

# WISDOM

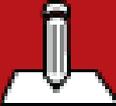




Photo by Les Stone

# UN Millennium Goals by 2015!

Which one's deal with  
WOMEN?

MILLENNIUM DEVELOPMENT GOALS	
	End Poverty and Hunger
	Universal Education
	Gender Equality
	Child Health
	Maternal Health
	Combat HIV/AIDS
	Environmental Sustainability
	Global Partnership



## UN WOMEN

- UN Entity for Gender Equality and the Empowerment of Women – essential to the achievement of the Goals
- Heart of the realization of the MDG's
- Women are vital agents of change and development
- Women are central to preserving the incredible variety of life on Earth

# WATER WOMEN WISDOM

POWERFUL COMBINATION

# WATER

Water is essential to all life and is a basic human right. Our common responsibility is to address a world-wide vision of clean water for all

# Polluted Water: Problem



# Fecal Contaminated Water KILLS

- 1.1 Billion in need of clean water
- 1 in 5 children under 5 die
- 2 of remaining 4 have disabling illness
- Water diseases account for 80% illness in developing countries
- Diarrhea from fecal contaminated water is the 2nd highest cause of child's death.

Direct correlation between unsafe unclean water and poverty.

# WATER FOR THE DAY







In this same water, hippos cool off and defecate, as well as birds and all other animals, children bathe and play, and the town above stream is doing the same thing. Yet this is the water collected for the family meals. Vicious cycle of poverty, illness and death!

