Sasumua: linking a landscape and institutional mosaic to climate change in Kenya



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2009 Forest Day 3, Learning Event





Globally Appropriate Mitigation Actions (GAMA)

does sum of NAMA's

add up to GAMA?



Nationally Appropriate Mitigation Actions (NAMA)

are NAMA's based on GAMA's? Landscape approaches to adaptation + mitigation

Locally Appropriate Mitigation Actions (LAMA)

Trees on farms: Tackling the triple challenge of mitigation, adaptation and food security

Trees on farms address climate change mitigation and adaptation, and food security by storing carbon, buffering against climate-related impacts and providing additional income through treebased products





Policybrief

Trees on farms: Tackling the triple challenge of mitigation, adaptation and food security



Key Points

- Trees on farms sequester carbon and contribute to mitigating climate change.
- Trees on farms enhance resilience to climate variability.
- Tree-based agricultural systems improve food security and livelihoods

Policy recommendations

- Increased adoption of agroforestry should be supported through finance for agricultural development and adaptation as well as mitigation.
- Payments for environmental services including carbon finance – should be geared towards increasing the extent of trees on farms
- More support is needed to increase the contribution of tree-based crops to smallholder incomes, thus diversifying income sources and increasing food security in the face of climate change.





>Administrative mosaic

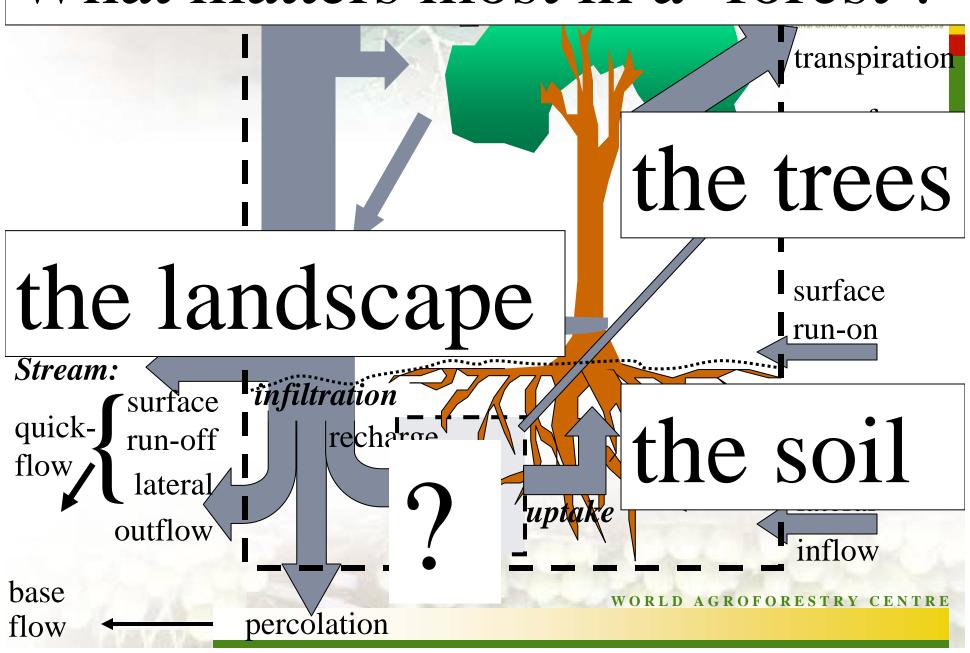
➤ Ethnic and social affinity mosaic

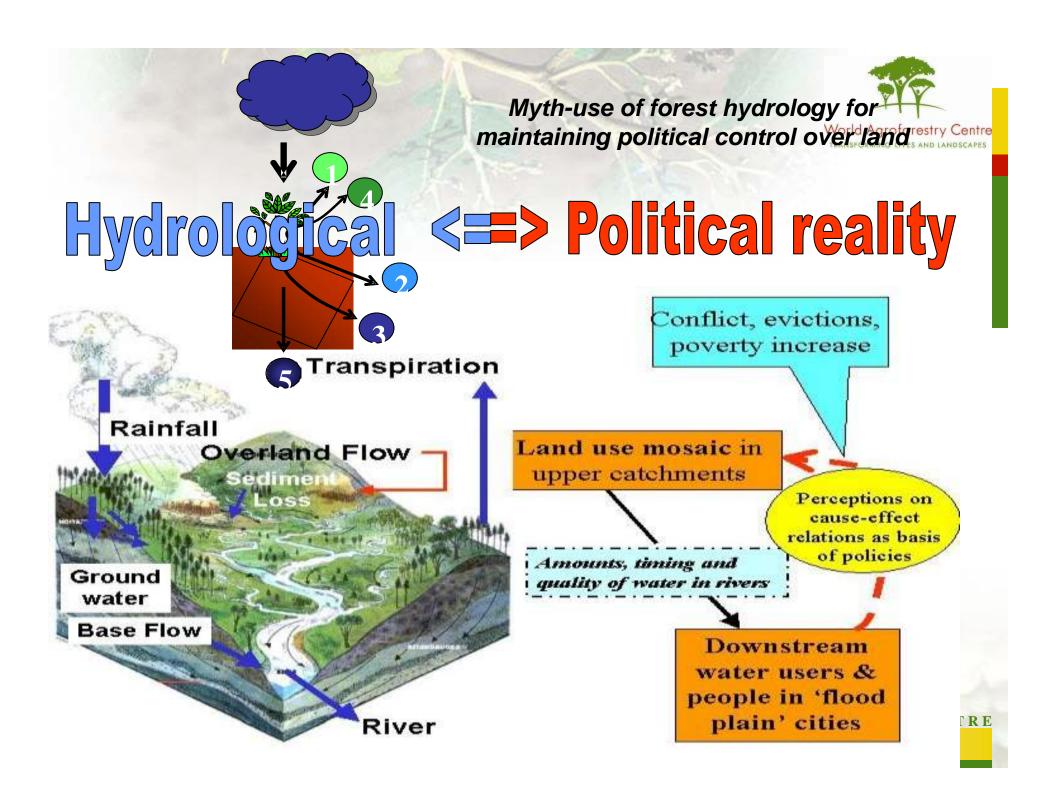
➤ Watershed hierarchies

➤ Patchwork of vegetation

➤ Patchwork of land access/ forest class rules

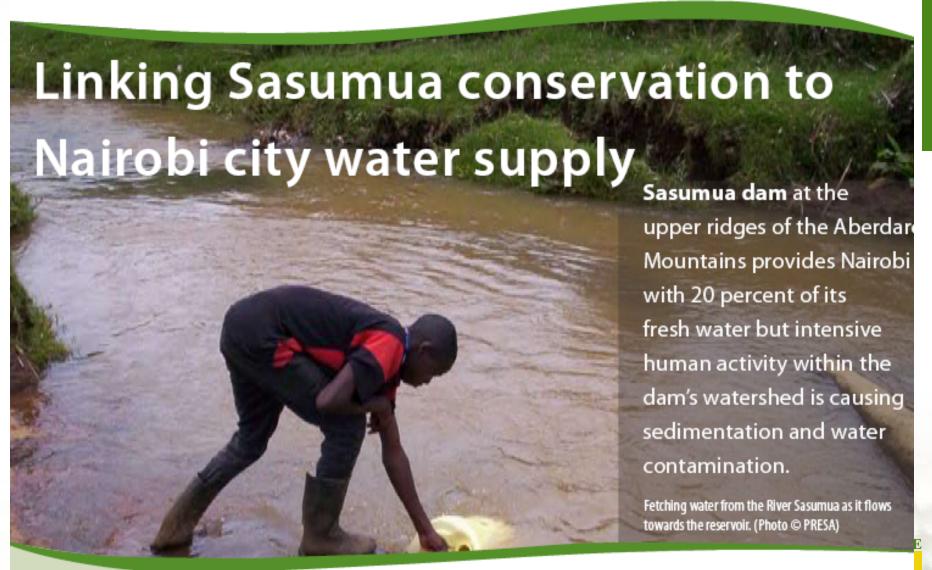
What matters most in a 'forest':







http://presa.worldagroforestry.org/files/2009/07/presasasumua.pdf





RUPES-I synthesis



Paradigm CES:

'Commoditized ES'

or markets for commoditized environmental service procure-ment (or land use proxies with periodic full impact study)

Paradigm COS:

