Integration of biodiversity conservation and sustainable use, ecosystem restoration and sustainable land management in EbA in the contexts of Rio Conventions: UNCCD perspective
Outline

- Mandate
- Why adaptation? Impacts on drylands
- The 10-year Strategy: objectives and reporting process
- How to adapt? SLM
- Land rehabilitation and restoration
- Take home messages
• General Objective
<< ...To combat desertification and mitigate the effects of drought in countries experiencing serious drought and/or desertification, particularly in Africa >>
<< ...Through effective action at all levels, supported by international cooperation and partnership arrangements in the framework of an integrated approach consistent with Agenda 21 with a view achieving sustainable development...>>
Drought potential worldwide 2000-2098

The UNCCD ten-year Strategy

The Strategic Objectives

To improve the Livelihood of Affected Populations

To improve the Conditions of affected Ecosystems

To generate Global Benefits

To mobilize resources through building effective partnerships between all stakeholders
SLM: a key element to implement the UNCCD

Improve livelihood affected population: biomass and raw material production
Cultural services

Conditions of affected ecosystems: primary production water and nutrient cycling

Food security

Sustainable Land Management

Environmental Global Benefits: carbon stock and biodiversity pools

Climate change mitigation and adaptation
Biodiversity preservation

Land degradation
Desertification
<table>
<thead>
<tr>
<th>Ecosystem services</th>
<th>SLM helps to:</th>
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<tr>
<td>Provisioning service</td>
<td>Increase food security, primarily from smallholder farmers</td>
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<td>Provide local energy</td>
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<td>Provide local fresh and clean water</td>
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<td>Regulating and supporting services</td>
<td>Soil development and nutrient cycling</td>
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<td>• Mitigate soil degradation</td>
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<td>• Increase soil moisture</td>
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<td>• Enhance primary production</td>
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<td>• Preserve biodiversity at farm level</td>
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<td>Soil C sequestration</td>
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<td>• Reconstitute carbon pools in soil and vegetation cover</td>
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<td>• Reduce CO2 emissions</td>
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<td>Water regulation</td>
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<td>• Preserve soil moisture</td>
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<td>• Regulate water cycle at watershed level</td>
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<td>Cultural and social services</td>
<td>Keep alive natural and cultural landscapes</td>
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<td>Valorize indigenous knowledge and production methods</td>
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</tbody>
</table>

Source: Benefits of sustainable land management - WOCAT, UNCCD
Galma, Niger Republic in 1975 and 2003
20 million has in 20 yr
Additional 500,000 ton grain/year. The requirements of 2.5 million people

Tony Rinaudo. World Vision Australia
NAPs

- Reduced carbon sequestration into above- and below-ground carbon reserves
- Increase in extreme events (foods, droughts, fires...)
- Loss of nutrients and soil moisture

Climate change

- Decreased plant and soil organisms’ species diversity
- Reduced soil conservation
- Reduced structural diversity of vegetation cover and diversity of microbial species in soil crust

Biodiversity loss

NAPAS

NBSAP
Take home messages

- Land degradation control is seen formally as part of drive to achieving global development goals and achieving sustainable environment
- Adaptation need to take place synonymously with sustainable development to help reduce vulnerability in order for it to be successful
- Effective adaptation need to be complementary across scales (local-national) as well as synergetic across policy (climate change, DLDD and biodiversity)
- New approaches is needed that focuses on the synergies and interlinkages among global environmental change components.
- The rhetoric and conceptual framework need to be translated into actions.
Thank you

Healthy soil sustains your life
LET’S GO LAND-DEGRADATION NEUTRAL

www.unccd.int
17 June 2012 World Day to Combat Desertification