management (103)
- [ ] improved ground/ vegetation cover (370)
- [ ] minimal soil disturbance (116)
- [ ] integrated soil fertility management (227)
- [ ] cross-slope measure (266)
- [ ] integrated pest and disease management (incl. organic agriculture) (66)
- [ ] improved plant varieties/ animal breeds (77)
- [x] **water harvesting (147)**
- [ ] irrigation management (incl. water supply, drainage) (161)
- [ ] water diversion and drainage (89)
- [ ] surface water management (spring, river, lakes, sea) (95)
- [ ] ground water management (31)
- [ ] wetland protection/ management (26)
- [ ] waste management/ waste water management (24)
- [ ] energy efficiency technologies (29)
- [ ] beekeeping, aquaculture, poultry, rabbit farming, silkworm farming, etc. (23)
- [ ] home gardens (40)
- [ ] ecosystem-based disaster risk reduction (61)

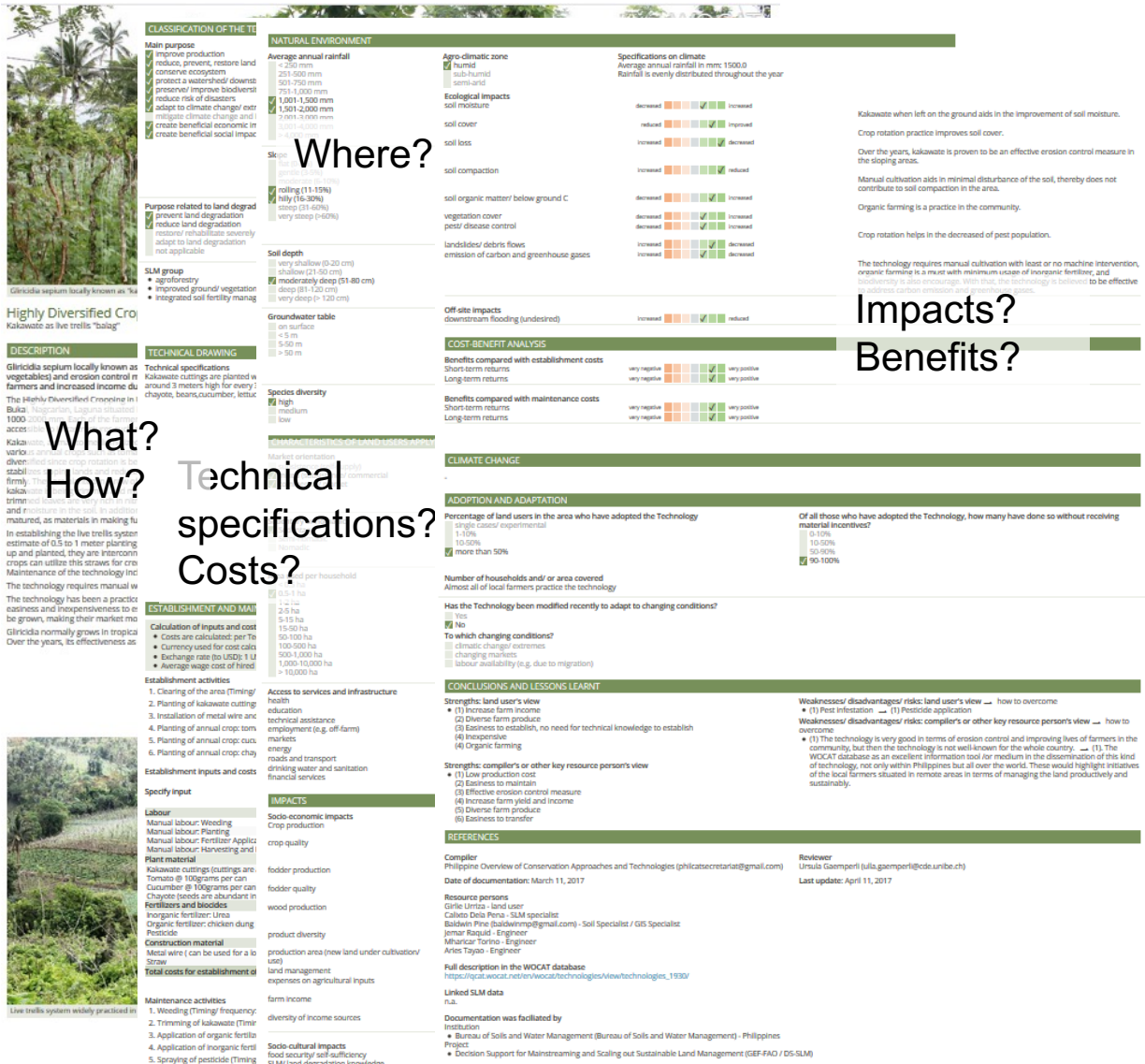
Add or edit filters



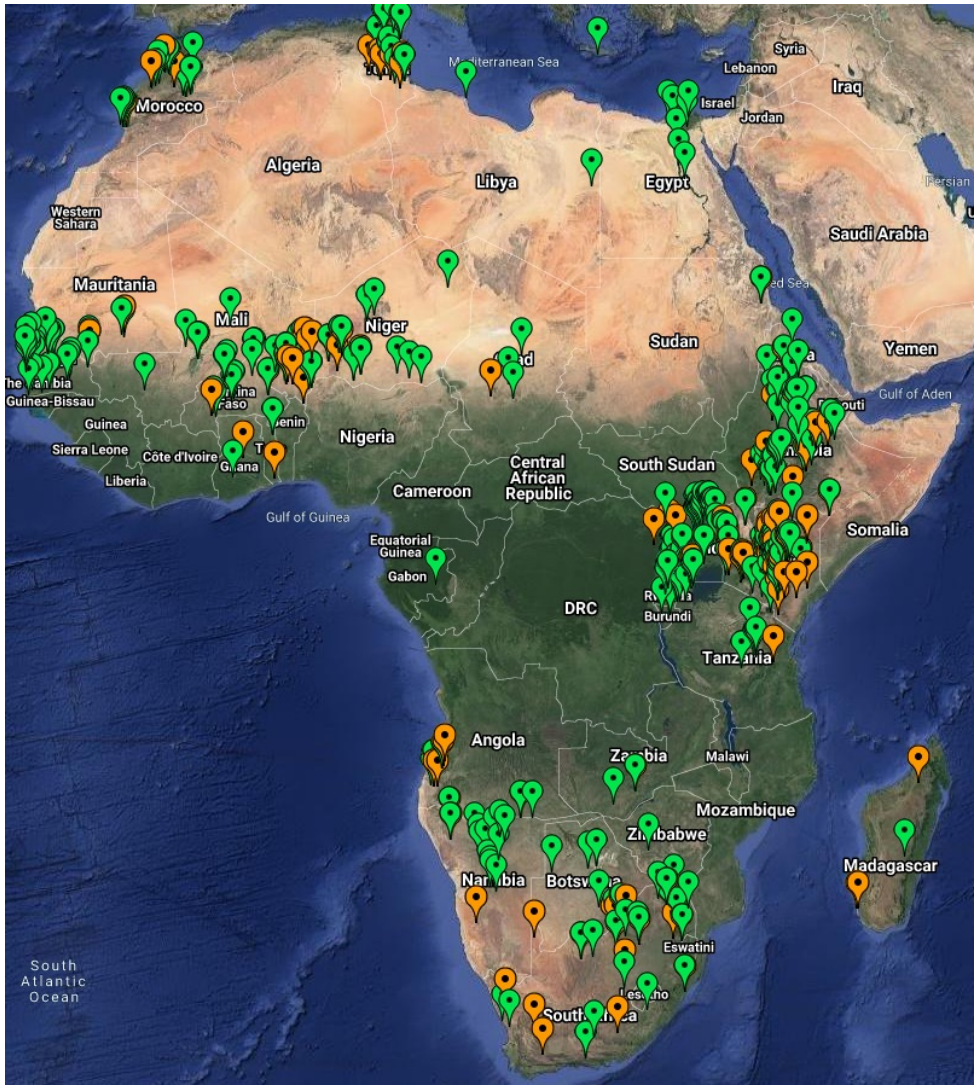
WOCAT Global SLM Database: Standardized output format

- automatically generated
- in all (available) languages (English, Russian, French, Spanish, Khmer, …)
- used for good practices compilations; learning materials for e.g. extension services; global, regional, national knowledge products, etc.





