





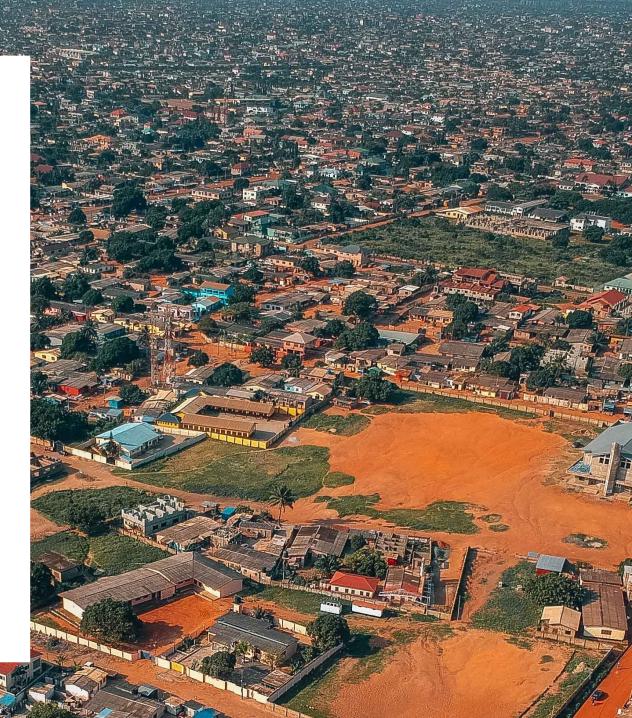
# Water & Sanitation Products: Plastic Manufacturing & Distribution in

Liberia

Research by:

Archipel&Co.

March 2023



### PARTNERSHIP FOR BETTER LIVING





The Partnership for Better Living (PBL) is a five-year cooperative agreement between USAID and LIXIL, through its social brand, SATO.

The partnership aims to expand household access to sanitation and increase adoption of key hygiene behaviors through market-based approaches for at least 2 million people by 2026.

To learn more, please visit:

https://www.globalwaters.org/content/partnership-better-living

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SATO has worked with social innovation agency Archipel&Co to inform its **West African Manufacturing and Distribution approach** as part of its USAID partnership: The Partnership For Better Living

### **Research objectives**

- Help SATO make faster and better decisions about future manufacturing and distribution expansion in West Africa.
- Help other water and sanitation innovators make faster and better decisions about future manufacturing and distribution expansion in West Africa.

### Geographical scope



#### **West Africa**

- Ghana
- Ivory Coast
- Liberia
- Nigeria
- Senegal

### In 90 days, Archipel&Co has identified long listed organizations, deep dived into short-listed organizations, and developed a data visualization solution



### **Secondary Research**

**80+** plastic water and sanitation manufacturers identified

**60** plastic water and sanitation distributors identified



### **Primary Research**

5 countries visited in West Africa

20 companies shortlisted across Ghana, Ivory Coast, Liberia, Nigeria, and Senegal



### **Data visualization solution**

1 database built on Airtable for both SATO & open access

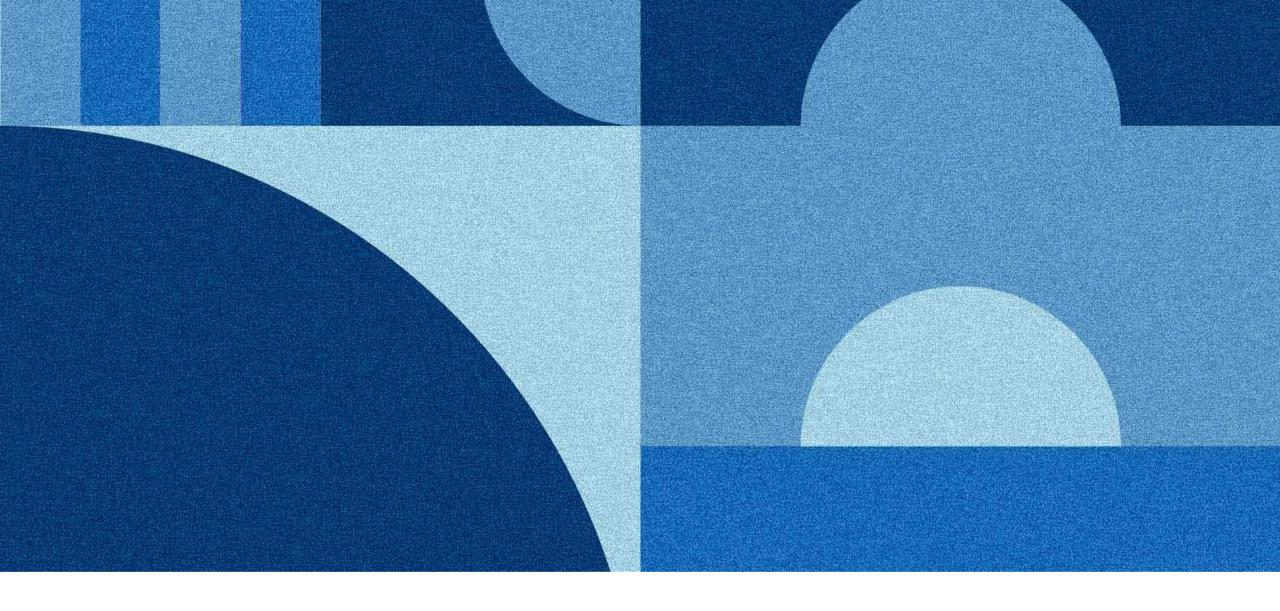
24 company profiles built on Shorthand for open access

1 opportunity matrix generated across and within countries

#### **Terminology of Stakeholders BUY FROM SELL TO Manufacturers** Distributors and big retailers in Import raw materials or Refers to producers of households plastic goods or sanitary products components from abroad large volumes **Distributors** Refers to companies buying directly from manufacturers or importers and Sub-distributors and Manufacturers and importers wholesalers in volume selling in high volumes to sub-distributors and wholesalers **Sub-distributors** Wholesalers in medium Refers to companies buying from distributors and selling in medium **Distributors** volumes to wholesalers volumes **Wholesalers** Distributors and sub-Retailers in medium and low Refers to companies buying in high volumes, either from manufacturers/ distributors in volume volumes distributors/ sub-distributors, and selling in smaller volumes retailers Retailers End-customers (households, Refers to small shops (called *quincailleries* in franchphone West Africa) Wholesalers plumbers, other small buying from wholesalers, and selling to end-customers (households, retailers) plumbers, or other small retailers)

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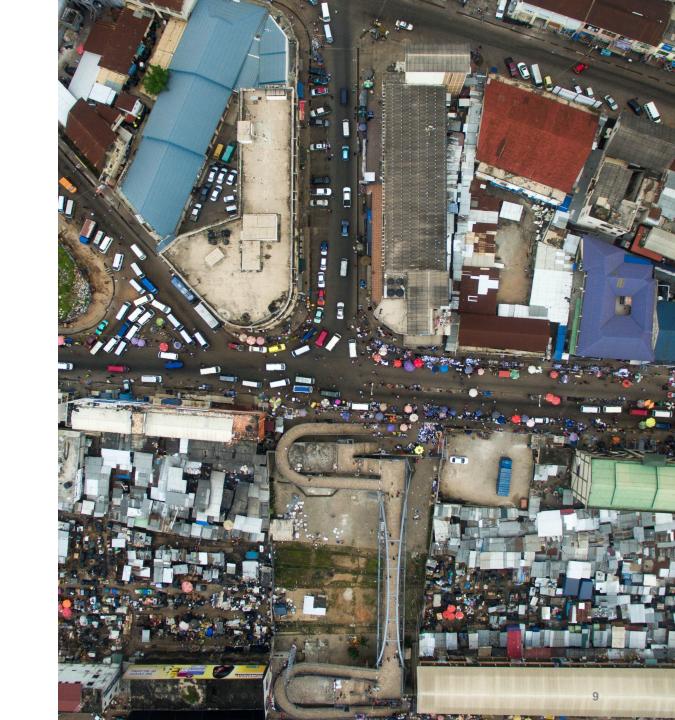


