











Project Stellar

Strengthening COVID-19 Diagnostic and Laboratory systems investments in Africa through Partnerships

Special COVID-19 ECHO session # 53

Background

- Accessibility to quality assured diagnostic services are fundamental for quality heath care and sound public health decision-making
- In COVID-19 pandemic response, access to lab. testing services is pivotal for:
 - Timely identification, isolation and treatment of infected persons (essential for breaking transmission chain)
 - Epidemiological surveillance
 - Public-health control measures formulation
 - Evidence-based decisions regarding national policies
 - Informed intervention programming & informed resources appropriation

"...The most effective way to prevent infections and save lives is by breaking the chain of transmission. And to do that, you must test and isolate. You cannot fight a fire blindfolded. And we cannot stop this pandemic if we don't know who is infected. We have a simple message for countries: test, test, test."

- Dr. Tedros Ghebreyesus, WHO Director-General



Bottleneck analysis conducted by The Africa CDC through AFTCOR & Partners (Sep-Dec, 2021)





Key profiled bottlenecks limiting coverage and access to COVID-19 testing services. These varied across the AU Member States

Planning 8	Regulatory
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- No COVID-19 testing Strategy
- Registered products

Procurement & Supply Chain

- Low procurement rates
- Insufficient supplies distribution mechanisms

Implementation

- Low testing coverage with only portion of regions activated
- Antigen use cases limited to symptomatic cases

Data Management

- Data reporting largely limited to PCR platform
- Inadequate or lack of currently reporting systems for antigen testing data

Community-level Expansion

- Testing limited to health facilities, no community-based use cases
- Lack of policies to guide transition from facility to community-based testing

Drivers of poor testing coverage are well-documented, and mainly systemic



On-the-ground partners in the African region and country teams (CTs) have highlighted three key barriers:



Governance and policy

National-level guidance and policies are not aligned with testing needs

- Some countries have not registered Ag-RDTs as an approved diagnostic device
- National policies often hinders scale-up (e.g. rules prohibiting community health workers and lay cadres from administering tests), or does not exist altogether



Limited Resources / Training

Most countries have <50% of their Health facilities offering Covid testing

- Insufficient COVID-19 tests to meet global targets
- Testing is centralized and most health facilities and communities are not yet activated to provide Covid-19 testing services
- Health facilities are understaffed hence limited number of staff are trained on core competencies e.g., test administration, sample handling, quality assurance, waste management
- Countries laboratory systems readiness levels are inadequate for effective response to emerging disease treats and pandemics



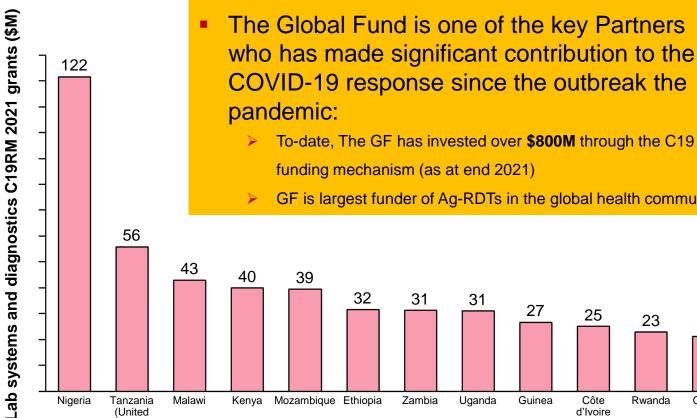
Data management

Lack of reliable testing data hinders further implementation support

- Limited training for HCWs on data recording or management
- Only 30% of countries in African region currently reporting Ag-RDT to central level.
- Standard data management tools to allow reporting and tracking of testing rates are not available. Need for integrating COVID-19 data into existing LIS/HMIS; new digital apps to capture Ag RDT results

Despite the significant GF investment thru C19RM funding for the Lab Diagnostic Lab System, testing rates remain low in many African countries





32

39

Kenya Mozambique Ethiopia

These **20 African countries** represent ~70% of total C19RM funding in Dx and lab systems

To-date, The GF has invested over \$800M through the C19 RM funding mechanism (as at end 2021)

 0 countries (0%) are meeting the ACT-A testing target of 100 tests / 100,000 persons / day

