

A photograph of a group of people outdoors. In the foreground, a man with a shaved head, wearing a red long-sleeved shirt, is seen from the back, with his arms raised. To his left, a woman in a white t-shirt and sunglasses is partially visible. In the background, several other people are standing, some with their hands raised. A white plastic chair is visible on the right. The background shows a white tarp and green foliage.

# Putting Heads and Hands Together to Change Behavior in Haiti

**JASON ROSENFELD, MPH  
LAKOU LA SANTE COLLABORATIVE  
UNC WATER AND HEALTH 2015  
OCTOBER 30, 2015**

# Outline

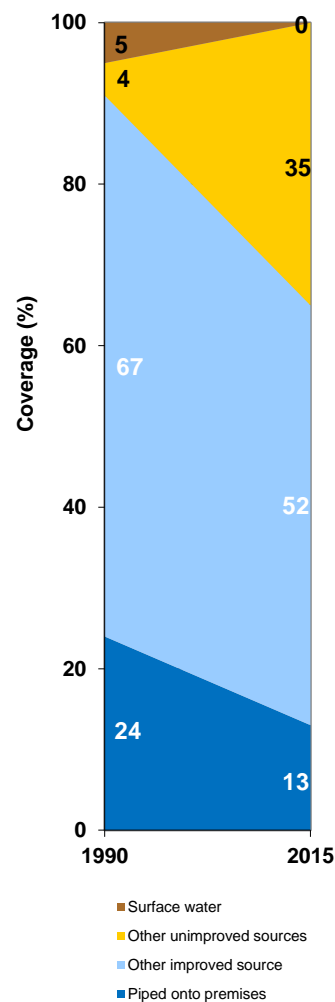


- Haiti Background
- Community Health Clubs in Haiti
- Program Evaluation
- Lessons Learned
- Way Forward

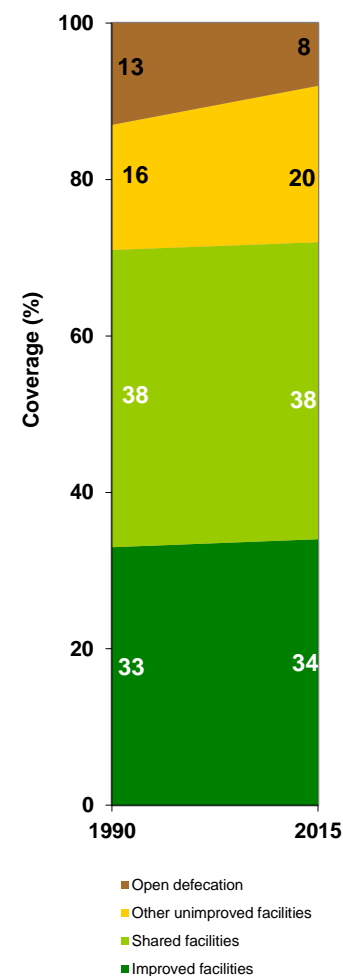
# WASH

- Access to improved water=58%
- Access to improved sanitation=28%
- Improved hygiene practices: limited to data

