## All systems go

Addressing human resources needs and gaps in the sanitation and hygiene sector

A ROADMAP CONSULTATION

- All systems go Africa
- 19-21 October 2022









#### Session Plan

**Brief introduction** of WASHPaLS #2 and the sanitation and hygiene capacity needs assessment

Presentation and discussion of preliminary findings

Presentation of proposed recommendations and priority actions

**Group work** to refine and prioritize proposed actions

Close and next steps

#### — INTRODUCTION TO THE ASSESSMENT



## USAID Water, Sanitation, and Hygiene Partnerships and Learning for Sustainability #2 (WASHPaLS #2)

- WASHPaLS #2 is a 5-year (2021-2026) project with the goal of improving WASH programs by ensuring quality, equity, sustainability, and scale of sanitation products, services and adoption of sound hygienic practices, particularly in rural areas.
- Area-wide Sanitation is the overarching theme for WASHPaLS #2 Research and Learning

### **IDinsight**

Focus Area I
Area-wide sanitation



Focus Area 2
Market-based sanitation





Focus Area 3
Social behavior change



Cross-cutting
Gender Equality and Social
Inclusion

## Sanitation and Hygiene Workforce Capacity Needs Assessment and Roadmap

**Purpose:** To understand the Human Resources (HR) capacity needs required to deliver universal access to sanitation and hygiene, the existing gaps, and the dynamics at play in trying to address them

**Scope:** Sub-Saharan Africa, South and Southeast Asia, focused on delivery of areawide sanitation with emphasis on rural onsite sanitation

**Planned output:** A roadmap of agreed priority actions and pathways for the sector at multiple levels



### **Key Questions**

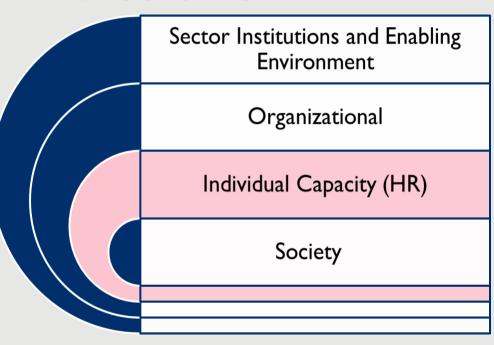
- I. What are the capacity gaps impeding sanitation and hygiene sector achievement of universal access to sustainable services?
- 2. What are the different modalities for sanitation and hygiene sector capacity development and to what extent have they contributed to achieving and sustaining needed human capital?
- 3. What are the barriers and incentives to access, recruit, promote and retain existing workforce capacity?
- 4. What are the recommended priority actions to address the sanitation and hygiene capacity gaps?

#### **Assessment Framework**

#### **FUNCTIONS**

- Policy, strategy & coordination
- Regulation
- Monitoring
- Oversight and Support
- Community mobilization & engagement
- Construction
- Emptying & Transport
- Operation & Maintenance (incl. treatment & reuse)
- Research and Design
- Business development

#### LEVELS OF CAPACITY



### Methodology

Desk Review/ Secondary data



Review of key documents and previous studies

Analysis of Secondary data: GLAAS 2022, AMCOW, WALIS KIIs/FGDs



Engagements with reps of more than 24 organizations: Knowledge and Training Institutes, INGOs, Development partners, Regional Associations and Training Centers 6 Country assessments



National and District Level: Nepal, India & Nigeria

National level: Ghana

Case focused: Philippines & Rwanda

Methods: desk review, FGD/KIIs, and (validation) workshop for key sector stakeholders.

### FINDINGS



### Human Resources Data from prior studies

#### AMCOW 2019 & 2021

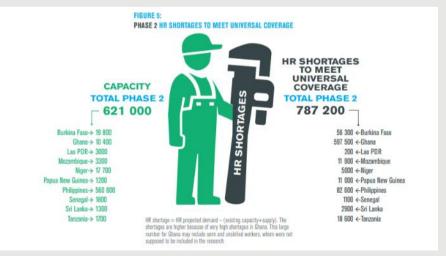
- 15 countries in Africa carried out sanitation and hygiene human resource assessments
- 13 African countries have HR targets included in their national sanitation and hygiene strategy
- Average of 0.59% of WASH budget is committed to education, research and capacity development