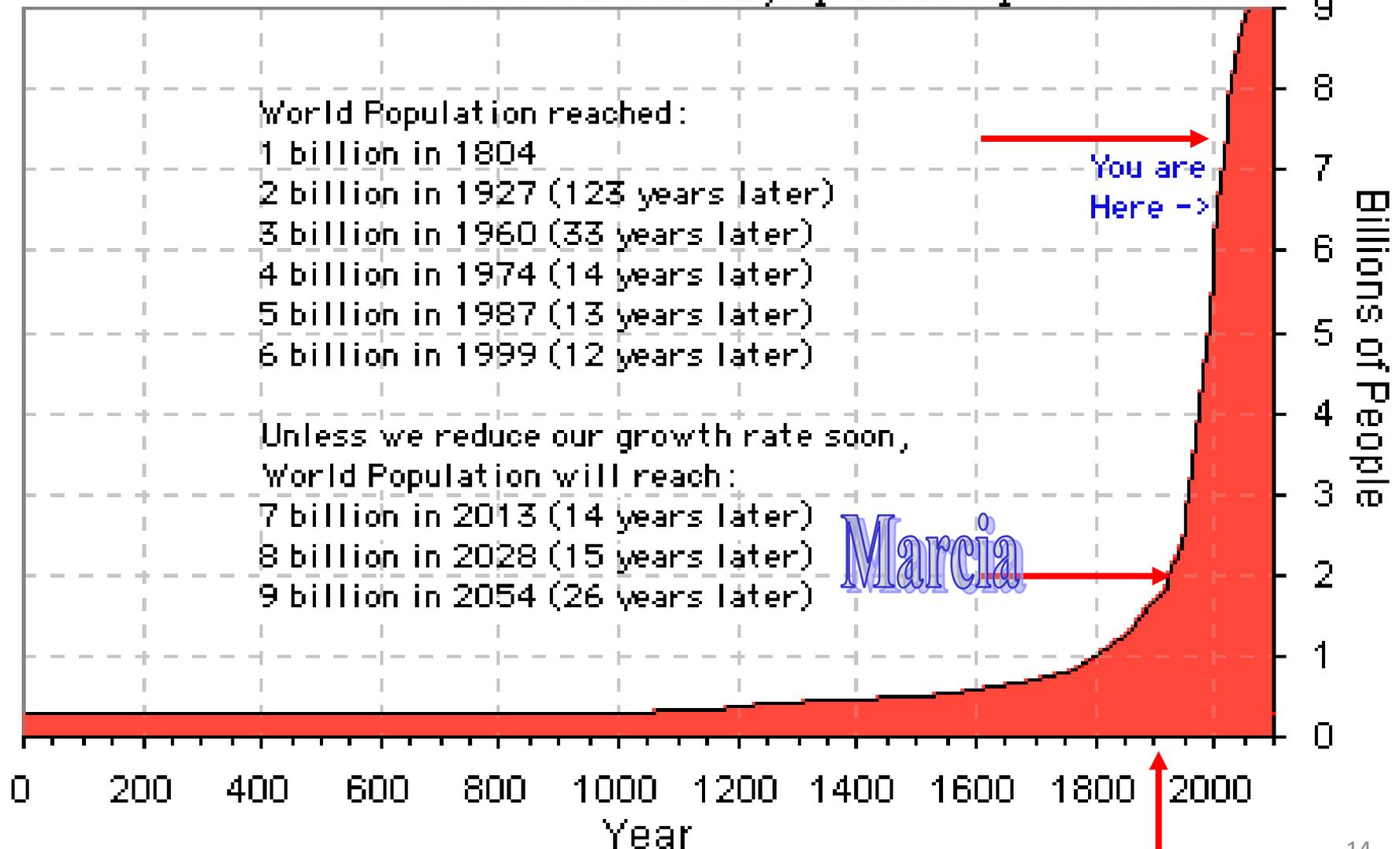
# Common Water Sources

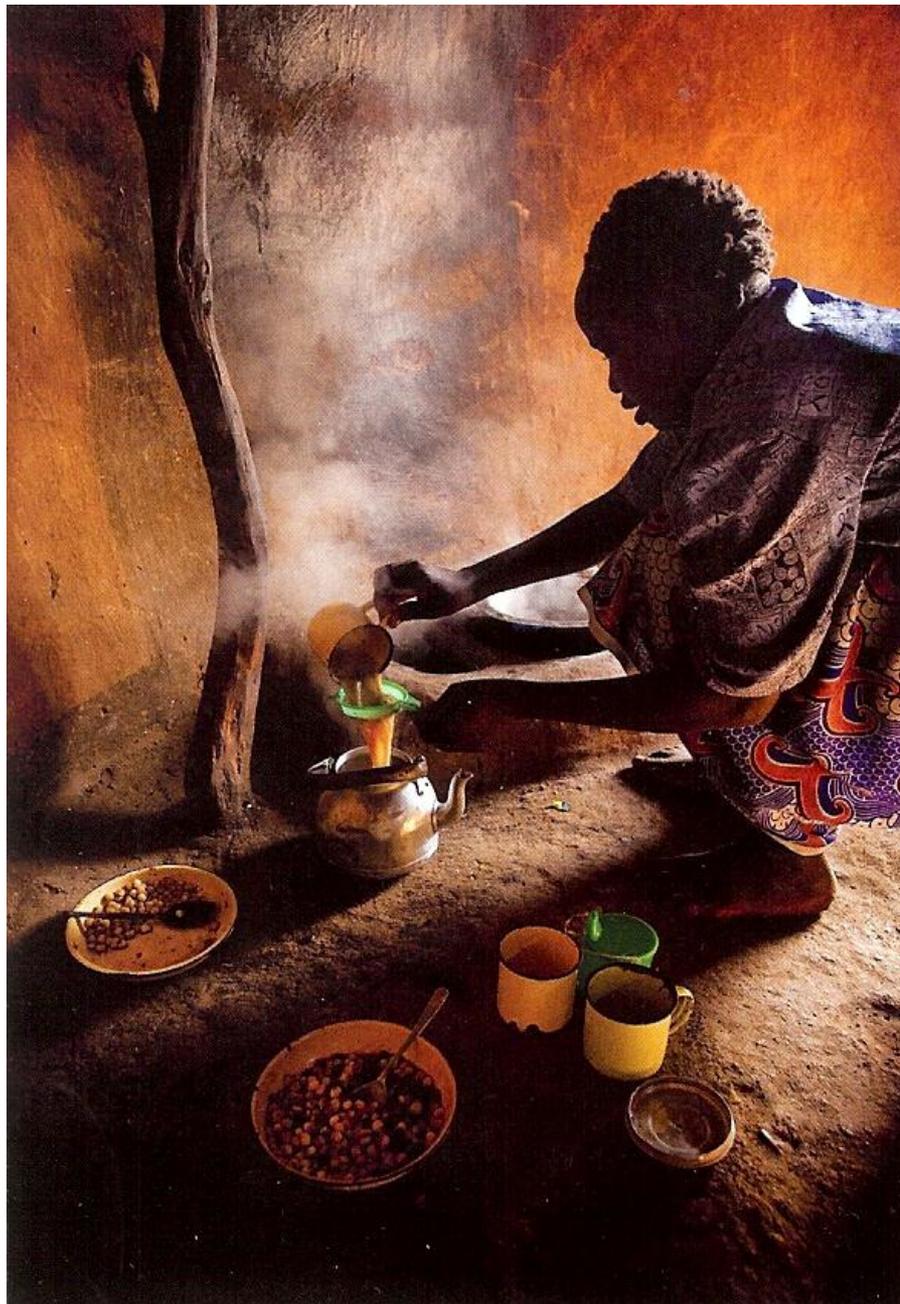




# GLOBAL POPULATION WATER SCARCITY

Source: United Nations, Population Prospects: 2004 Revision





# SANITATION



**Dual stall Eco Latrine – liquid and solid – with containers that will pull out at ground level and can be used as compost**

- **Without access to a latrine, girls stop attending school once they reach puberty.**
- **2.5 billion People lack access to adequate sanitation.**
- **40% of world pop do not have adequate sanitation**

# Health & Hygiene

- WASH YOUR HANDS!
- Separate fecal matter from living space
- Use Clean (sanitized) containers to collect clean water
- Minimize flies around food, cover food
- Hydrate when children have diarrhea
- Instruct
- Survey
- Test water supply
- Test water from filter
- Observe safe water practices

**WOMEN**

**WE ARE ALL CONNECTED**

# Role of Women in Global Development



# Women: Water at the Core

- Women fetch and carry the water
- They cook, clean, maintain sanitation
- Collect wood to boil water and prepare food
- 90% done by women, and daughters
- Educate children about water: Wash hands
- Care for sick children
- Responsible to feed the family

“When I weep, tears go inward and not outward.”



# Women and Farming

- Agriculture and farming: Women are the world's principal food producers
- Men have migrated to urban settings, died from HIV
- Women underestimated in ability, unpaid, unrecognized
- Good farmers: better results than men
- Conscientious labor
- Attention to detail
- Management
- National Economies improve with more women in agriculture production



videoFileNo33716.flv

# Women and Global Development

## Women and global economic and political stability

- Poverty, racism and the systematic oppression of **women** contribute to political and economic instability around the world.
