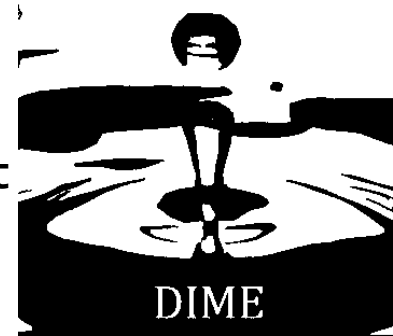


Kenya Water and Sanitation Services Improvement Project (WASSIP)

Evaluating the impacts of WSS on Nairobi's Informal Settlements: The Case of Kayole Soweto

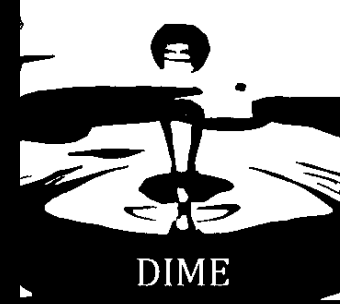


Development Impact Evaluation Initiative
innovations & solutions
in infrastructure, agriculture & environment
naivasha, april 23-27, 2011
in collaboration with Africa region, SD network, GAFSP and AGRA





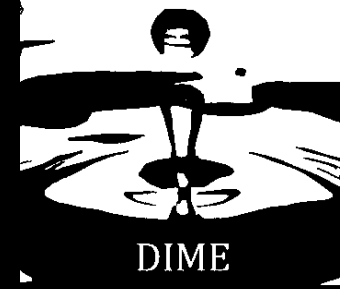
Intervention Summary



- WASSIP is a US\$425 million project
- Goal is to increase access to piped water and sewerage services
- In collaboration with the Kenya Informal Settlements Improvement Project (KISIP) services will be extended to several informal settlements in Nairobi, including Kayole Soweto (services will extend to plot, not individual dwelling units)
- Kayole Soweto facts:
 - Population: 89,000 in about 20,000 households
 - No current access to formal water and sanitation services
 - Cost of water: KSh 2-20 for 20 liters (US\$0.025-0.25 for 20 liters)
 - Land ownership: plot tenure; 6-13 leased rooms-households/plot

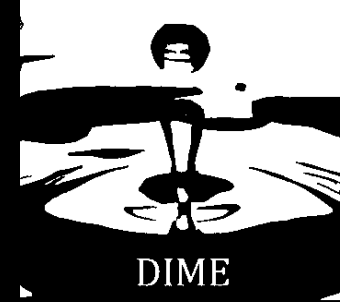


Kayole Soweto





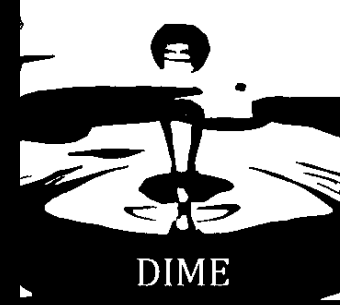
Evaluation Questions



- Will access to piped water and sewerage services (WSS) reduce the net cost of water (accounting for increases in rent)?
- What are the payment arrangements?
- Will access to WSS improve water/sanitation quality and usage?
Will different payment arrangements affect water or latrine usage/quality?
- Will access to WSS increase hygiene, such as hand washing?
- Will access to WSS improve women/children's quality of life (security, time-use, convenience)?
- Will access to WSS improve child's health?



Evaluation Design



Treatment 1 (T₁): Access to **water**

- Project will reach whole settlement
- Water network already in place
- Connections can't be phased out
- Design: Regression discontinuity
- Comparing before and after water connections



No randomization

Treatment 2 (T₂): Access to **sanitation**

- Design: randomized controlled trial
- Arms: one treatment arm and one control
- Randomization unit: clusters (about 10 clusters)



Asante!

