

# transforming the way people get water



WaterHealth Ghana Presentation – Standards to Support U.S.-Ghana Trade and Investment Accra, Ghana March 31<sup>st</sup>, 2017

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I. Global Scenario



#### OVER 783 MILLION PEOPLE ON THE PLANET DO NOT HAVE CLEAN DRINKING WATER!

# ONE IN TEN OF WORLD'S POPULATION

# OVER 700,000 CHILDREN IN AFRICA DIE ANNUALLY DUE TO UNSAFE DRINKING WATER

# ONLY 0.3% OF WATER ON EARTH IS USABLE

# -1,000,000,000 One billion AT RISK EVERYDAY DUE TO UNSAFE WATER

# SECONDS water.

A child

dies from



EVERY

unite for children

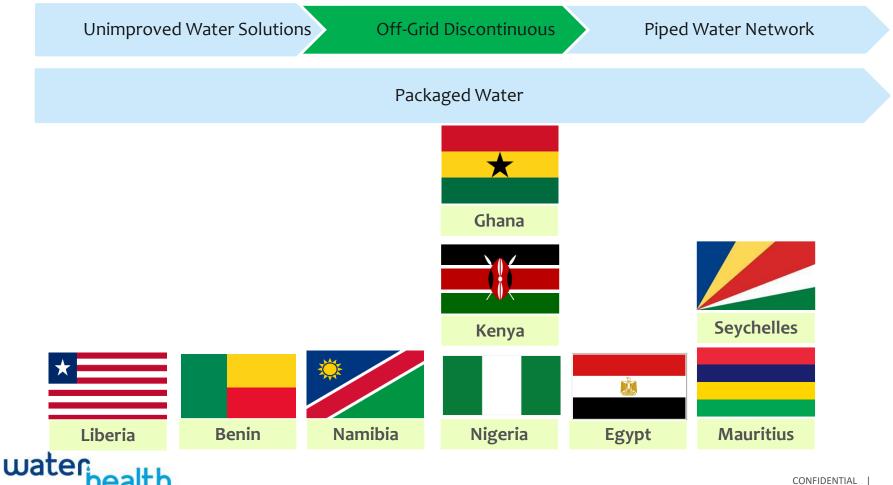
# I. Global Scenario – Drinking Water Sources (Utilization)

Different countries utilize different water sources. While one end represents least developed nations that utilize only surface water to meet drinking water needs, the other end represents developed nations which effectively utilize all the different water sources.



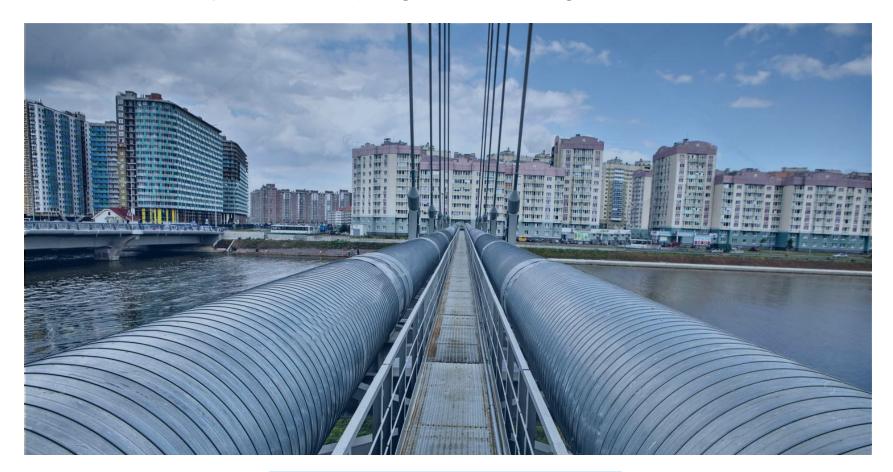
# I. Global Scenario – Drinking Water Solutions (Developing Nations)

The focus of most developing nations is to move away from the scenario of no water infrastructure to having 24 X 7 piped water access. But most countries do not understand that a 100% access to piped network would take considerable investment, time and effort.



# I. Global Scenario – Drinking Water Solutions (Developed Nations)

All developed nations have 24 X 7 access to piped drinking water due to availability of world-class infrastructure and adequate investment by the government to strengthen the water sector.