Africa: SLM good practices



Partners

SLM Technologies and Approaches documentation in WOCAT Database

WOCAT
World Overview of Conservation Approaches and Technologies

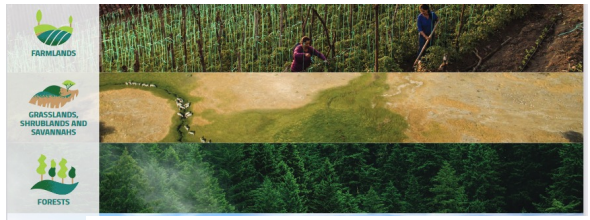
Government Bodies and UN Partners

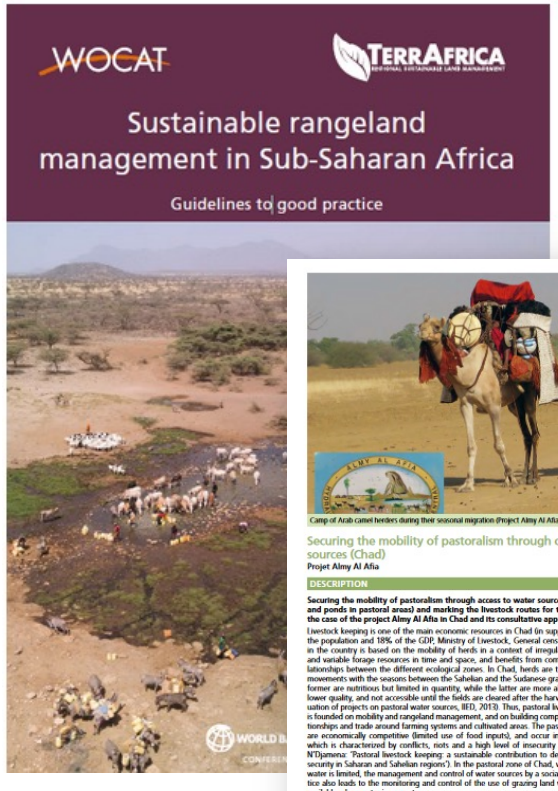
Universities and Research Institutes

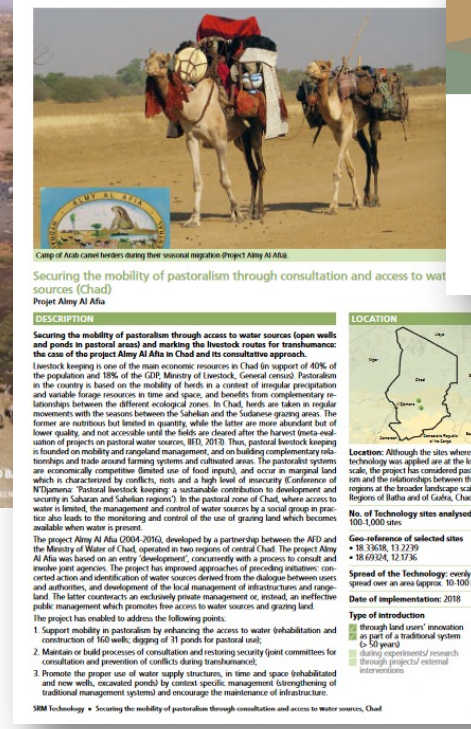
NGOs

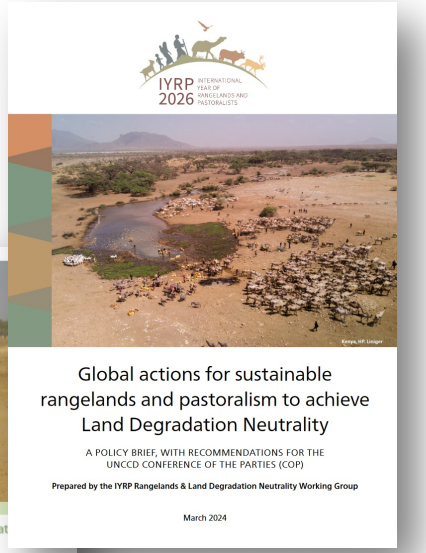
How is the knowledge used? some examples

Globally: Good practices knowledge, Guidelines, learning and sharing events, capacity building



