



*Wellness through water... empowering people globally*

# ***Safe Water for the Long Haul A Global Perspective***



Shauna Curry, Director International Services  
Clean and Safe Drinking Water Workshop, Nfld, March 22, 2011

# The Global Reality: In a Nutshell

*“Globally, diarrhoea is the leading cause of illness and death, and 88 per cent of diarrhoeal deaths are due to a lack of access to sanitation facilities, together with inadequate availability of water for hygiene and unsafe drinking water.” - Source: JMP*





884 million people are living without  
access to safe drinking-water



*Congo*



Access to an “improved water source”  
.... but is it safe?

Water  
Pump



*India*

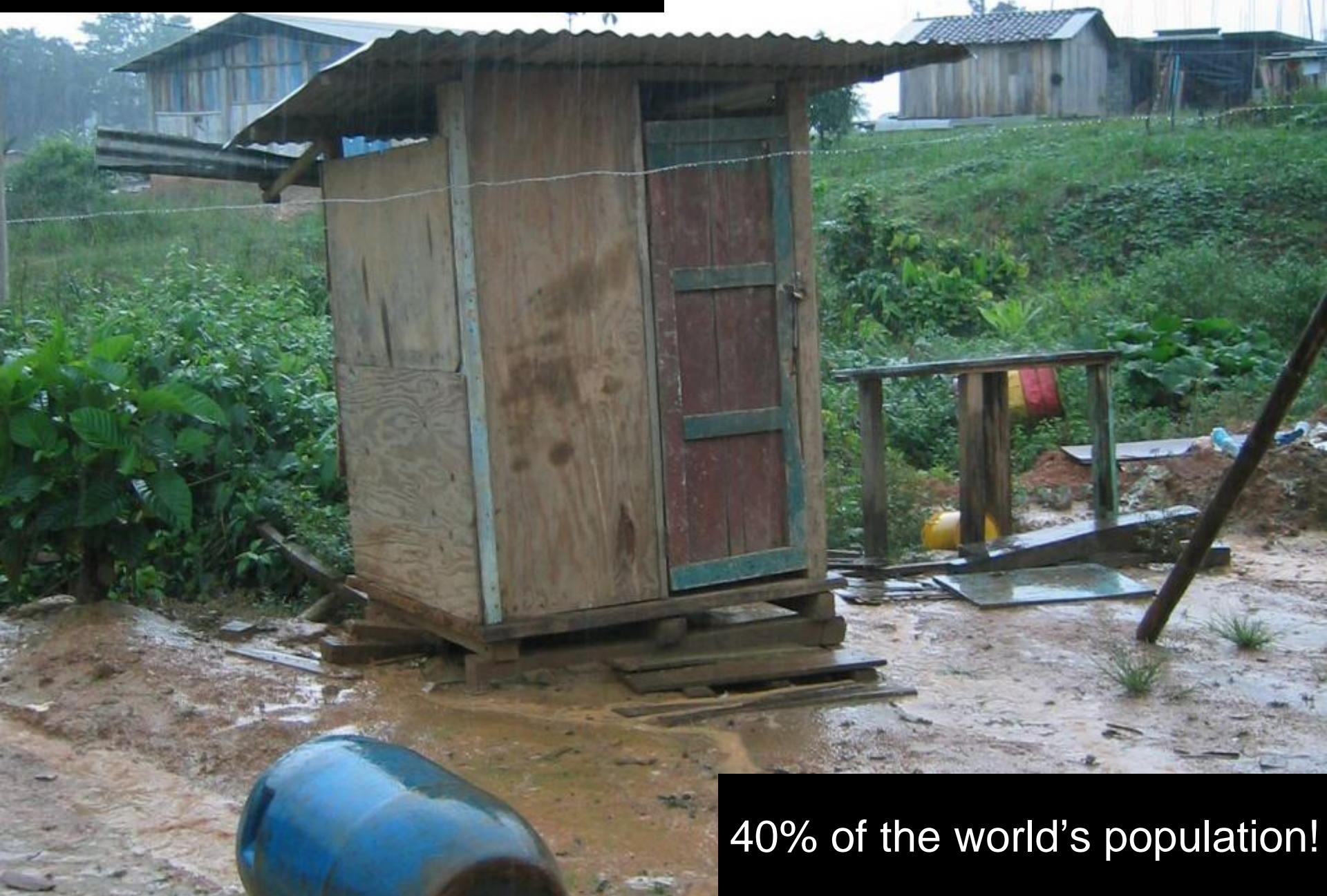


Safe...  
but will it be when it gets home?