Urban drinking water trends



Urban sanitation trends



# Cholera

JAN - AUG 2015



NEW CHOLERA CASES

21,666



NEW DEATHS

192



COMPARISON WITH  
JAN-AUG 2014

+147%



COMPARISON WITH  
JAN-AUG 2014

+178%

OCT 2010 - AUG 2015



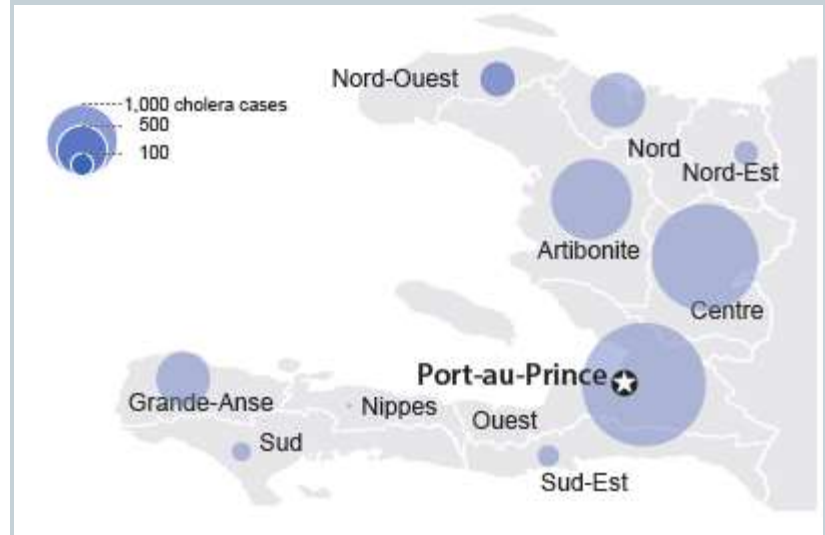
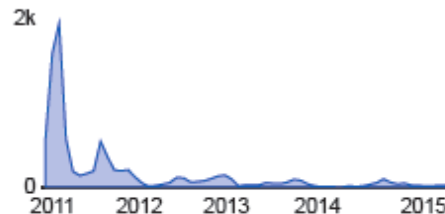
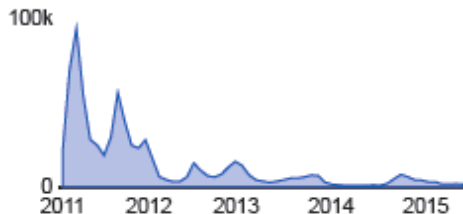
CUMULATIVE CASES

746k



CUMULATIVE DEATH

8,847



Source: Haiti: Cholera figures as of August 2015,  
UNOCHA, Accessed October 27, 2015



# Kleb Sante Kominote

Zafè Kabrit se Zafè Mouton!





# Program Objectives



## Goal:

To reduce vulnerability to water, sanitation and hygiene (WASH) related diseases, including Cholera, for at risk populations in Haitian communities.

## Objectives:

- Improve WASH knowledge, attitudes and practices
- Increase demand for safe water & sanitation
- Identify community-based solutions to problems of solid waste management, sanitation & water
- Encourage community action around WASH and environmental management

# Program Outcomes

- Increased Knowledge
  - Hand washing
  - Personal Hygiene
  - Prevention of Diarrhea
  - Prevention of Skin Diseases & Intestinal Worms
  - Prevention of Malaria/Dengue
- ▶ Improved WASH Practices
  - Hand washing
  - Water Storage
  - Kitchen Hygiene
  - Defecation Practices
  - Solid Waste Management
- ▶ Social Cohesion (Social Capital)





# 2012-2013



Community	Club Name	# Mem	Avg. Attend	# Graduates	% Graduates
Canaan-Jerusalem	Jerusalem Club	43	-	13	30%
Carrefour Feuilles	Eco de Carrefour Feuilles Club	47	-	21	45%
Lizon-Bon Repos	L’Institution Mixte Anne-Marie Javouhey Club	72	-	14	19%
Sarthe Germain	Sarthe Germain Club	31	-	19	61%
Sarthe Carrefour Vincent	La Nouvelle Jerusalem de Sarth Club	54	-	18	33%
Simon Pele	Lakou Lape Club	71	-	49	69%
Totals		318	-	134	42%

# 2012-2014

Community	Club Name	Club Slogan	# Mem	# Grads (%)
Canaan	Jerusalem Club	Health is free.	77	30 (40%)
Blanchard Lakou Leon	Ksk Lakou Leon	Health all the time	64	34 (53%)
Rosenberg	KSK hands together	Health for one and Health for every one	27	24 (89%)
Village des Rapatries Haitiens	KSK For a better Development	Look in Front health before everything.	25	20 (80%)
Barriere fer	KSK Barriere Fer	Each one helps others	50	44 (88%)
Cite Soleil	KSK My shining sun	With prevention no disease	35	29 (83%)
Carrefour Feuilles	KSK Fouchard	One community is a chain solidarity to manage health.	74	32 (43%)
Carrefour Vincent	KSK Inst Exp de Sarth	We are all concern. Health is for every one	62	-
Cite Soleil	Friend of Health	Health for ever	20	16 (80%)
Simon Pele	KSK for discovering the wealth of life	Health is the more wealth	33	33 (100%)
Lizon	KSK Inst Anne- Marie javouhey	Health is the salt of life	75	-
Simon Pele/ Cite Dieuseul	KSK nan Site Dyesel	We want health and cleaning	55	46 (84%)
Simon Pele	KSK pou lavi	ak la pwopete nap konbat maladi	25	23 (92%)
Lizon	KSK Bring and join	My health is yours	25	12 (48%)
Corail	KSK de Corail Cesse-lesse		25	13 (52%)
Aéroport Simon 6	KSK Lavni	Health all the way	20	15 (75%)
lilavois 5, house's member	KSK Revolution	Revolution of cleaning = health al the way.	34	16 (47%)
Sarth school	KSK Jn-Baptiste du Sable	Health is victory	30	20 (67%)
Simon Pele	KSK Lakou La Roche	We like cleaning, we are working to keep our community cleaned	30	25 (83%)
Totals			617	432 (70%)

