

Land Regeneration

Reflections on Achieving Zero Net Land Degradation

Dennis Garrity

UNCCD Drylands Ambassador



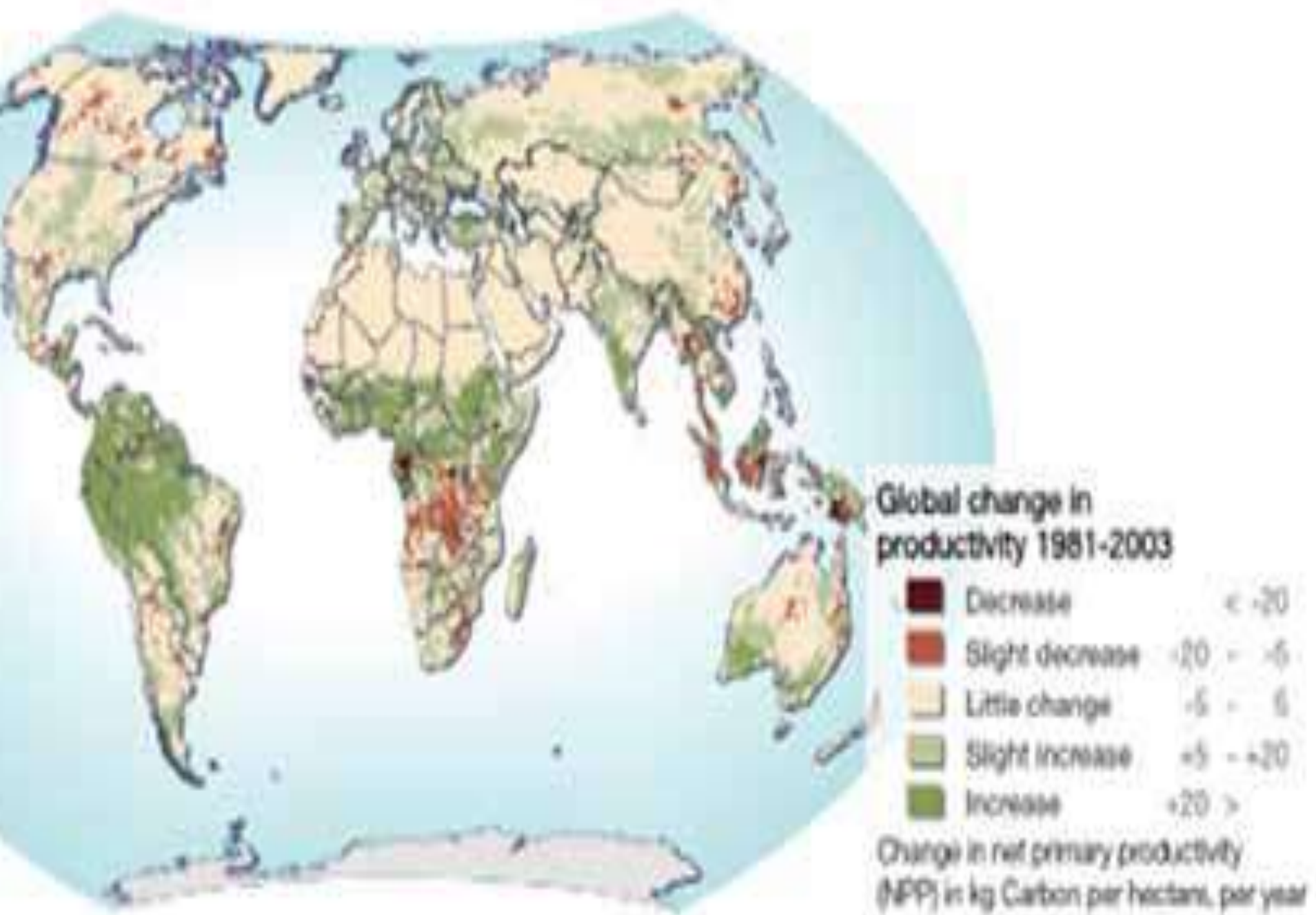
Zero Net Land Degradation

Classify all land into three categories:

- Degrading**
- Regenerating**
- Stable**

Monitor land degradation and regeneration in terms of biomass production.

Calculate the ratio: Regenerating/Degrading
The target is a ratio exceeding 1.0



Zero Net Land Degradation

44% of the world's cultivated ecosystems are accounted for by drylands.

- Degradation is occurring on 20% of drylands**
- Regeneration has occurred on 16% between 1981 and 2003.**