#### **WALIS 2019:**

 The skills most reported as missing (in urban sanitation) were management and leadership skills, rather than technical skills

#### IWA 2014:

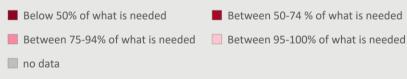
- Between 62 98% of the shortages (below)
   were in the field of sanitation
- There is an overall lack of a sanitation labour market



## GLAAS 2022: Overall sufficiency of staff

#### in African countries

#### Sanitation HR





#### Hygiene HR









### Responsible actors (employers) in rural areas

Country findings: functions, roles & jobs

Function	On-site Sanitation	Hygiene	
Policy strategy coordination	Ministries (Health, Water Supply and Sanitation, Water Resources)	Ministry of Health / Ministry of Sanitation	
Regulation	Regulation Only starting – (District Authorities - India, Regulatory Authority –Rwanda)		
Monitoring	Local government - NGOs/CSOs often fill the gap	Health Centers	
Oversight and Support	Local government - NGOs/CSOs often fill the gap	Health Centers	
Community mobilization engagement	NGOs; mostly volunteers Local governments – mainly volunteers	NGOs; mostly volunteers Local governments – mainly volunteers	
Design & Construction	Informal private sector (hired by household)	(Informal) private sector, NGO	
Emptying & Transport	Remote Rural: no one; Rural on road/Rural mixed: Informal private sector; Closer to Urban: can be combination of informal private sector, local governments, and in some cases utilities who have explored their role beyond city borders		
Operation & Maintenance (incl. treatment & reuse)	Households; occasionally informal private sector	Households; occasionally informal private sector	
Research and Design	NGOs, Academia, not very likely the private sector	NGOs, Academia, not very likely the private sector	
Business development	(Informal) Private sector (incl. small entrepreneurs)	(Informal) Private sector (incl. small entrepreneurs)	

### Type of jobs in rural areas

Business development

Country findings: Functions, roles & jobs

Soap producers, Innovators (handwashing

technologies)

1,700 01 100		Functions, roles & jobs	
Function	On-site Sanitation	Hygiene	
Policy strategy coordination	Civil/environmental Engineers	Senior Environmental Health Officers, Public Health Engineers, Medical doctors	
Regulation			
Monitoring	Project Monitoring and Evaluation Officers, Sanitation Inspectors	(Environmental) Health officers, Sanitation /hygiene inspectors	
Oversight and Support	Sanitation Supervisors, Sanitation Inspectors, Officers	Health Officers, Environmenal Health Officers.	
Community mobilization engagement	Community Development Officers, (CLTS) Facilitators, Health Extension Workers, Community Health Workers, or in NGOs: Specialists	Community Health Workers, Teachers, Religious Leaders, or in NGOs hygiene specialists	
Design & Construction	Mason, artisan or household /community member. Registered mason for public spaces	Mason, artisan or household/community member. Registered mason for public spaces	
Emptying & Transport	Remote rural: Households, Farmers or no one; Rural on the road: Informal private sector or households.  Closer to Urban: can be combination of informal private sector, local governments, and in some cases utilities who have explored their role beyond city borders		
Operation & Maintenance (incl. treatment & reuse)	Artisans/Masons Artisans/Masons for handwashing facilities Treatment & Reuse: farmers		
Research and Design	Researchers and Innovators	Researchers and Innovators	

Sanitation entrepreneurs (truck drivers, emptiers, masons,

hardware store owners)

Function	Organisation	Human Resources
Policy strategy coordination	Ministry Sanitation and Water Resources (MSWR)	Environmental Health Officers (EHO), Public Health Engineers (EHE)
Regulation	Metropolitan, Municipal and District Assemblies	Environmental Health Officers (EHO),
Monitoring	Metropolitan, Municipal and District Assemblies (and MSWR)	Environmental Health Officers (EHO),
Oversight and Support	MSWR, Community Water Supply Agency, Regional Coordinating Council	Environmental Health Officers (EHO), Extension Services Specialists (ESS)
Community mobilization engagement	Community Water Supply Agency, Municipal and District Assemblies, NGOs/CBOs	Environmental Health Officers (EHO), Extension Services Specialists (ESS)
Construction	Private sector, informal	Households, artisans
Emptying & Transport	Private sector	Septic emptiers, manual laborers
Operation & Maintenance (incl. treatment & reuse)	Private sector	Households, artisans
Research and Design	Academia, private sector	Researchers, innovators
Business development	Private sector, GEA	Sanitation entrepreneurs

