CASE STUDY
KWAHO – KIBERA WATER AND ENVIRONMENTAL SANITATION PROGRAMME

KENYA WATER FOR HEALTH ORGANIZATION
www.kwaho.org
KWAHO, The Organization

• National NGO, started in 1976
• Facilitates provision of safe water & environmental sanitation in rural areas & urban centres in Kenya
• Promotes health & hygiene practices to improve livelihoods
• Targets Needy Communities & Schools on WES
Description of the Programme

• Facilitation of provision of Safe Water and environmental sanitation (WES) for three schools, Makina, Stara and Kisumu Ndogo

• WES activities in Makina and Kisumu Ndogo villages

• Environmental Management through Youth Afya (Health) group

• Water quality treatment using SODIS (HWTT)

• Hygiene promotion to the target groups
Project Location
Kibera Peri-Urban (Slum)
7 km SW of Nairobi City Centre
500,000 inhabitants
235 hectares
Situation Analysis
Where Our Children Live!

- Scarce basic social amenities
- Inadequate water supply – **Sources**: Nairobi Water Co., standpipes, watertanks, vendors, 2 boreholes, polluted stream
- Unsafe potable water for domestic use due to sippage
- Few and poor sanitation facilities
- Unhealthy environmental conditions (hips of garbage, over crowding etc)
- Low income levels < 1 US$/family/day
- Prevalent water & sanitation related diseases especially among children
- Inadequate government policy on informal settlements due to lack of land tenure system
Water & and Environmental Sanitation Situation in Kibera
INTERVENTIONS:
Afya Group Collects & Manages Waste.
Latrines before & after in the Community.
Improved Access to Water & Sanitation in the Community and in Makina School
Project Goal & Objectives

GOAL
• To attain sustainable improvement of the health situation of disadvantaged people in Kibera.

OBJECTIVES
• To improve access to safe water & sanitation in Kibera schools & the larger community
• To promote health & hygiene practices of the residents & especially of the children in Kibera
• To promote & disseminate SODIS in user families as an alternative water treatment option
• To assess the health benefits of WatSan interventions in Kibera
Specific Project Activities

- Participatory needs assessment in Schools & community
- Mobilization and awareness creation on WES
- Community groups & school meetings for project planning & designing
- Construction of water & sanitation facilities
- Participatory workshops and seminars in the community and schools
- Household level training and follow up
- Promotion of SODIS in the community (door to door) & in schools
- Integrated training on SODIS and hygiene promotion (personal & environmental) through PHAST methodology
- PM&E and documentation
- Networking/collaboration with stakeholders to enhance sharing of information
Implementation Strategies

- Participatory approach – KWAHO, Schools, community & other stakeholders identify the problems, plan, design and implement the project together
- Linkage between Schools and Communities
- Capacity building in O & M - Training of WatSan committees & local artisans
- Integration of Hygiene Training into WES facilities management (Software & Hardware)
- Regular M&E to ensure pupils & communities have right skills & understanding
KWAHO’s Rationale for Targeting School Pupils as Change Agents for WES and Hygiene Practices

- Children easier to adopt behavioural change
- Children learn and replicate new ideas into their families
- Children put into practice what they learn or see (hand washing with soap, drinking safe water, use & maintenance of latrine, etc)
School Children At PHAST Workshop – The Change Agents
Hand Washing at KSM. Ndogo School.
Right – TOT for Teachers
Use of Drama and Poems by a Teacher and WatSan Pupils Committee Representatives to Pass Health & Hygiene Messages
What is **SODIS**?

**Solar Water Disinfection**

- **SODIS** is a Water Treatment Method (HWTT)
- **Application:**
  - Transparent PET-bottle (max 2 Litres)
  - Place it in the sun for at least 6 hours
  - UV-radiation and heat from the sun inactivates the Pathogens

- **SODIS** was developed by EAWAG / SANDEC
  Federal Institute  [www.sodis.ch](http://www.sodis.ch)
SODIS Treatment at Stara School
SODIS Promotion Demonstration at Community Level
Project Reach & Achievements

- > 1500 pupils in Kibera
- 19,500 households/families reached
  (3 children/household)

Thus:
- Improved access to safe water & sanitation
- Increased knowledge about health & hygiene
- Improved hygiene practices
- Ability to manage project WES initiatives
Constraints & Challenges

• Lack of clear Land Tenure System means facilities at schools and communities may be temporary
• Frequent mobility of people in and out of the Slum hampers continued
• Competing commercial HWTT without hygiene promotion in their strategy
• Low levels of funding Vs Demand
• Lack of standardised tools for M&E
Sustainability

- KWAHO builds sustainability through Adequate Capacity building for the Target groups - Training
  - Adopts low cost WatSan technologies using locally available materials & Artisans for replicability & O&M
  - Communities form CBOs, Schools form WatSan committees & Clubs that head/manage the initiatives & serve as role models
  - User fees for recurrent costs & maintenance in the community while parents pay for WatSan costs through school fees
THANK YOU

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KWAHO