- Until women have equity and justice, the world will not be able to cope with absolute poverty.

This is our challenge too.

# What is being done

## World Bank: Women in Development

- By 2010, at least half of the Bank's rural and agricultural projects, expected to total US\$800 million, will address a gender concern;
- The World Bank Group will channel at least US\$100 million through the IFC towards women entrepreneurs by 2012;
- The International Development Association (IDA) will increase investments for gender equality
- Innovative engagements with foundations and the private sector will help boost women's economic empowerment.



# The Aqua Clara Water Purifier

- Uses Local Materials, Local Talent, Local Revenue
- Adequate for family of 6
- Requires no power
- Has no moving parts
- Will last 10 years, minimal care
- Cost for materials is \$15-25
- Meets WHO Standards
- Begin with trust relationship
- Technology transferred free
- Certificate with training for licensed Business Creation
- Sustainable, Indigenized, Job Creation





The standard AC Water Purifier will filter and disinfect water contaminated with parasites, bacteria and other sources of waterborne-related disease. These issues constitute the main of worldwide water contamination problems. Units of special design are being developed and will be made available to locations dealing with other sources of water contamination - including heavy metals, chemicals, etc. (such as arsenic, mercury or fluoride)



AC Technology & Training  
+ YOUR business  
CLEAN WATER for your  
community & INCOME for you

## HOW IT WORKS

Source water is collected as normal and then poured through the purifier. A complex process of biological, mechanical and chemical filtration and disinfection takes place, producing enough safe, clean water to meet a family's needs.

A **DIFFUSER PLATE** is used so that filler layers are not disturbed by poured water.

