

Filling the Resilience Gap: The Ecosystem Dimension in Food Security Strategy and Policy

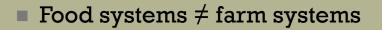
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- Democratic membership organization: 91 states, 127 government agencies, 107 INGOs and 900 NGOs
- New category Indigenous Peoples Organization
- Supported by 11 000 experts in 6 commissions and secretariat of 1000, who work in 160 countries.
- Mission: A just world that conserves nature
- Focus: sustainability, resilience, security of people and nature
- Programme: Natural solutions to development challenges. Including food security.

The Context

工作公司的任何不能



- Food security > availability.
- Access, utilization & stability matter
- Growing urbanization BUT 80% of food insecure are rural people
 50% are smallholders
 2/3 are women and children
- Demand for ecosystem services growing:
 - 9 billion people by 2050
 - 50% increase in water use by 2030
- 95% of agriculture in sub-Saharan Africa and 60% in India is under rainfed

Ecosystem Contribution Tenure, discrim • Farm productivity Conservation & Dev Pasture & Fodder Poor Connectivity **AVATLABILT** Food • Poverty Conflict Pollution • Water purification • Soil quality • Biodiversity: Edible plants, + 1 bushmeat, fish Biodiversity wild pollinators • climate regulation disease regulation Grasslands, forest for grazing & fodder

ECOSYSTEM CONTRIBUTION

ACCESS

- Income from
- diverse livelihoods
- Price stability
- Supplementary
 - foods

Inequity
weak tenure; use rights
Poor policy
Connectivity

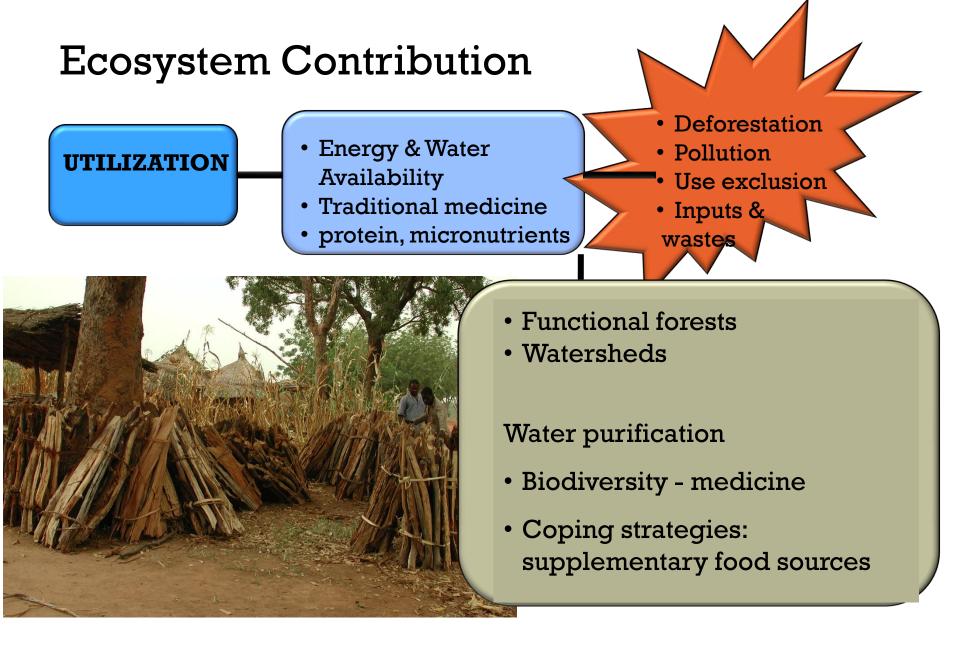


• Intact, sustainably managed ecosystems

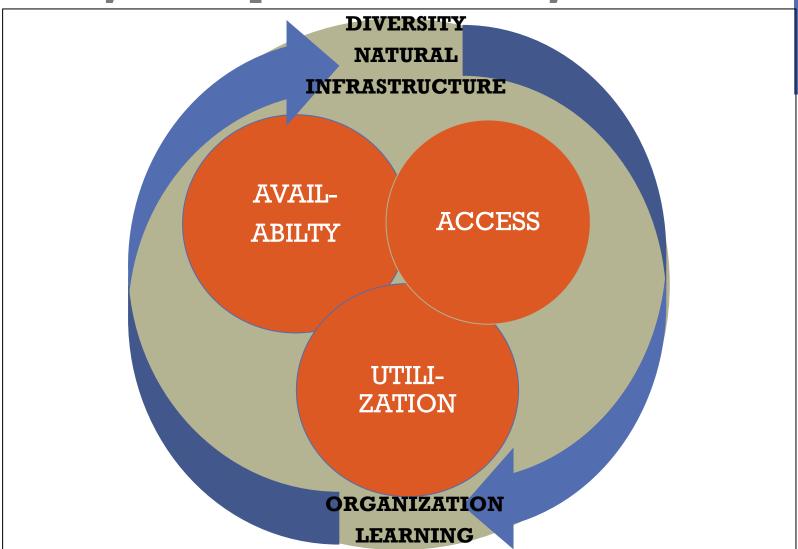
Conflict

- Eg forests loss of certain species
- land quality and water availability
- Stability in climate

• Valued social systems commercialization of IKS; access



+ Ecosystems provide stability



BUT THERE's A GAP IN POLICY



Existing strategies:

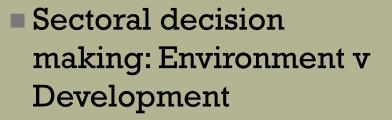
Natural infrastructure

- improving yield :Water & soils
- reduce price fluctuations: land & water availability; climate

Additional value:

- Diversity
 - direct contribution to food availability
 - direct contribution to income
 - diverse options

ECOSYSTEM GAP IN DECISION-MAKING



 Lack of connectivity in policy decision-making.
 e.g. Energy-biodiversity-food

Ecosystem resources & services as inputs

 Ecosystem as limitless bin for waste

+ WHAT TO DO?