### **II.** EXECUTIVE SUMMARY: WEST AFRICA REGION

**A. KEY INSIGHTS** 

# The West African water and sanitation distribution market for plastics is very un-structured

- The market is not formally regulated and all players are very opportunistic and ready to engage with WASH players
- A player in the distribution supply chain can play several roles: Distributor, subdistributor, wholesaler and/or retailer
- Identifying key distributors can be a challenge, especially as players that may appear small are sometimes handling massive volumes





### Learnings across 5 West African markets revealed key next steps and opportunities for WASH product commercial scale-up

1 Every conversation with manufacturers and distributors included the question: "what volumes?" Organizations need to have an evidence-based answer and create demand

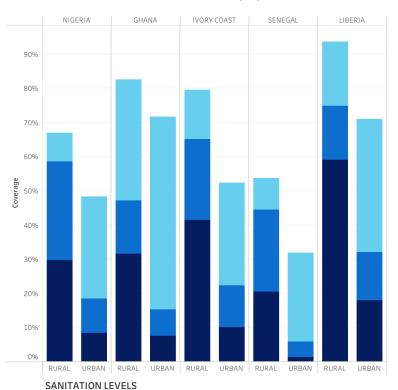
2 Relationships matter across all markets and any new entrant needs to build trust with time and presence

Social and public programs could seed and support commercial reach with strategic links (eg: combined awareness/ training/demo) and tactical nudges (eg: HQ in local market cluster)

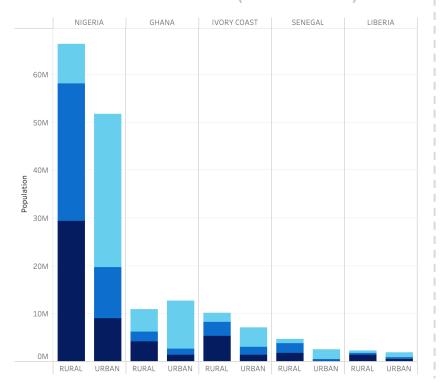


### Sanitation levels in rural versus urban areas

### SANITATION LEVELS ACROSS COUNTRIES IN RURAL AND URBAN AREAS (%)



### SANITATION LEVELS ACROSS COUNTRIES IN RURAL AND URBAN AREAS (# OF PEOPLE)



#### **KEY FINDINGS**

- Nigeria has the highest market potential in terms of market size
- However, Ghana has the highest percentage of limited and unimproved sanitation services in urban areas

5.35M

People living in Senegal only have access to limited or unimproved sanitation services 64%

Of people living in urban areas in Ghana only have access to limited or unimproved sanitation services

Limited service

Unimproved

Open defecation

Source: WHO/ UNICEF JMP, 2020

### General diagram of primary product flow and market structure for plastic water and sanitation products

#### **PLASTIC MANUFACTURING**

81 companies recorded on Airtable



High-end and ceramic sanitary products are imported from abroad



Local manufacturers import raw materials from abroad and produce plastic household items or plastic plumbing products locally 5

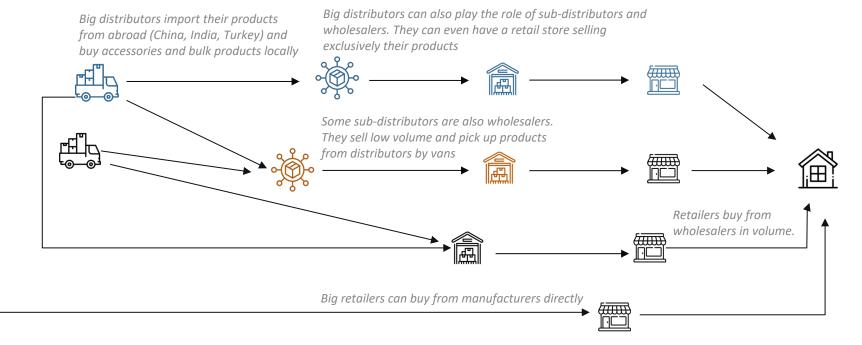
While the manufacturing sector is of plastic households' products, the distribution network of interest is of plumbing and sanitary product

7

#### **SANITARY AND PLUMBING DISTRIBUTION**

60 companies recorded on Airtable

Manufacturers don't own the distribution but work with various major distributors that form their distribution network







A colour indicates a specific actor. If black, it refers to multiple actors







Distributor





Wholesaler





Househo**।प2,** plumbers, installers



### MANUFACTURING

# Manufacturers' decisions are mainly driven by volume

Organizations can insist on the political capital and benefits that companies can build

# Manufacturers are not ready to assume the **costs** for the molds

Organizations must provide evidence of likely volumes and demand estimation to ensure manufacturers cover costs and/or the organization must provide the mold at its own cost

# Manufacturers can easily fake products or make cheaper copies

Relationship with manufacturers cannot be based solely on trust

# Major players have a strong distribution network

Organizations can leverage manufacturers' distribution partners while ensuring the channels they reach are those where plumbing products are expected



### DISTRIBUTION

### Distributors are often found in market clusters\*

Distributors often outsource transport\*

Distributors lack marketing experience to push sales\*

Distributors' decisions are driven by volume & distance

Major plumbing players are focused on highend products

Organizations can focus on clusters where distributors are centralised to build relationships and unlock urban and rural distribution

Organizations can leverage on distributors' flexibility, hiring logistic assets when needed Organizations cannot rely on distributors to promote products. However, most distributors asked for samples to test the product and market before investing

\*Except for rare exceptions

Organizations will need to show evidence of demand and work with distributors that already have rural coverage Organizations could work with major players whose focus is a different type of (non-WASH) plastic product, or smaller players who distribute lower-end products and may be more ready to invest and create demand