Not all models are applicable everywhere

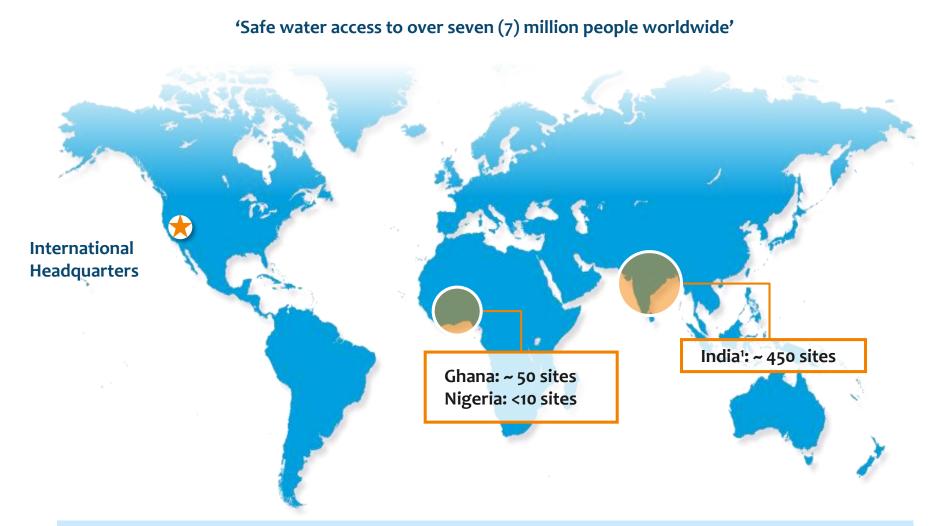
### II. Introduction to WaterHealth – why we exist?



- WaterHealth, a global leader in decentralized drinking water solutions.
- WaterHealth is currently providing safe water access to over seven (7) million customers through the brand name dr. water in underserved communities.
- Currently operating in India, Ghana and Nigeria.

	What do we solve?	 Whom do we serve?	 How do we serve?
	The 'Need' for safe drinking water	The underserved communities	Innovative water solutions
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### **II. Introduction to WaterHealth – Global Presence**



WaterHealth International (WHI) plans to install 5,000+ systems by the year 2020.

### II. Introduction to WaterHealth – Vision and Mission

WaterHealth aims to provide safe water access to large number of communities.

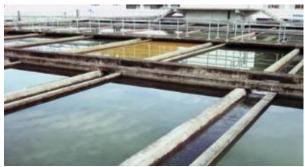




# **II. Introduction to WaterHealth – Treatment Solution Comparison**

Decentralized Community Water Systems vs. Traditional, large-scale water treatment plants





S. No.	Parameters	Decentralized Systems	Centralized Systems		
4	Capital Investment	Small per system investment (\$4.8 per	Large upfront investment (\$22.6 per		
I	Capital Investment	beneficiary).	beneficiary).		
2	Installation Lead Time	Short, 8-10 weeks.	Long, 3-5 years.		
3	Operations and	Designed to be simple and therefore easy to	Complex, requires specialized skills and		
	Maintenance	operate and maintain.	long down time.		
4	Quality Monitoring	Local, where consumers are served.	Central, very far from the point of		
			consumption.		
5	Raw water source	Optimized to make use of local sources like	Requires extra-large water sources like		
		lakes, ponds, bore wells etc.	river, dams etc.		
6 1	Adverse impact on environment	Low, since <1% of overall water consumption	High, since the project would utilize large		
		in a community is utilized leading to optimal	quantity of surface water thereby puttin		
		use of natural resources.	a lot of stress on the ecosystem.		
		Limited people are affected due to	Large number of people are affected,		
7 1	Impact of plant	decentralized operations of the plant and	difficult to provide safe water access due		
	breakdown	water access can easily be provided through	absence of immediate alternative		
		alternative sources.	solutions.		
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### **II. Introduction to WaterHealth – A transformational solution.**