- RETAIN EXISTING BENEFITS
- EXTEND OPPORTUNITIES
- RESTORE





...the capacity to cope with change and to sustain transformations needed to reduce poverty under global change (including climate change)

Address impacts of ecosystem change

Reduced options (biodiversity; livelihoods) Loss of "nature's

Infrastructure"

(watersheds; soil moisture)

Inability to find solutions

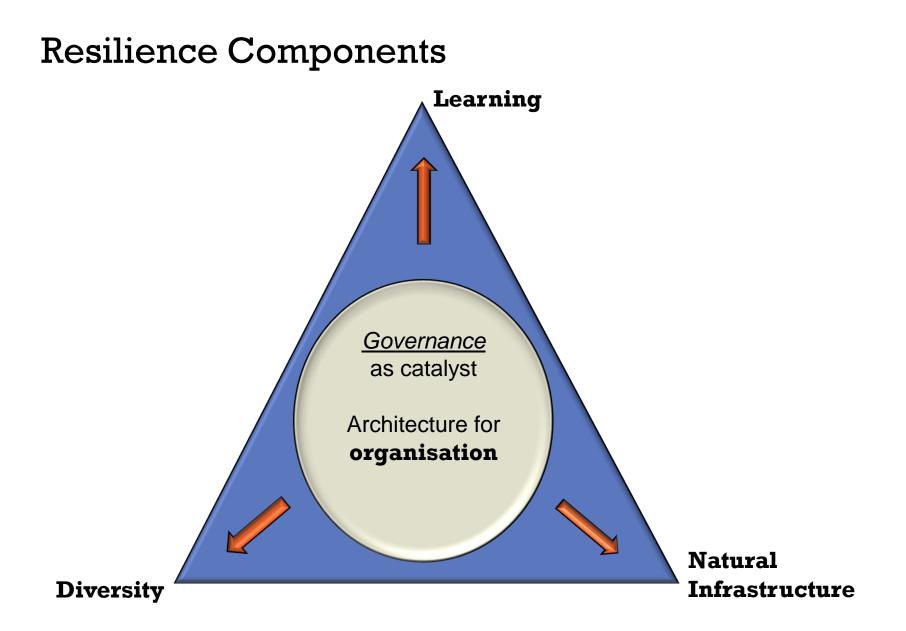
(Exclusion, conflict)

Governance

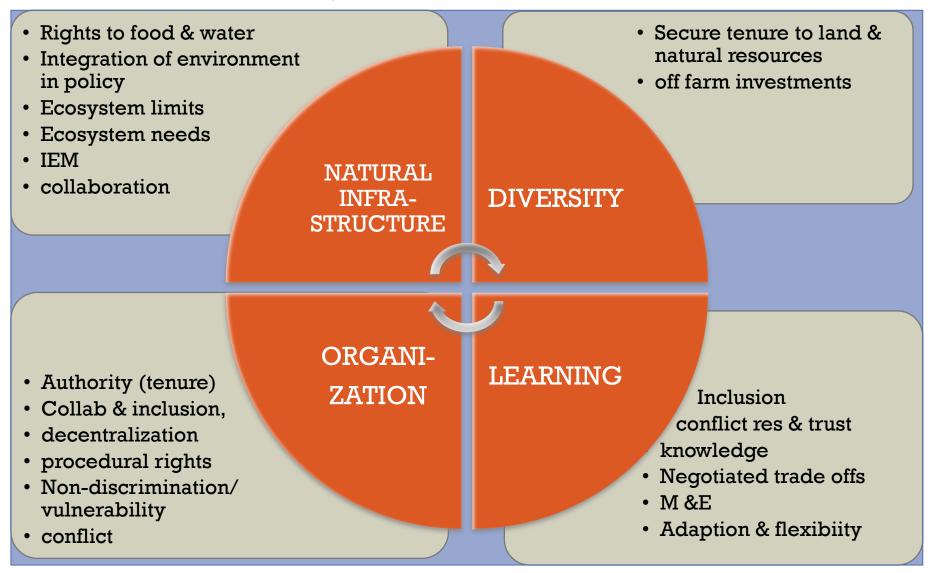
Equity, tenure, authority, conflict Lack of connectivity in decisions

Organization

Address underlying reasons



Governance change is needed



Integrated Water Resource Management



Resilience shift: Tacanà, Guatemala

- deforested watersheds
- degraded farming systems
- social upheaval
- downstream disaster
- weak coordination





- local coordination of priorities
- landscape restoration & diversification
- social entrepreneurship
- municipal provincial liaison
- disaster planning

