AFFORDABLE & APPROPRIATE OPTIONS THAT RESPOND TO CONSUMER SANITATION NEEDS

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Presentation outline

- Consumer needs and aspirations
- Common technologies
- Appropriateness aspects
- Affordability aspects
- Conclusion
Consumer needs and aspirations

Fly proof
Easy to clean
Safety (health risk, not collapsed)
Durable
Dignity (offers privacy)
Low Operation and maintenance costs
Climate Resilient
Environmentally sound (no contamination of water table)
Inclusiveness
Common sanitation technologies

- Traditional latrines
- VIP (Lined and unlined)
- Cesspit
- Urine Diversion Dry Toilet
- Bio latrines/toilets
- Enviroloo
- Aqua privy
- Water borne
Assessment of some widely used technologies for household toilets in rural areas.

<table>
<thead>
<tr>
<th>Technology</th>
<th>Important features</th>
<th>Land Requirement</th>
<th>Suitable soil conditions</th>
<th>Water Requirement</th>
<th>Overall Cost of Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pit (lined or lined)</td>
<td>Pit, slab and squat hole</td>
<td>Low</td>
<td>Permeable, stable soils Not good for rocky soils or high water table</td>
<td>Little or no water</td>
<td>Low</td>
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<tr>
<td>Pit, slab and squat hole</td>
<td>Two separate holes for urine and feaces Chamber with black cover</td>
<td>High medium</td>
<td>Suitable for any soil including rocky and high water table</td>
<td>Little to no water</td>
<td>High Empty and secondary composting</td>
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<tr>
<td>Squatting/sitting toilet</td>
<td>Sitting/squatting hole, Separating mechanism, black cover, soak pit, black cover, fan</td>
<td>Low</td>
<td>All soil conditions</td>
<td>Little to no water</td>
<td>High Empty and secondary composting</td>
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<tr>
<td>Sitting  or sitting pan fitted with cistern connected to septic tank and soak pit</td>
<td>Squatting or sitting pan connected to septic tank and soak pit</td>
<td>High</td>
<td>Stable soil, but not suitable for rocky soil</td>
<td>10-20 liters per use</td>
<td>High Empty septic</td>
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<tr>
<td>Squatting/ sitting pan, pour flush, connected to biodigester</td>
<td>Squatting/ sitting pan, pour flush, connected to biodigester</td>
<td>Low</td>
<td>In all soil types</td>
<td>3-5 liters per use</td>
<td>High</td>
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<tr>
<td>Service level</td>
<td>Definition</td>
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<tr>
<td>Safely managed services</td>
<td>Private improved facility where faecal wastes are safely disposed on-site or transported and treated off-site; plus a handwashing facility with soap and water</td>
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<tr>
<td>Basic service</td>
<td>Private improved facility which separates excreta from human contact</td>
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<td></td>
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<tr>
<td>Limited service</td>
<td>Improved facility shared with other households</td>
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<tr>
<td>Unimproved service</td>
<td>Unimproved facility which does not separate excreta from human contact</td>
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<tr>
<td>No service</td>
<td>Open defecation</td>
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</tbody>
</table>
Foot stand:
- To help the blind and little children know where to place their feet.
- Timber and murram slab.

Squat hole cover.
Foot stand:
to help the blind and the little children know where
to place their feet

Cover Slab

Container:
for anal cleaning materials

Bucket
with ash
Appropriateness aspects

- Gender
  - MHM, gender segregated
- Cultural beliefs
- PWDs (leave one behind)
- Innovative technologies
  - Tippy tap
    (handwashing with soap)
  - Self flushing water borne
Appropriateness aspects

- Climate resilient
  - Floods, landslides, earth quakes
- Operation and maintenance
- Wastewater management
- Sanitation marketing
  - Mason
- Sanitation product and services e.g. sato pans, cementing of squat hole areas,
Affordability aspects

- Operation and maintenance
  - Initial cost, recurring cost, FSM cost
- Wastewater management
  - No treatment mechanism
- Sanitation marketing
  - Financing & willingness to pay; SACCOs, WASH loans
  - Skilled labor i.e. Mason
  - Availability of sanitation product and services e.g. sanitation pans, cementing of squat hole areas,
Conclusion

In getting everyone on the road of ending open defecation, efforts should also be made on helping communities and institutions plan and prioritize to move up the sanitation ladder.
END THANKS