### Nigeria – Responsible organisation & HR

Households, WASHCOM, Artisans

of environment, RUWASSA

Ministry of Health, Ministry of Water Resources, Ministry

Operation & Maintenance (incl.

treatment & reuse)

Research and Design

Business development

Nigeria findings: Functions, roles & jobs

Volunteers and artisans, households

Artisans, Mason, Toilet Business Owners

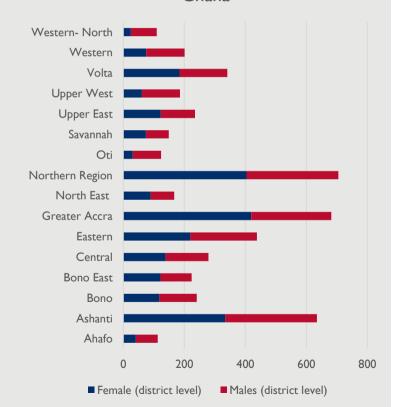
Academic, researchers,

Function	Organisation	HR
Policy strategy coordination	Ministry of Health, Ministry of Water Resources, Ministry of Environment, RUWASSA, STOWA	Administrators, Scientific Officers, Policy Expats
Regulation	RUWASSA, Ministry of Environment, Ministry of Water Resources	Administrators, Scientific Officers, Policy Expats
Monitoring	RUWASSA, WASH Department/Unit, Ministry of Environment	Planning and Monitoring Officers
Oversight and Support	LGA WASH Unit	WASH coordinator, community mobiliser, sanitation officer, hygiene officer, PMEO officer, WASH financial acccountant
Holding government to account	CBOs/CSOs, Traditional and Religious leaders	
Community mobilization engagement	WASHCOM, other volunteers, supposed to be led by WASH unit, CSO/CBO	Volunteers, volunteer hygiene promoters, community mobilisers
Design & Construction	Artisans, masons; public space - Works and Environmnet department	Toilet business owners; artisans, private contractors
Emptying & Transport	Pit emptying entrepreneurs, individuals	artisans, private contractors

#### Ghana workforce

- EHOs are the largest group of professionals in sanitation, and the frontline staff leading in community mobilization
- EHO-population ratio is below the standard of 1: 700 and there is uneven distribution across districts
- Not enough diversification. E.g., HR gaps in GIS mapping, technical drawing, M&E, data management, administration skills, and behavioral change communication/CLTS/SLTS
- There are shortages in numbers of staff for monitoring and enforcement

#### Number of EHOs per Region across Ghana

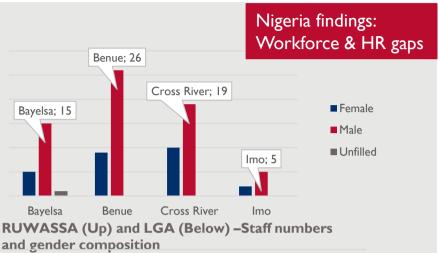


### Nigeria workforce

Local Government Authority (LGA) WASH Units and Rural Water Supply and Sanitation Agency (RUWASSA) have a broad range of staff categories:

> Monitoring & Evaluation; Community Mobilization & Hygiene Promotion; Sanitation; Water Supply; Admin/Accounts/Information; Works/Drilling/Maintenance

- Marked difference in RUWASSA and LGA staff numbers between States, partially explained by donor presence and use of volunteers.
- Large shortage of sanitary inspectors, Environmental Health Officers, and Community mobilisers – particularly in areas with low donor engagement
- Particular need for upgrading skills of the team; in particular on behaviour change communication





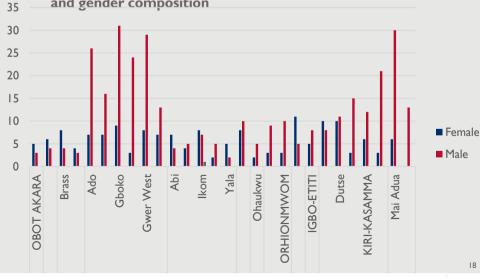
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25

