Successful small-scale irrigation or environmental destruction? : competing claims on water in the Uluguru Mountains, Tanzania

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A political ecology of irrigation

- Who does water belong to:
 - The state?
 - The people?
- How can competing claims be negotiated?
- Natural Resources Management- the formalisation and institutions debate (Ostrom, Cleaver)
- Romaticisation of the 'traditional'- (Trawick, Mul)
- Marginalisation of the 'traditional' (Walsh, Leach & Fairhead)
- Historical construction of the 'traditional' leading to external appropriation (Peters, Verhoeven)

The policy ecology

Water Policy in Tanzania Integrated Water Resources Management – National

- Integrated Water Resources Management National Water Policy 2002, National Water Development Strategy 2005-15, Water Resources Management Act 2009.
- THMIS 2011/12 survey suggests 59% (41% in 1985) have access to clean water (12 % rural water supply provided by authority) Only 10% have improved sanitation- off target in all areas.....
- Decentralisation and a 'demand driven' approach
- Encouraging participation of private sector and NGO
- Water managed by nine river basin offices- e.g. Wami-Ruvu River Basin- issue permits under 2009 WRMA

Irrigation Policy in Tanzania Background: the long attempt to modernise and commercialise agriculture Irrigation is a named component in Kilimo **Kwanza (Agriculture First Plan)** 2009 Irrigation Policy developed responding to 2002 Irrigation Master Plan

Assumptions in 2009 Irrigation Policy

- 'Traditional' irrigation is wasteful and inefficientsuggests training the farmers on better water use and encouraging the private sector, NGOs etc to contribute.
- 'Improved' traditional irrigation- investment in upgrading traditional systems (can be seen in Pare Mountains- see paper by Mul)- suggest gov will oversee technical requirements and encourage PPP
- Water conflicts can be avoided if all are organised properly in 'associations'

A political ecology of irrigation Fieldwork - May 2013-Jan 2014 An ethnography of informal small-scale irrigation Choma-Uluguru Mountains- hosepipe ingation for cultivation of high value fruit and vegetable crops, Latest evolution for small scale farming by indigenous Watuguru people.

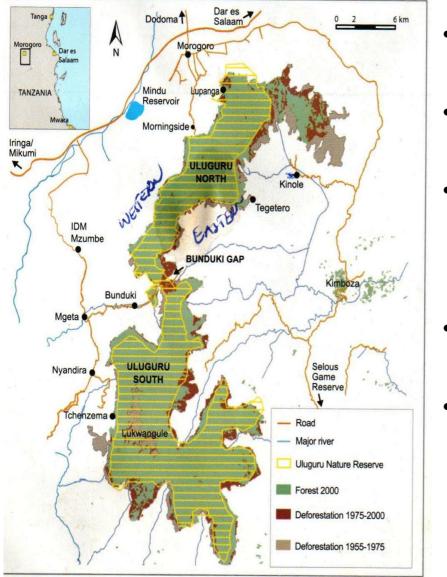
Utopala Water aveilado

normal sharing of water based on kin relationships Long-config Seen by state as

Adavita plater is have stative an oaldroid

Terraced farming on the Uluguru Mountains

'Traditional' and informal



- Choma- Luguru produce vegetable and fruit crops on small land holdings.
- Past- used traditional furrow systems but these were banned
- Records show concerns over agriculture in the Ulugurus since German colonisation- promotion of terracing has been contentious in the past
- Now- use hosepipes from the waterfalls and rivers to feed sprinklers
- People argue that water is a freely available resource- shared informally by those with access to land and capital to buy pipes. Government have done nothing so why should they be paid for water?

Improved livelihoods

- Some good production with market linkages
 - Vegetables, herbs and fruit in Morogoro
 - Strawberries- Arusha and Dar (and cannabis)
- Evidence of improved livelihoods-
 - , Improvement of housing
 - Purchase of motorbikes
 - Construction of road by community
 - Secondary school for children

But this is illegal and harming the environment

teir activities are seen as illegal-it is informal and unregulated- characterised as competing with drinking water supplies in Morogoro and beyond to Dar-os-Salaam local hydropolities

In 2006/7 the Municipal Council tried to evict the farmers from the motintain-they took the case to the President.

For now allowed to stay but must not tarm within 60m of the water sources and use environmental conservation practices.

A number of NGOs are supporting this approach- e.g. Through 'payment for watershed services' and organic farming initiatives

http://kilimo.org/WordPress/

What does this tell us?

An old story of blaming the poor farmer for environmental destruction and water shortage (See Fairhead and Leach

The vulnerability of customary tenure- as Peters argues t has made it easier for the state and other powerful actors to dispossess the poor perhaps can also be applied to

Political disinterest in management of the Ulugurus for sustainable agriculture small successes by SAT but also a

short-term projec

and work on the Great Ruana F

familiar contracting out by government to aid-funded

Bigger issues

- Small-scale irrigation is not a quick fix for agricultural growth without solving bigger issues of hydropolitics
- Insufficient attention is given to competing uses of water (e.g. Agricultural use vs power generation)
- Current policy frameworks and approaches are inadequate, contradictory, ineffective and can increase inequality
- Inadequate capacity of RBOs to regulate water use-'we just sell water'.
- Climate change, economic growth and increasing population make water supply a critical issue