\*Except for Liberia and Senegal

\*Except for Liberia

### **Key importation insights across countries**

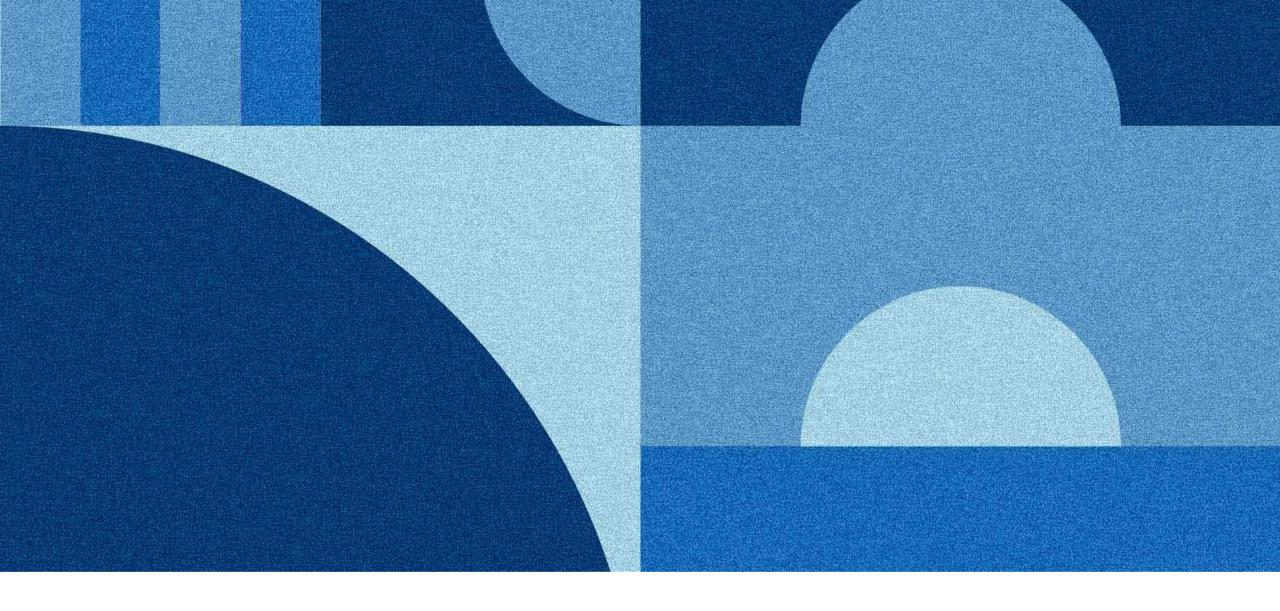
	GHANA	IVORY COAST	LIBERIA	NIGERIA	SENEGAL
Total plastic importation (in millions)	\$808	\$506	\$55	\$2,203	\$381
Share of plastic importation	5.4%	5.04%	0.58%	4.3%	3.5%
Import duty on plastic products	20%	5%	5%	5%	5%
Main country of importation for plastic products	China	China	China	China	China
Total plastic wash basin importation (in millions)	\$7.83	\$5.75	\$0.309	\$11.2	\$3.3

Source: The OEC, 2022

### Summary of stakeholders and hubs identified across countries

	GHANA	IVORY COAST	LIBERIA	NIGERIA	SENEGAL			
MANUFACTURERS	• QUALIPLAST • KGM	<ul><li>CORAXEL (TAJ PLAST)</li><li>OKPLAST</li></ul>	• DURAPLAST	MC PLASTIC	<ul><li>SOTRAMAP</li><li>SIMPA</li></ul>			
DISTRIBUTORS	<ul> <li>SUNDA</li> <li>TFHO</li> <li>MY OWN TRADING STORE</li> <li>SAMODAK</li> <li>THE LORD OF HOST</li> </ul>	• MCN	<ul> <li>SETHI BROTHERS</li> <li>CITY BUILDERS</li> <li>OMEGA</li> </ul>	<ul> <li>DIVINE UCHESON INTERNATIONAL</li> <li>FAVOURED DUBEK INTERNATIONAL</li> <li>VERIS CHRIS ENTERPRISES</li> <li>JAKADA BUSINESS ENTERPRISES</li> <li>TANDO &amp; BROTHERS</li> <li>SMOOTHFLUSH</li> <li>ANYITECH</li> <li>STANTECH</li> <li>FLOW CITY PLUMBING</li> <li>ROLEX HOME</li> </ul>	• TQG • LEGRAND			
MAIN HUBS	• KANTAMANTO	• ADJAME	• GANTA	<ul><li>ORILE (LAGOS)</li><li>KOFAR RUWA (KANO)</li><li>ONITSHA (ANAMBRA)</li></ul>	• RUE FLEURUS (LOW REACH)			

Online profiles accessible here



### **II.** EXECUTIVE SUMMARY: WEST AFRICA REGION

**B. OPPORTUNITY MATRIX** 

## We built a market prioritisation tool to select the focus markets for profiling and deeper analysis

### Business impact indicators



Internal stakeholder input

+

Country economic data

+

Country political data

+

Country trade and exchange data

### Market need indicators



Access to septic systems

+

Sanitation levels (urban, rural, total)

+

Access to hygiene facilities

+

Access to water source

+

Water stress indicators

### **Opportunity Matrix**

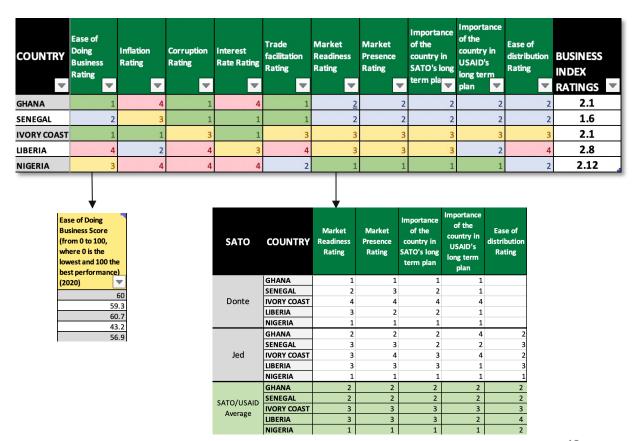


Market segmentation driven by internal data and public data on water and sanitation needs guides execution focus and prioritisation

### Potential business impact indicators are driven by various metrics, organizational capability within regions, strategic and growth trends

#### POTENTIAL BUSINESS IMPACT INDICATORS

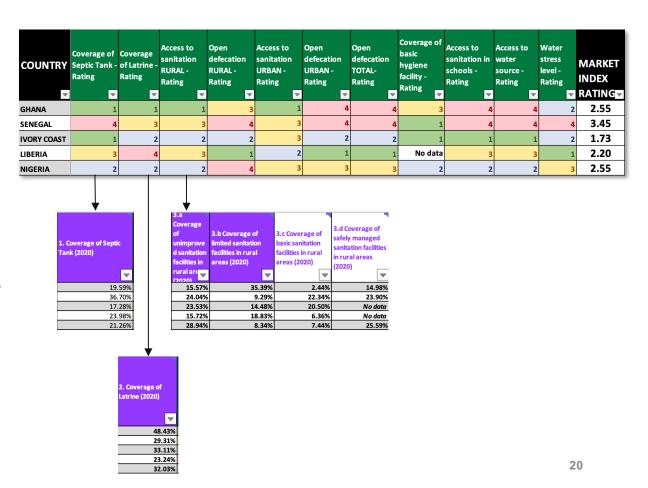
- Ease of Doing Business
- Inflation Rate
- Interest Rate
- Tariffs and Imports Rate
- Trade Facilitation Performance
- Corruption Perception
- Market Readiness
- Market Presence
- Importance of the country in organization's long term plan
- Importance of the country in USAID's long term plan
- Ease of distribution



### Market need indicators are driven by A&Co research and publicly available WASH data

#### MARKET NEED INDICATORS

- Coverage of septic tank and latrines
- Access to unimproved, limited, basic, and safely managed sanitation facilities in rural and urban areas (coverage and total number of people)
- Open defecation in rural and urban areas
- Coverage of basic hygiene facilities in rural and urban areas
- Coverage of basic, limited, and no sanitation in schools
- Share of the population without access to an improved water source
- Water stress level