'Compensating
Opportunities
Skipped' or paying
land users for accepting
man-datory or voluntary restrictions on their
use of land

Paradigm CIS: 'Coinvestment in
Stewardship' and
co-manage-ment of
land-scapes for reducing poverty and
enhancing ES, sharing
risk and responsibility

Conditionality

Real ES,

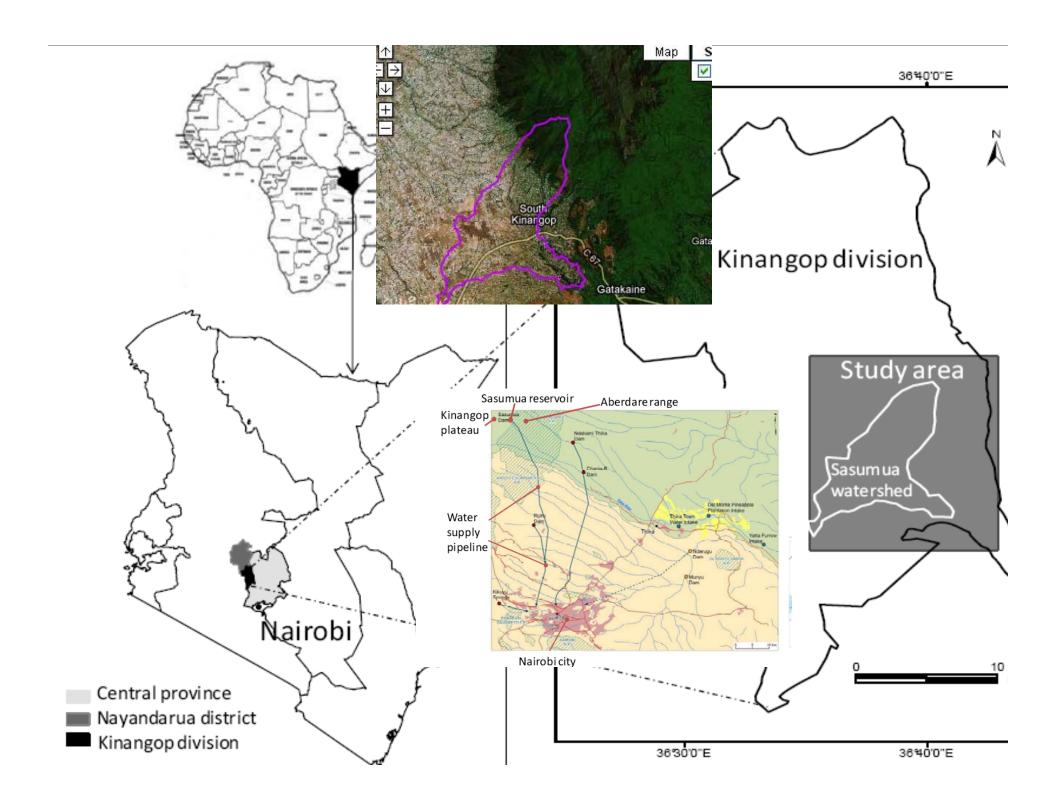
recurrent

Proxies,

recurrent

Plans/ACM,

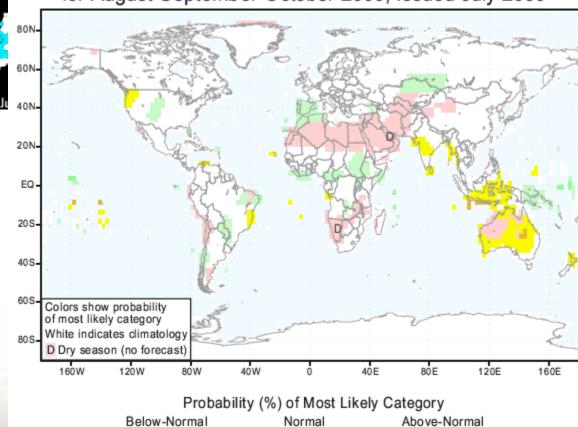
investment





Predictability of rainfall at growing-season scale is still low

IRI Multi-Model Probability Forecast for Precipitation for August-September-October 2009, Issued July 2009