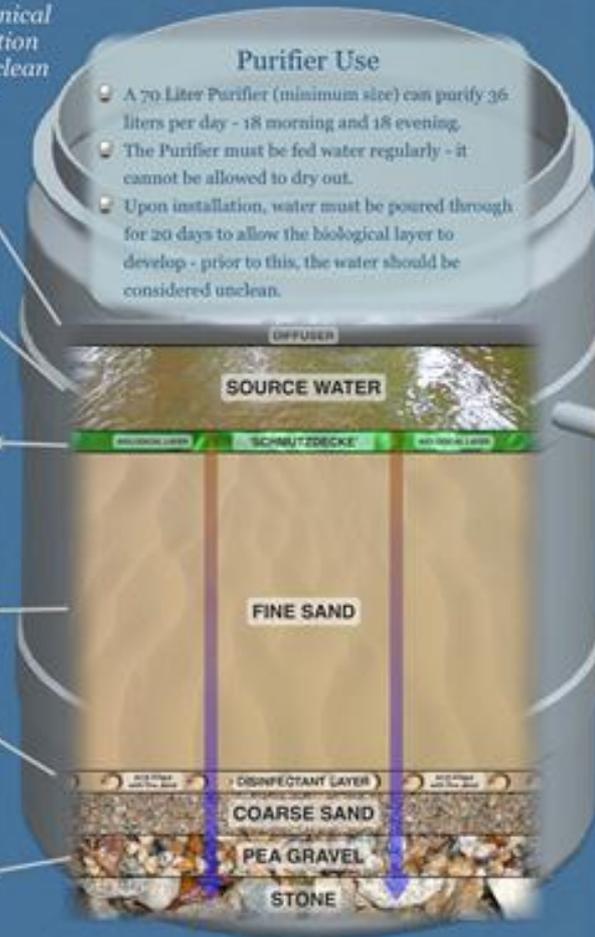
The **SOURCE WATER** pushes down through the filler layers.

The **BIOLOGICAL LAYER** is where the majority of parasites and bacteria are eliminated. It is constituted of living material and feeds on contaminants.

The **FINE SAND LAYER** is where mechanical filtration strains out additional contaminating material.

The **DISINFECTANT** layer is where a granulated metallic biocide eliminates remaining contaminants.

The **BOTTOM 3 LAYERS** simply allow for a free flow of water into the collection pipe. If easier, gravel may replace the stone layer.



### Purifier Use

- A 70 Liter Purifier (minimum size) can purify 36 liters per day - 18 morning and 18 evening.
- The Purifier must be fed water regularly - it cannot be allowed to dry out.
- Upon installation, water must be poured through for 20 days to allow the biological layer to develop - prior to this, the water should be considered unclean.

The **CONTAINER** used can be whatever type available, as long as it is at least 70 L capacity and of a durable HDPE plastic.

The **PIPING** is constructed of carefully measured and cut 1/2" PVC sections. Tight seals must be achieved to prevent leaks.

**THE PURIFIED WATER** must be collected in a different container than the one collecting source water. It should be cleaned regularly and kept covered.



# Results

POOR WATER .... TRANSFORMED







**FINALLY - THE RESULTS ...FOR MY HOME**







Sustainable

# TRAINING



Samples of AC training sessions. We empower & expand through training.

