



About WOCAT

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

WOCAT supports the compilation, documentation, evaluation, sharing, dissemination, and application of standardized sustainable land management (SLM) knowledge and its use for decision-making and scaling up.



World Overview of Conservation Approaches and Technologies

The Global Network on **Sustainable Land Management**

Consortium Partners









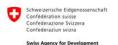








Funding Partners







About WOCAT

WOCAT supports innovation and decision-making in SLM by:









harmonize and further develop tools and methods with partners







provide open access global SLM data repository









WOCAT and UNCCD

In 2014, WOCAT was officially recognized by the UNCCD as the primary recommended Global SLM Database for reporting on best SLM practices

In 2022, the University of Bern, Centre for Development and Environment on behalf of WOCAT received the accreditation as member of the UNCCD CSO group



https://www.unccd.int/land-and-life/sustainable-land-management-and-restoration/get-involved/unccd-wocat-partnership-slm

https://www.wocat.net/library/media/60/



WOCAT and UNCCD

2014: UNCCD selects WOCAT as the primary recommended database for SLM best practices and adaptation measures. Agreement between UNCCD and WOCAT signed. Data previously reported through the PRAIS were transferred to the WOCAT SLM Database.

2019: UNCCD Decision19/COP.14: acknowledging continuing efforts by WOCAT in promoting analysis, dissemination and accessibility of SLM practices.

2020: UNCCD-WOCAT Partnership extended to boost the uptake of SLM practices around the world through a strengthened global partnership.

2022:

Decision 9/COP.15 - Collaboration with the Global Environment Facility

Decision 11/COP.15 - Improving the **procedures for communication of information** as well as the quality and formats of reports to be submitted to the Conference of the Parties

Decision 19/COP.15 - Interfacing science and policy: The Science-Policy Interface, the **dissemination and accessibility of best practices**, and the UNCCD Knowledge Hub

Decision 20/COP.15 - Policy-oriented recommendations resulting from the cooperation with other intergovernmental scientific panels and bodies

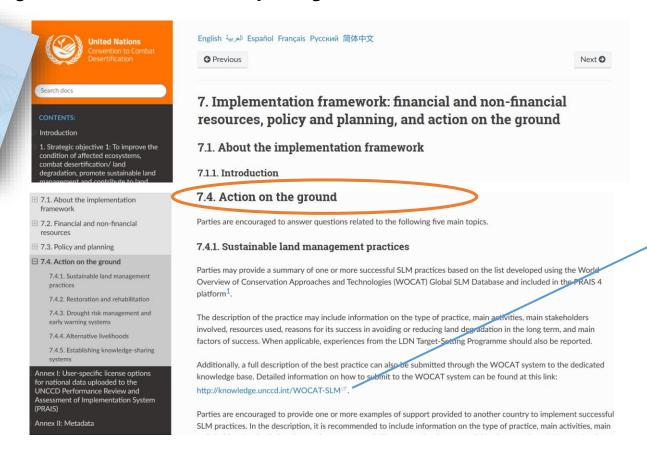
Decision 24/COP.15 - Follow-up on policy frameworks and thematic issues: Gender

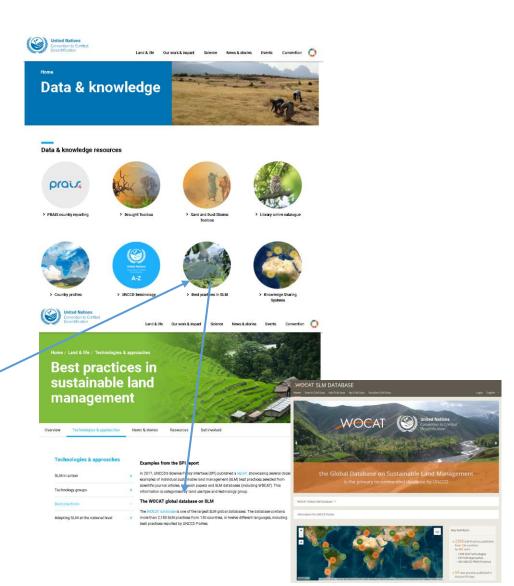




UNCCD Reporting process

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" (see 7.4.1 of the reporting manual)