40

40

70

60

July 2009 Forecast of El Nino conditions: above-average rainfall in Kenya

Warmer-than-average

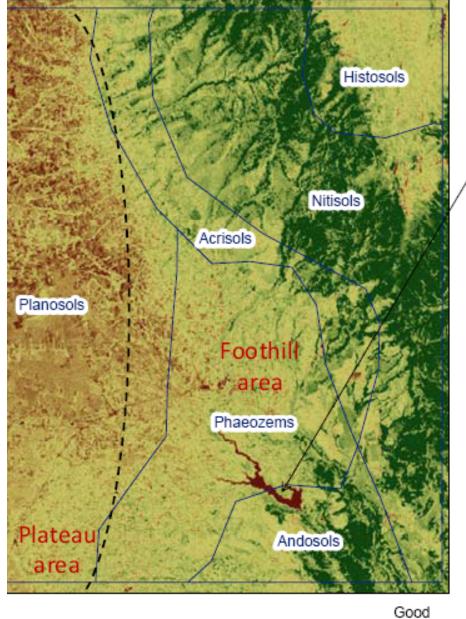
sea-surface temperatures

In fact: late start of rains, below-average total as yet; water rationing in Nairobi

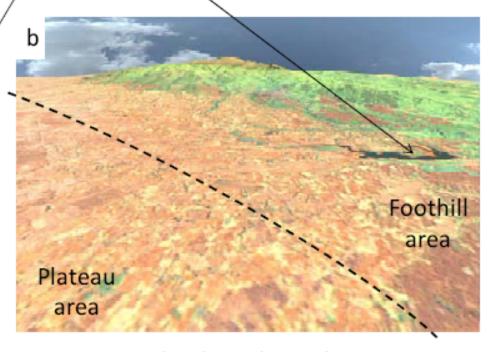
