

A world map where the landmasses are filled with a repeating pattern of the word "fingo" in a light blue color. The text is oriented horizontally and follows the contours of the continents. The background is white.

Improving affordability and accessibility of ecological dry toilet technology in rural Makueni-Kenya.

By Mifuko Trust

fingo

Introduction

- Mifuko Trust is currently implementing an Ecological sanitation project (WASH&Grow! 2021-2023) on improved sanitation through ecological dry toilets technology
- Experiment aimed at improving affordability, accessibility and adoption of ecological dry toilets technology
- The experiment has directly reached all the 26 groups translating to over 7000 beneficiaries



Design challenge: "How might we develop an ecological dry toilet design that is affordable so that the community adopts and sustains the technology?"

Results

- Successfully mapped and engaged all relevant stakeholders and partners
- Obtained various valuable solutions/options and identified the most appropriate options for prototyping
- A new design/plan of low cost plan has been developed for piloting (with a possibility of bathroom extension)
- 2 pilot prototypes are under establishment



Results

- **Expectation(s):** the low-cost models being prototyped will be affordable to the community as compared to the current models
- **Success:** Successful implementation of new low-cost dry toilet models(on-going)
- A handbook on affordable dry toilet options in under preparation
- **Lessons:** Different options of materials make the designed low-cost model more cheap and affordable
- **Impact:** The ultimate goal is to ensure the community adopts dry toilet technology as a way of improving access to proper sanitation



Results



Cost €800 (Kes.92,000)



Cost € 480

Collaborations/partnerships

- The experimentation process involved other like-minded partners and collaborators:
 - a) Ukumbi – architectural works
 - b) GDTF (Huussi) – dry toilet advisory
 - c) County government
- These existing collaborations/are expected continue during the current and future programs



Feasibility for scaling

- Upon successful completion of the process, the project plans to adopt integrate the prototyped models in its next cycle (2023-2026)
- The existing collaboration with the county govt presents a viable opportunity to upscale the options in other programs such as CLTS (a sanitation marketing option)

Feasibility for scaling



Feasibility for scaling



Feasibility for scaling

