



Food and Agriculture Organization
of the United Nations

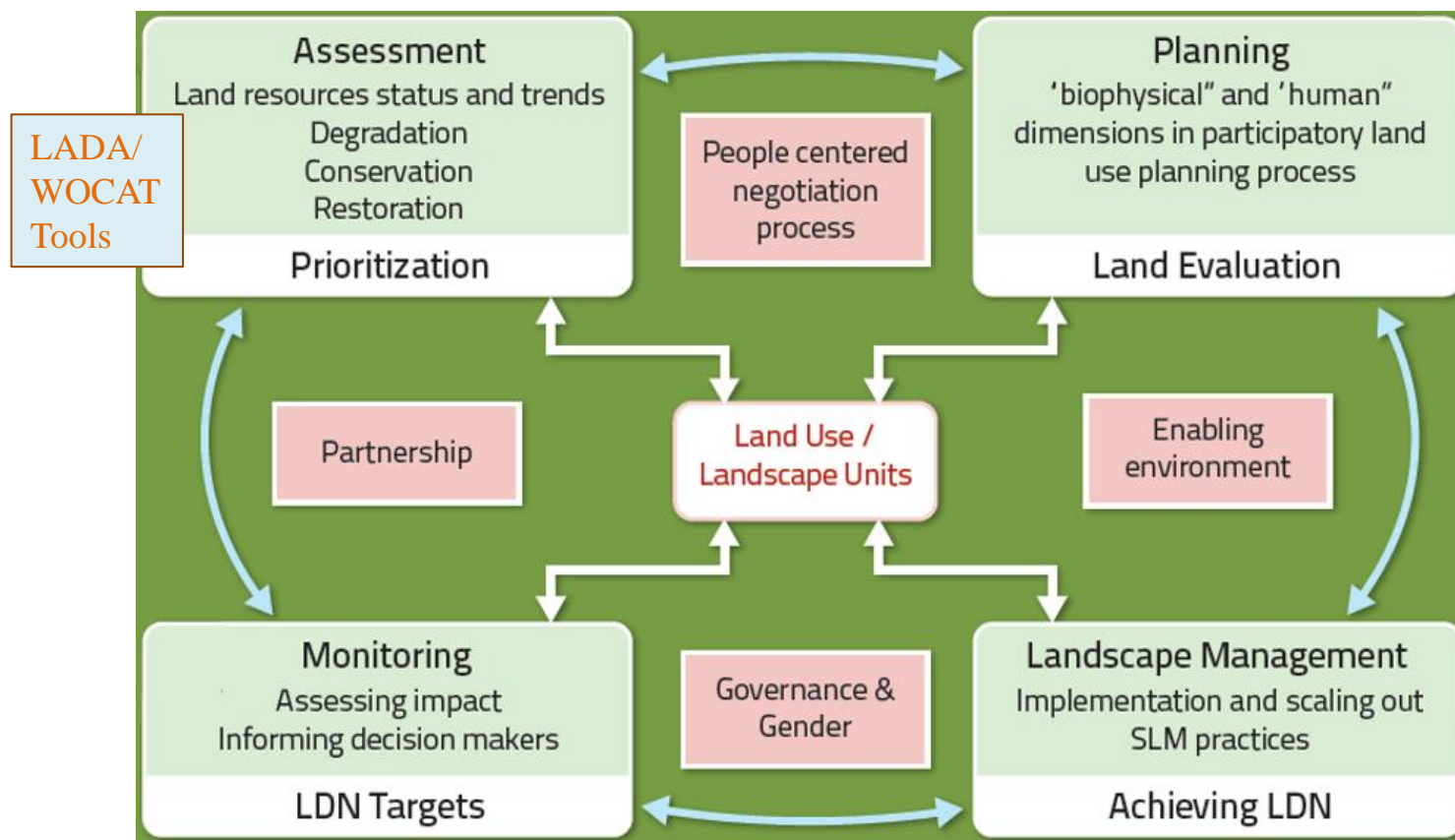
**Using the Land Degradation Assessment in Drylands
(LADA) and the World Overview of Conservation Approaches
and Technologies (WOCAT) for scaling up good land
management practices in Asia**

Webinar, 17-18 October 2023

**LADA Assessment of Land Degradation and
Integrated Land Use Planning at Local Level**

Feras Ziadat
FAO - Land and Water Division

Land Resources Planning





Participatory land resources planning to promote the scaling out and mainstreaming of SLM in Morocco