# 2014-2015



- **32 New Clubs: +1,000 members**
  - 25 new facilitators trained
  - 11 existing facilitators
  - 1 Club in Mirebalais
  - WASH Curriculum
- **15 Existing Clubs: ~400 members**
  - 16 facilitators trained
  - Reproductive Health Curriculum
- **September 6th Graduation**
  - +900 Graduates





# Living Water International



- 3 Year WASH program in Cabaret and Dondon
  - 2013-2014: Cabaret
    - ✦ 10 Community Health Clubs & 9 School Health Clubs
    - ✦ Milot: 38 members
    - ✦ Over 1,300 members; over 1,000 graduated in 2014
  - 2014-2015: Cabaret & Dondon
    - ✦ 5 existing facilitators started 5 Clubs with 89 members
    - ✦ 25 additional facilitators trained in Cabaret & Dondon

# Hand washing with soap



BIENVENUE  
LAKOU LEXON  
KOUTWAZI



# Environmental Clean Up





# Social Activities



# Evaluation



- May – June 2014
- Graduate researchers
  - Yale University and Health Science Center
- Mixed methods, case study design
  - Semi-structured interviews w/Facilitators (n=16)
  - Household survey (n=198)

	Graduates N (%)	Non- Members N (%)	Total N (%)
<b>Blanchard Lakou Leon</b>	18 (30)	42 (70)	60 (30.3)
<b>Barriere Fer</b>	22 (26.5)	61 (73.5)	83 (41.9)
<b>Rosenberg</b>	12 (21.8)	43 (78.2)	55 (27.8)



# Study Demographics



	Graduates N (%)	Non-Members N (%)	Total N (%)
<b>Sample</b>	52 (26.3)	146 (73.7)	198
<b>Gender</b>			
Male	22 (42.3)	42 (28.8)	64 (32.3)
Female	30 (57.7)	104 (71.2)	134 (67.7)
<b>Age</b>			
18-25	32 (61.5)	28 (19.2)	60 (30.3)
26-35	11 (21.2)	42 (28.8)	53 (26.8)
36-45	6 (11.5)	38 (26)	44 (22.2)
45+	3 (5.8)	38 (26)	41 (20.7)
<b>Employed</b>			
Yes	13 (25)	53 (36.3)	66 (33.3)
<b>Education</b>			
None	1 (1.9)	12 (8.6)	13 (6.8)
Some Primary	9 (17.3)	35 (25)	44 (22.9)
Primary	30 (57.7)	65 (46.4)	95 (49.5)
Secondary	7 (13.5)	12 (8.6)	19 (9.9)
University/Professional	4 (7.7)	16 (11.4)	20 (10.4)



# CHC Membership, Awareness & Identity Formation



- 50% of graduates lived with at least one other graduate
- 26% of non-members ever heard of CHC
  - 4% ever attended a meeting
- Club Names
- Club Slogans