Togo

Burundi

Sierra

Leone

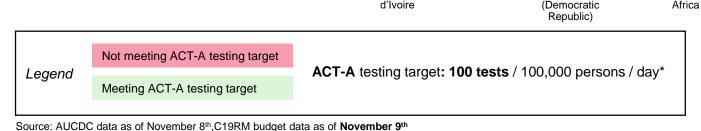
Senegal

GF is largest funder of Aq-RDTs in the global health community

31

Uganda

Zambia



Guinea

Côte



Nigeria

Tanzania

(United

Republic)

43

Malawi

Rwanda

Ghana

Congo Madagascar

South

Burkina

Faso

To Bridget these gaps: The GF, has made available \$10M for <u>capacity support</u> to accelerate implementation of C19RM Investments in Diagnostics and Lab systems in prioritized African countries











PROJECT STELLAR

Improve
National
Diagnostic
Governance
& Regulation

Scale-up and increase coverage for COVID-19 testing and surveillance

Strengthen
Data
Management
Systems

Project Stellar



The Global Fund

Focus

Supporting Implementation of Diagnostic and Laboratory Systems Investments for COVID-19 in the African Region

No. countries

30 (Known = 22; TBD = 8)

TA To countries

TA to be through Partners under Stewardship of the Africa CDC

Partners to deliver TA

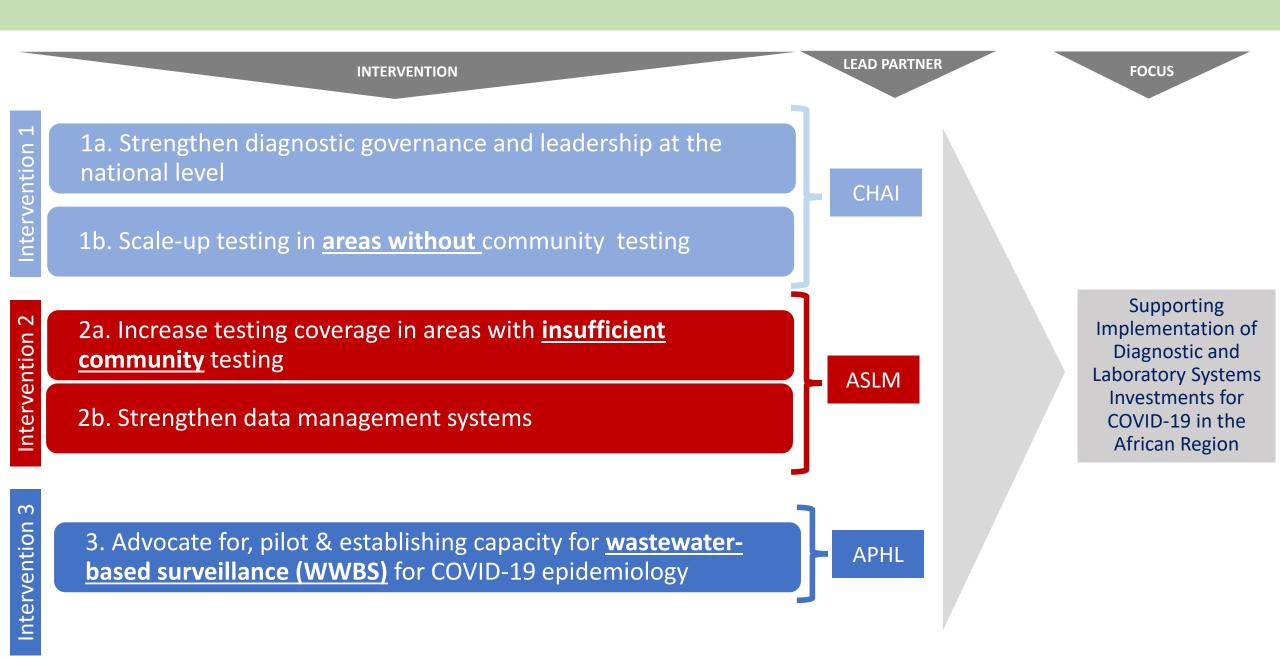
African Society for Laboratory Medicine (ASLM)
Clinton Health Access Initiative (CHAI)
Association of Public Health Laboratories(APHL)