From the diagnosis of land use systems, to

LADA/WOCAT Tools



Territorial planning, to



Scaling-out SLM in specific
landscapes

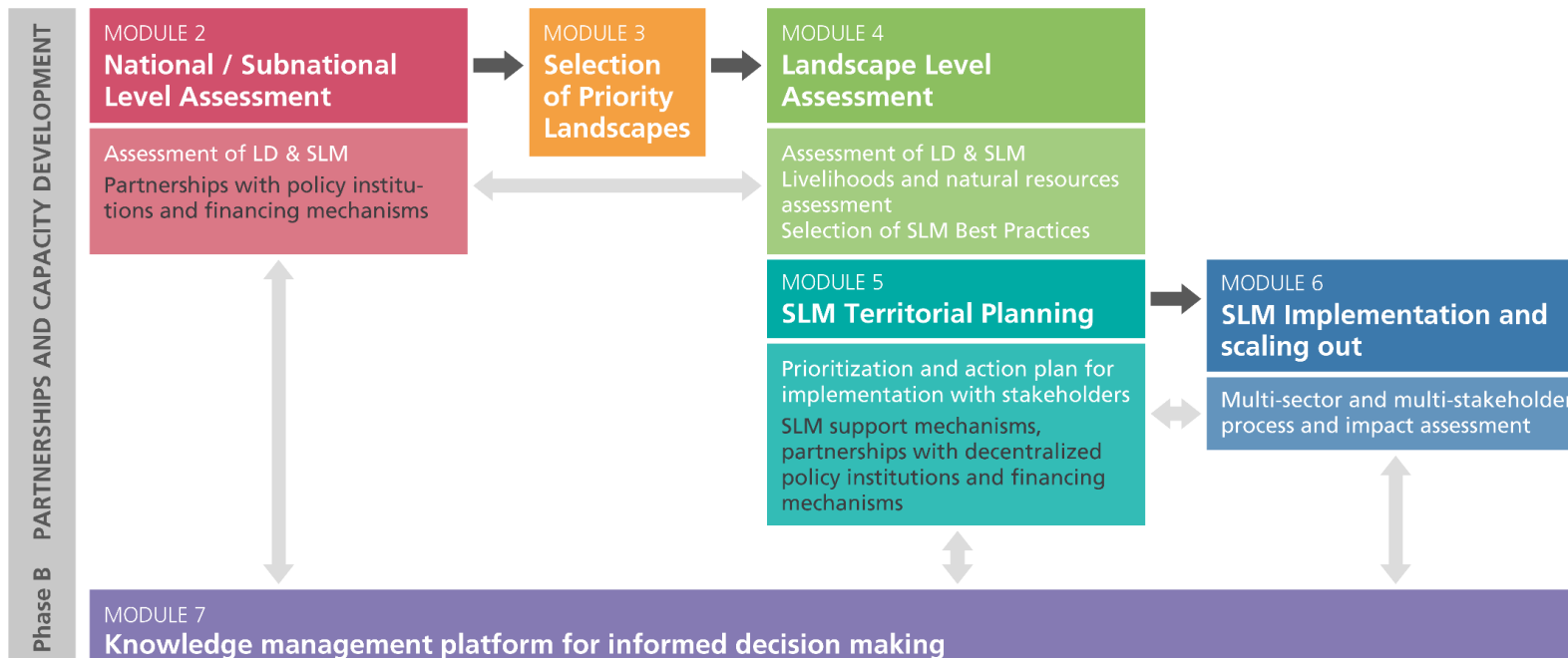


Decision Support Framework for SLM mainstreaming and scaling out

MODULE 1

Operational Strategy and Action Plan for mainstreaming and scaling out SLM

Phase A REVIEW AND INITIAL STRATEGY AND ACTION PLAN



Phase C SCALING OUT THROUGH POLICIES, TERRITORIAL STRATEGIES, INCENTIVES, FINANCING MECHANISMS



Module 2: LD & SLM Assessment at National / Subnational

MODULE 1

Operational Strategy and Action Plan for mainstreaming and scaling out SLM

Phase A REVIEW AND INITIAL STRATEGY AND ACTION PLAN

Phase B PARTNERSHIPS AND CAPACITY DEVELOPMENT

Phase C SCALING OUT

MODULE 2
National / Subnational Level Assessment

Assessment of LD & SLM
Partnerships with policy institutions and financing mechanisms

MODULE 3
Selection of Priority Landscapes

MODULE 4
Landscape Level Assessment

Assessment of LD & SLM
Livelihoods and natural resources assessment
Selection of SLM Best Practices

MODULE 5
SLM Territorial Planning

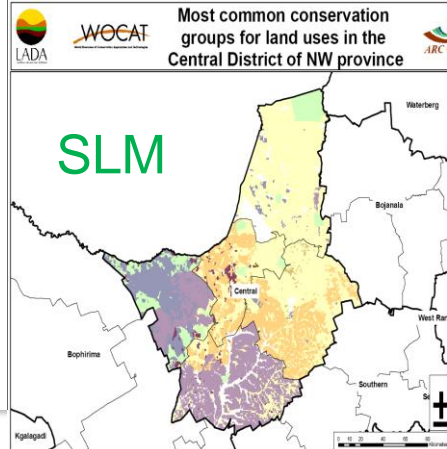
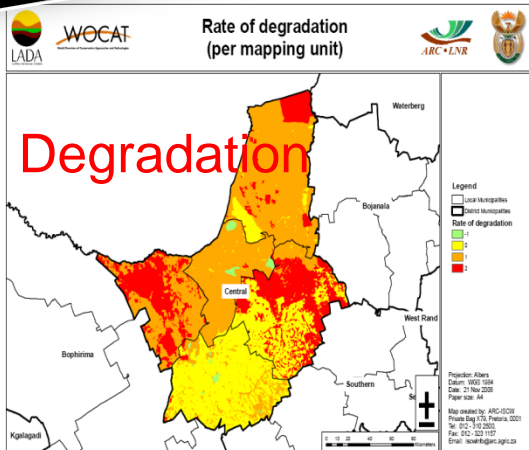
Prioritization and action plan for implementation with stakeholders
SLM support mechanisms, partnerships with decentralized institutions and financing mechanisms



MODULE 6
SLM Implementation and scaling out

Multi-sector and multi-stakeholder process and impact assessment

LADA/WOCAT Mapping Tool (QM)



Where to invest?
 hot spots
 bright spots
 ... and their impacts



Module 3: Selection of Priority Landscapes

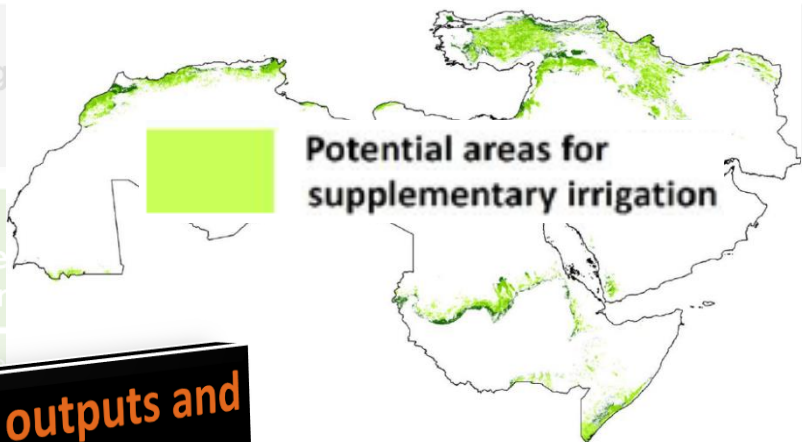
MODULE 1
Operational Strategy and Action Plan for mainstreaming and scaling