2.8 billion people do not have  
access to basic sanitation



40% of the world's population!



*Peru*

More than 80% of  
sewage in developing  
countries is discharged  
untreated.

# Analysis: What is the problem?

## *WHY are we in this current situation?*

- Why are almost 1 billion people still without safe water?
- Why are 2.8 billion people without access to basic sanitation?

***Current approaches aren't working.***

***WHY?***

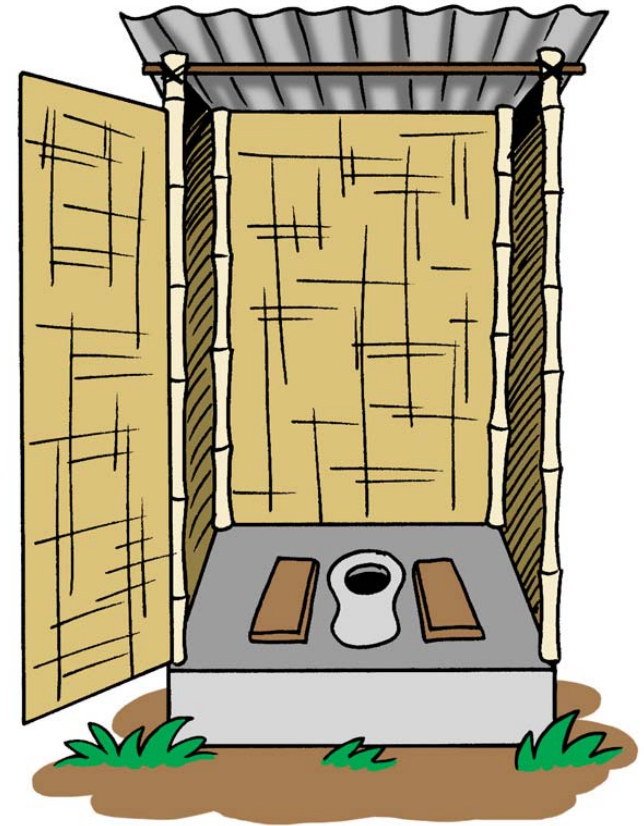




# Why is it not working???

## Four Primary Reasons:

- De-linked water from sanitation
- Lack of emphasis on the water-health connection
- Lack of investment in building peoples' capability to meet their own needs
- Lack of financing mechanisms for small community driven water and sanitation programs



