



Wood energy in Sub-Saharan Africa: How to evolve a shadow business into sustainability

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Woodfuel supply in SSA of substantial importance but provison/production highly unsustainable

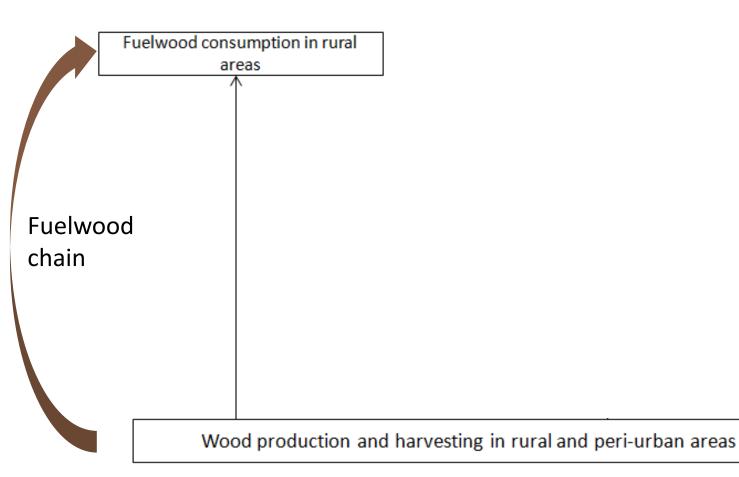
Demand will pot. even increase in the future (population growth & urbanization)

Political reactions in the past:

- Often focus on centralized modern energy development wood energy is largely neglected (*"shabby sister of renewables"*)
- Generally one-dimensional (e.g. ban of charcoal), focus: regulatory options from (central) government
- Hardly inclusion of local and regional level strongly restricted benefit sharing

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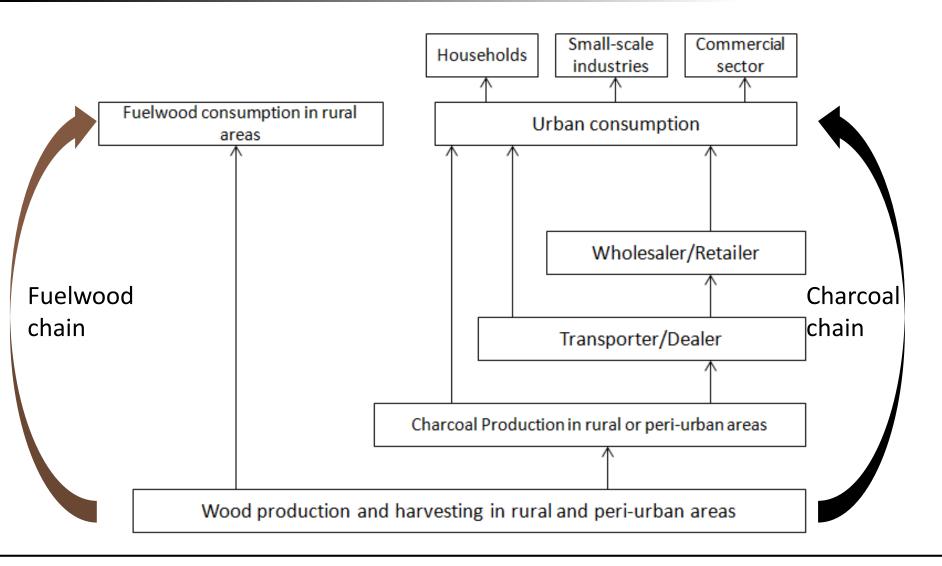
Framework: Generalised woodfuel value chains



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Framework: Generalised woodfuel value chains



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Production:

Raw material often extracted from woodlands – hardly official license system operating

Charcoal: Small-scale producers often operating with limited technology and/or experience \rightarrow nevertheless: Potential *"engine for economic growth"*[#] in rural areas

Transport & trade:

<u>Fuelwood</u> \rightarrow headloads - mainly local consumption

<u>Charcoal</u> \rightarrow dealers/transporters/wholesalers (key players in VC*); transport from rural to urban areas

Consumption:

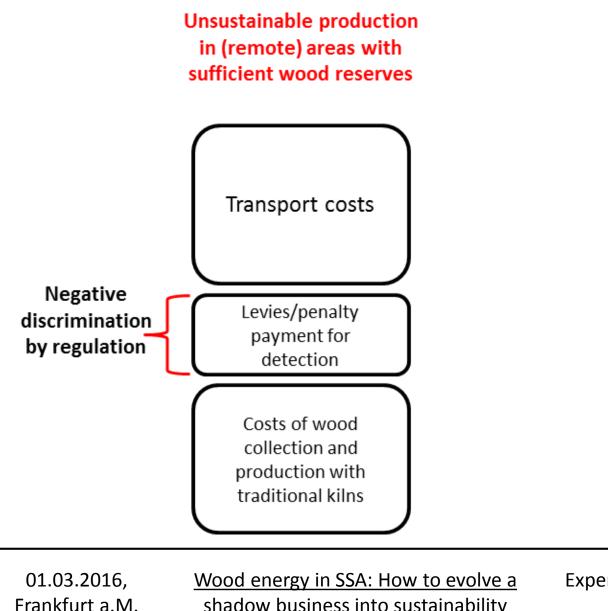
<u>Fuelwood</u> \rightarrow Three-stone fires / improved cooking stoves