Phase A REVIEW AND INITIAL STRATEGY AND ACTION PLAN

MODULE 2
National / Subnational
Level Assessment

**MODULE 3
Selection of Priority
Landscapes**

MODULE 4
Landscape
Assessment



Define key national expert criteria



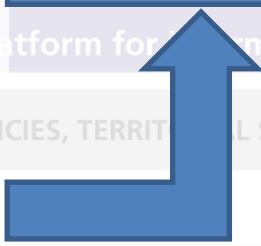
Identify data and execute analysis



Similarity maps at national level



LADA/WOCAT QM outputs



**LADA/WOCAT QM outputs and
Similarity Analysis**

**Decision-support to
target selected
priority landscapes
for SLM
implementation**

Territorial Planning
Prioritization and action plan for implementation with stakeholders
SLM support mechanisms,
partner
policy i
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MODULE 6
SLM Implementation and scaling out
Multi-sector and multi-stakeholder process and impact assessment

Phase C SCALING OUT THROUGH POLICIES, TERRITORY STRATEGIES, IN



Module 4: Landscape level Assessment

MODULE 1

Operational Strategy and Action Plan for mainstreaming and scaling out SLM

Phase A REVIEW AND INITIAL STRATEGY AND ACTION PLAN

CITY DEVELOPMENT

MODULE 2
National / Subnational Level Assessment

Assessment of LD & SLM
Partnerships with policy institu-

MODULE 3
Selection of Priority Landscapes

MODULE 4
Landscape Level Assessment

Assessment of LD & SLM
Livelihoods and natural resources assessment
Selection of SLM Best Practices



LADA/WOCAT tools at **LOCAL** level (landscape) to assess LD and SLM for different LUS

LADA tools LOCAL LEVEL & QT/QA

Prioritization of areas/communities For Implementation

Selection of SLM Best Practices from WOCAT (QT/QA)





Module 5: SLM Territorial Planning

MODULE 1

Local knowledge, LADA assessment and WOCAT database to identify SLM options **LOCAL LEVEL**

Suitability Analysis

Participatory Negotiated Territorial Development and Land Use Planning (PNTD/PLUP)

Community Participation

Community-based participatory selection of SLM options for Implementation

Participatory and Negotiated Territorial Development

MODULE 5
SLM Territorial Planning
 Prioritization and action plan for implementation with stakeholders
 SLM support mechanisms, partnerships with decentralized policy institutions and financing mechanisms

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National capacity on DS tools:
**LADA LOCAL, QM, WOCAT
QT/QA, PNTD & PLUP**

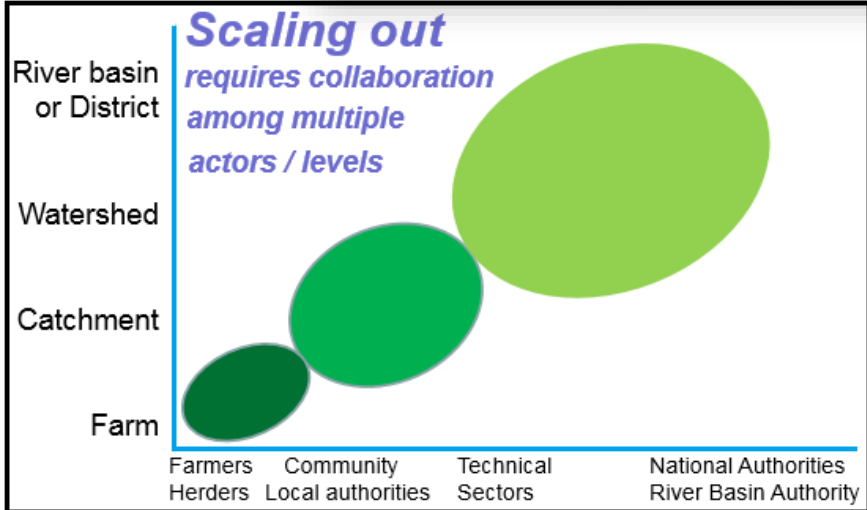


Integrate DS tools at National Level: **Multi-Sector; Multi-Stakeholder; Impact Assessment process**

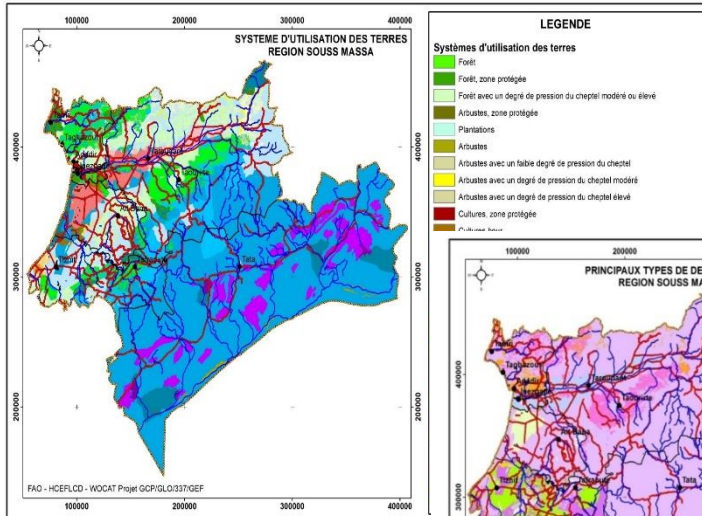
SLM Scaling Out using the DS TOOLS

MODULE 6
SLM Implementation and scaling out
Multi-sector and multi-stakeholder process and impact assessment