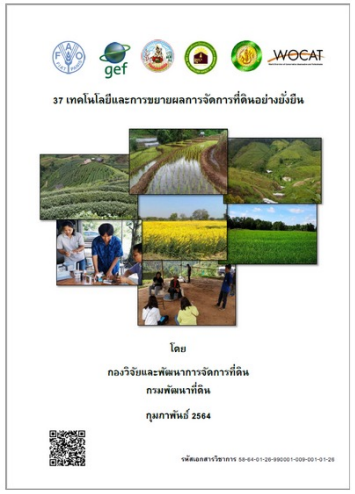


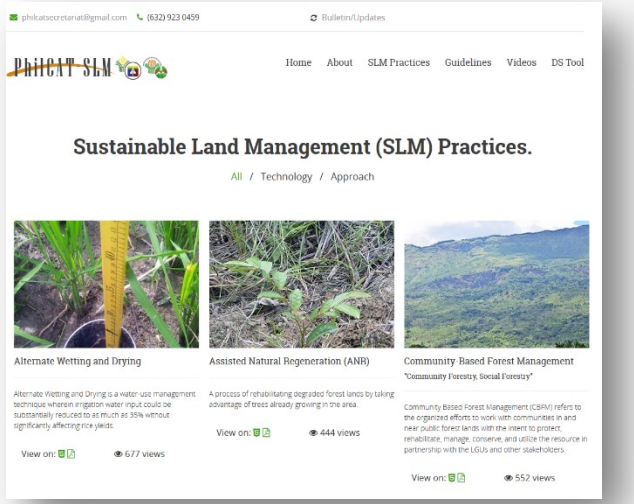


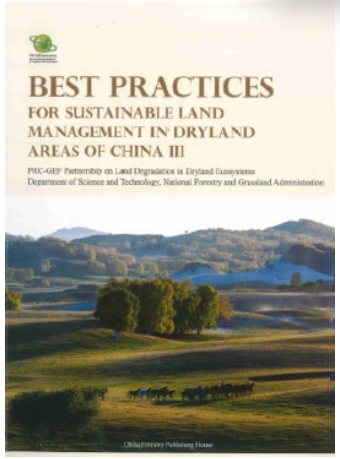


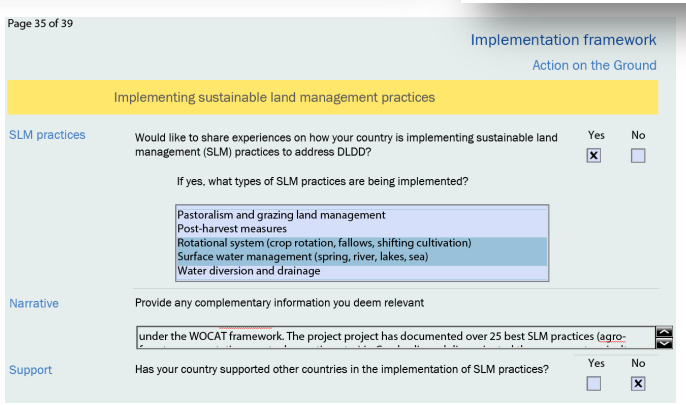
How is the knowledge used? some examples

Nationally and locally: Reporting, Good practices compilations, learning and sharing events, capacity building, decision support for scaling