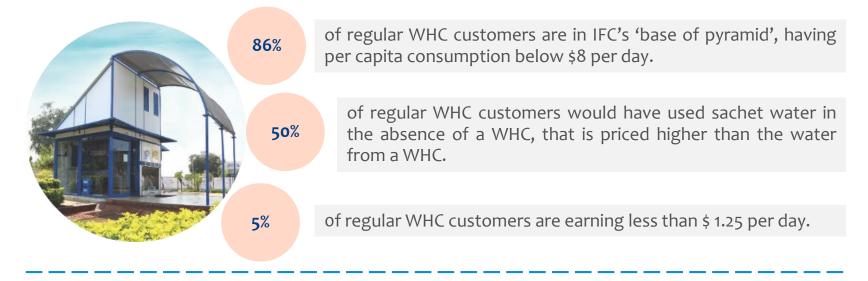
WaterHealth is providing **safe**, **reliable** and **affordable drinking water** to the underserved communities worldwide.

# end-to-end, sustainable, and scalable drwater Water Purification **Operations and** Quality Social Marketing Monitoring Plant Maintenance

### II. Introduction to WaterHealth – WaterHealth's Impact

water

• WaterHealth has conducted a study to estimate the socio economic status of WHC household customers in a community. Some of the key findings of the study include,



- Another study conducted across three (3) communities (Nsuta, Abenkro and Mampong) in Ghana where WHCs are operational has revealed that,
  - i. about 62% of the people (in Nsuta community) relied on WHC for their primary source of drinking water.
  - ii. More than 60% of the community members rated WHC excellent on 'neatness of the surroundings' and 'neatness of water'.
  - iii. Most of the people (Mampong and Nsuta community) preferred WHCs over the other water supply system.

### II. Introduction to WaterHealth – Impact Story # 1

One of the many stories that narrates WaterHealth's Impact.



"dr. water is the safest and purest drinking water within in the community"

For some time now we have been using tap water but we decided to use dr. water when WaterHealth opened their WaterHealth Center in our community. It is the safest and the purest water within the community. The school kids have stopped drinking from the sachet water, they fetch water from WaterHealth Center in dr. water jerry can so we don't waste water anymore. I am also happy with the prompt delivery of the water by the deliveryman.

- Anna Mills-Awoo, Unique Care International

### II. Introduction to WaterHealth – Impact Story # 2

Other story elucidating WaterHealth's Impact.

"The water is fresh to drink and has no added chemicals unlike the other brands"



Earlier I was selling only other brands of water but when the Ashaley Botwe WaterHealth Center started, the Relationship Executive (RE) for the plant came and introduced me to dr. water and WaterHealth Ghana since then I have started to strongly promote dr. water. The water is fresh to drink and has no added chemicals unlike the other brands.

I also don't know how the other brands purify their water but with dr. water I know how they run their treatment processes so I have the confidence that they provide high quality water. I even recommended them to a school in the community and pray that dr. water becomes number one.

- Antoinette Setorwu, Aqua World Enterprise Dome

## **Sales and Distribution**





### Push cart

waterhealth

Tricycle

### **Ghana Consumer Benefit Communication**

### "We drink dr. water. We are **9 times** healthier!"



dr. water consumer households are 9 times\* less likely to experience a waterborne disease as compared to non-using households



Customer Helpline 0501278725

\*As per WaterHealth Impact study conducted by IMRB, India for International Finance Corporation

### water

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# Now get two dr. water fridge bottles free

#### on purchase of dr. water jerry can



#### It's safe and hygienic to use

- Carry anywhere you go School, Office, Gym
- Light weight, economic and durable
- Recyclable
- Available at a WaterHealth Centre near you



#### WaterHealth Centre



0501278725

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### **Ghana Consumer Connect**



- dr. water branded house name plates have helped connect with consumers apart from increasing awareness.
- The program aims to build a sense of pride in dr. water consumers (satiate the emotional need to justify brand adoption) and spread word of mouth.