SLM Implementation Scaling Out, and Mainstreaming

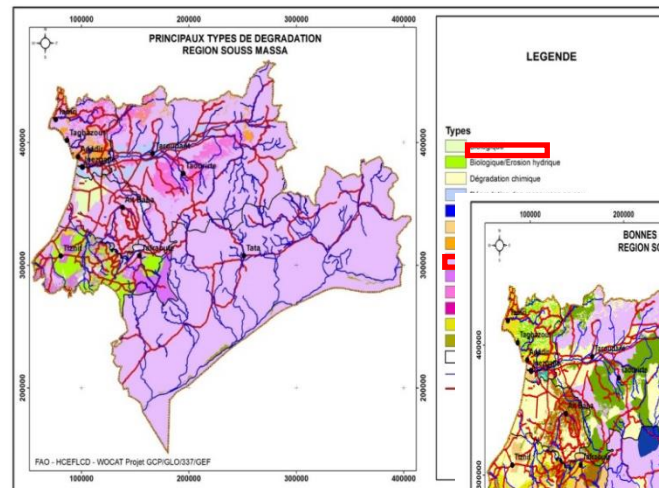


Land Use Systems

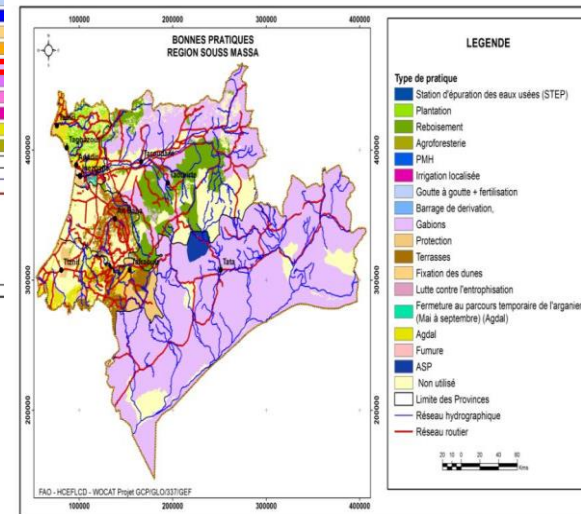


Assessment of land degradation and sustainable land management at sub-national and local level

Main types of degradation



SLM practices





Objectives of the assessment at Local Level

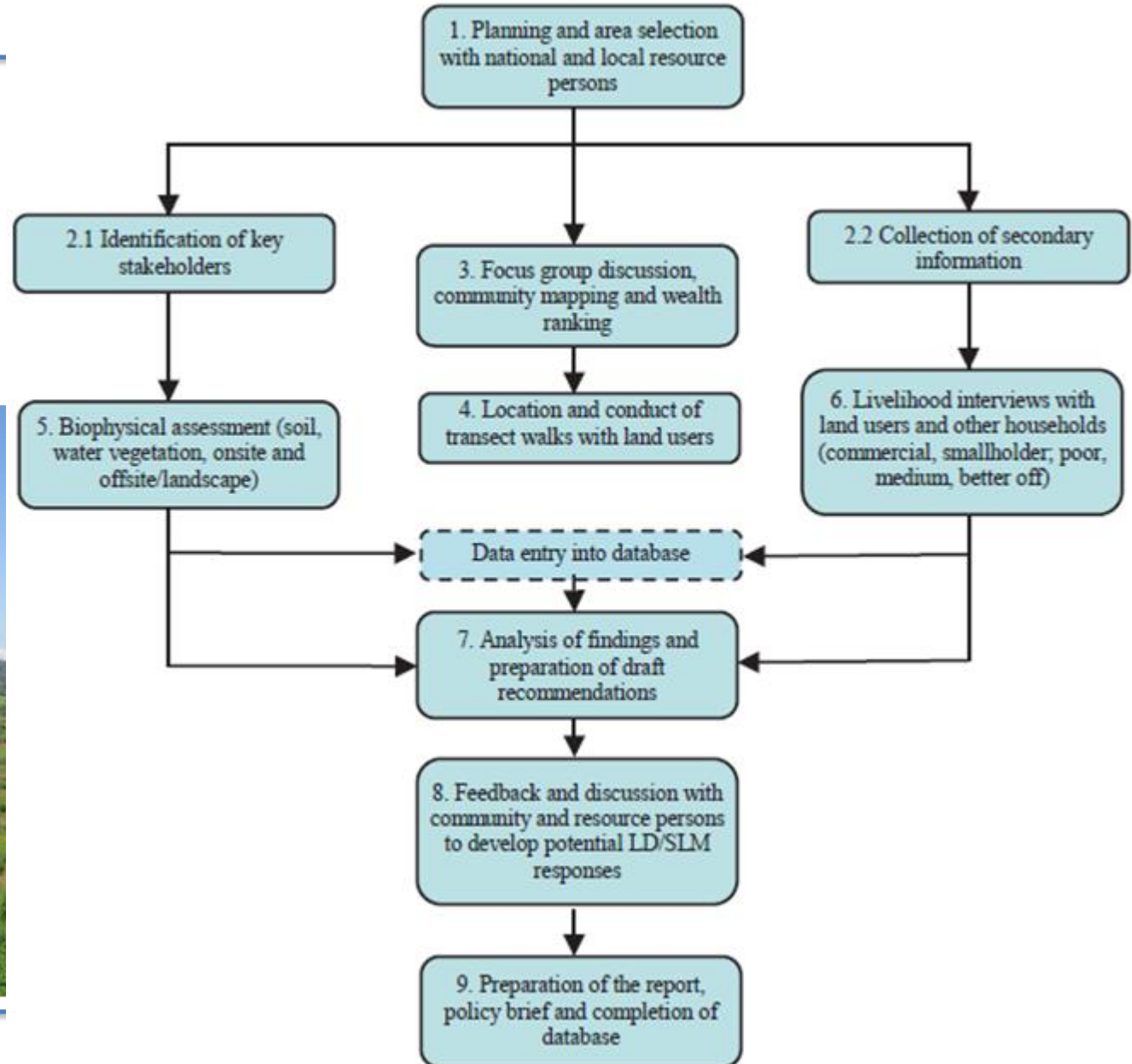
1. Improved **knowledge and understanding**
(→ baseline for monitoring):
 - ❖ on **LD status and trends**, driving forces and impacts on land resources/ecosystems and on livelihoods
 - ❖ on **effects of land use/management practices** of different land users (nature, extent, effectiveness, constraints)
 2. Analysis **effectiveness of SLM interventions** and identification of SLM measures for scaling up and improved SLM design and planning
-