# Transfer Technology

Partnerships

Church  
Groups

Rotary, EWB,  
Civic

Job Creation

Community  
Groups





# Aqua Clara



# Mary Miruka, ACI Entrepreneur



# UPI, Engineers Without Borders



**PROGRAMA DE ACI BIOFILTROS**  
Aldea de San Matias, FM



## Honduras

# Community Health Workers

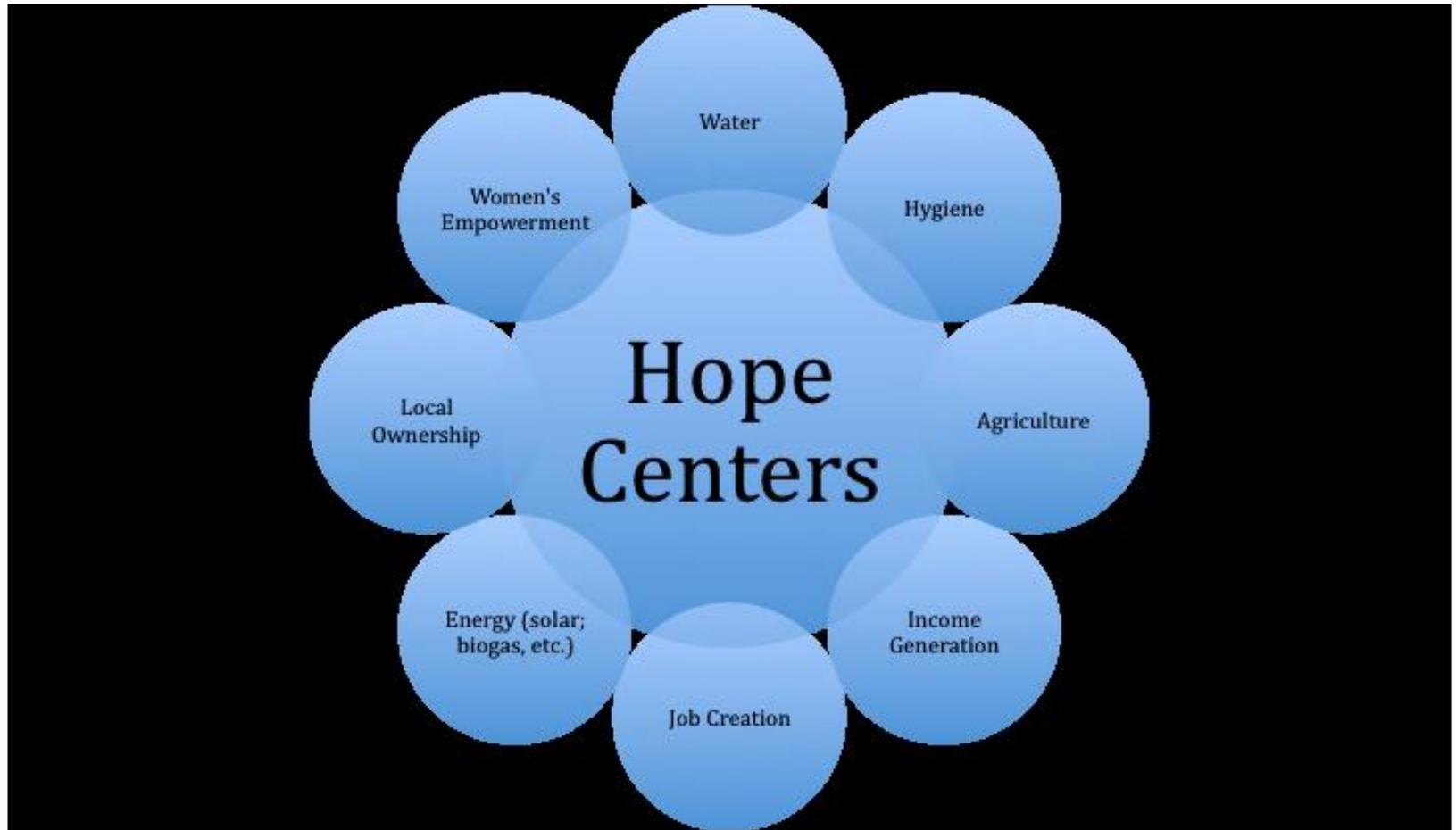






Claire Rumpsa with group of women: They see her as a role model and she helps them to be comfortable speaking out as well