**Basic Sanitation:**  
Pit Latrine

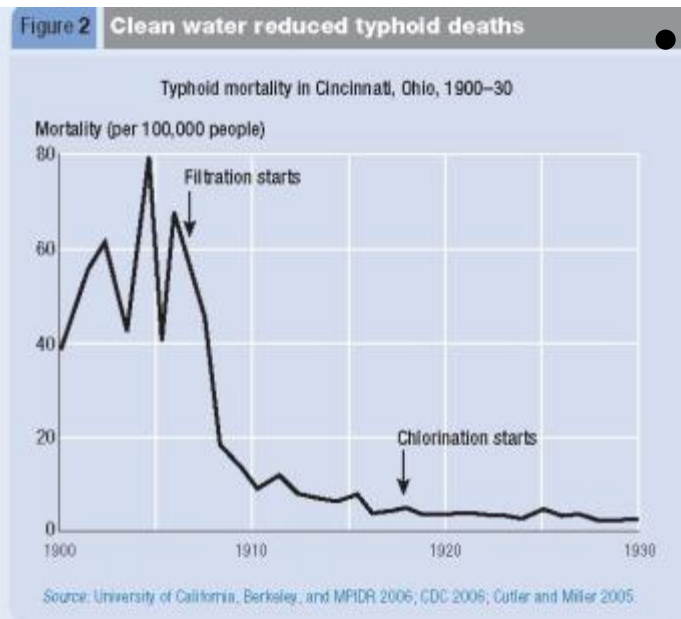
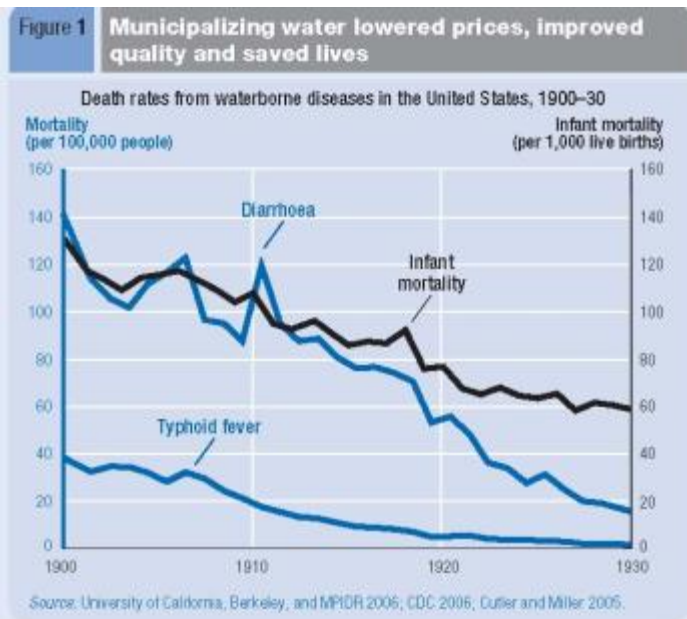
# De-linked water and sanitation

- Water initiatives separate from sanitation initiatives
- Water access measured separately from sanitation access





# Lack of emphasis on water-health connection



- Water treatment explains almost  $\frac{1}{2}$  of mortality reduction in US in the first  $\frac{1}{3}$  of the 20<sup>th</sup> century

Source: Cutler and Miller 2005; Cain and Rotella 2001; Troesken 2001; Blake 1956.

**YET.....**

- Water & Sanitation Millennium Development Goals listed under environmental sustainability, not under human health or poverty alleviation.
- Diarrhoeal disease incidence is not used as an indicator of water quality

# Lack of investment in building peoples' capability to meet their own needs





# Lack of Financing Mechanisms for small scale community projects



**UN Meeting**



**Bangladesh**

# Analysis: What to do?

***WHAT are the solutions in order to meet the colossal need?***

***WHAT did CAWST do?***

- The business model
- The results on the ground
- Our plans





# CAWST

**Vision:** A world where people have the opportunity to succeed because their basic water and sanitation needs have been met.

**Mission:** Provide technical and consulting services and act as centre of expertise in water and sanitation for the poor in developing countries.



# CAWST

**CAWST was formed to:**

- **Facilitate transfer of knowledge of low-cost water and sanitation solutions to communities globally**
- **Build the human capability to implement these low cost solutions**
- **Motivate organizations at all levels into action to provide water and sanitation for the poor**





# Differentiating Strategies

- Make water knowledge common knowledge
- Build capacity of government and non-government organizations.
- Start with Household Water Treatment
- Lead with the training
- Provide continuous services



**Biosand Filter Training  
Pakistan**

# Make water knowledge common knowledge

- Subsidised services
- Open content materials

4



**Training  
Community Health Promoters  
Cambodia**

**CAWST Picture Poster**



# Build capacity of non-government and government organizations

Make services available to those who serve the poor



**Training Non-government organizations  
Central America, February 2011**



**Training Government  
Community Health Promoters  
Cambodia**

# Start with Household Water Treatment

- Immediate protection from diarrhoeal disease
- Provides greater self sufficiency
- Leads to better sanitation

