MALEWA CLEAN WATER PROJECT

Background

World Water Crisis:

- · Here in America, we may not have to worry whether our water is contaminated with dangerous bacteria, but in other parts of the world, this is not taken for granted.
 - "Each year more than five million people die from waterborne disease"
 - o "84 percent of water-related deaths are in children ages 0 - 14."
 - o "98 percent of water-related deaths occur in the developing world.
 - o "At any given time, half of the world's hospital beds are occupied by patients suffering from a water related disease.3

Kenya:

- o "Over half of Kenvans live below the poverty line
- o "Only 61 percent of the population has any access



- o We are focusing on establishing a business selling purified water in the slums of Gilgil -a town in the region of Malewa.
- o People in the slums spend about fifth of their income on water from a local tap, or walk long distances to get less clean water from the local river.

 o The wages in Malewa peak at around 12,000 sh a month.
- Many are unemployed or work unskilled labor for only
- o The children in Malewa are very interested in learning to better themselves.
- o The Ngechu School and Kimbo School specifically of fered to work with us to implement a safe water plan.





IHSAN:

- · The Industry's Humanitarian Support Alliance, IHSAN, is a non-government organization (NGO) which works to "increase the availability of safe drinking water, adequate sanitation, hygiene, and related education
- · We have been in contact with IHSAN to design and implement our clean water plan in Malewa, Kenya.
- - We had a field researched from IHSAN go to Malewa to collect the data we used in designing the implementation plan



Better Water Maker (BWM)

o Hand Crank Powers UV light which

o Limited to One water crank at schools

o We use the BWM to purify the

kills bacteria in water

water in the business.
o Invented by Bob Bechtold

o Purifies a gallon/minute

reservoir at Kimbo School

Obtain water

City collection points

Nearby Rivers

following water sources

· We obtain water to purify from the

City Check Point o Places by the schools

Rainwater harvesting system

Mawaka and Kimbo have

Schools

- Students at schools will purify the water as part of thier gym
- class or afterschool. o To allow the sutdent to use the BWM, they BWM must be part
- of a water education plan. o 30min/day - 4 days a week they



Distance

- · The distance between the schools and the slums poses a considerable
 - o 2-4 km away
- · An initial investment is needed via micro-financing to bridge the distance
 - o Invest in carts



Goals

- Distribute Clean Water
 Enhance Water Education Program
- · Bring in money

Project Introduction

- · We're establishing a micro business in a third world country to distribute clean water in the slums.
 - We will use schools in Malewa to run our business

mpact

- By expanding the project to other schools throughout Kenya we would ultimately take steps toward.
 - o Ending the clean water crisis in Kenya
 - o Enhance the awareness of water health throughout



- · Jerry Cans
- Invest in large container for
- transporting
 o Pour into existing Jerry cans
- · Eventually, we will provide to be entered into the mix



Families lining up for water at the only water

Distribution

- We will sell and distribute the
- clean water in the slums.
 There is one water tap in these slums which prices water at:
 - Larger Bucket- 10 sh
- We will cut costs and waste by offering a 1 sh discount to those who bring their old containers to fill the water instead of getting a

- o Business supplies
- Water, storage

Schools

- · Enhancing the education in the participating schools by reinvesting the profits in

 - o Uniforms
 - o Projects in the school
 - Refurbishing
 - Academic projects

Micro | oans

o Paying back the micro-loan which funded the initial start up

Making Project a Reality

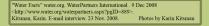
Micro I oans

- · In order to start this project we will have to make initial investments which will be paid for by micro loans
- Kiva
 - o Lends money to entrepreneurs in developing countries
 - o Empowers the countries to lift themselves out of poverty
- · Optinnow.org
- o Part of Opportunity International (a non-profit organization)
- o Provides those that live in chronic poverty with the opportunity to change their lives
- · Opportunity.org
 - o Creates jobs, start small busnesses, and strengthen communities among the poor
 - o Their method is to work through idigenous partner organizations
- · Unitus.com
 - o An international non-profit orgniztion that wants to reduce global poverty
 - o Seeks out and partners with young, high-potential microfinance institutions
- - o Created in 1953, to strengthen the economy of our nation
 - o Helps Americans start, build, and grow businesses

Field Workers

- Malewa Trust
- o Malewa Trust, an NGO in Kenya, has offered to help us implement the device
- o The trust wants to create a plan for an environmental education, sustainable land management, and conservation of biodversity in the Malewa area
- Schools
- o Mawaka (primary), Kimbo (primary), and Ngechu (secondary)
- · The students will be purifying the water as part of an education program
- · Help deliver the water to the slums
- · Interning with IHSAN
- o The team wants to intern with IHSAN in Kenya (as well as the members from
- our partnering team- Roche- who are doing work with soap in Kenya)
- · Implement the BWM ourselves

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Kimbo School