- Participatory stakeholder process
- Integrated: biophysical & socio-economic
- Sampling strategy, tools & methods (simple & robust; comparisons)
- Status & trends NR (degradation, conservation, restoration)
- Analyze impacts of LD & land use/management on livelihoods & ecosystem services
- Structured report & feedback for decision making

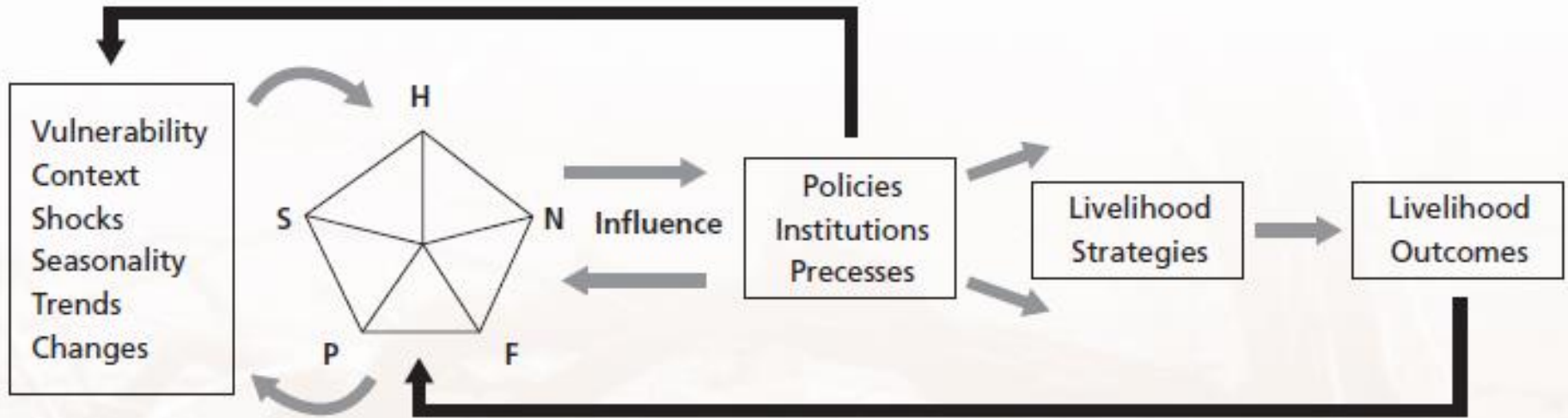


Methodological Steps





Assessment of impacts on livelihoods



Key

H = Human capital N = Natural capital F = Financial capital S = Social capital P = Physical capital

FIGURE 2 The Basic Livelihoods Framework (Source: Ade Freeman, Ellis & Allison, 2004)





Multidisciplinary Team

Ideally the **team members** should have expertise in:

- **Soil science** and **agronomy**
- **Water** resources management
- **Animal production** (settled/ pastoral systems, livestock, wildlife, etc.)
- **Social sciences** (and tenure, laws, gender, etc.)
- agricultural **economics** (costs & benefits, tradeoffs)
- **Ecology** (vegetation, forest, rangeland management)



Socio-economic assessment: at least one person with experience of **participatory rural appraisal** (PRA) tools such as focus group discussions, community/territory mapping, organizational analysis, household interviews

Local experts from the local assessment area; if not possible (e.g. lack of capacity or training in the assessment methods), the assessment team should be guided and supported by local representatives, technical staff from the district/provincial offices or relevant projects on the ground.