20

15

10



## There is limited local government-led community mobilization, oversight, monitoring, or support

- Multiple countries face **decentralization without appropriate allocation** of decision making and human and financial resourcing
- There is a lack of adequate leadership and support for staff, systems, equipment, and processes
- Those in charge of sanitation and hygiene programs in local government are not educated in behavior change, or oversight of community-managed systems or services
- There is a **shortage in personnel** needed to monitor, provide continuous (technical) support and enforce regulations
- There is a lack of adequate **skills to properly plan and prioritize** based on health risk assessments/sanitation safety planning etc.
- There is a lack of understanding of the **contracting cycle** and ability to engage the informal private sector

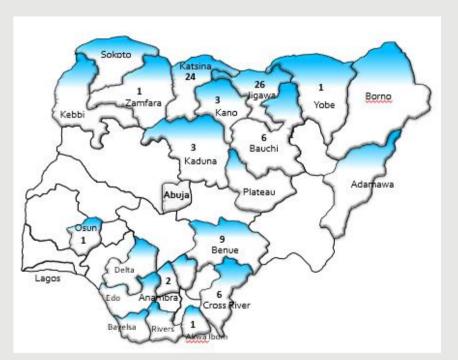
### The role of the private sector is still limited



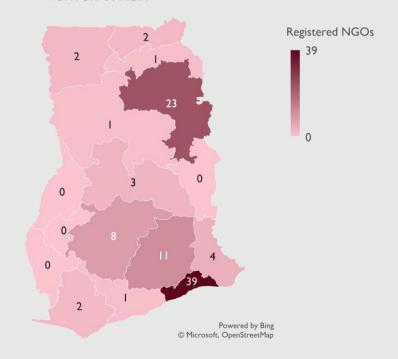
- Nigeria: Toilet business owners artisans and masons need training on sanitation technologies and entrepreneurship (sales, marketing, financial management, contracting)
- Ghana: Quality and work ethics concerns particularly linked to informal artisans providing household services

## Development partners fill (or fund) significant functions

NGOs in Nigeria focusing on Area-wide Sanitation



NGOs in Ghana registered with CONIWAS to work on WASH



## Dependence of functions on volunteers is high: programs, remuneration and motivations vary

	Ghana	Nigeria	Rwanda	Ethiopia
Government program volunteers	×	1	<b>1</b>	<b>1</b>

	Ghana	Nigeria	Rwanda	Ethiopia
Remuneration	×	Only travel allowance for LGA volunteers	Only travel allowance	×

	Ghana	Nigeria	Rwanda	Ethiopia
Motivation	Giving back to community	Giving back to community, prestige/ status	Unknown	Giving back to community, hoping on employment opportunities

### Nigeria dependence on volunteers

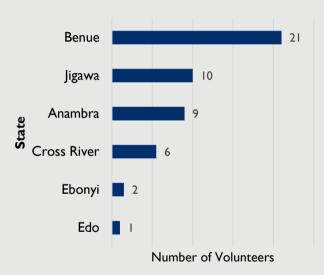
## The sector depends on volunteers in many different roles:

- Community WASH committees
- Volunteer hygiene promoters: women mostly (4/5)
- Natural Leaders/ Community Consultants
- Champions: Religious leaders, Village heads and teachers
- LGA WASH Unit Volunteers

## There is an observed fatique in volunteerism of the WASH committees

 As the government is not recruiting there is no chance of formally recruiting them into the sector

#### **Number of Volunteers in sampled LGAs**



These LGA volunteers often work in community mobilization, and get stipend for travelling and feeding allowances

### Identified trends & impact on HR

Trend	Impact on HR
I. Climate Change	Will impact jobs (or at minimum competencies) Will require the need to work across departments and potentially positions that are focused on cross-sectoral coordinative work
II. Federalization/decentralization	Transfer of tasks and responsibilities without delegating power to manage HR Inadequate support to local governments to develop/strengthen capacity
III. Governments' paradigm on behavior change	Devolving the responsibilities from public sector to households, which in cases results in the public sector not taking its responsibility nor creating necessary jobs for rural sanitation & hygiene
IV. SDGs have pushed the ODF agenda	Has increased the focus on sanitation, and some countries have developed a workforce for it (India); others have strongly relied on NGOs/development partners
V. Post ODF/FSM/Sustainability of services/behaviors is low on public sector agenda	Limited/no jobs are planned for or put in place to manage faecal sludge, maintain the sanitation facilities (or manage repair after collapse) in the public sector
VI. Focus on Urban	People will go where the jobs go Reduces the likelihood of an increase in HR in rural areas Reaching the last mile in far remote rural areas will be that much harder to do