### Opportunity Matrix results for commercial scale-up

(EY INSIGHTS - OPPORTUNITY MATRIX

- Senegal ranks highest for the Business Index with manufacturers and distributors ready to partner with WASH companies. However, the market opportunity ranks lowest compared to the other countries: while the sanitation need is high in Senegal, it is mostly located in rural areas.
- Ghana, Nigeria, and Ivory Coast are more attractive for both Market and Business Indexes and seem to be optimal markets, with a sanitation need that remains high in peri-urban areas and potential partners with good capacity.
- Comparatively, Liberia may be more difficult to enter commercially

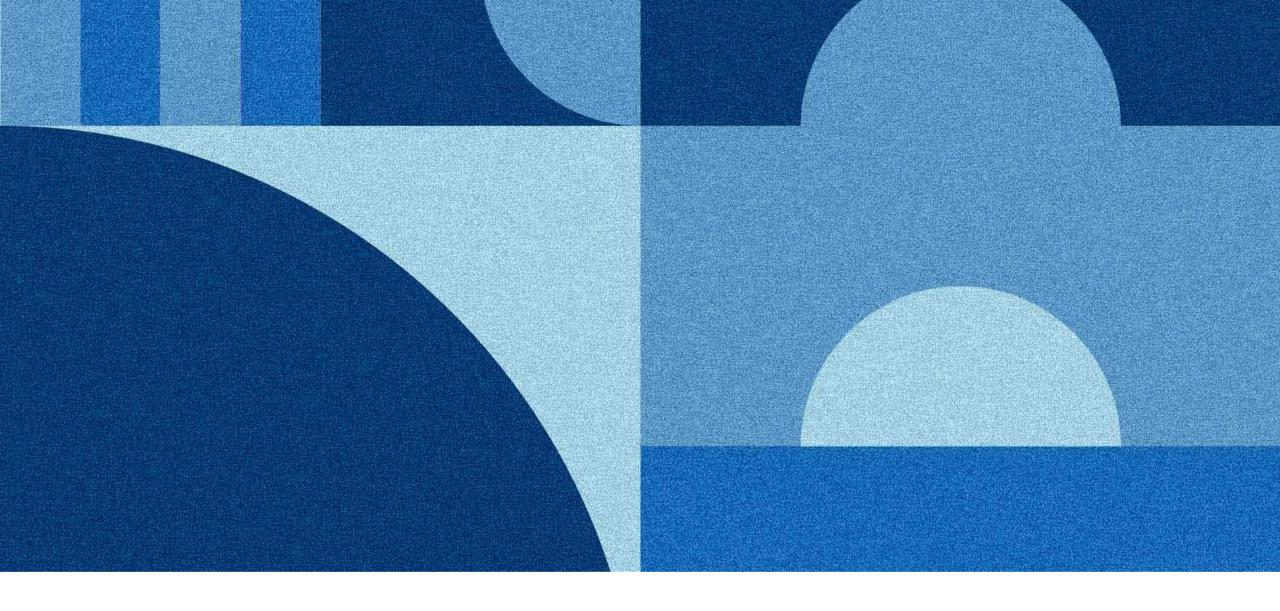
### **OPPORTUNITY MATRIX**



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  - D. Stakeholders

IV. NEXT STEPS



III. LIBERIA

A. COUNTRY OVERVIEW

### Liberia



#### **Demographics**

- Population: 5.19 Million, 47% rural<sup>1</sup>
- Households: 1.2 Million HHs<sup>2</sup>
- **Economy:** Services (38%), Industry (18%), Agriculture (37%)<sup>1</sup>

#### **Water & Sanitation**

• 18% of the population use at least basic sanitary services (basic and safely managed)<sup>1</sup>

#### **Plastic WatSan Products**

- Relatively underdeveloped market characterised by a lack of middle-income market
- Most commercial activity driven by imported fixtures and appliance and some local infrastructure
- General market observation:
  - High potential for social / public GTM
  - B2B potential with mines / plantations



### Country and market general information



### **Demographics**

- Population: 5.19 Million (2021), 2.1% annual growth¹
- Median age of the population: 17.9 years old<sup>2</sup>
- Urban (53%), rural (47%)<sup>1</sup>



### Geography

- Country size ranking #104<sup>3</sup>
- Nature of land: Flat coastal lowlands to rolling hills and plateaus further inland, and low mountains in the northeast<sup>3</sup>



### **Economy**

- GDP per capita: 675.7\$1
- Poverty rate (extreme international poverty line): 44.4% (2020)¹
- Economy model: Marketoriented policies, highly dependent on natural resources, foreign aid, and foreign direct investment (FDI)<sup>4</sup>



### **Politics**

- Political stability index: -0.24(-2.5 weak; 2.5 strong)<sup>5</sup>
- Political system: Multiparty republic

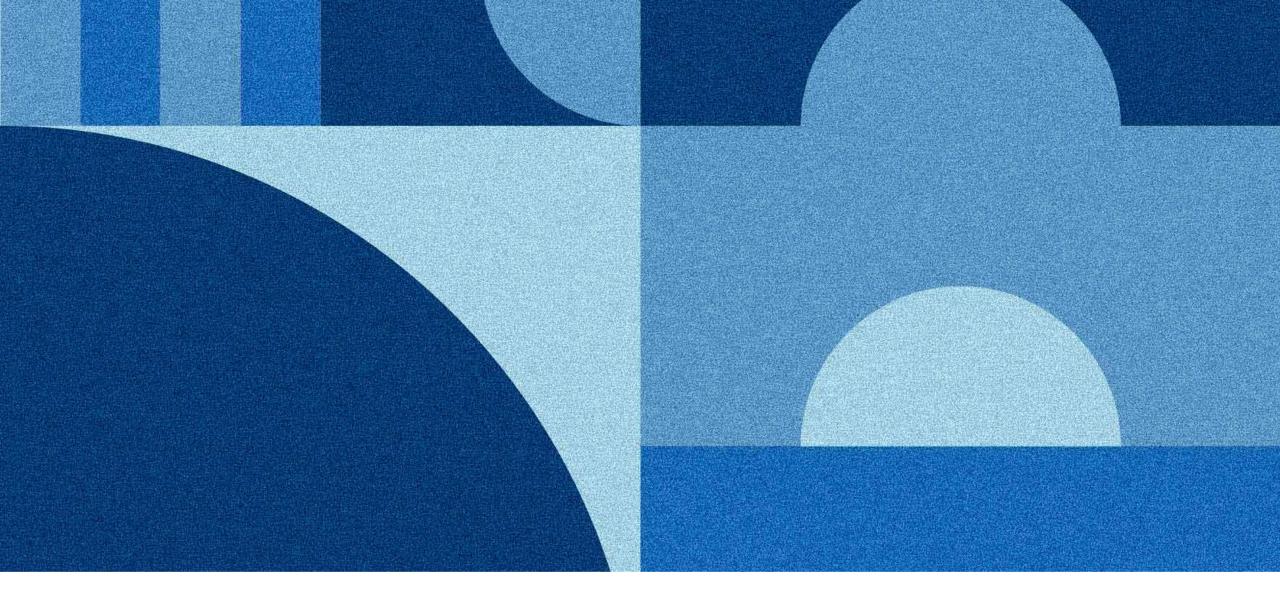


#### Culture

- Around 85.5% of the population is Christian and 12.2% is Muslim<sup>6</sup>
- The major ethnic groups are Kpelle (20.3%), Bassa (13.4%), Grebo (10%), Gio (8%), and Mano (7.9%)<sup>7</sup>