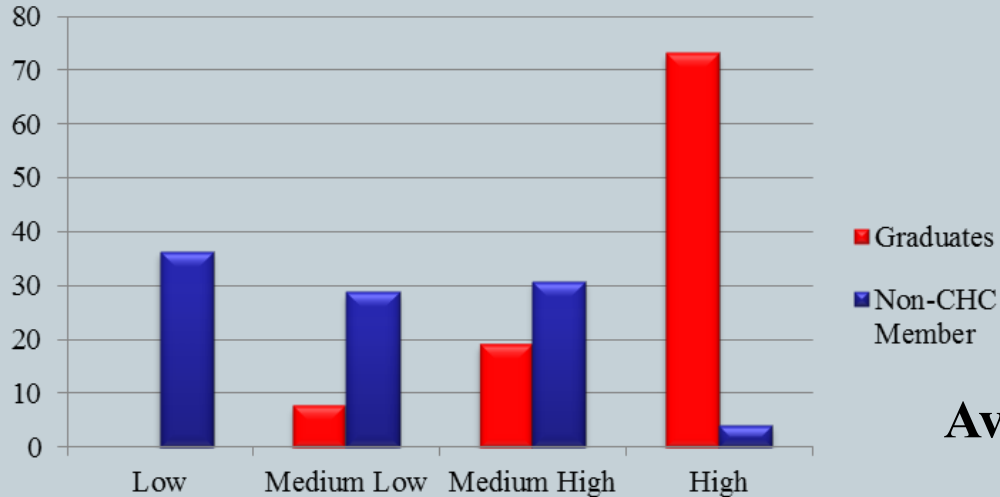


# Zafè Kabrit se Zafè Mouton!



# WASH Knowledge

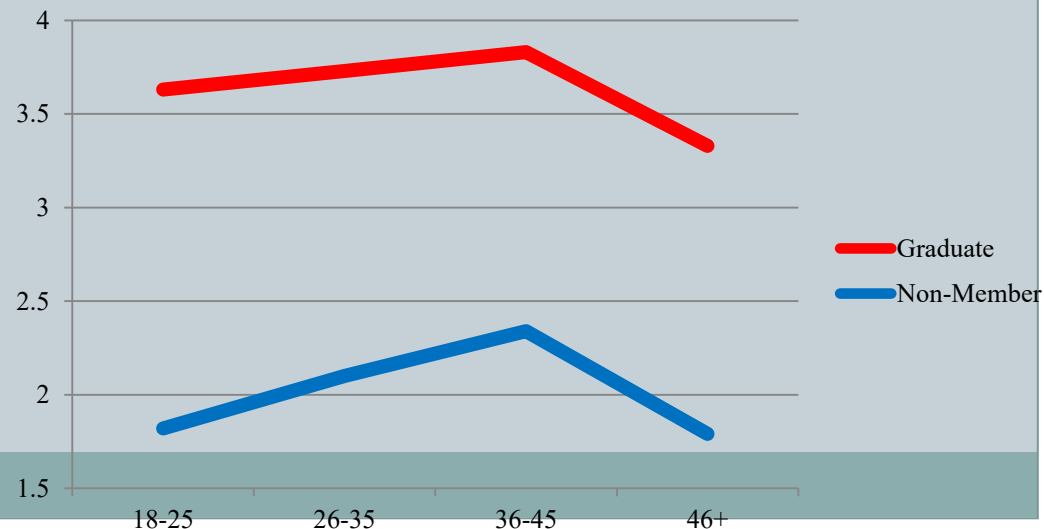
## *Binned WASH Knowledge Scores*



CHC Members are significantly more likely to have a high binned WASH knowledge score (86.4%) than Non-CHC Members (13.6%), chi square,  $\chi^2(3, n=198) = 110.1$ ,  $p < 0.0001$ .

Weak, negative correlation between Age and WASH Knowledge,  $r = (-0.249)$ ,  $n = 198$ ,  $p < 0.0001$ ; independent of CHC membership.

## Average Binned Knowledge Scores by Age Group





# Defecation Practices



75.3% of all HH have access

	Open defecation N (%)	Share N (%)	Own latrine N (%)	Own WC N (%)
Graduate	2 (3.9)	11 (21.6)	35 (68.6)	3 (5.9)
Non- member	18 (12.6)	14 (9.8)	82 (57.3)	29 (20.3)
Total	20 (10.3)	25 (12.9)	117 (50.3)	32 (16.5)

- Of HH without a latrine or WC (n=45), **Graduates are more likely to share a neighbors/friends facility** (84.6%) than openly defecate, as compared to Non-Members (43.8%), Fisher's Exact Test  $p < 0.02$ .
- Of those with a sanitation facility and consented to observations (n=139), **Graduates are more likely to have a clean facility** (74.4%) as compared to Non-Members (45.0%),  $\chi^2(1, n=139) = 9.714$ ,  $p=0.002$ .



# Barriers to Improved Defecation Practices



- ‘People don’t have time or don’t want to do cat sanitation.’
- ‘They are living like sardines, and if you would like to build a community latrine for them, you cannot find any place.’
- ‘I’m in the community talking about the subjects, and we all know about the consequences, but we don’t have the financial means to do anything about them. ... But effectively, until now we haven’t found any partners or available government branches or representatives to help us with those activities.’

# Challenges/Lessons Learned



- Knowledge and social identity not sufficient in urban setting
- Must recognize contextual dimensions of WASH practices
  - Access to markets/products
  - Enabling resources
  - Built/Natural environment
- Innovative technologies

# Phase II: Big Decisions



# Way Forward



- Partnerships, partnerships, partnerships
  - SOIL, Zanmi Lasante, DINEPA
- Leverage social identity/group cohesion for social entrepreneurialism
- Further integration into national strategies





**To stay healthy...**



Mesi Anpil!



Ak Santé Gen Lavi!