

CBD

# Sustainable Land Management

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The Problem:

Land Degradation

# Menaces

## Dégradation des terres:

- La désertification et la perte de végétation associée cause une **perte de biodiversité**
- Réduit la capacité des sols à retenir l'humidité – ↓ productivité des plantes
- Augmente l'érosion des sols – ↓ fertilité des sols



- Over 2,000 species are known to be threatened or endangered in dry and sub-humid lands
- At least 15 dry and sub-humid lands species have disappeared entirely from the wild
- Between 6 and 12 million square kilometers of dry and sub-humid lands are affected by desertification



# Drylands are Particularly Vulnerable

- In grasslands, the proportion of threatened mammals may increase by 10 - 40% between 2050 and 2080.
- In the Succulent Karoo region, 2,800 plant species face potential extinction if temperatures increase  $1.5^{\circ}\text{C}$  to  $2.7^{\circ}\text{C}$ .





# The Solution

## Sustainable Land Management

# Synergie entre CDB et CLD

## Conservation de la Biodiversité:

- La conservation des écosystèmes est essentielle à la **conservation des sols** et à la **régulation de l'eau de surface** et du **climat local**
- La biodiversité contribue à bon nombre des **services** que les écosystèmes des zones sèches procurent aux humains

## Lutte contre la Désertification:

- Lutter contre la désertification en appliquant une gestion des terres durable peut avoir des impacts positifs majeurs sur la diversité des sols.



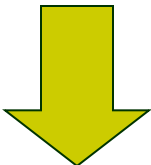
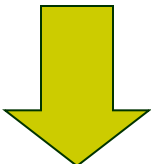
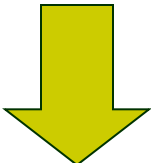


# Solution 1: Ecosystem Restoration

“activities that transform a degraded ecosystem into an ecosystem that is less disturbed and better able to provide ecosystem services”

- reducing pressure and allowing ecosystems to naturally recover
- undertaking movement-related activities such as replacing lost ecosystem services with temporary artificial alternatives
- the re-introduction of lost species

# Expected Results

|                                 |                                                                                     |                                        |
|---------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|
| Ecosystem Services              |    | Physical processes restored            |
| Biodiversity Loss               |    | Habitat degradation decreased          |
| Land Degradation                |    | Productivity restored                  |
| Carbon Emissions                |   | Increased soil and biomass stocks      |
| Vulnerability to Climate Change |  | Functional ecosystem services restored |

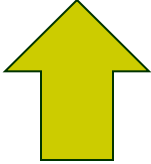
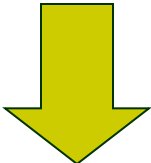


# Solution 2: Improved Protected Areas Management

“effectively managed networks of protected area systems that ensure both the representation and persistence of biodiversity ”

- ensuring that major ecological gradients, corridors and refuges are incorporated
- capacity building and awareness raising concerning management under conditions of increased risk
- the recognition and involvement of all forms of governance including the role of indigenous peoples and local communities

# Expected Results

|                                 |                                                                                     |                                                             |
|---------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Ecosystem Services              |    | Physical processes protected                                |
| Biodiversity Loss               |    | Habitat and species protected                               |
| Land Degradation                |    | Protection of vegetative cover                              |
| Carbon Emissions                |   | Protection of soil and biomass stocks                       |
| Vulnerability to Climate Change |  | Climate refuge established and ecosystem services protected |



# Maximizing Co-benefits

A close-up photograph of a pair of hands, likely belonging to a woman, gently cupping a small green plant. The plant has several bright green leaves and a single, small, pink flower bud at the top. It is growing out of a mound of dark, rich soil. The hands are positioned around the base of the plant, with fingers visible, suggesting a careful and nurturing gesture. The background is blurred, focusing attention on the plant and hands.



# Establishing a Baseline

- Ensure an adequate knowledge base regarding status and trends
- Consider available models and predictions of future trends
- Conduct risk and vulnerability assessments
- Assess natural adaptive capacity



# Make Use of Existing Tools

- Apply the Ecosystem Approach
- Conduct relevant EIA and SEAs
- Consider existing legislation and incentive measures
- Integrate traditional knowledge, innovations and practices



# Economic Valuation

- Ensure that the value of all ecosystem services are considered when assessing trade-offs
  - consider economic (market and non-market) and non-economic values
  - implement appropriate pricing policies for natural resources
  - consider cultural, social, economic and biophysical factors



# Prioritizing Actions

- Select sites with high biodiversity value or sites under threat from desertification when implementing climate change mitigation activities
- Involve indigenous peoples and local communities in the prioritization of activities



# Adaptive Management

- Develop appropriate monitoring and evaluation frameworks (assess all benefits)
- Mainstream into relevant strategies and plans
- Build awareness of objectives and results



# **Encore beaucoup de points d'interrogation**

- Avons-nous les ressources humaines et financières nécessaires?
- Avons-nous des données de base ou de référence?
- Sommes-nous conscients de l'importance de tels travaux?
- Disposons-nous de données suffisantes pour développer ou adapter les scénarios dont les décideurs à tous les niveaux ont besoin?
- Sommes-nous en mesure de sensibiliser ceux qui doivent l'être?