Life of Project (LoP)

Mar 2022 - Dec 2023



PROJECT STELLAR 3 KEY INTERVENTIONS



INTERVENTION 1: STRENGTHENING DIAGNOSTIC GOVERNANCE & SCALING UP TESTING



CHAI LEAD: Intervention 1

ion 1 Project Consortium and Roles

Key Interventions:

- Intervention 1a. Strengthen diagnostic governance and leadership at the national level
- Interventions 1b. Scale-up testing in areas without community testing

Operational

Timeframe:
 March 8, 2022 - Dec 31, 2023



*Pending confirmation from MOH following need assessment phase

Consortium Lead

-Grant management and implementer for specific countries

CHAI

Consortium Partner

-Regional support

ASLM

Sub-Contractors

Country implementers:

PSI-Madagascar

Solina Health – Chad, Congo, Gambia, Guinea Amref Health Africa – South Sudan

Regional Support - Health Poverty Action

PSI Solina Health Health Africa

Health Poverty Action

INTERVENTION 1: STRENGTHENING DIAGNOSTIC GOVERNANCE & SCALING UP TESTING



Proposed TA Work Areas

Project Priorities

To be defined on further consultation with country stakeholders

Decentralization of Testing

- Identify impactful settings for antigen testing deployment
- Coordination of antigen testing trainings/scale up

Strategy

- Models for multi-disease testing (TB, HIV, and / malaria)
- Role of self-testing & high-risk population screening

Human Resources

- Development of training plans
- Expand testing access through task shifting

Community-Based Testing

- Expansion of antigen testing to additional settings
- Promote public education & community engagement

Monitoring & Evaluation

- · Coordination of supervision & mentorship
- Improve utility of M&E data

PSM & Resourcing

- Quantification planning and commodity procurement support
- Identify sufficient resources for diagnostic response

Expected Deliverables

Intervention 1A

- # of countries implementing multi-disease testing
- # of countries with national testing strategy highlighting role of PCR and antigen testing
- # countries with favorable policies for testing by non-lab personnel

Intervention 1B

- of countries exceeding the minimum WHO COVID-19 testing targets of 1 / 1,000 persons per week
- % Increase in health facilities/communities per country activated to implement COVID-19 testing
- % Increase in health facilities per country certified as per national standards to conduct COVID-19 testing

INTERVENTION 2:

INCREASING TESTING COVERAGE & STRENGTHENING DATA MANAGEMENT SYSTEMS



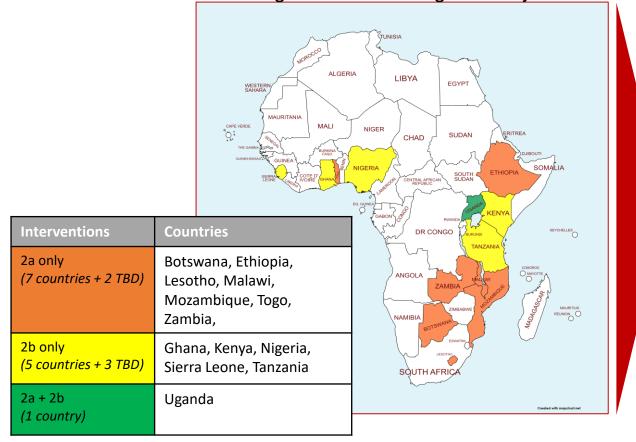
ASLM
AFRICAN SOCIETY FOR LABORATORY MEDICINE

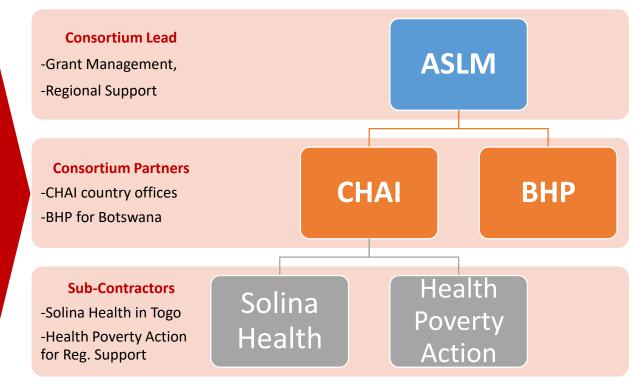
LEAD: Intervention 2

Intervention 2 Project Consortium and Roles

 Intervention 2a: Increase testing coverage in areas with insufficient community testing