# INDIGENIZATION



# Kind World Hope Center – 2010

## Kisii, Kenya, Africa

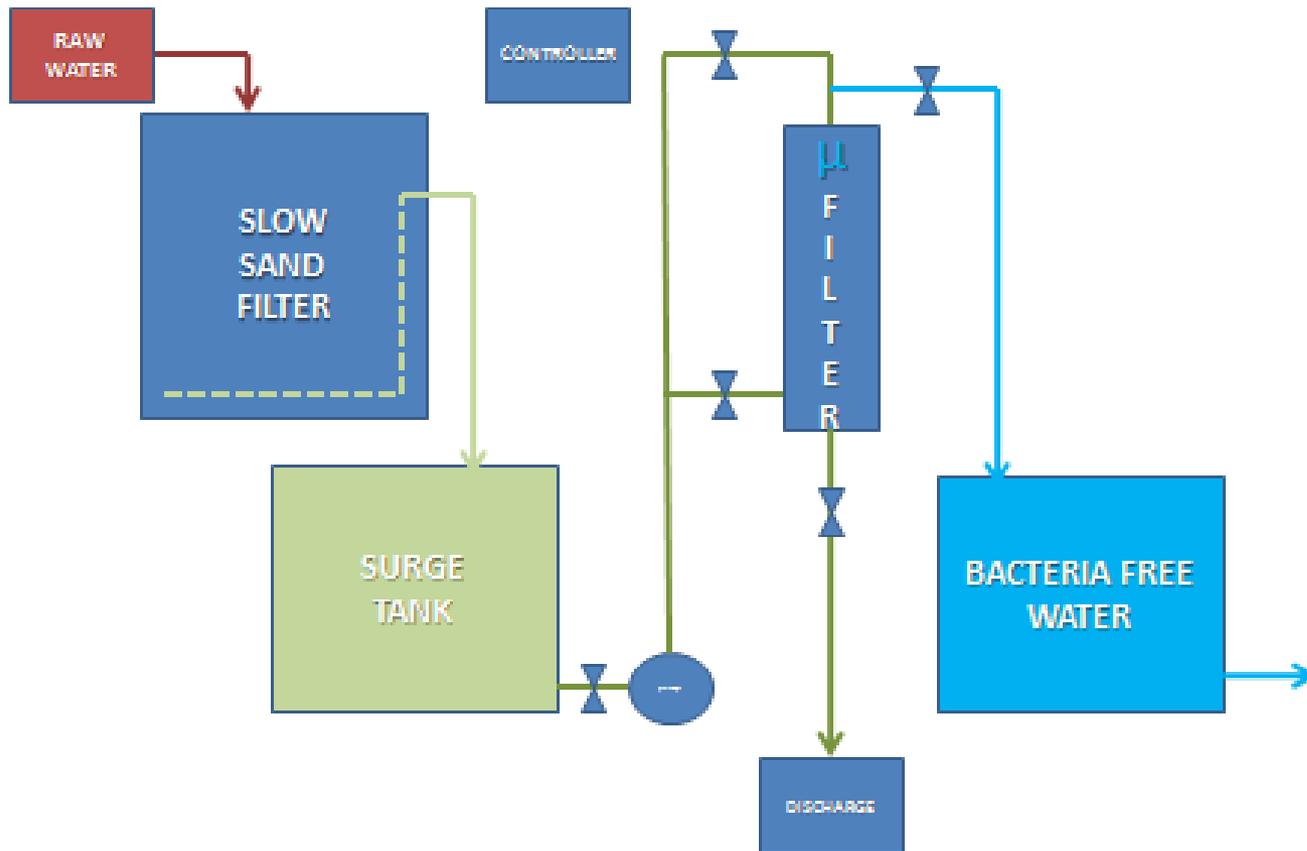


# Removal of Arsenic



# Medical Clinics

## MEDICAL CLINIC APPLICATIONS PROGRAM



# Women and Aqua Clara

What is ACI doing to help women in global development?

- Women are one member of 3 person teams
- Women are chosen to ask questions after every man in the training sessions
- Women are encouraged to feel confident about the manufacture and maintenance of the water purifier— Encouraged to own the business
- Women are helped the most by the purifier in their home – impacts all of their activities
- Women see the example of leadership in Claire

# FAITH

- **There is another dimension beyond helping women with clean water. It is what happens to us inside – to our spirit -- when anyone is not treated fairly.**
- **“We are living in a time when women’s voices must be heard, considered and respected at every level. Recognizing women’s vital role in the environment... is essential for a future of security and peace.”**
- *Dr. Wangari Maathai, Nobel Peace Laureate, in her letter of support for the 2008 African Women and Water Conference*

# Our Faith Informs US

- To take responsibility, to see women all over the world who are struggling --- as our sisters
- We are all connected by being women first of all
- To care about the injustice, unfairness, devaluation of women
- To do our part in speaking out about the human rights due women
- When you give drink to the least of these, my brethren, you do it unto Me! We are connected.
- To ache for the dignity of all women

Connected: Spirit of womanhood connects us!