Sources: 1. World Bank, 2021

- 2. World Economics, 2022
- 3. USAID/ USGS, Landscape of West Africa
- 4. International Trade Administration, Liberia Commercial Guide
- 5. The Global Economy, 2022
- 6. World Population Review, 2022
- 7. World Directory of Minorities and Indigenous People, 2022



V. LIBERIA

**B. OPPORTUNITY MATRIX** 



### Liberia, an attractive market with commercial potential

#### **CHALLENGES**

- 1. While sanitation is poor and OD significant, this may be challenging market to enter *commercially*
- Small market (5 million total pop) with limited lowermiddle income households
- 3. Very limited supply chain into rural areas
- Focus of existing distributors and retailers is upper income

#### **OPPORTUNITIES**

- The country is developing rapidly and economy growing
- 2. Duraplast is a professional potential manufacturing partner with direct links to government and its own distributor, Sethi Brothers
- 3. Montserrado County, near Monrovia, is a good starting point for commercial introduction

### **OPPORTUNITY MATRIX**

**Market Opportunity** HIGH LOW Senegal **Business Opportunity** Ghana **Ivory Coast Nigeria** Liberia

### Liberia has a critical need for sanitary facilities, as open defecation remains prevalent in many regions

Open defecation is still very much present in Liberia with 8 regions having over 50% open defecation coverage:

Gbarpolu: 70%Bomi: 64%

Sinoe: 63%

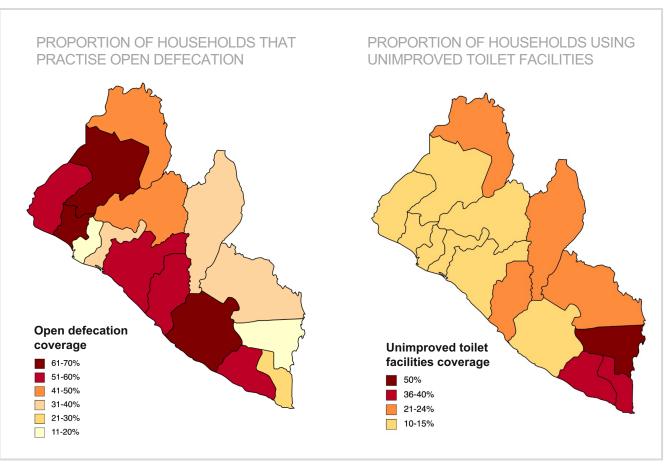
• Grand Kru, Grand Cape Mount, and River Cress: 56%

Grand Bassa: 53%

Most of the regions with the **highest unimproved toilet** facilities coverage are located in the South and East:

River Gee: 50%Maryland: 40%Grand Kru: 36%

Regions with a high open defecation rate can be challenging for commercial businesses. Efforts could be located in regions where unimproved toilet facilities are the highest, but open defecation remains relatively low compared to other regions.



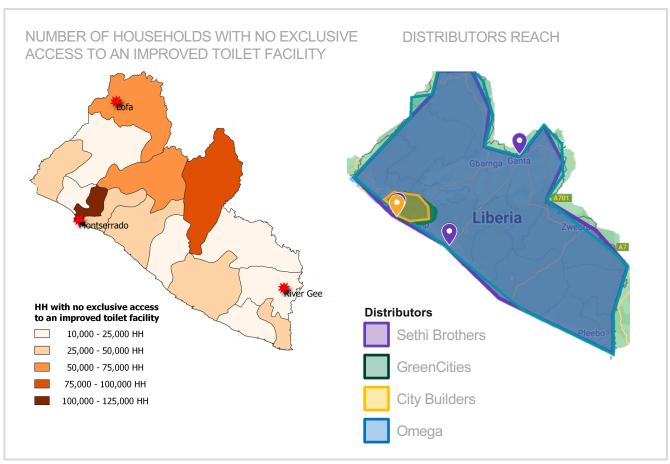
Source: Maps adapted from Demographic and Health Survey, DHS Program, 2020

### Montserrado region could be a good starting point for commercial activities in Liberia

Looking at the market opportunity, regions with the highest number of households lacking access to improved toilet facilities are:

- Montserrado
- Nimba
- Lofa and Bong

A starting point could be to focus its efforts in Montserrado county, where the need and market size is the highest, while having an easy access to manufacturing and distribution activities



Source: Map adapted from Demographic and Health Survey, DHS Program, 2020

Source: Map by Archipel&Co based on in-field study

## Plastic import reached \$55 million in 2020, representing a 24.2% increase since 2019<sup>1</sup>

- According to the World Trade Organization (WTO), MFN applied duty rate for plastic products are 5% AVE
- The primary import country of plastic products is China with a trade value of \$16.1 million, followed by the United States with a trade value of \$10.4 million (19% of plastic import)<sup>1</sup>
- In 2020, Liberia imported \$309K worth of plastic wash basins, mainly from China (54.4%) and India<sup>3</sup>

0.58%

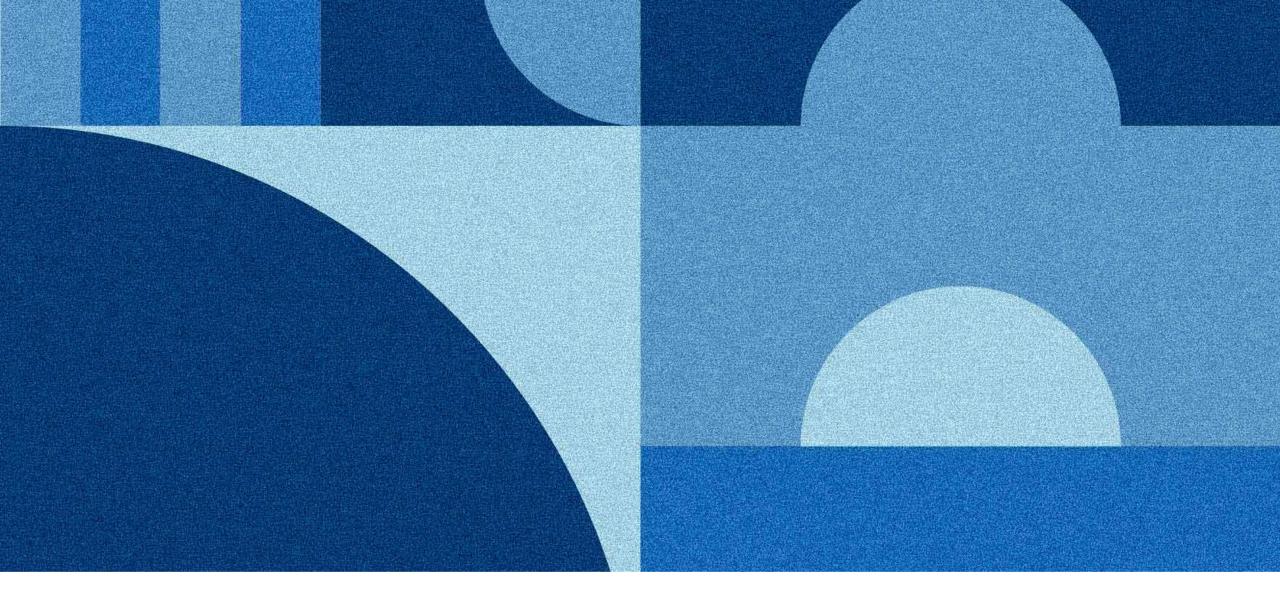
Share of plastic import in overall import in 2020<sup>1</sup>