America



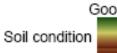


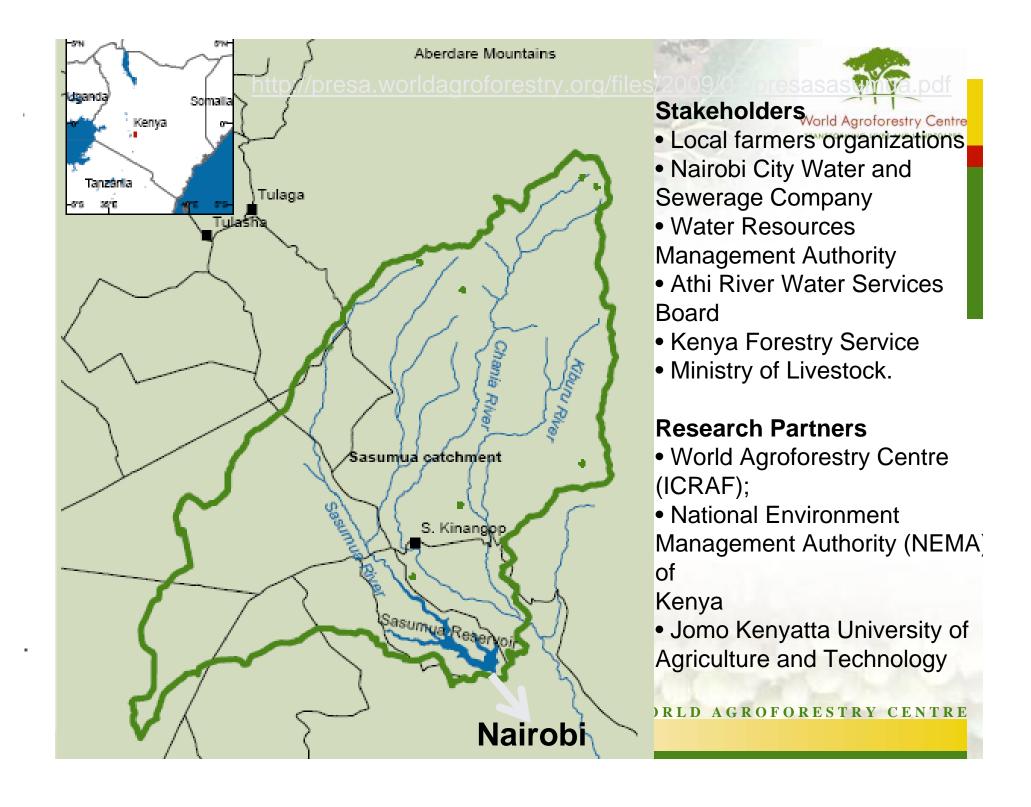


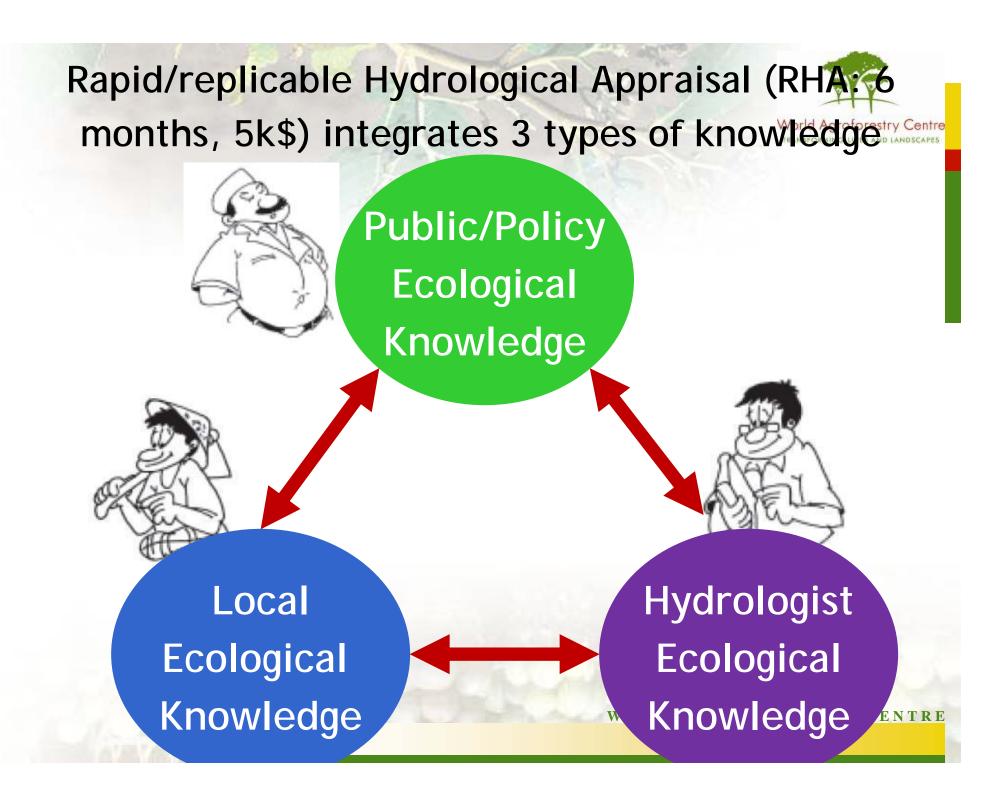
Sasumua reservoir

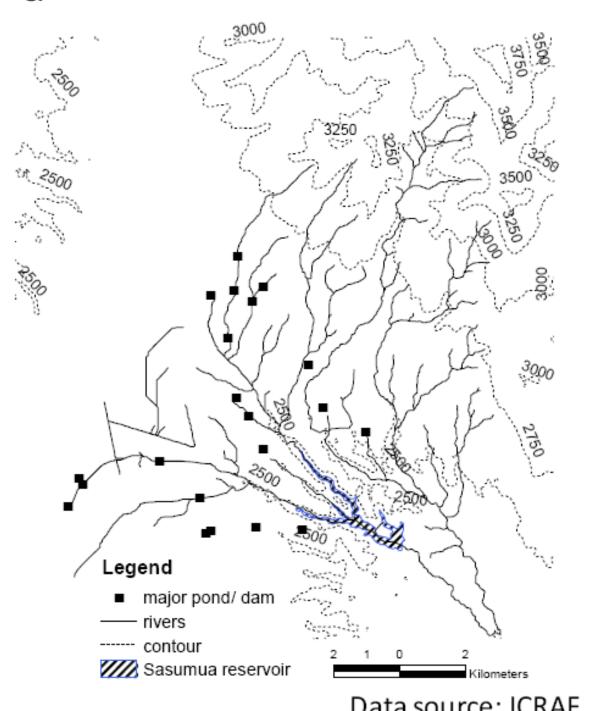


Terrain and soil condition data source Vågen (2009) and soil type data source Gathenya (2009)