Sampling strategy

Linkage between the local and the national level

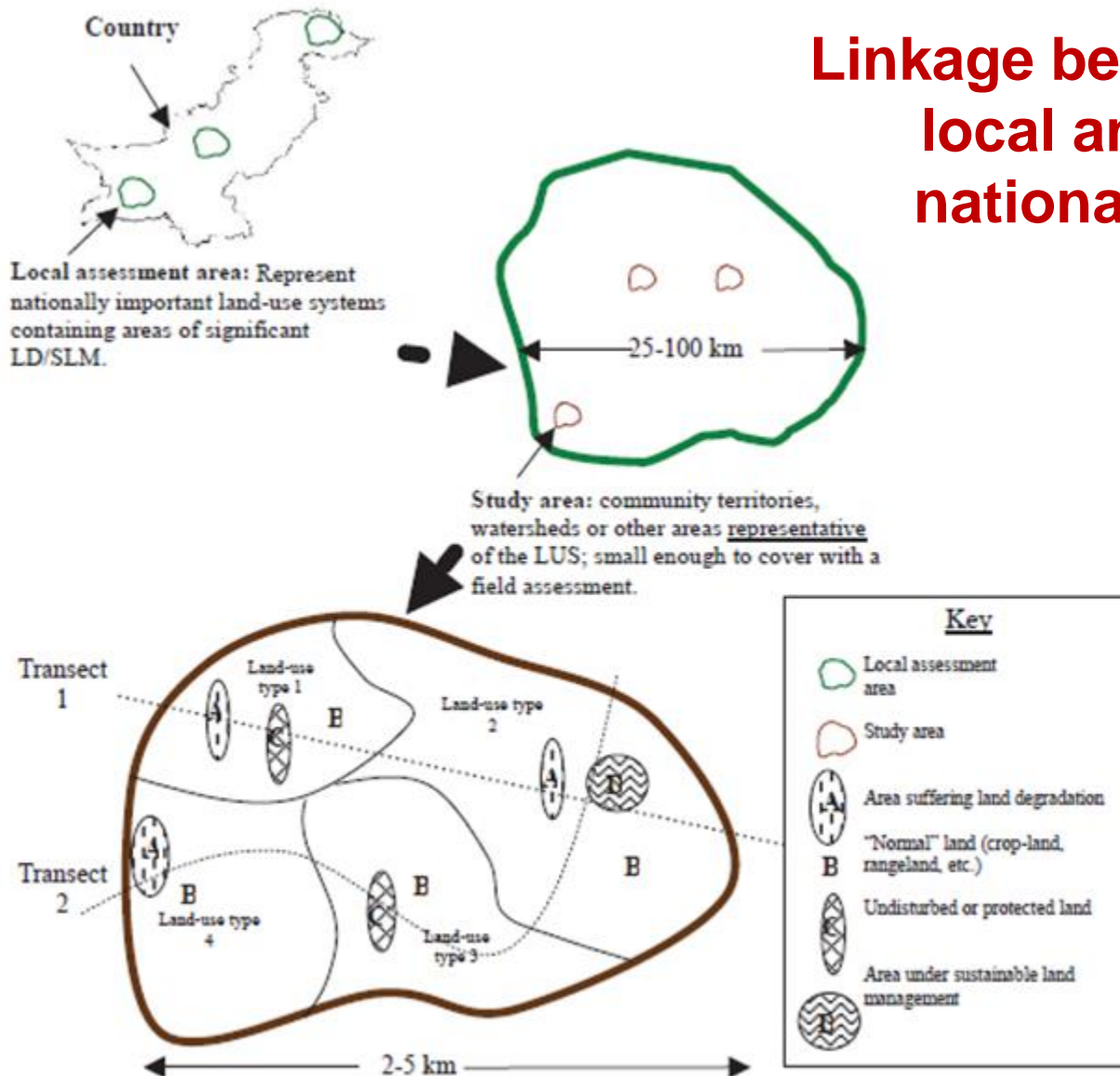


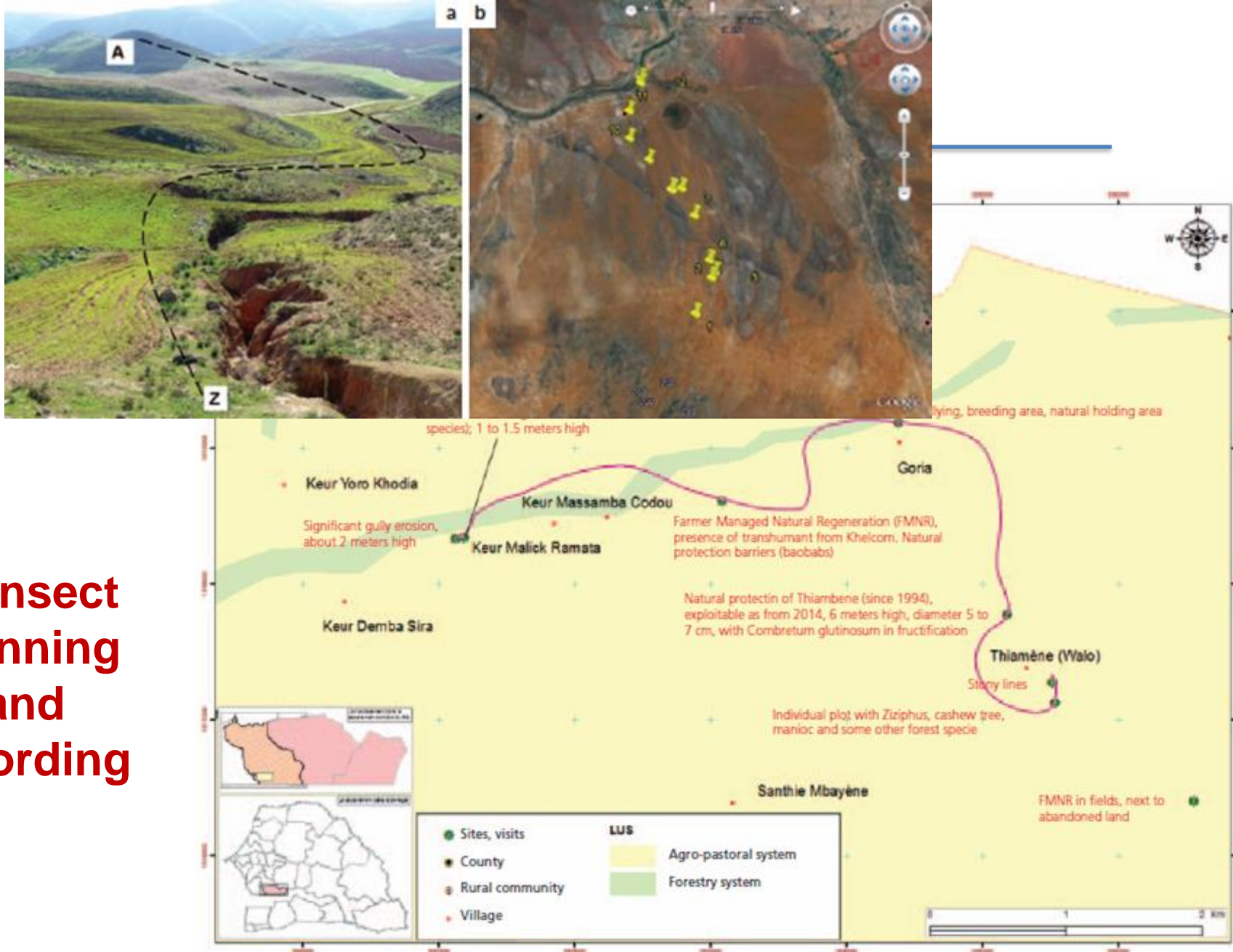
TABLE 6 List of secondary information for collection and review