# Social Campaigns

# A business that drives social transformation in the community

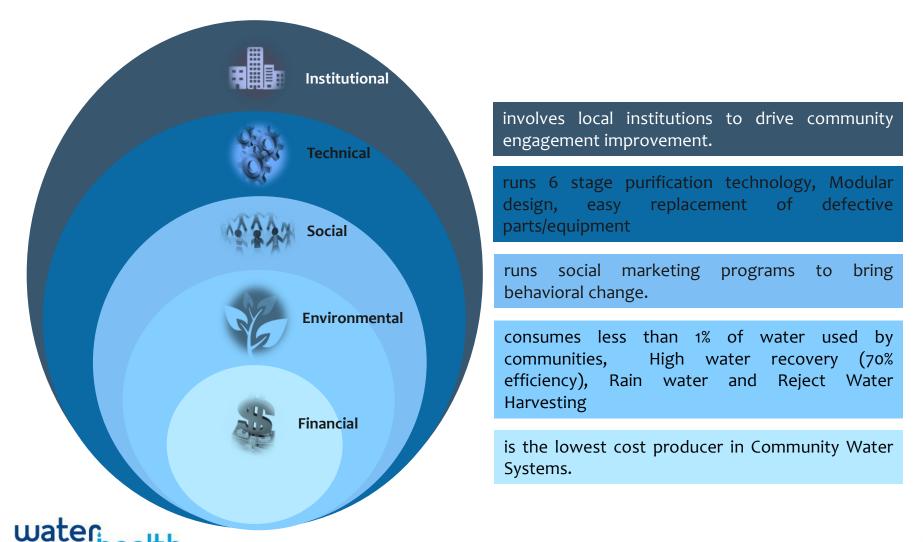
- The Company's scope of work extends beyond the purification and water life cycle management, WHG runs well conceived Social Marketing programs to change Community behavior towards safe drinking water.
- These programs are customized to spread awareness about the health benefits of safe water, even in communities where little or no healthcare knowledge exists.
- Presence of WaterHealth Center in the community impacts as a greater productivity at work and improved attendance in schools due to reduced instances of waterborne diseases. It also improves community economy by creating entrepreneurship and employment opportunities for residents.





### II. Introduction to WaterHealth – Sustainability Program

WaterHealth defines five (5) pillars of sustainability. WaterHealth,



### III. Ghana Overview

water

- Ghana is one of the most densely populated countries in West Africa.
- According to an estimate, 40% of urban population is covered under piped network. Inadequate investment in water infrastructure over the past few decades has restricted the piped water growth. Subsequent water rationing, poor quality of water and limited storage systems leave large parts of the population with inadequate potable water.
- Only around 49% of rural population has water access through boreholes, hand-dug wells and small piped systems.
- Where lack of infrastructure and/or rationing have left a void, entrepreneurial water vendors have stepped into sell water in three (3) general delivery modes i.e. water tanker supplies, tap water and packaged or sachets with varying degrees of filtration or disinfection.



### IV. Proposed Plan – 'Safe Drinking Water Access'

- Based on the experience and understanding of various customer groups, WaterHealth Ghana intends to provide safe and clean drinking water access to the underserved communities of Ghana i.e. the ones that face significant water contamination.
- The equipment designed by WaterHealth is customized to remediate the contamination in the raw water source.
- The plan is to provide safe and affordable drinking water access to over twenty (20) million consumers by 2020.



### **IV. Proposed Plan – Proposed Solution(s)**

The various solutions proposed by WaterHealth and Jaldhaara Foundation to serve the underserved communities in Ghana include,

- 1. WaterHealth Center (WHC) is a decentralized water treatment system which provides affordable, safe water to underserved people sustainably. The WHCs are ideal solutions for serving a community which have a population ranging between 10,000 20,000 people.
- 2. Water Vending Machine (WVM) is an automated water purification system which provides 24 x 7 safe water access to the people. The ability to purify and dispense water makes this an ideal solution for small communities with population of less than 4,000 people.
- 3. Autonomous Transportable Operating Module (ATOM), WaterHealth has recently added ATOM to its product line. ATOM is a low cost, rapidly deployable containerized unit which has advanced controls and remote monitoring capabilities. All these capabilities make ATOM an ideal solution for disaster relief and rehabilitation operations.





# V. Program Highlights – 'Safe Drinking Water Access'

1Establishing footholdPhase I208-15~30ConcludedSafe Water for Merica (SWA)', Water and Development Alliance (WADA)2Import Safe Water for NetherlandsImport Safe Water for Ne	S. No.	Program Name	Phase	Period	WHCs Installed	Current Status	Partners	Products
2Safe water for urban underservedPhase II2015-17~~85in progress available/o 	1		Phase I	2008-15	~ 30	Concluded	Africa (SWA)¹, Water and Development	
3       Safe water for rural and remote areas       Phase III       2017-20       WHCs in large communities       Initial program program program program program progress       Jaldhaara Foundation Ghana	2	urban	Phase II	2015-17	~ 85	in progress and is available/o pen for funding of	Enterprise	
Confidentia		rural and remote areas	Phase III	2017-20	<ul> <li>WHCs in large communities</li> <li>b) ~ 1,000 WVMs in high footfall</li> </ul>	program planning in	Foundation	

The details of the phased plan that is currently being implemented by WHG are indicated below.