**Sedimentation**

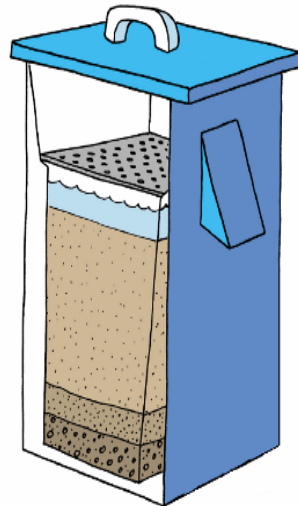
**Filtration**

**Disinfection**

Straining



Biosand Filter



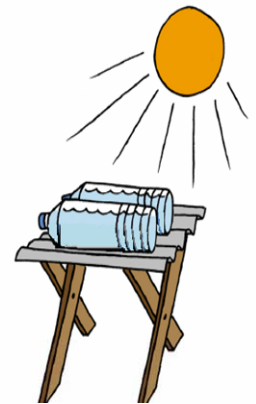
Ceramic Filter



Chlorine



SODIS - Solar





# Lead with the training

- Stimulate local ownership and leadership
- Empower local action



**Sudan**



**Afghanistan**

# Provide continuous service

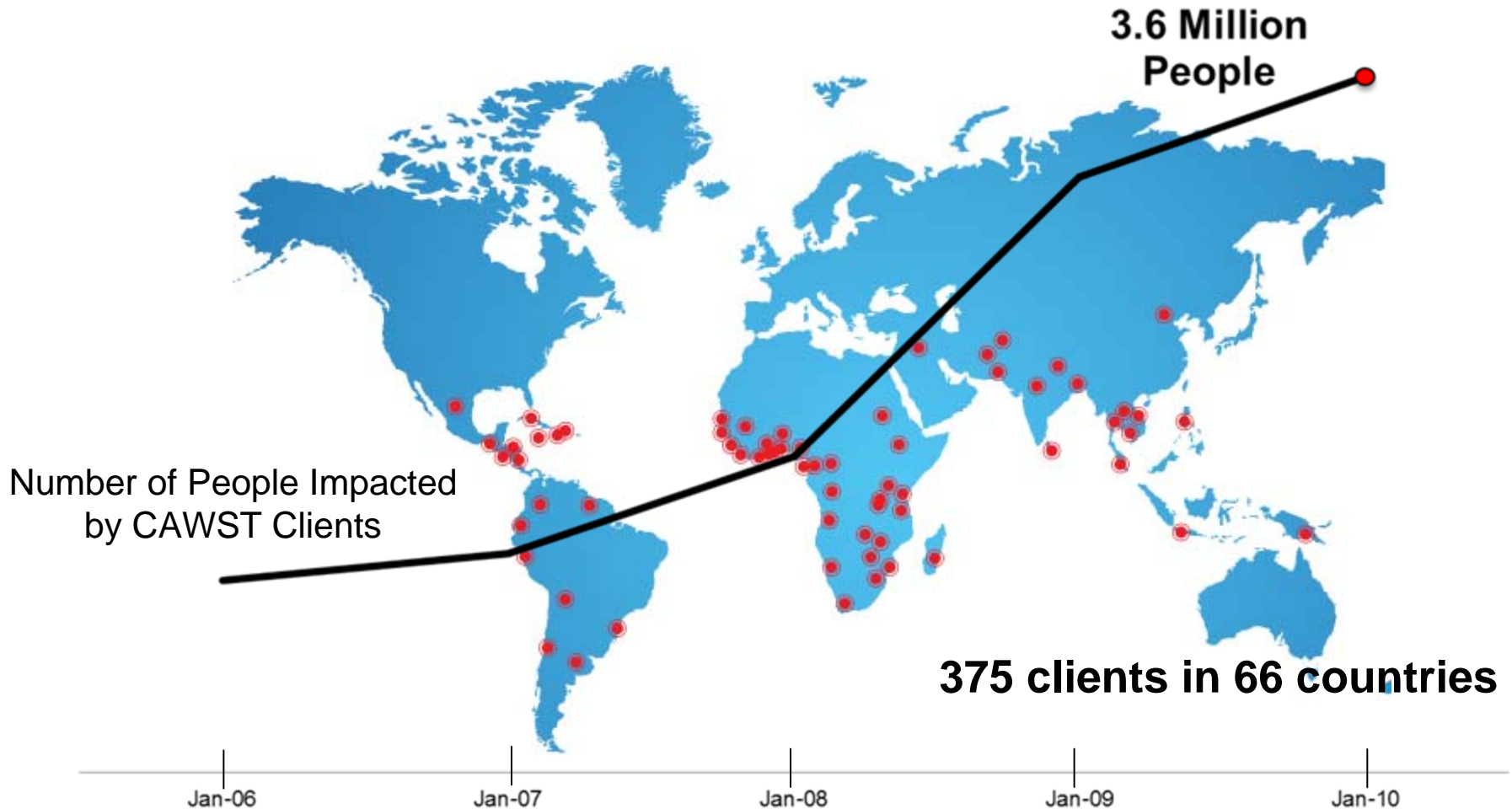


**Consulting support  
EDES, Non-government organization  
Peru**





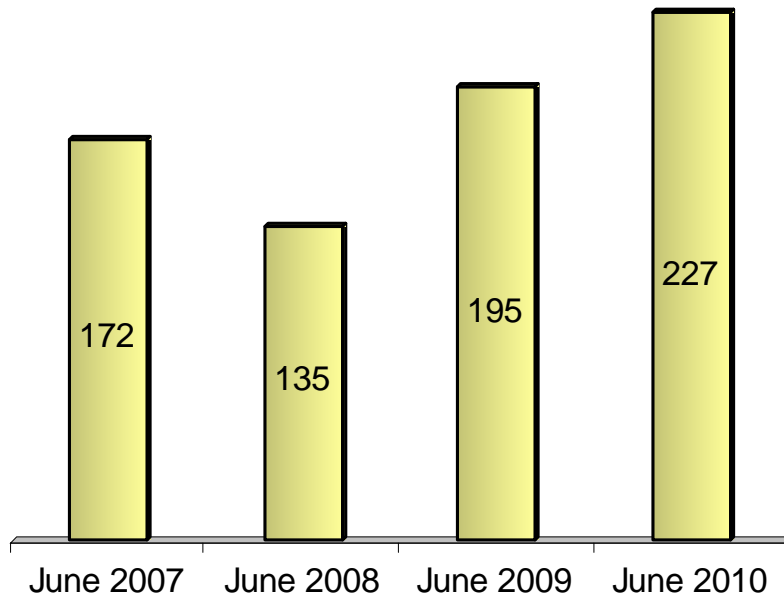
# CAWST Results



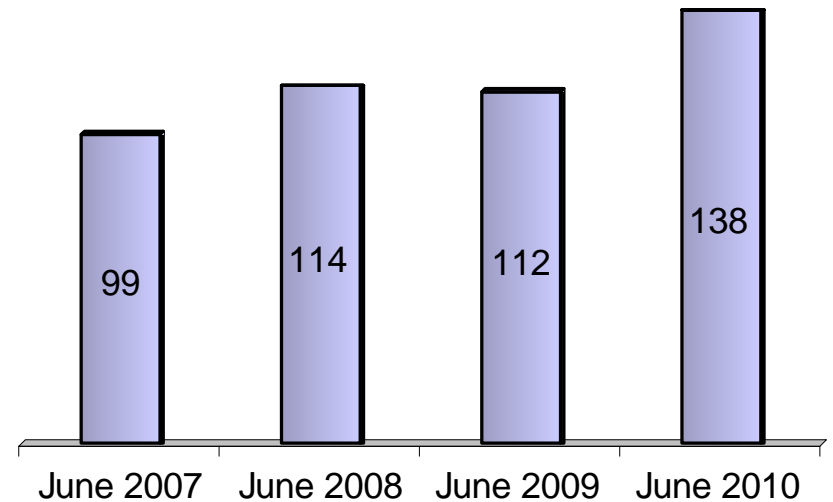
# Reach and Leverage

**129,000 people trained using CAWST's training materials in the last year**

**Clients Implementing Projects**



**Organizations using CAWST materials to train others**





# Stories and Stories of Independent Action

## People Finding Ways to Get Projects Started

*“These women had no money to fund this training and had no clue how much it would take to start up a project. A couple of weeks later these women had already built 6 filters – completely on their own” ... PAIDEH, Haiti*