<u>Charcoal</u> \rightarrow traditional charcoal stoves / improved charcoal stoves

[#]van der Plas R.J. & Abdel-Hamid, MA (2005) * Sander et al. (2013)

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Sustainable and unsustainable VC: Entry points for public management

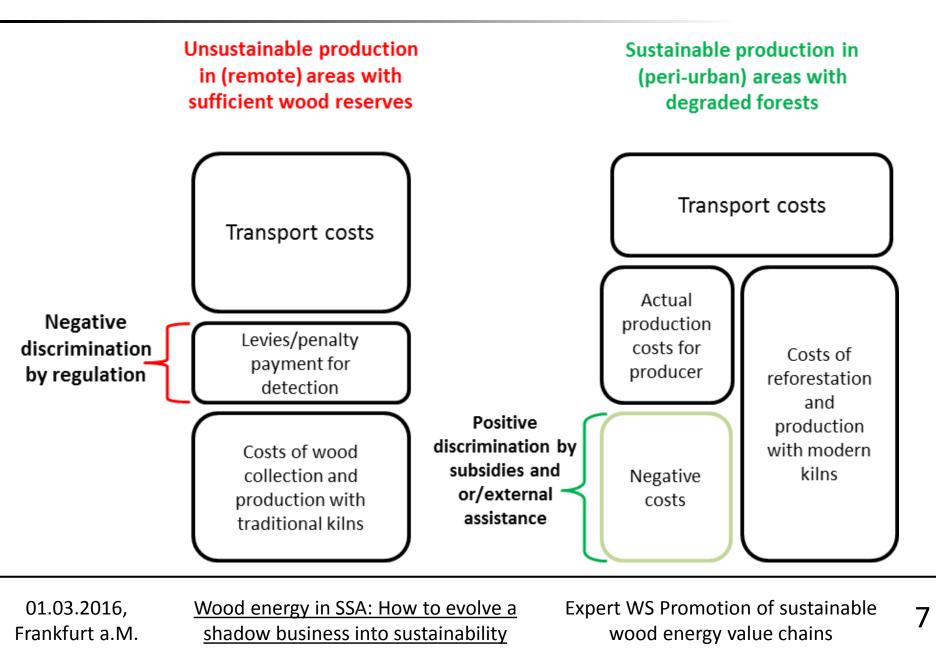


shadow business into sustainability

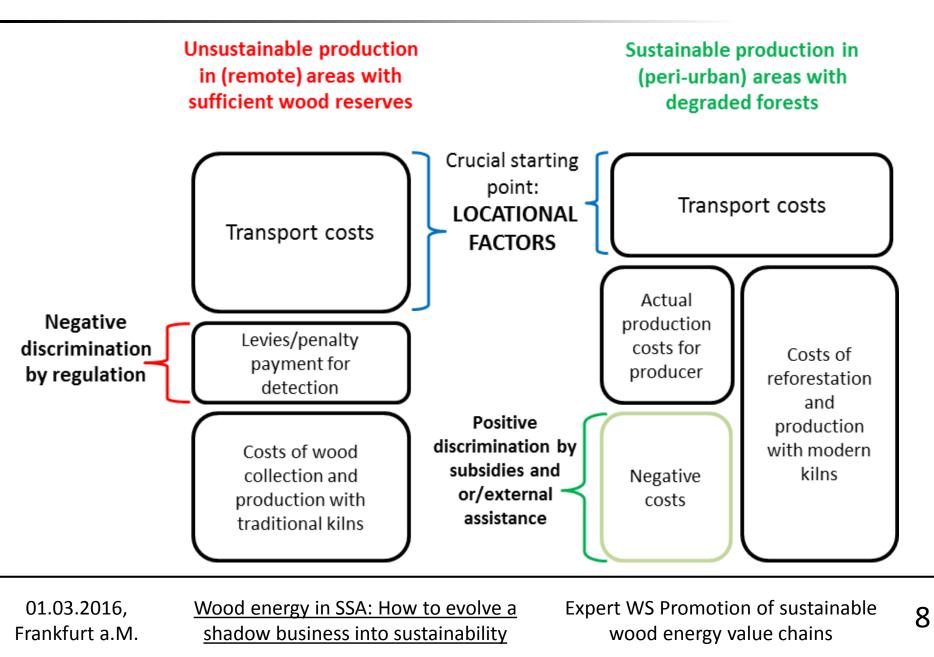
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Sustainable and unsustainable VC: Entry points for public management



Sustainable and unsustainable VC: Entry points for public management



Wood energy is and will remain essential for SSA energy needs and should not be politically neglected

Previous attempts to regulate the sector **focussed too closely on individual mechanisms** such as (1) regulation and prohibition, (2) technological fixes, or (3) attempts to leapfrog wood energy

Future approaches need to combine national policies and regulatory rules in the areas of forestry, energy, agriculture and land-use planning with locationspecific incentives

Technological fixes are important but **governance and economic dis/incentives are key**

Future approaches need to target the multi-level nature of the wood energy sector (e.g. combined efficient stoves, efficient kilns & tree planting campaigns)

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Questions ?

Remarks ?

Additional information ?

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