THE SANITATION TECHNOLOGY CHALLENGE

Rapporteurs Report

- Facilitator:
- Chairman: Mr. Fred Adu
- Rapporteur: Barbara Appiah-Effah
- Presenter: Prof. K.B. Nyarko

Key issues discussed

- The sanitation challenge process
- Presentation from the winner of challenge on her technology
- Next steps

Process – Why challenge was organised

- to address issues of sanitation technologies
- Low access(20%) to sanitation
- Low coverage is as a result of cost of sanitation technologies
- Stimulate innovations to address issues of sanitation

The Process

3 main processes

- Ideas and feedback- call to submit ideas
- Refinement –screening of selected technologies with detailed comment(14 out of 35 technologies submitted were selected)
- Selection of top technologies for awards (6 technologies were awarded)
- A panel of 5 Judges was constituted from practitioners, academicians and development partners
- NB! Detailed information on the challenge and the various technologies can be obtained from the report

Presentation by winner of Sanitation Challenge on her Technology

- APDO-Low cost latrine lining technologies
- Presenter: Beata Awinpoka Akanyani
- The Technology seeks to address
  - Collapse of latrine sub-structure within a year (during the rainy season)
  - Filling-up of latrines within a short period of time
  - Inadequate technical know how on the various latrine options by artisans and communities as well
  - High cost of improved latrines

The Technology

- The technology can last for 5 years
- Uses locally available materials such as cow dung , biney, dawada, and bye-product of sheabutter
- The technology is low-cost of an upper limit of about GHC 463 excluding labour cost.
- The superstructure can be made of materials such as wawaboard, bamboo, plywood, zinc etc. depending on the availability of the material in the community

Collaborators

- UNIVERSITIES: UDS and University of Energy and Natural Resources
- Private sector
- DAs (EHSU)communities, Latrine artisans, Natural Leaders

Way forward

- The need to consider vent pipes in odour removal
- Collaborate with KNUST on how to develop materials to resist water inflow into pits
- More research to be carried to ascertain strength of super structure materials to ensure safety

Next steps

- Provide financial support for the building and piloting of live prototype of the toilet technologies in communities
- Monitoring and evaluation of piloted toilet technologies
- Conduct research in the following areas:
  - Insitu testing of structural strength of available local materials
  - Effectiveness of available local binding agents for construction of toilets
  - Effectiveness of bitumen and nim tree leaves in the prevention of termite attacks on wood
- Develop and manage a website for the sanitation technology challenge
- Publication on promising piloted toilet technologies
- Another round of the Sanitation Challenge??