*“Even when Gatsi travelled to Zambia, he did not have funding, he just wanted to do something to help with the epidemic (in Zimbabwe), so he made his own way here.” ... SOHIP, Zambia*

# Stories and Stories of Independent Action

## Training

***“The most inspiring part of the project so far was watching our first filter technician, Samuel, deliver the education presentation on his own. It was a challenge for him, but he rose to the occasion, assuring me the project would continue.” ... Hechos, Guatemala***



## Youth Action

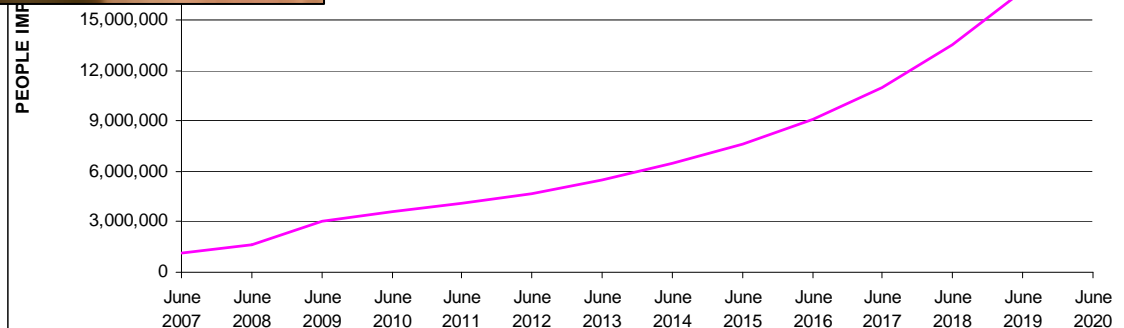
***“The kids really drove it. I love that it’s them taking action. It took very little encouragement from us.” ... W.O Mitchell Elementary, Canada***



# Our plans



India



# Support existing clients to improve quality and expand projects



**Cameroon**



# Develop local Water Expertise and Training (WET) Centres

- Afghanistan
- Bolivia
- Cambodia
- Cameroon
- Ethiopia
- Haiti
- Honduras
- Laos
- Nepal
- Peru
- Zambia



**WET Centre  
Learning Exchange  
Nepal**



**Signing WET Centre  
Agreement, Honduras**

# Continuously improve our services



**Strengthen & expand training in Sanitation  
Building Sanplats in Cambodia**

**Biosand Filter Research  
LeHigh University, USA**





# Educate and motivate Youth



**Calgary**



**Haiti**



**Tikho**  
**The Subject of CAWST's**  
**School Presentations**



# What can you do?

Let Teachers know about [www.wavemakers.org](http://www.wavemakers.org)



2009 Youth Summit

**Keep doing what  
you're doing!**  
You already have an  
important role to play

**Spread the word -  
Tell Others**



# What can you do?

## Volunteer



**Mahbuba Khanam**  
**Volunteer Assistant Trainer**  
**Bangladesh**

**\$\$\$**

**Donate**

## Sign up as a member (its free!)



**Maureen Darling**  
**2009 CAWST AGM**





*Thank you!*

[www.cawst.org](http://www.cawst.org)



# Biosand Filter