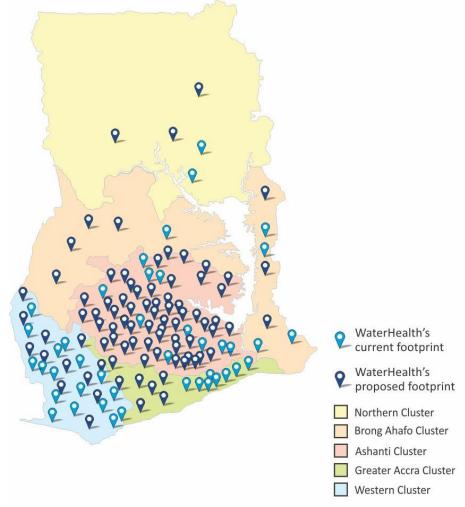
### **VI. WHCs Rollout – Proposed Footprint**

#### Current Footprint

- WaterHealth Ghana (WHG) launched its operations in 2008 and during the first phase (i.e. 2008-15) of establishing its footprint in the Country, the Organization installed about thirty (30) WHCs across various regions in Ghana.
- WHG's Phase II focuses on providing safe drinking water access to urban underserved communities across various locations in the country.
- Proposed Footprint

water

- i. WHG intends to conclude the Phase II in 2017 by setting up 115 WHCs cumulatively.
- WHG has already started the process of conceptualizing Phase III that will also cover rural and remote underserved areas. The proposed plan is to set-up another 250 WHCs during this phase



# **GWW Project Launch**



WHC Launch event in Kantinkyiren community.

WHC Launch event in Effiduase community

- His Majesty Otumfuo Osei Tutu II inaugurated the Community Water System to provide clean and safe water to the people of Kantinkyiren in the Ashanti Region. Representatives from the Otumfuo Charity Foundation, DWP (Dutch Water Partners), the local government, Chiefs of various communities, NGO partner GLOWDEP and a large gathering of community members and media attended the function besides the top management of WaterHealth.
- Chief of Effiduase community, Nana Adu Ameyaw II, inaugurated the WaterHealth Center in the community. It was attended by important members from the Community and the Assembly apart from representatives from WaterHealth.

# Commissioning Kantinkyiren WaterHealth Center



Welcoming His Royal Majesty Otumfuo Osei Tutu II-The King on the Golden Stool

# Commissioning Kantinkyiren WaterHealth Center



# Commissioning Kantinkyiren WaterHealth Center



# Inauguration Ceremony Effiduase WaterHealth Center



Young students trained by GLOWDEP to reciting poems on dr.water and safe drinking water



Traditional drumming and dancing troupe



Ribbon-Cutting Ceremony by Nana Adu Ameyaw II

# Inauguration Ceremony Effiduase WaterHealth Center



Young students trained by GLOWDEP to reciting poems on dr.water and safe drinking water



Traditional drumming and dancing troupe



Ribbon-Cutting Ceremony by Nana Adu Ameyaw II

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Some of the images of the launch event have been given below.



Panel : Mr. Sarpong of KOSMOS, Mr. Kuzoe [middle], MTN Foundation and Mr. Vikas Shah of WHI

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H.E. Ron Strikker, the Ambassador of the Kingdom of Netherlands to Ghana [right] and Mr. Fred Smiet [left] observing proceedings





Fred Smiet ,first secretary , Ron Strikker, the Ambassador of the Kingdom of Netherlands ,, Mr Vikas Shah WHI, Melinda Tabler-Stone and Mr Cosmos B. Kambozia. MLGRD

Some more images of the JF Ghana launch event.



H.E. Ron Strikker, the Ambassador of the Kingdom of Netherlands to Ghana addressing the audience at the event. Waterhealth

Mr. S.R Amji from the Indian Embassy[middle].



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# **Thank You**

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