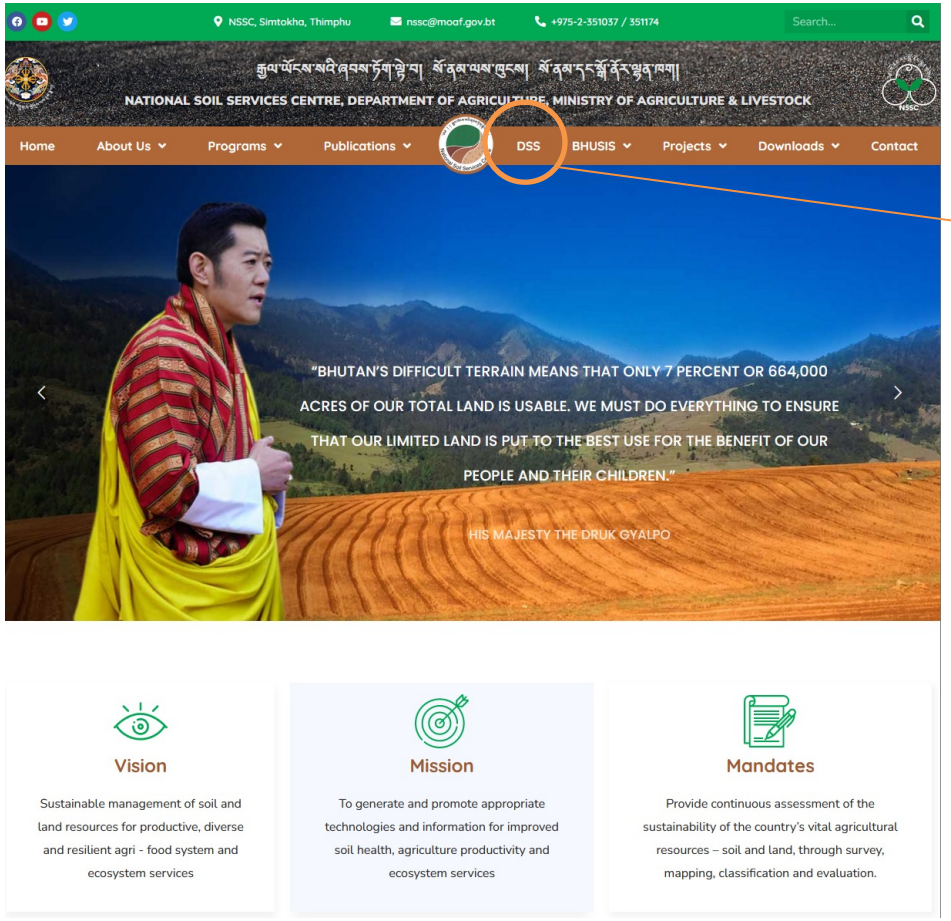


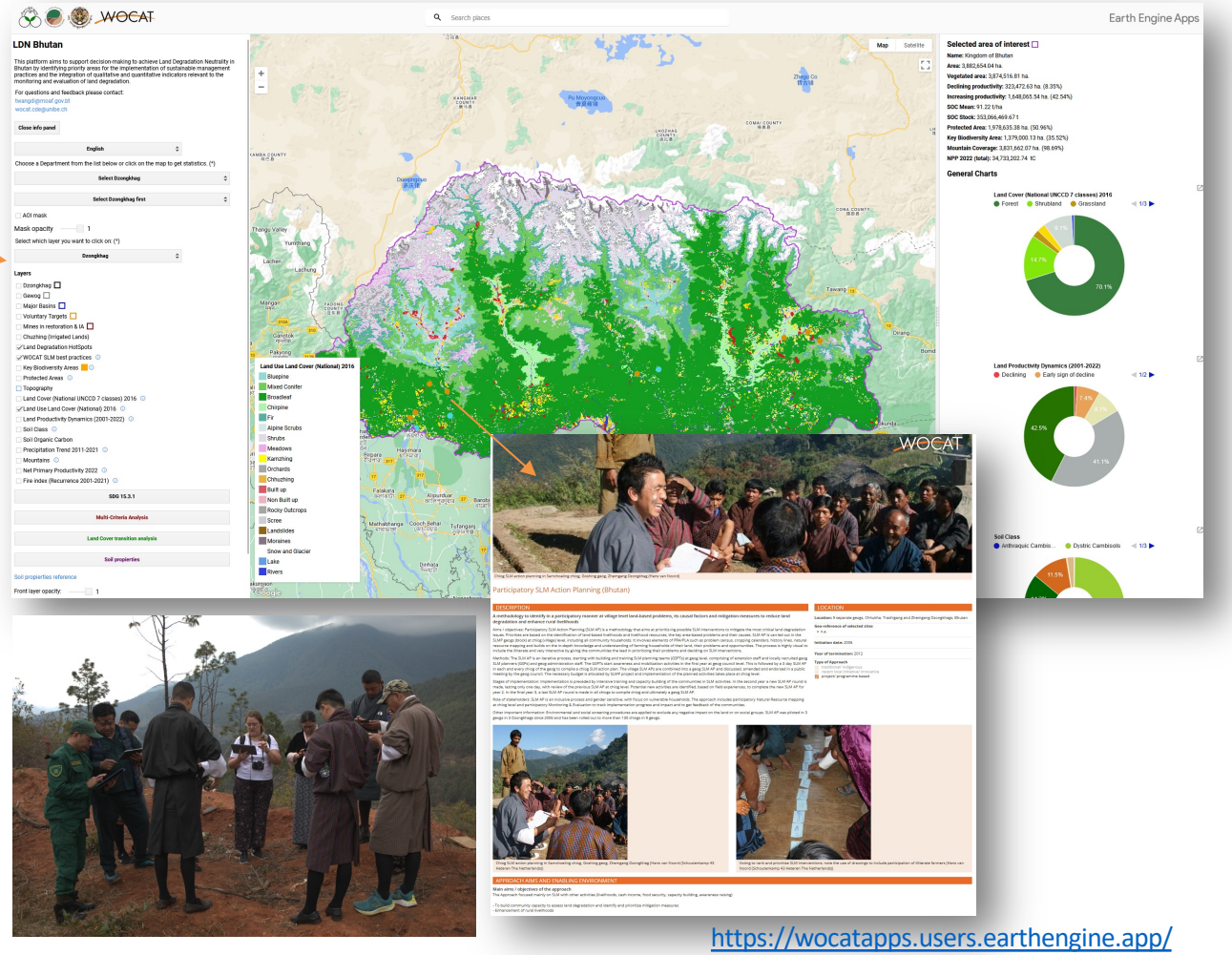


How is the knowledge used? some examples

Nationally and locally: Reporting, Good practices compilations, learning and sharing events, capacity building, decision support for scaling

https://www.nssc.gov.bt/



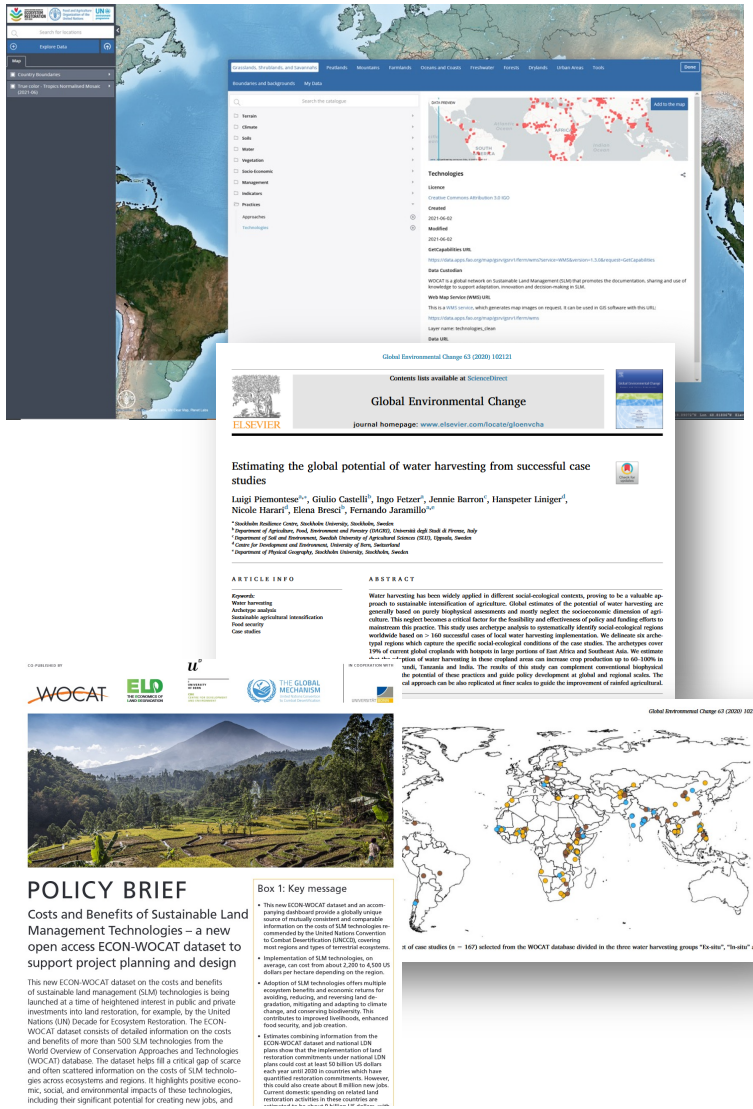


https://wocatapps.users.earthengine.app/

Global WOCAT SLM Database – linked platforms

Why is the Database used worldwide?

- **standardized documentation**, supporting **knowledge management, comparison, analysis at different levels**
- **sharing good practices at local, national and global level**
- **open access, integration into own/national platforms/websites** through API
- **automatic integration into global platforms** linked to the WOCAT Database
- dataset made available through API to scientists for **research purposes**
- inclusion of good practices in **global knowledge products** of WOCAT and partners (e.g. with UNCCD) and presented at **global events** (e.g. June 17th DDD)



WOCAT

World Overview of Conservation Approaches and Technologies

Contact/follow us: www.wocat.net wocat.cde@unibe.ch @WOCATnet @wocatnet

Photo: RUA Cambodia

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