

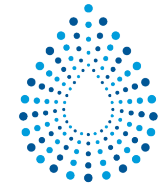
# DISPENSERS FOR SAFE WATER

Scaling Safe Water  
Treatment Cost-effectively



Dispensers for Safe Water is an initiative of  
Innovations for Poverty Action.

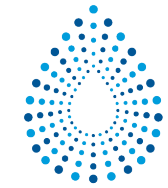
# OVERVIEW



DISPENSERS  
FOR SAFE WATER

- What is IPA?
- The Chlorine Dispenser System
- Scaling cost-effectively in Kenya

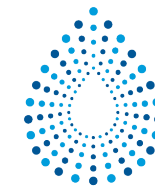
# INNOVATIONS FOR POVERTY ACTION (IPA)



DISPENSERS  
FOR SAFE WATER

- US-based NGO founded in 2002.
- Mission: to research what works in development using Randomized Evaluations.
- Projects span diverse sectors:
  - Agriculture, charitable giving, education, health, microfinance and enterprise, governance and community participation, and water and sanitation.
- 365 projects in 46 countries with 600 staff.
- IPA scales up successful ideas that have been proven by research, through:
  - Replication
  - Dissemination
  - Implementation.

# CHLORINE DISPENSER SYSTEM: ORIGINS

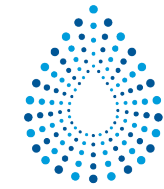


DISPENSERS  
FOR SAFE WATER

- Diarrhea leading cause for under 5 mortality in Kenya & MDGs emphasize access to improved water sources
- Randomized evaluation of spring protection showed water quality improved at source
- Recontamination identified as an issue
- Dispensers designed to increase take-up and reduce cost of household chlorination



# CHLORINE DISPENSER SYSTEM: 3 COMPONENTS



DISPENSERS  
FOR SAFE WATER

1. Dispenser Hardware



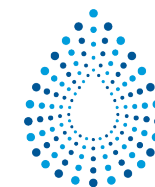
2. Local Promoter



3. Bulk Chlorine Refills

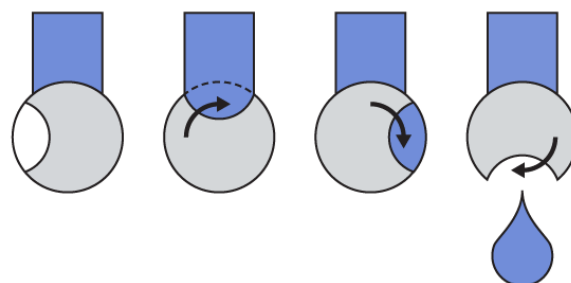


# DISPENSER TANK & VALVE



DISPENSERS  
FOR SAFE WATER

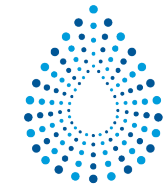
- 3 or 5 liter HDPE blow-molded tank
- Tank filled with 1.25% chlorine solution
- Valve doses 3mL volume of chlorine
- As the handle is turned, the valve fills and releases one dose:



- One valve-turn treats one 20 liter jerrycan / 5 gallon bucket of water
- One tank supplies community of 150 people for approx. 1 month



# SUSTAINED CHLORINE ADOPTION

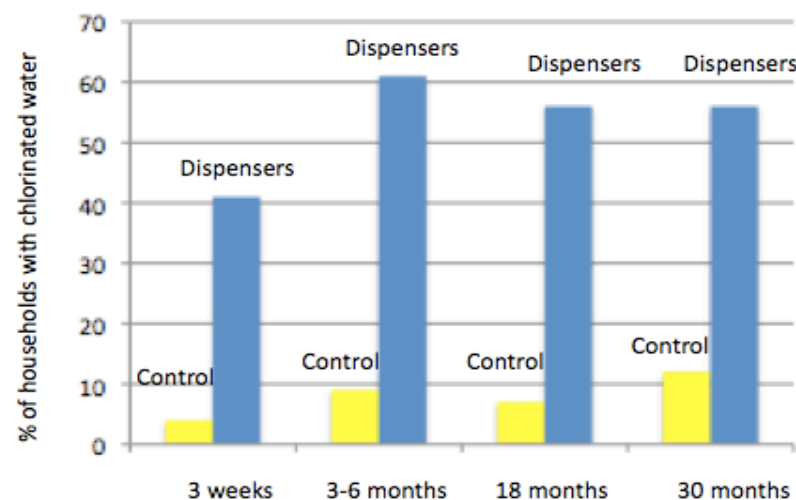


DISPENSERS  
FOR SAFE WATER

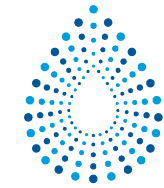
- Results of surveys conducted over 2 years showed:
  - Sustained high chlorine take-up levels in Dispenser communities compared to the controls.
  - Control communities had access to for-purchase bottled chlorine
- After two years, take-up remained **between 50-60%**.