### Identified trends & impact on HR

Trend	Impact on HR
VII. Pandemic and future epidemics	May impact household demand for sanitation and handwashing facilities  May impact the availability/creation of hygiene-related jobs in particular
VIII. Gender Equality and Inclusion  IX. Digitalization	Should impact recruitment processes Will require GESI specialists Will continue to need advocacy and influencing skills Impacts the work of HR in the field Large impact on capacity development and learning opportunities
X. Integration with solid waste management (in some countries)	There is a potential to group the work with solid waste, which is politically more attractive to invest in This risks losing staff time to solid waste management
XI. Private sector engagement	Will create jobs in both formal and informal private sectors (has yet to be proven viable) Requires a completely different mindset Requires human resources in public sector that understand and can create/support an enabling businesss environment

### Factors and barriers affecting sector HR

#### **Enabling environment barriers**:

- Inadequate financial resources for sanitation
- Unstructured nature, inadequate coordination across sectors and capacity development channels
- Limited incentives provided to local governments to achieve area wide sanitation coverage
- Limited jobs created for the sector to absorb new capacity coming in (e.g. School of Hygiene graduates not having a job)
- Jobs are tied to duration of Projects
- Focus (politically) on containment/achieving ODF
- Inadequate support from public sector to create enabling environments for businesses (i.e policies on taxation of raw materials, coordination etc.)

#### **Organizational barriers**:

- Government recruitment freezes or setting of quotas
- Unequal distribution of staff across the regions/states

#### **Individual barriers:**

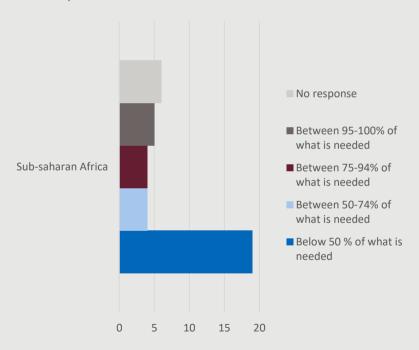
- Unattractive remuneration/conditions public sector (Ghana)
- Overburdened workforce especially at local level

### GLAAS 2022: Overall sufficiency of training institutions

#### **ONSITE SANITATION & FSM**

### No response ■ Between 95-100% of what is needed Sub-saharan Africa ■ Between 75-94% of what is needed Between 50-74% of what is needed ■ Below 50% of Needed 10 15 20 25

#### **BCC, HYGIENE FACILITIES/TECH**



# INGOs are those that offer capacity development for community mobilization, BCC, hygiene promotion, sanitation marketing, MBS

- There is limited investment in capacity development for rural sanitation and hygiene by the public sector (for masons, artisans, community mobilisers).
- There are limited local institutions focused on capacity development or continuous professional development of sanitation and hygiene professionals (e.g. limited TVETs that have hygiene behavior change curricula).
- Existing curricula is **not often upgraded with new and innovative approaches** currently being used in the sector (e.g the latest technologies)
- The efforts by Development Partners and INGOs often remain uncoordinated, can overlap in geographical areas covered and topics/ audiences covered; leaving areas untouched
- Many capacity development efforts lack continuous efforts to ensure application of learning (e.g. through continuous support, mentoring or peer to peer learning) and there is limited consideration of local government staff or volunteer workload before adding new tasks

## DISCUSSION FINDINGS

- For participants from Ghana/Nigeria:
   Do these findings resonate? Is there anything that surprised you or that you don't agree with?
- For participants from other countries: How do the presented findings correspond to your context? Do you recognise findings, or what is different in your context?
- For all participants: Are there other insights, gaps, barriers and/or responses/initiatives that you would have expected to see here or would suggest the project to look into further?



