DESIGN THINKING PROCESS.

PROBLEM: WATER AND SANTIZATION.

Define: Turkana is the most affected area, approximately 3600 people have been affected. They have been affected for the past 20 yrs. Poor sanitization along Lake Turkana has also contributed immensely to the outbreak. People relieve themselves in the bush and in the water because most home do not have toilets. When it rains the waste is swept into Lake Turkana, which is the main source of water for thousands of people in the country.

IDEATE:

1. The needs of the communities in the target area are assessed and the exact locations and types of interventions for the implementation phase are specified.
2. Safe, sustainable, reliable and well managed water facilities are accessible to the target communities and improve livelihood (Water supply).
3. The Community Led Total Sanitation (CLTS) approach for improved hygiene is adopted by the target communities (Sanitation).
4. Solar and wind driven systems for lighting and water pumping are operational in the target communities. (Renewable Energy).
5. M&E system is implemented and used by the Water and Sanitation department of the Diocese of Lodwar and participatory working with other departments is strengthened (Capacity Building, Documentation and M&E).
6. Increase tree cover, particularly in water catchments and promote agro-forestry and social forestry
7. Promote low maintenance water technologies with an emphasis on water harvesting, which can deal with both abundance and scarcity under changing climate.
8. Development of buffer areas of crop and forage production for use during crises
9. Support Water Resources Users Association in catchment and riparian areas protection activities.
10. Develop/harmonize regulations governing riparian areas/catchment areas and wetlands.
11. Establish a planning, design and construction unit for water conservation structures and systems.
12. Develop guidelines for rainwater harvesting and storm-water conveyance systems in built-up.

PROTOTYPE:

1. Electronic water dispensing units – Water ATMs
2. Consortium for Sustainable WASH in Fragile Contexts (SWIFT)
3. Remote monitoring systems

SELECT:

Out of the three ideas I have come up in prototype have decided to stand with one solution which is COSORTIUM FOR SUSTAINABLE WASH IN FRAGILE CONTEXT.