Recycling Realities
Linking the Sanitation Challenge with Agricultural Benefits
Speakers

Panelists
- Edward Ndegwa Wanjoji (Farmer, Kenya)
- Edith Kyeswa (Vendor, Uganda)
- Winnifred Makumbe (Mayor, Uganda)
- Liqa Raschid-Sally (Researcher, Sri Lanka)
- Kwaku Sakyi-Addo (Moderator, Ghana)

Local Actions
- Philip Amoah (Ghana)
- Ranjini Gupta (India)
Recycling Realities

Urban and peri-urban Agriculture with wastewater in developing countries
A global concern?

- 800 million people worldwide are involved in urban agriculture
- 200 million of these are producing mostly vegetables for markets
- Farmers in 3 out of 4 cities globally use wastewater/ polluted water sources for agriculture
What about Africa?

- As in other developing countries, streams in and around African cities are polluted.
- Farmers in and around cities have problems finding clean water sources.
- The area under informal irrigation around Kumasi alone is TWICE that under formal irrigation in the whole of Ghana supporting 60000 persons.
- Over 90% of perishable vegetables consumed in African cities is produced by urban farming using polluted water.
When we say ‘Wastewater’ …………..

• Untreated or partially treated domestic wastewater, which farmers use directly
• Water from polluted streams

Lack of sufficient wastewater treatment in SSA
Mexico – the Mezquital valley
Mexico – the Mezquital valley

- Water from the city is sent to a stabilization reservoir from which it feeds the valley
- The valley is now green and fertile due to wastewater. Groundwater table has risen by more than 50 m and now serves multiple uses
India – the Musi valley in Hyderabad
India – the Musi valley in Hyderabad

• feeding a thriving livestock trade and dairy business with many indirect beneficiaries
• In the dry season the river is kept alive by sewage flows from the city and typically, sewage or very polluted water is used.
Pakistan – the Indus basin

A quarter of Pakistan’s vegetable production is from wastewater agriculture.
Not only agriculture but aquaculture......
And now let's hear more about this reality in sub-Saharan Africa
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