FOOTER

### — PRELIMINARY RECOMMENDATIONS/ PROPOSED ACTIONS



## Take collective responsibility for professionals and competencies in national plans for universal access

Recommendations: Enabling Environment

- Country governments to collectively across WASH (related) sectors, assess the human resource shortages (nrs) & competencies (gaps) and the issues causing these
  - Developing a group responsible for this (e.g. Zambia's Skill Advisory Group) (short term)
  - Include human resources required to deliver the national plans through formal assessments (long term)
- Country governments supported by Development partners to coordinate the capacity development providers (universities, TVETs, and others) and sector actors to deliver activities to fill gaps, address barriers and develop a strong workforce (intermediary)
  - Development Partners / INGOs to develop a platform to coordinate and plan their capacity development efforts (e.g. CONIWAS Ghana) with a rotating leadership between the larger INGOs
- Country governments, local governments and INGOs to plan for the future of the sanitation and hygiene sector workforce by advocating for budgets and the taking of responsibility to address the issues (across sectors) (intermediary)

## Develop and professionalize a sanitation and hygiene labor market

- Development partners, Government departments and INGOs should continue to advocate for increasing investment in (rural) sanitation and hygiene, and/or work on cross-sector subsidies
- Government (potentially with support from ILO/ World Bank) to work on standardization of jobs, roles and needed qualifications, salaries, and job conditions for all levels, that are aligned with other sectors, including through development of appropriate HR policies
  - At minimum: Community health workers, Environmental Health officers, Sanitary
     /Hygiene inspectors, Health promotion specialists, Community facilitators
- Assess roadmaps to (and feasibility of) formalization of informal private sector (e.g. masons, artisans, emptyers)
- These professionalization efforts need to be coordinated with the Ministry of Education, Economy and/or Labor

# Implement incentive mechanisms and delegate decision making power on HRM for local governments to increase their capacity

- Public Services Departments should develop recruitment acts, policies and guidance for local governments to recruit and select their employees
- Sanitation / hygiene departments at national/federal level:
  - should develop guidance and support systems that support decentralised units to fulfil their responsibilities
  - develop incentives & rewards for good performance (e.g. in Nepal municipalities with WASH plan get budget for it; in India there was competition between best performing districts)
- Sanitation/ hygiene departments at national/ Federal level should support those local governments that are willing with capacity development or guidance

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## Bring local sector programs together for planning and sharing HR

- Joint planning of programs and tasks should happen at development partner level, national level, and local government/municipality level.
- Country government departments (Sanitation, Hygiene, Solid Waste, Agriculture, Education, Health) should coordinate centrally to develop and implement incentives for the sectors to work together and collaborate

## Creating Incentives or programs to attract needed skills and expertise to rural areas

- The public services departments to implement financial incentives for the rural workforce additional pay, offer health/ insurance packages for families, and other benefits.
- Set up of public services programs, in which every 5 years of service a minimum of x % of time should be spend in rural area.
- Capacity development programs (country, NGO, INGO) to build up local expertise (e.g. Indian volunteers of Swach Bharatt mission now considered for sanitation supervisor position)
- Introduction of internship/ trainee programs in rural areas to familiarize the upcoming professionals with working in the rural areas.
- CSOs, NGOs, Development partners could advocate with those in other sectors that are facing difficulties to attract workforce (e.g. Health) for investment in rural areas public services (Transport, Public Schools, Roads, Electricity, and WASH) to attract rural workforce. The argument in Ireland used is to counter urbanization, and create economic opportunities.

- All employers should have a transparent data collection on human resources (gender, education, salaries, attrition) and do HR satisfaction surveys as well as departure surveys. It will help to plan for the future, and address issues.
- All employers should develop standard roles and job descriptions and do not allow these to fully change every project (i.e., keep time to sustain the basic role)
- All employers should seriously consider workload before adding a new role/ task on an individual (this includes new funded projects)
- Private sector, and (especially local) NGOs should develop clear career paths that do not drain the experts from the country's system.