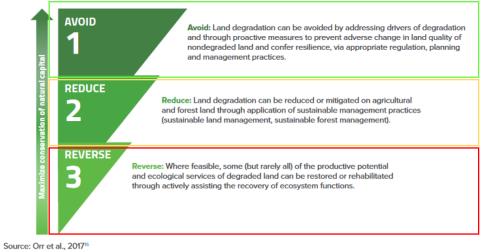




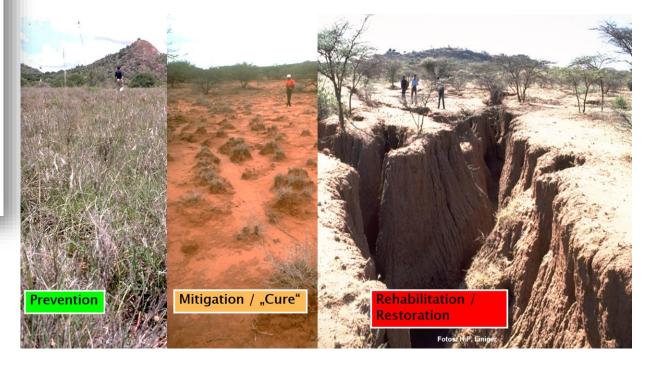
Sustainable Land Management and LDN response hierarchy

LDN is defined as: "A state whereby the amount and quality of land resources, necessary to support ecosystem functions and services and enhance food security, remains stable or increases within specified temporal and spatial scales and ecosystems." The LDN "response hierarchy" of Avoid > Reduce > Reverse land degradation is the overarching principle for LDN implementation, which guides decision-makers in planning interventions to achieve LDN (Figure 1).

Figure 1: The LDN Response Hierarchy



Purpose of the SLM technology





Sustainable Land Management and LDN response hierarchy



Agroforestry: Intercropping of vegetables between orange trees (Cambodia) Mixed cropping

Intercropping of chilies (or other short-term crops) between young orange trees is a type of agro-forestry system which increases income, makes ultimate use of land resources, saves time for maintenance and irrigation, and improves soil fertility by using crop residue with cow manure as fertilizer, thereby reducing the use of chemicals.

thill on the seen as a short-fearm roop that can be harvested soon after plantation. Farmers plant such him to turn cross to support their family's income (Pov., 2016). Omness are a long-som roop of har can be fully harvested after only says and then continues to be insinsested for a long-filler. How more than original terms are amount, the more than part of the more than origination or an arrange of the product of the product. Furthermore, they do not require a pread deal of maintenance and there is a good market demand for originate. (2011), Growing chillist between young orange trees is known as an agro-forestry system that gives rise to a great number of benefits including an increase in the efficiency of land use, a swing of time otherwise spent on maintenance and irrigation, and also it improves the soil quality and prevents land degradation. Moreover it is an improvement in crop production that helps to generate more income for farmers (EMD, 2007).

The purpose of implementing this technology, whereby other short-term crops (such as chilles, eggplants, and herbs) are seasonally intercropped between young orange trees is to economize time spent on maintenance, watering, and applying fertilizer on chilles. And oranges benefit, too. Assorted crops absort different nutrients from the soil which enables the soil to remain balanced and fertile and also they do not interfere with the growth of the long-term crops. Additionally the use of crop residue with cow manure is a mean of improving the soil's fertility and it helps to reduce the use of chemical fertilizer. Alternatively this technology can also include the plantation of papaya and banana trees around the land as additional crops, which provide shade and help to control soil moisture for the other crops.

The farmer needs to plough the soil three sines. After the first poughing the soil has to be direct for four day, after the second obligations for five day; and after the first long adjustment of the first long and the fir





Community Based Soil Rehabilitation for Grassland on Common Lands After Erdadication of the Invasive Lantana Camara (India)

Purpose related to land degradation

reduce land degradation restore/ rehabilitate severely degraded land adapt to land degradation

Community-based soil rehabilitation by eradicating the invasive plant Lantana Camara using the 'cut rootstock' method (refer to WOCAT technology 6660) is an effective, cost-efficient, and sustainable approach to restoring grasslands on common lands in the Mandla District of Madhya Pradesh. The three-tier institutional structure used in this eradication process involved the formation of informal women groups at the hamlet level (village organisational structure), the Village Environment Committee (VEC) at the village level, and an Executive Committee at the cluster level (higher organisational structure) so to ensure community involvement and ownership.

Community-based soil rehabilitation after the eradication of the invasive plant species, Lantana Camara, is an effective technique for restoring grasslands on common lands that had earlier been invaded by this species. The invasion of Lantana Camara can have significant negative impacts on the ecosystem, reducing the diversity of plant life and disrupting the local communities' use of common lands for grazing, for agriculture, and for collecting non-timber forest products.

To address these issues, a three-Ber institutional structure is being used by the project-implementing organization Foundation for Ecological Security (FES). This structure includes the formation of informal women groups at the harmest level, the Village Environment Committee (VEQ) at the village level, and an executive committee et the cluster level. The VEQ prepares proposals on common issues and plans with budges that are presented to the executive committee, which is made of an into findividuals, with 50% of the seasons are committeed and the proposals on common structure.