**5%**Import duty on plastic products<sup>2</sup>

29.2%

Plastic import from China (highest) in 2020<sup>3</sup>

Source: 1. Trading Economics, 2022 2. WTO, 2023 3. The OEC. 2022



### V. LIBERIA

**C. MARKET STRUCTURE** 

### Diagram of primary product flow and market structure for Liberia

#### **PLASTIC MANUFACTURING**

3 companies recorded on Airtable



High-end and ceramic sanitary products are imported from abroad



Duraplast import raw materials from abroad and produce plastic household items and plastic plumbing products locally 7

While the manufacturing sector is of plastic households' products, the distribution network of interest is of plumbing and sanitary product

7

#### **SANITARY AND PLUMBING DISTRIBUTION**

15 companies recorded on Airtable

Manufacturers don't own the distribution but work with various major distributors that form their distribution network

Big distributors import their products from abroad (China, India, Turkey) and buy accessories and bulk products locally

Some sub-distributors are also wholesalers.

They sell low volume and pick up products from distributors by vans

Retailers buy from wholesalers in volume.

Big distributors and also play the role of sub-distributors and wholesalers are tail store selling exclusively their products

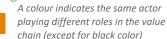
Some sub-distributors are also wholesalers.

They sell low volume and pick up products

from distributors by vans

Retailers buy from wholesalers in volume.











Distributor





Wholesaler



Retailer

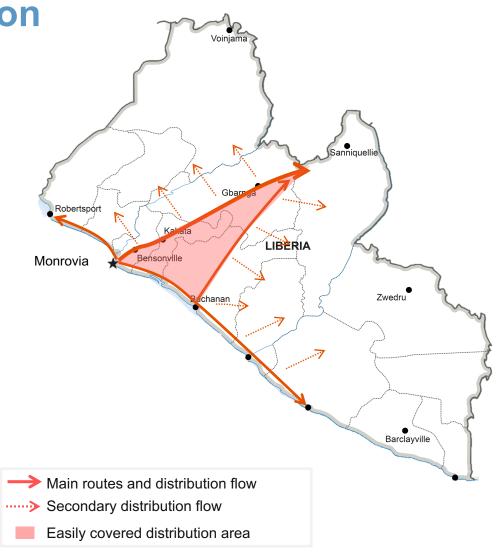
Typical in urban Liberia (Monrovia) and for higher-end products

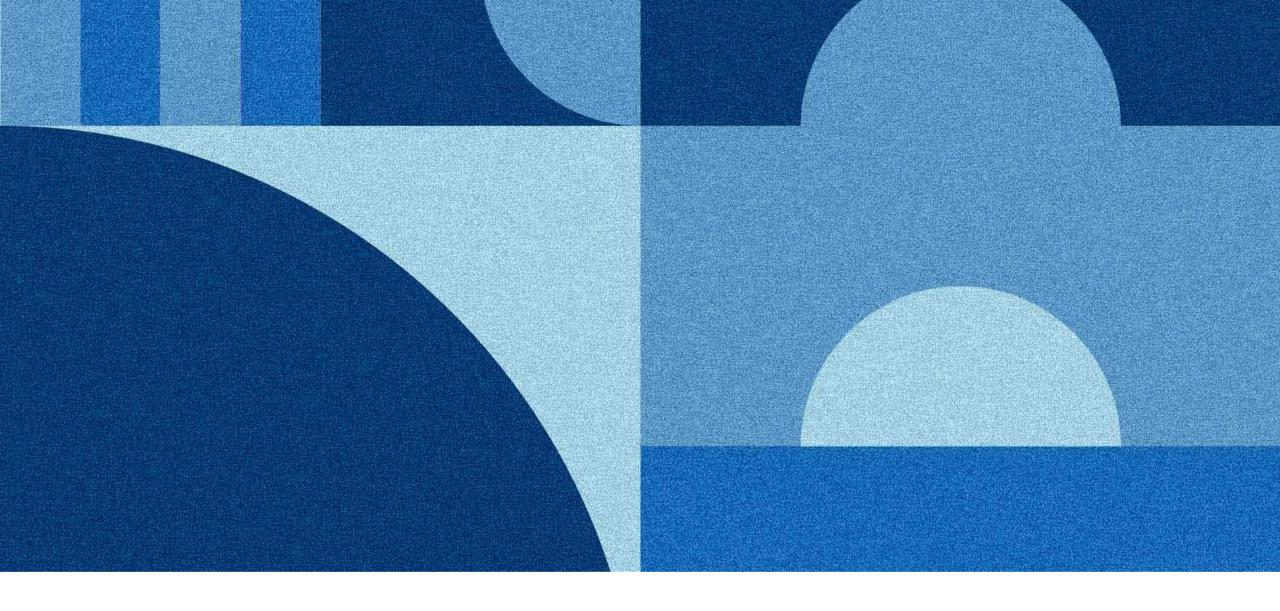


Households, plumbers, installers

Without dominant clusters, distribution has evolved with more of a hub and spoke model

- The Liberian plumbing products market is spread along major transport routes from Monrovia to the "interior"
- Distributors and retailers are focused on reducing transport costs so seem to have struck a balance between proximity to customer in the interior and suppliers in Monrovia
- No hubs were evident in Monrovia or mentioned in any other Liberian cities
- The only significant customer for plumbing products in the interior mentioned by distributors and retailers in Monrovia were B2B (mines and rubber plantations)





V. LIBERIA

D. STAKEHOLDERS

### Amongst our interviews, we have shortlisted 2 manufacturers and 3 distributors in Liberia

### **MANUFACTURERS**



- 1. Duraplast
- 2. Green Cities

### **DISTRIBUTORS**



- 1. Sethi Brothers
- 2. City Builders
- 3. Omega



**LIBERIA** 

### MANUFACTURING

### Manufacturers' decisions are mainly driven by volume

Organizations can insist on the political capital and benefits that companies can build

### Manufacturers are not ready to assume the costs for the molds

Organizations must provide evidence of likely volumes and demand estimation to ensure manufacturers cover costs and/or organization must provide the mold at its own cost

### Manufacturers can easily fake products or make cheaper copies

Organizations' relationship with manufacturers cannot be based solely on trust

### Major players have a **strong** distribution network

Organizations can leverage manufacturers' distribution partners while ensuring the channels they reach are those where plumbing products are expected



**LIBERIA** 

### MANUFACTURING

Duraplast may be open to political & social capital as a reason to engage

Organizations may be able to use the potential political and social capital of improved sanitation as Duraplast leadership clearly politically connected with a lot of investment at risk

While capital is not an issue, Duraplast is unlikely to purchase the molds

Very savvy business-

business case before

convinced of the

investing

men, the leadership of

Duraplast will need to be

Potential to copy so IP protection will be key in Liberia

Other players in the market were cautious but did warn that Duraplast was capable and may be tempted to copy products if they sell well