## Local governments should build a diversified workforce to perform their functions

- Public sector should diversify its workforce centrally in sanitation / hygiene departments to reflect the programs that are aiming to mobilise communities or drive behaviour change
  - i.e. Behaviour change specialists, Public Health Specialists
- Local government should work with local training institutes and experts to build mid-level professionals who can manage oversight and implementation and monitoring of programs
- Local government should investigate further to transition (talented) community health workers/ volunteers into formal (local) government jobs

## Recognise the potential of lower-level skilled workers to deliver (rural) on-site sanitation and hygiene

- Country governments to consider recognizing experience as education level (especially for women)
- Local governments to work on shorter capacity development programs to educate and provide continuous updating of those working on health/hygiene promotion/community mobilisation and masonry and where possible attract new workers (i.e. unemployed youth)
- As part of increasing private sector engagement, programs to introduce entrepreneurs/masons (without diplomas or literacy) to sanitation and support/train them on viable sanitation solutions (e.g. pit latrines/twin pits), and business skills

### Explore the formalization of the informal sector

- Local governments can mobilise the informal sector in its programs (e.g. India where masons were mobilised by the districts and trained on the models they needed to put in place)
- Certification schemes can be developed in which the government works with the TVET institutes to develop a program for masons that include toilet / handwashing facilities (in buildings)
- Governments can work also on policies to develop building codes for new housing developments, making toilets and handwashing part of the pre-requisite to build.
- Development partners/ INGOs can investigate the steps to formalisation of the informal sector in particular around the steps to formally get them registered and paying taxes. This research should also include finding any unintended consequences.

## Develop sanitation professionals through TVET, university and non-formal learning

Recommendations: Capacity Development

- Country government (with Ministry of Education) should develop a strong TVET structure, with strong courses that are focused on low and mid-level professionals that have a high practical nature and allow professional development / updating
- Universities (and consortia of universities) should collaborate and share open source their materials to develop Sanitation Leaders (through university degrees) who are technically, socially, politically and environmentally trained (e.g. GSGS and the potential of African Centres of Excellence)
- Development partners, INGOs, and employers should develop other vehicles for learning and recognition for those professionals coming in via other sectors
- Employers should work to find appropriate professional development/continuous learning –
   and professionalise that way
- Adopt capacity development principles and develop the ability for people to apply their learning

## Mainstream peer-to-peer learning for public sector staff working on sanitation and hygiene

- Develop the peer-to-peer activities as part of the role, and subsequently support new staff entering those roles
- Introduce a facilitator/coordinator of the peer-to-peer learning activities that coordinates this locally
- Evaluate and reflect yearly



## Some of the recommendations specific to Ghana and Nigeria

#### Ghana

- Diversify the sanitation professionals at MMDA
- Investigate if the standard of 1:700 ratio for EHO is financially feasible (can the jobs be created)
- Work on EHO curricula for sanitation and hygiene
- Build the policies, incentives, enabling environment and enforcement for the HR to safely empty, transport and dispose of fecal waste
- Build capacity on innovative technologies (e.g. biodigesters, satopans)
- Support the growth of the informal sector masons, artisans and sanitation as a business.
- Develop a National Sanitation Authority to focus on sanitation delivery at the national level

#### **Nigeria**

- Work on upgrading of skills and knowledge of the professionals (complex problem solving, adaptive management, project management)
- Investigate potential ways in which to increase number of Environmental Health Officers and their skills in behavior change communication.
- Foster the domestication of national and State plans into LGA level plans to translate into identification of gaps and much needed HR gaps
- Inform farmers on safe emptying practices, and capacitate them to safely reuse to cover shortage in these fields
- Support the growth of the informal sector masons, artisans and sanitation as a business.

## GROUP DISCUSSION I RECOMMENDED ACTION

#### 10 Min

- Are the proposed recommendations/actions valid and relevant in response to the findings presented earlier?
- Can you suggest other proposed actions, either in Ghana/Nigeria or in your own country/in general? (discuss newly proposed actions to make sure everybody understands them, then add them to list of actions – see hereunder)



FOOTER C

## EXERCISE RECOMMENDED ACTION

#### 5 Min

Individually stickers/post-its to indicate:

- Level of relevance of each proposed action (how relevant is this action to your context (low, medium, high)? Ask them to write the name of their country on the stickers/post-its
- Prioritization of the actions (use 3 stickers to indicate which actions have highest priority)
- For those actions you have deemed medium or highly relevant, indicate who/which actor(s) should take the lead on such an action in your country/context. Either write on the same sticker/post-it or add a post-it, and be as specific in identifying the lead actors as you can be.



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## All systems go

19 - 21 October 2022 | Accra, Ghana

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