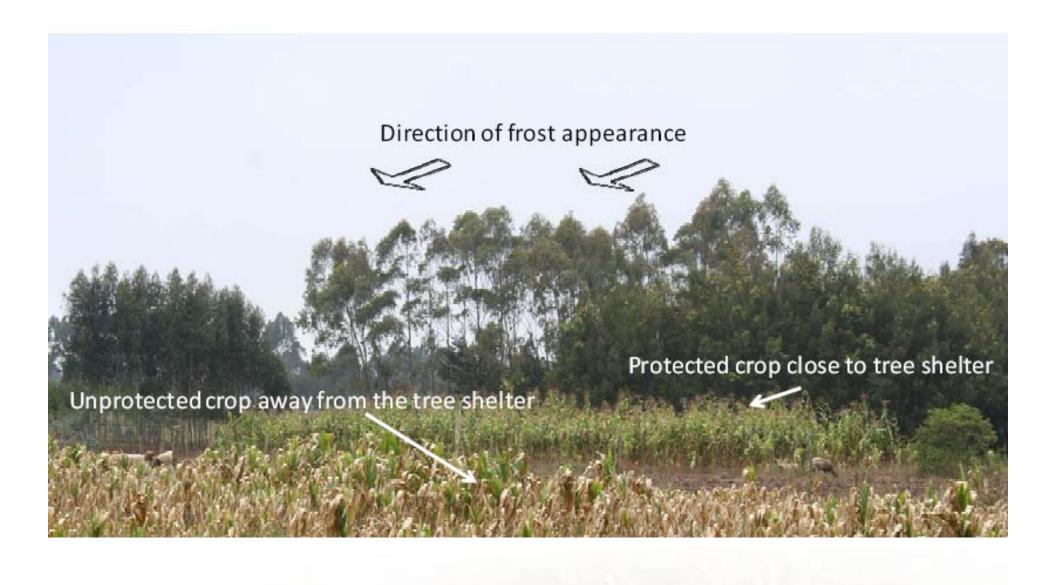


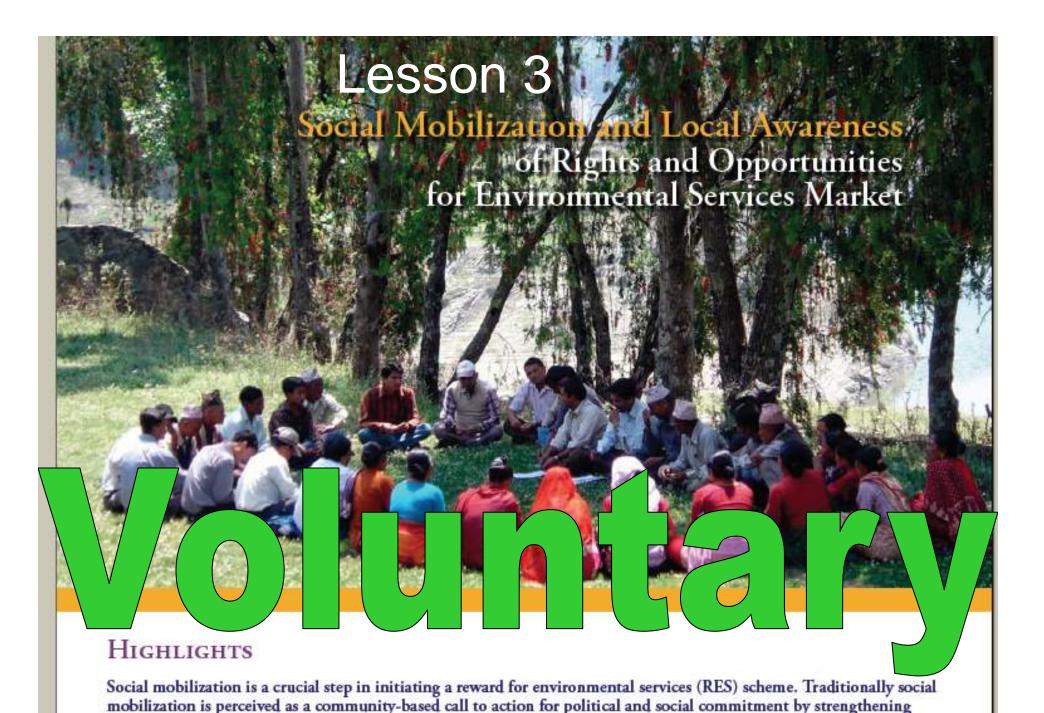




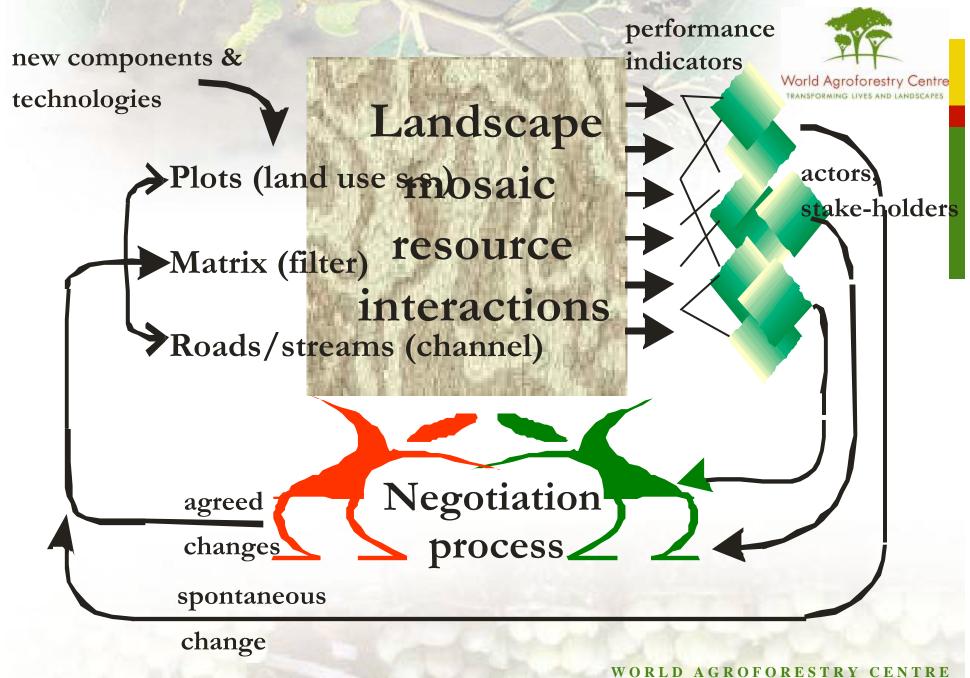








nal recourses development at local level. As social mobilization develops, it takes adventage



Negotiation Support System: tool + process





HIGHLIGHTS

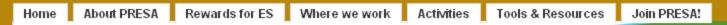
environmental service (RES) schemes not nd e as incentive-based mechanism. Enabling policy connected to exist to excure that the chemes are rational, and that there are opportunities for RES





Figure 41 A local farmer clearing eucalyptus woodlot with intention to replace it with native tree species.

http://presa.worldagroforestry.org/





Pro-poor Rewards for Environmental Services in Africa

About PRESA

PRESA promotes healthy landscapes and sustainable rural livelihoods through innovative market-based reward mechanisms.

PRESA will facilitate negotiations between ecosystem stewards and beneficiaries towards fair and effective agreements.

PRESA will engage with a range of stakeholders in Kenya, Tanzania, Uganda and Guinea, to catalyze policy support and private sector participation in environmental service agreements.

PRESA will build a community of practice across Africa to share lessons, tools and experience, advise local stakeholders, and provide training. Click for more





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Conclusions:

- 1. NAMA between LAMA and GAMA
- 2. LAMA: Mosaic of mosaics
 - Administrative mosaic
 - Ethnic and social affinity mosaic
 - Watershed hierarchies
 - Patchwork of vegetation
 - Patchwork of land access/ forest class rules
- 3. Realistic, Conditional, Voluntary & Pro-poor: equally large challenges in all 4 aspects