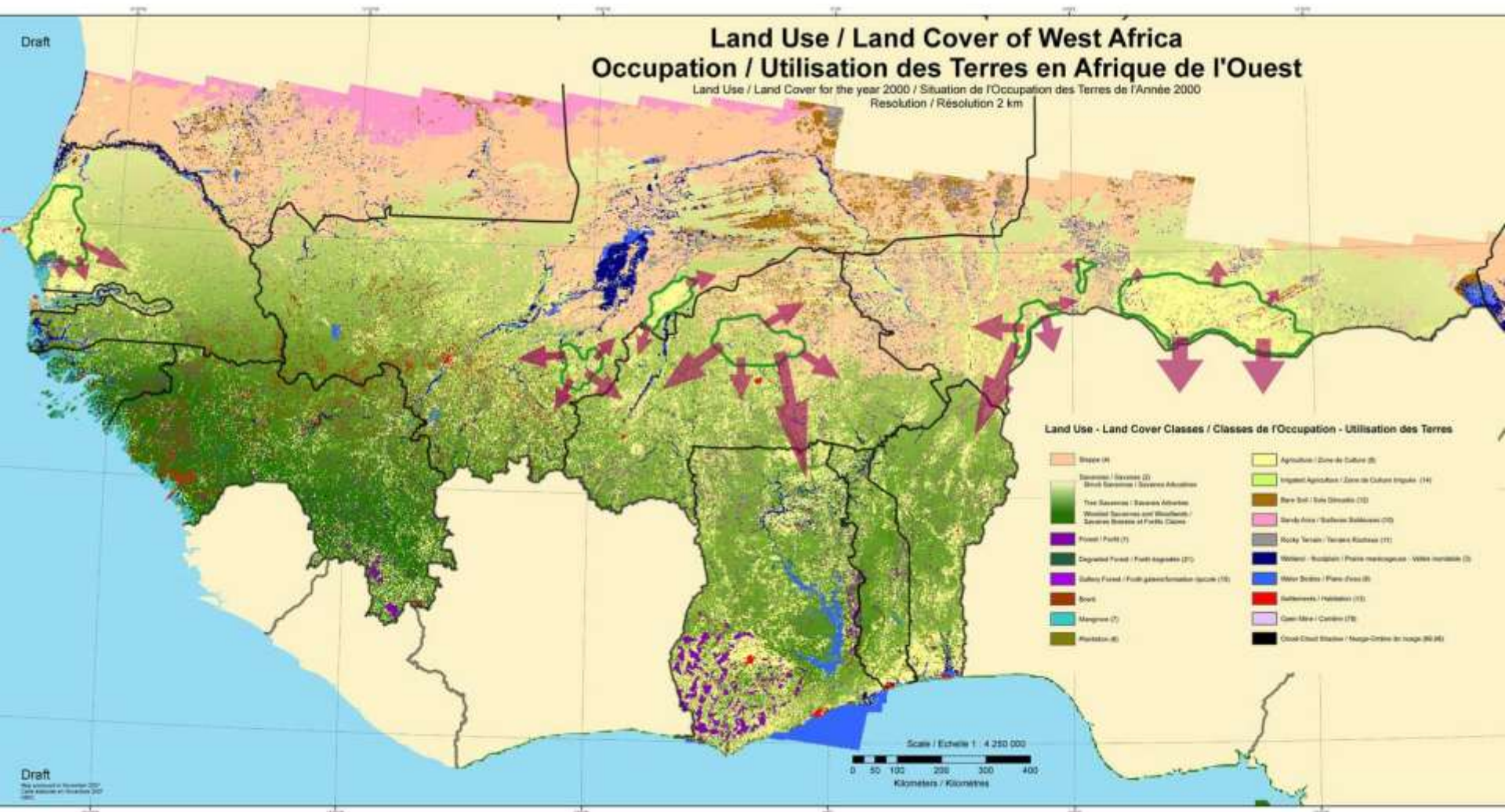
**Millions of farm families in the Sahel are
attacking land degradation by regenerating
medium-to-high densities of highly useful trees
on their crop lands**

5 m ha of parklands dominated by Faidherbia in Niger



Expansion of agroforestry parklands in W Africa

A basis for a new vision of regreening the Sahel



Take home messages

- **A fresh low-cost approach** to land regeneration and food security has taken root in Africa, and is spreading across the tropics.
- **Millions of smallholders** are adopting effective land regeneration methods
- **Poor households should be targeted** over large areas to end hunger in the drylands
- **Many nations are creating the policy and institutional environments** to favor adoption
- **We can achieve Zero Net Land Degradation** by accelerating widespread land regeneration for the food security of the ultrapoor.

Faidherbia albida is commonly found in cereal crop systems in Ethiopia



Kenyan Farmlands: Bold policy to achieve >10% tree cover on farms through a National Evergreen Agriculture Programme



What are the Pathways to Achieve the Vision?

Support local communities to adopt and adapt agroforestry systems suitable to their specific circumstances through:

- **National awareness campaigns**
- **Cross-visits among communities**
- **Advisory support to communities**
- **Create Rural Resource Centres that propagate high-value trees to enrich their agroforests**
- **Policy support that encourages these initiatives**

Climate-Smart Agriculture

Africa: A Call
to Action



agriculture,
forestry & fisheries
Department of Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA



African Union
United with Diversity



CLIMATE
CHANGE
AGRICULTURE AND
FOOD SECURITY



LIFAD
Enabling poor rural people
to overcome poverty



PROFOR



UNEP



THE WORLD BANK



World Bank
Institute



wfp.org

The Next Phase

Accelerate the ongoing national scaling-up programmes in Malawi, Zambia, Burkina Faso and Niger

National Agroforestry Food Security Programmes being developed for India, Senegal, Ethiopia, Rwanda, and Kenya

Preparatory work for new programmes under way in Tanzania, Mali, and 12 other countries