The first step in the process is for the village executive committee to take the Gram Sabha (Village Governing Body) into confidence and prepare bylaws for the restoratio conservation of the Lantana-eradicated site. These bylaws are regularly discussed in the village institution medium for refresh the memory of the community and different stakeholders on how to properly conserve the site. Cocal resource persons facilitate the implementation of work.

One of the major works understaken by these communities in the Mandle District is the oil prehabilitation for work.

One of the major works understaken by these communities in the Mandle District is the oil prehabilitation from Lantana Camara for grassland restoration on common lands. The uprocting of Lantana is a tricky process, and improper methods can result in an even more forceful recurrence of the species. Therefore, the "out nocstock" method is used. which involves cutting the root of the plant three inches below the ground and lifting the bush upside down to prevent it from ground. This method is done between july and September before fruiting to avoid seed fall, which can cause recurrence for up to three years, also this is the time when the soil has enough moisture thus softness to uproor the Lantana plants. The Cut Rootstock (CRS) method to control the spread of Lantana Camara is cost-effective and sustainable as it does not require the use of chemical herbicides or heavy

machinery. In addition to using the CRS method, perching trees are located, and saplings are removed from under their canopies and along the nearby surface runoff zone Regular monitoring and follow-up actions may be necessary to ensure the long-term success of this method in controlling the spread of Lantana Camara.

To prevent a recurrence, measures such as mopping for three years continuously, planting and seed sowing in areas where rootstocks seem to be less, and grass seed sowing are executed. The community institution ensures the collection of indigenous grass species, which are made into seed balls and sown before the advent of monsoon. These grass

 biological degradation - Bc: reduction of vegetation cover, Bg: quantity/ biomass decline, Bf: detrimental effects of fires, Bs: quality and species composition/ diversity decline, BI: loss of soil life

Spread of the Technology: applied at specific points/ concentrated on a small area In a permanently protected area?: No

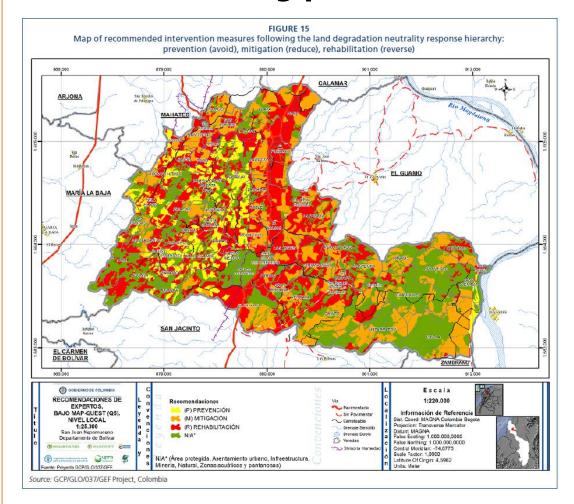
as part of a traditional system (> 50 years)

during experiments/ research through projects/ external interventions



Sustainable Land Management and LDN response hierarchy

Land Use Planning processes







Sistema Silvopastoril (Colombia) Potrero arbolado

Descrimentory
Sistema silvopastoril conformado por una matriz de pasto (Brachiaria sp.), con arboles fijadores de nitrógeno (Leucaena leucocephala) delimitado por cerca viva de piñon (poxx). Contribuye a incrementar la productividad ganadera y reducir la degradación del suelo.

tals according as the implementation of which in thring graduations from they productional, copies features occurs enter it by 30 incursars, que se it range de tenena comun in personal production of the interest occurs occurs

Johnson September 14 in Professional Confession and Artificial Confess

Finalmente, el Sr. Calvo, usuario de la Sierra ha obsarvado, que al tener el ganado alimento estable a lo largo del año, in producción de leche se mayor, los termeros están múse sanos y el ganado tranquilo. Antes de la texnológia, la falta de alimento no solo afectabla la producciódid del ganados: non que tembién incrementable alo costos de mande de cercas. El ganado rompía las cercas y se escapaba en busca de alimento a otras fincas, requiriendo nuevos materiales para repararlas e incrementado la mano de obra.





Geospatial Platforms to support LDN monitoring, decision-making and reporting (SDG 15.3)

Conclusions:

- Documentation of SLM good practices can be included in mapping LD/SLM (coordinates exist).
- Use of SLM good practices in the context of mapping to link hot spots/green spots with SLM good practices.
- Geo-portals are used for planning, to define locations (priorities) for implementing SLM in a participatory way it is also important to see the solutions/good practices that already exist and could be replicated.



The contraction of the contracti

Earth Engine Apps

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

Thank you!