#### Duraplast and Sethi Brothers makes a strong distribution network

Organizations can leverage the combined network and work with the manufacturers' distribution partners

## Green Cities is not a potential manufacturer

Organizations could partner with Green Cities with their waste management expertise, but the company will not manufacture toilet products

#### **Duraplast**

#### Manufacturer (Sister company to Sethi Brothers)

#### **INTERVIEW MAIN FINDINGS**

- Owned and managed by Jai Khanija
- Only plastic manufacturing player in Liberia involved in the production of plastic and plumbing materials for local used
- Only manufacturer of plastics, pipes and fittings (UPVC, PVC) in Liberia
- Sell to major distributors and retailers through Sethi Brothers with a minimum initial purchase of \$10,000 to set up account
- 200 to 300 local distributors in Liberia (through Sethi Brothers)

#### **TECHNICAL INFORMATION**

- 400 to 600 employees (1100 total with with Sethi Brothers)
- Facilities operate 100% on generator for the production process and imported a 3 megawatt generator in addition to several already on site

#### **GEOGRAPHICAL REACH**



Warehouse and storage facilities in Congo Town back road, Monrovia, along the Robert International Airport





#### **Duraplast**

Manufacturer (Sister company to Sethi Brothers)

#### INSIDE THE FACILITY AND BLOW MOULDING AREA





Click on the image to see a 360 view

#### **Duraplast**

Manufacturer (Sister company to Sethi Brothers)

#### MANUFACTURING SITE FOR METAL, CEMENT, PIPES, FILM, AND MORE





Click on the image to see a 360 view

#### **Duraplast**

Manufacturer (Sister company to Sethi Brothers)

#### TANK MANUFACTURING AND PIPE/ EXTRUSION MANUFACTURING



Click on the image to see a 360 view



Click on the image to see a 360 view

#### **Green Cities**

#### Manufacturer (and waste management)

#### Access to the company's website

#### **INTERVIEW MAIN FINDINGS**

- Founded and managed by James Mulbah
- Founded in 2012, registered in 2014
- Founded as a social enterprise focused on waste, recycling and community engagement
- Plastic manufacturing is not their primary activity
- Interesting potential partner for social impact and exploring local recycled content

#### **TECHNICAL INFORMATION**

- 2 blow moulding machines
- 1 seemed to be out of use
- They manufacture intermittently to make simple products (eg: rubber collection cups) from mostly recycled content

#### **GEOGRAPHICAL REACH**



- Main location in Monrovia is offices and small manufacturing location
- Large warehouse and storage facilities on the outskirts of Monrovia

#### **Green Cities**

Manufacturer (and waste management)

#### **INSIDE THE FACILITY**











#### **Green Cities**

Manufacturer (and waste management)

#### INSIDE THE FACILITY AND BLOW MOLDING AREAS



Click on the image to see a 360 view



Click on the image to see a 360 view



**LIBERIA** 

### DISTRIBUTION

#### Distributors lack marketing **experience** to push sales\*

Organizations cannot rely on distributors to promote products. However, most distributors asked for samples to test the product and market before investing

\*Except for rare exceptions

#### Distributors' decisions are driven by **volume** & distance

Organizations will need to show evidence of demand and work with distributors that already have rural coverage

#### Major plumbing players are focused on highend products

Organizations could work with major players whose focus is other types of (non-WASH) products, or smaller players who distribute lower-end products and may be more ready to invest and create demand

## DISTRIBUTION

## There is **no dominant cluster** for distribution

While there is no cluster, we were not able to find evidence of any major players outside of Monrovia

# Wholesalers are spread along transport routes from Monrovia

Transportation costs are a major factor so wholesale and retail serving non-urban markets have grown along major transport routes out of Monrovia

# Most players span from distribution to retail

The market structure is very loose with everyone, except Sethi Brothers, acting as distributors, wholesalers and retailers

# Working across sectors is typical for some distributors

Omega was clearly comfortable and experienced working with public and social sector clients as well as "key accounts" like mines and plantations

#### Major players are focused on high-end products

Organizations could work with major players whose focus is other types of (non-WASH) products, or smaller players who distribute lower-end products and could be more ready to invest and push demand

#### **Sethi Brothers**

#### Distributor (Manufacturer is Duraplast)

#### **INTERVIEW MAIN FINDINGS**

- · Owned and managed by Jai Khanija
- Leader in building materials, steel, electrical, plumbing and roofing zincs
- 400 to 500 employees (1100 total with Sethi Brothers)
- Sethi Brothers serve as a distribution point to local Liberian businesses
- Distributors are only allowed to buy from Duraplast through Sethi Brothers, with a starting minimum order size of \$10,000
- They serve 200 300 distributors and retailers across Liberia (through Sethi Brothers)

#### **GEOGRAPHICAL REACH**



- 10 outlets are in major markets across Liberia currently combined distribution and retail points
- Closing retail business and focusing on distributor and wholesaler
- 2 central branches connecting southeastern counties (Ganta, Nimba County and Buchanan, Grand Bassa County)

Sethi Brothers is referred as the "godfather of building materials" in Liberia by other players

Sethi Brothers is reducing its retail outlets for strategic reasons (structure and develop the market) and perhaps political reasons too.

"We want to sell to Liberians because they understand the market best and we want to create opportunities" – Mani, General Manager of Sethi Brothers

Other players said organizations working with Sethi Brothers (and Duraplast) need to be politically and legally protected in terms of IP

#### **Omega Supply Chain**

#### Distributor/ Wholesaler/ Retailer

#### **INTERVIEW MAIN FINDINGS**

- Founded in 2013 by several brothers all involved in the business
- Abdullah Mansour is the general manager and one of the co-founders
- A key part of their business is key account sales to mines, plantations and major public and social sector programs (eg: Liberian Water and Sewer & World Bank project)
- They import 30-35% of their plastic products and buy the rest from Sethi Brothers

#### **GEOGRAPHICAL REACH**



- They have a wholesale/retail outlet where we met in Monrovia
- They have two warehouses near Monrovia
- The company has 2 pick-up trucks
- When delivering product to clients, usually outsource logistics
- They claimed to be able to deliver product anywhere in Liberia
- Mining and plantation customers often require rural delivery done by third party providers



Omega was very open and ready to explore how it could help bring and grow commercial WASH products in Liberia



#### **Omega Supply Chain**

Distributor/ Wholesaler/ Retailer

#### MAIN OFFICE AND RETAIL POINT



Click on the image to see a 360 view



Click on the image to see a 360 view



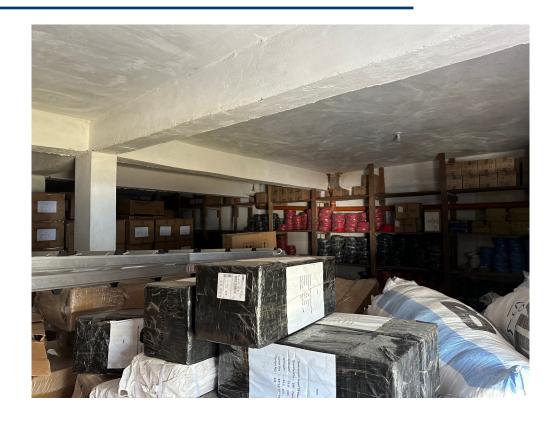
Click on the image to see a 360 view



#### **Omega Supply Chain**

Distributor/ Wholesaler/ Retailer

#### **WAREHOUSE IN CENTRAL MONROVIA**





Click on the image to see a 360 view

#### **City Builders**

#### Distributor

Access to website here

#### **INTERVIEW MAIN FINDINGS**

- Established in 2001 and claim to be the market leader (retail)
- Owner and manager, Marwan, was unavailable but is key contact
- · Products are more high-end focused
- Customers include any player in the value chain (sub-distributor, wholesaler, retailer) and builders
- Approx 50% of sales to NGOs
- · 100% of their products are imported
- Sometimes they buy from others to fill demand (Sethi, Omega...)
- · Sell primarily within Monrovia
- Customers from peri-urban areas come to them to get variety and products not available elsewhere
- Can deliver depending on quantity