# NICARAGUA



Remembrance of Juana Reyes

# TURTLE

- When you touch the shell of a turtle, she can feel it.
- *Perseverance has the turtle  
As she patiently travels along.  
In her slowness she missed nothing,  
For she hears Mother Earth's song.  
Patience, old wisdom, I'll learn from you,  
Deep forest secrets and Earth magic true*

# Why women?

- Work of women goes unnoticed
- Voice of women goes unheard
- Violation of human rights
- Victimized and Vulnerable
- Prevented from attending school
- Underpaid, overworked
- Valued less
- Lack basic medical attention

# Things to think about

Change brings crisis and opportunity

- Gender roles change, cause instability, uncertainty
- Hierarchical relationships change – fear and repression operate to restore order
- Role identity of men will be impacted by changes in women's roles
- We need to stand fast, persevere, we know how!
- Gender, Faith, Development intertwined intricately
- Virtually every topic related to gender roles in development shares facets that link it to religion and culture

We must all join together – all faiths, all cultures – to make a difference in this global endeavor

# Women Can and Do

- Shine a light on remarkable women who are taking the lead
- Break down barriers to economic opportunity
- Support cheap, clean water and safe latrines
- Speak out for women in raising awareness
- Seek political office
- Set an example of leadership
- Heal the wounds, lead the recovery: Mentor
- GO! Help someone!

We are all connected: We need to show our support, mentor those who are trying to make a difference, speak for those who do not yet have a voice

# Bangladesh, Sowhope





When women are afforded their basic rights, they flourish. And so do their children, families, communities, and nations. (Hillary Clinton)

# What will you do?



# Women's rights are Human rights

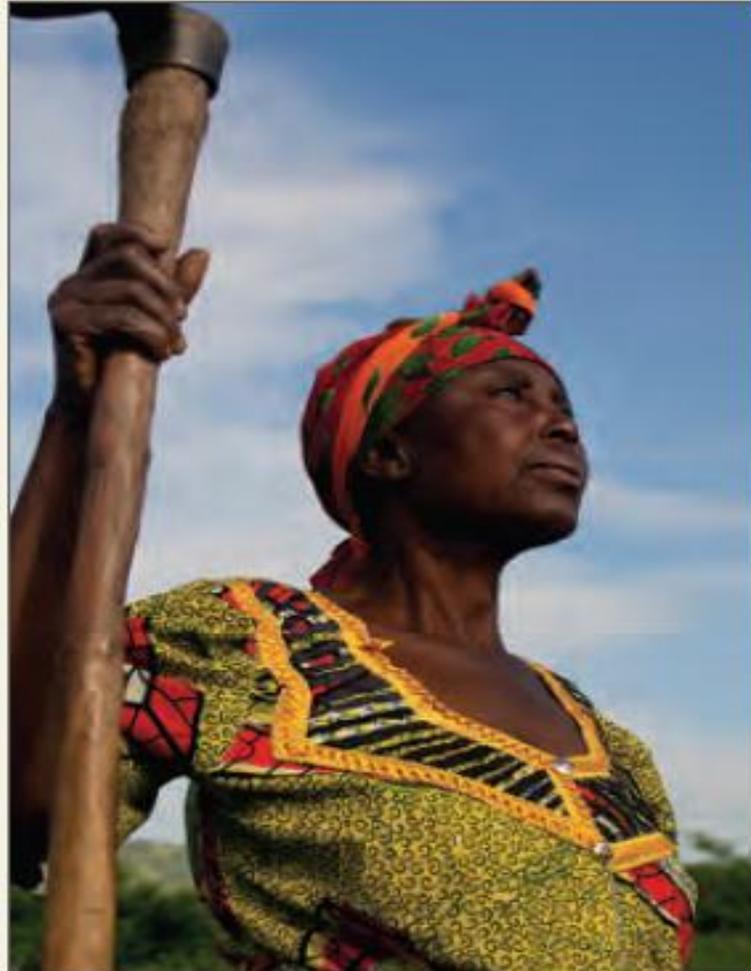


Photo by Les Stone



**WORLD IN YOUR HANDS!**