Categories	Contents
Maps, satellite images and photos	<ul style="list-style-type: none"> • Maps: administrative boundaries, soil, terrain, land-use, vegetation, watersheds, agro-ecological zones, land use systems (LUS), roads etc • Aerial photographs • Time series satellite images (SPOT-NDVI) • Land use and water resources plans
Climatic (including natural disasters) and meteorological records	<ul style="list-style-type: none"> • Rainfall amounts and variability; temperature; humidity • Trends in rainfall and temperature over recent decades • Incidence and impacts of drought and flooding etc. • Information and studies on the impacts of climate change including likely future impacts on water resources <p>(Sources: National Meteorological Office, projects, IPCC 2007 reports)</p>
Human Population	<ul style="list-style-type: none"> • Total population and recent trend(s); age, gender and ethnic minority distribution • Household and family composition information • Employment by sector; labour force; migration information; settlement patterns etc. • Poverty and food security etc.
Land use types	<ul style="list-style-type: none"> • Size of land use types in the local assessment area and community territory; farm land and protected areas • Areas and proportions under different land use types (including forest and protected areas) • Land cover and land resources surveys, etc.
Farming system information	<ul style="list-style-type: none"> • Existing agricultural plans, programmes and projects • Crop and livestock and forestry systems information • Presence & extent of local and introduced practices for land management / land degradation control • Information on livestock numbers, distribution, ownership, actual and recommended stocking densities, management
Water resources	<ul style="list-style-type: none"> • Water resources records over the last decade (Sources: water boards / authorities) to show <ul style="list-style-type: none"> - water flow regimes in rivers - water storage capacity and water reservoirs - sedimentation load / rates • Incidence of water borne diseases in sector and water authorities) etc.
Economy and livelihood	<ul style="list-style-type: none"> • Household income information; contribution from farming and other • Household consumption information • Poverty and food security profiles (poverty line, % of food insecure, malnutrition, etc.) • Credit / loan availability, etc.
Land Tenure	<ul style="list-style-type: none"> • Information on land-holdings: owner • Type and prevalence of renting/lease • Legal status of holdings (civil, cooperatives, etc.)
	<ul style="list-style-type: none"> • Institutions, policies, regulations, byelaws <ul style="list-style-type: none"> • Relating to land, agriculture, livestock, water resource, environment, rural development, technical sectors, extension • Relating to implementation of the multilateral environmental conventions (UNCCD, UNCBD, UNFCCC, Ramsar, etc.) • Access to services ((official/informal), private / public sector), application / effectiveness of regulations / policies, mandates / capacities of actors, etc. • Presence, roles and activity of NGOs, community based organisations in their implementation, etc. • Basic infrastructure and investments <ul style="list-style-type: none"> • Road and market access; input supply • Schools; health centres; • Water points (wells, boreholes, piped / tap water); • Irrigation systems; reservoirs; • Planning reports and other relevant documents <ul style="list-style-type: none"> • Land use planning; water resources planning; agriculture and forest management plans; livestock / environmental management; etc.

Characterisation of the study area



FIGURE 2 Community territory map drawn by Diagalay community, Barkedji, Senegal



Transect planning and recording

Image showing a transect walk cutting across two land use types and indicating detailed assessment sites in Senegal

Results documented and presented in standardized WOCAT format



Small-scale conservation tillage

Kenya - C-0011 / Kijalje hills

Ripping of soil using oxen-drawn implements, to improve water storage capacity and crop yield productivity on small-scale farms.

Location: Kenya
 Location: Kenya is characterized by a semi-arid to arid climate. High altitude and rolling terrain. Most of the soil and water loss occur during a few heavy storms at the beginning of each growing season. More than 90% of farmers have under two hectares of land, and few have alternative sources of income. The type of conservation agriculture described in this case study involves the use of ox-drawn straight, modified to suit the soil. Ripping is performed in one pass, to a depth of 10 cm, after rain. Spacing between the lines is 20 cm on the line of ripper. Deep ripping is followed with the same implement to do, when necessary, to break a group pan and reaches depth of up to 30 cm. An adaptation to the ordinary straight line system is called "V-tillage". V-tillage straight lines are adjusted to different depths across and turns it into a ripper for surface and deeper ripping.

The aim of ripping is to increase water infiltration and reduce runoff. In contrast to conventional tillage, the soil will be worked, but leaving a surface amount of crop residue on the surface. As a result, the soil is less exposed and not so vulnerable to the impact of wind and water erosion, and water loss through evaporation and runoff. In addition, there are savings in terms of energy used for cultivation, as ox-drawn tools, instead of tractors, are used for the ripping process. Soil is tilled within the rooting zone, and is therefore available to the crop during subsequent drought spells. Ripping of the soil during the dry season contributes with a much lower residue penetration of weeds, leaving fields ready for planting in the first months of the rainy season. Ripping is also used for soil conservation purposes, as additional implements such as a soil harrow, roller, or a small-scale conservation tillage can be more than 40% higher than other conventional practices. An additional important benefit is that ripper reduces soil erosion in conservation agriculture, because they can plant earlier in the rainy season (the farmer has to wait for the soil to become moist before planting). Earlier crop maturity means access to markets when prices are still high.