#### **GEOGRAPHICAL REACH**



- Sell to upper income clients in Monrovia and surroundings
- They are expanding their showrooms and opening new outlets
- Can provide transportation on larger orders
- Own several large trucks and outsource logistics when they need it

#### **City Builders**

#### Distributor



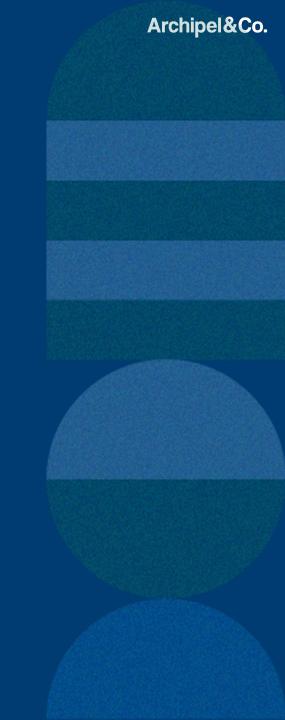
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Click on the image to see a 360 view

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- IV. NEXT STEPS





# From building demand for WASH products to building a network in the field

#### 1. Demand creation

Every conversation with manufacturers and distributors included the question: "what volumes?" Organizations need to have an evidence-based answer and create demand.

- A&Co's 2020 Go To Market study in peri-urban Accra included initial recommendations for a combined training, demand and sales model.
- Further demand quantification studies may be necessary to focus commercial efforts.
- Partners like WRP can also be helpful to build sales capacity.

#### 2. Network building

Relationships matter across all markets and any new entrant needs to build trust with time and presence.

- Organizations can do so with incentivised local agents based in key market clusters.
- Social and public programs could seed and support commercial reach by locating staff and facilities in key market hubs
- Understanding product flows to tier 2-3 cities and rural areas to "reverse engineer" routes to these key markets would be a valuable build on this study

# Volume is the key element to unlock business opportunities

- Manufacturers will only invest if there is enough volume.
   For example, in Ghana, for example, KGM mentioned a minimum of 10,000 to 15,000 units per month
- Volume will determine distributors' level of interest
- Distributors are not reliable or experienced partners for demand creation, but can and should participate in trials.
- Distributors expect demand creation to be driven and delivered by organizations themselves
  - Likely volumes must be supported by a **strong business plan** with both elements of:
  - 1. Likely market demand through consumer research
  - 2. Funded plans for demand creation & growth

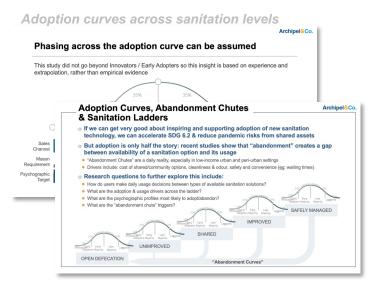


## A&Co's 2020 GTM study included initial recommendations for a combined training, demand and sales model

- While open defecation presents an opportunity for the social channel, a WASH commercial strategy resides in unimproved and improved sanitation facilities
- Commercial opportunity is both B2C sales (for households), and B2B sales (for large implantations with households and employees)







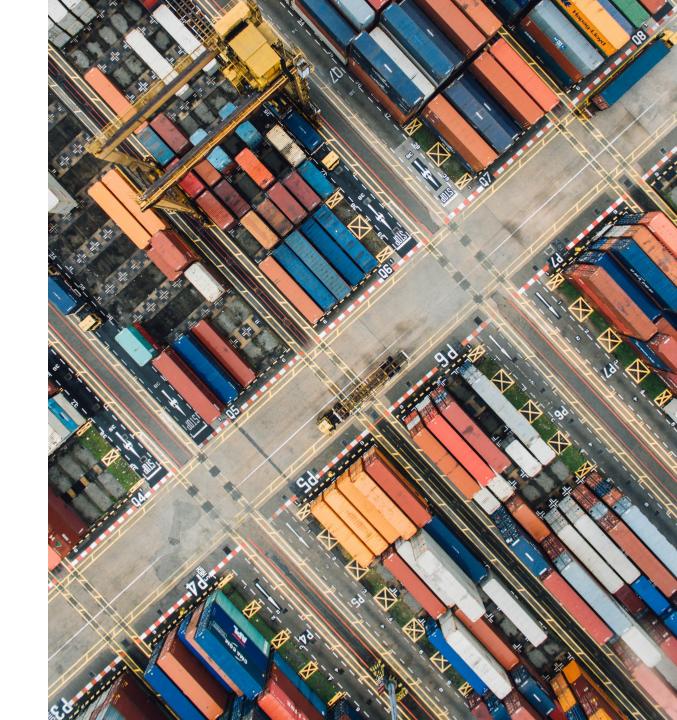


## Localised manufacturing or a hub and spoke model?

- All local distributors interviewed preferred locally made products
- For public tenders projects, bonus points can be given when products are locally made\*
- There are viable manufacturers across all 5 West African countries studied
- An economic model should be built to quantify the thresholds for investing in local manufacturing

Import duties saved (~5%)
Transport Cost & Time
Product leakage & breakage
Market positioning

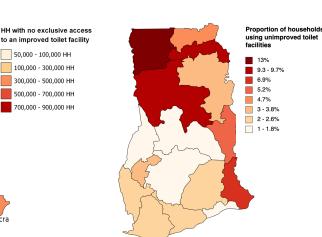
Fixed mold investment Variable production costs IP risk Complexity



#### Success may depend on a dynamic symbiosis between social (meeting needs) and commercial (fulfilling demand)

- While the need for sanitation facilities might be greater in rural areas, the demand for sanitation improvement may be higher in urban and peri-urban areas due to population density
- Organizations should build the commercial demand in urban and peri-urban areas, where consumers have a slightly higher income and pre-existing infrastructure
- Improved knowledge and experience sharing across programs and geographies will be a driver of success
- Build **strategic links** (eg: combined awareness/training/ demo) and tactical nudges (eg: HQ in local market cluster) between social and commercial approaches

NUMBER OF HOUSEHOLDS WITH NO EXCLUSIVE ACCESS TO AN IMPROVED TOILET FACILITY



**FACILITIES** 

PROPORTION OF HOUSEHOLDS USING UNIMPROVED TOILET

100,000 - 300,000 HH 500,000 - 700,000 HH 700,000 - 900,000 HH

For example, in Ghana, while the proportion of households using unimproved toilet facilities is predominant in the North, the number of households with no access to improved toilet facilities is higher in the South

## Thank You

To learn more about ways of working with SATO and the Partnership for Better Living, please contact:

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