## Potential for Impact: High Adoption

Adoption of Chlorination: Communities with Dispenser versus Control



# SCALING COST EFFECTIVELY

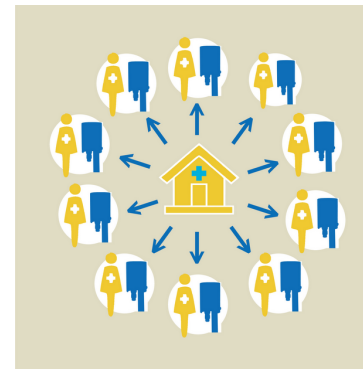


DISPENSERS  
FOR SAFE WATER

*Total Dispensers installed in Western Kenya:*

**2100** (January 2012)

- Ministry of Public Health and Sanitation
- Ministry of Education
- Ministry of Water
- Local government boards
- One Acre Fund (large-scale agriculture NGO)
- IPA research projects



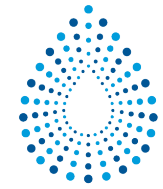
■ Hub & spokes model



■ Direct delivery model



# RESULTS IN KENYA

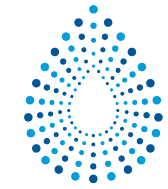


DISPENSERS  
FOR SAFE WATER

- Higher adoption:
  - Consistent service delivery
  - Interpersonal engagement
  - Community meeting attendance
  - Functioning hardware
  - HH w/ children and perceived unsafe sources

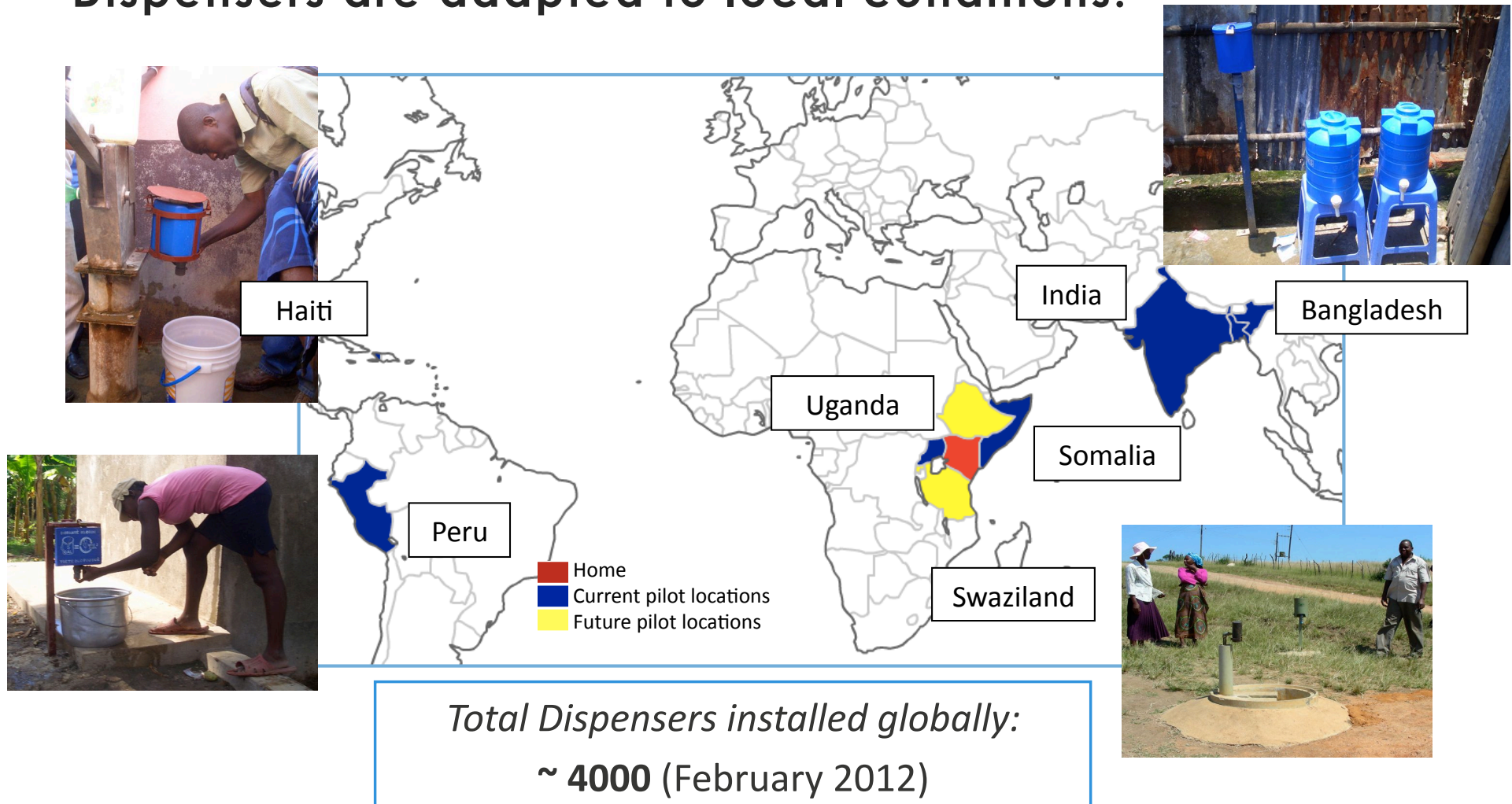


# GLOBAL PROGRAMS: CURRENT LOCATIONS



DISPENSERS  
FOR SAFE WATER

Dispensers are adapted to local conditions:







**THANK YOU**

**[WWW.POVERTY-ACTION.ORG/SAFEWATER](http://WWW.POVERTY-ACTION.ORG/SAFEWATER)**