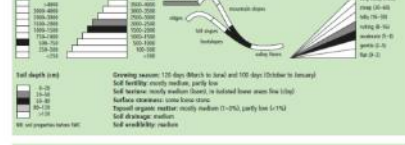
There are various supportive technologies in use which can improve the effectiveness of the ripper. These include: (1) use of composture to improve structure for better water storage; (2) use of a cover crop like legume ground cover and/or mulch to protect soil from erosion; (3) use of a cover crop like legume ground cover and/or mulch to protect soil from erosion; (4) use of a cover crop like legume ground cover and/or mulch to protect soil from erosion; (5) use of a cover crop like legume ground cover and/or mulch to protect soil from erosion.

IRC Technology: Small-scale conservation tillage, Kenya - WOCAT 2007

Classification	Land use problems	Land use	Climate	Production	IRC measures
	<ul style="list-style-type: none"> Loss of rainwater through runoff and direct evaporation from soil surface Runoff causing surface erosion Fertility decline due to erosion and nutrient mining 				

Technical description:
 - Source of information: secondary - case
 - Production: primary production, but no industrial production
 - Irrigation: no
 - Fertilizer: no
 - Pesticides: no
 - Other: no

Environment:
 Natural environment
 Average annual rainfall (mm): 1000-1500
 Altitude (m a.s.l.): 1000-1500
 Landform: rolling hills
 Slope (%): 10-20



Human environment	Created by	Land use rights	Land ownership	Market orientation	Soil fertility
Created by: Traditional farmers, NGOs, etc.	Land use rights: mostly individual, partly leased	Land ownership: individual	Market orientation: mostly subsistence, partly semi-subsistence and commercial, mainly urban to rural supply	Soil fertility: low	Soil fertility: low

WOCAT 2007 - where the land is green



Implementation activities, inputs and costs

Establishment activities	Establishment inputs and costs per ha	% soil by farm
1. Spreading of one wheel on each up to 2 before planting, by hand	Cost: 0.00	0%
2. Spreading of compost/chemical waste up to 4 t/ha	Cost: 10.00	10%
3. Ripping of soil with modified plough (by oxen)	Cost: 10.00	10%
4. Spreading of one wheel on each up to 2 before planting, by hand	Cost: 0.00	0%
5. Seeding and application of organic fertilizer (straw, pig manure) at the rate of 10 t/ha, by hand	Cost: 10.00	10%
6. Spreading of one wheel on each up to 2 before planting, by hand	Cost: 0.00	0%
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100. Spreading of one wheel on each up to 2 before planting, by hand	Cost: 0.00	0%

Maintenance/monitoring activities	Maintenance/monitoring inputs and costs per ha per year	% soil by farm
1. Spreading of one wheel on each up to 2 before planting, by hand	Cost: 0.00	0%
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Analysis and Reporting

The proposed structure of the local assessment report is as follows:

- ✘ Introduction of the Assessment
 - ✘ Methodology
 - ✘ Characterization of the Study Area

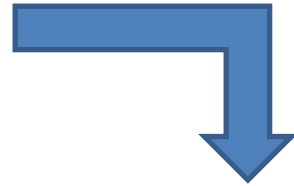
 - ✘ State of the Land Resources (and trends)
 - ✘ Driving Forces & Pressures
 - ✘ Impacts on Ecosystem Services
 - ✘ Impacts on People and their Livelihoods
 - ✘ Responses
 - ✘ Conclusions and Policy Recommendations
-

LD assessment and SLM practices to combat LD

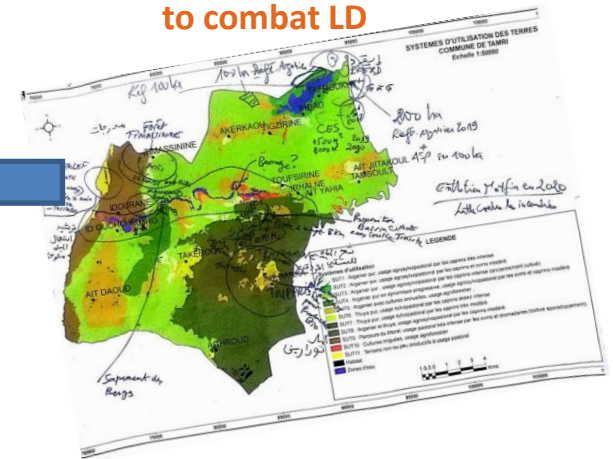
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BONNE PRATIQUE - UNITÉ	% Activités Responsables	PARTENAIRES
CONFESSION	100% Activités Responsables	ADL / PNUD
Site contre la Sècheresse	100% Activités Responsables	Economie C/CAWZ/PNUD
TERRASSES	100% Activités Responsables	Collectivité Territoriale ADL/CR/CF
CORDONS PIERRES SECHES	100% Activités Responsables	ADL/Parties
Plantation d'arbres	100% Activités Responsables	ADL CT
Construction de terrasses	100% Activités Responsables	CT/ADL

Negotiation process



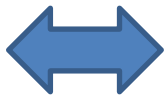
Participatory identification of communities' SLM priorities to combat LD



Support from decision makers through the Sustainable Food and Agriculture multi-stakeholders Dialogue

TERRITORIAL DEVELOPPEMENT PACT

Implementation





Conclusions



- **Improve knowledge** on **status and trends** of land degradation and improvement (including biodiversity and climate change interrelations)
- Assist countries in
 - **monitoring and reporting progress** in implementation LDN
 - assessing the **effectiveness of interventions**,
 - **prioritizing actions** and **targeting investments**
- Guide decision making on **where to invest** in prevention, mitigation, adaptation and restoration