Intervention 2b: Strengthen data management systems





INTERVENTION 2: INCREASING TESTING COVERAGE & STRENGTHENING DATA MANAGEMENT SYSTEMS



PROPOSED WORK AREAS

Project Priorities (To be dependent on country specific based on NA)

Decentralization of Testing

- Support activating additional COVID-19 testing sites
- Facilitate and

Human Resources

- Support strengthening service providers competences
- · Task-shifting; EQA implementation

PSM Strengthening

Support the coordination for quantification planning and commodity procurement

Community-Based Testing

 Integrating and expand Ag RDT testing into existing community-based health service delivery models/interventions such as HIV & TB community interventions

M&E/data systems

- Explore support towards innovative electronic data reporting mechanisms at testing facility level and national level to ensure timely data reporting and utilization M&E:
- Support DQAs of Supervision/Mentorship

Expected Deliverables

- of countries exceeding the minimum WHO COVID-19 testing targets of 1 / 1,000 persons per week
- % Increase in health facilities/communities per country activated to implement COVID-19 testing
- % Increase in health facilities per country certified as per national standards to conduct COVID-19 testing
- # Countries reporting disaggregated(PCR, Ag RDT) COVID-19 test results to central level
- # Countries reporting integration of COVID-19 samples into existing sample transport networks

Establishing capacity for wastewater-based COVID-19 epidemiology & supporting implementation of pilot surveys.



- COVID-19 outbreaks remain a serious threat globally
 - WWBS provides early warning (7 days) of increased transmission.1
 - Provides data for **public warnings to reduce spread of disease** and to inform public health actions such as increasing access to vaccines.

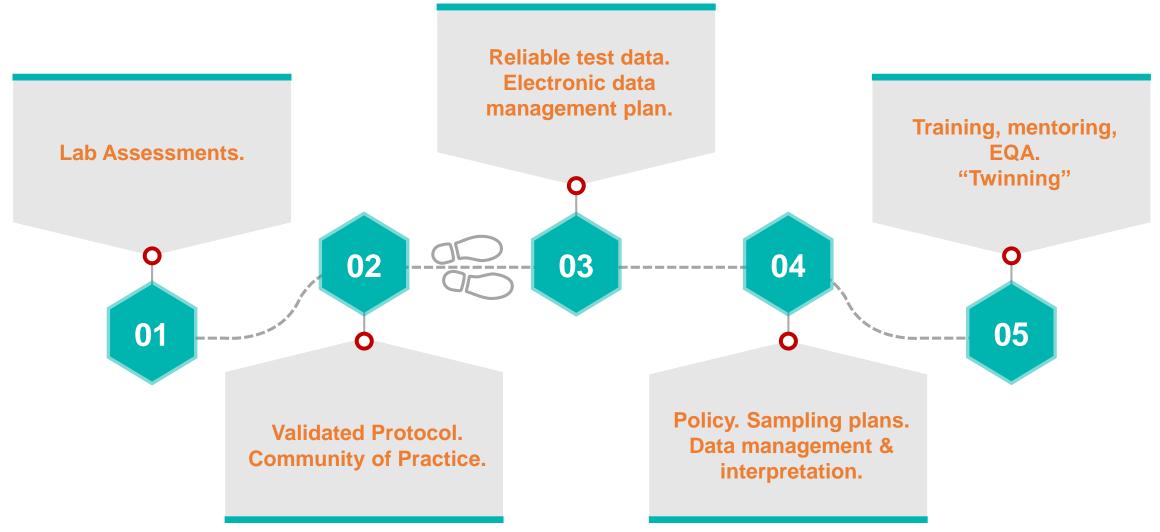


- •Decrease in public seeking diagnostic testing or increase of rapid antigen test with lack of reporting to MoH.
- WWBS capability developed now has a future role in early detection and assessment of other high consequence pathogens and environmental contaminants.
- Results from South Africa NICD WWBS testing in 5 provinces shows value of this surveillance method.



Ethiopia, Kenya, Mozambique, Uganda





RISKS AND ASSUMPTIONS

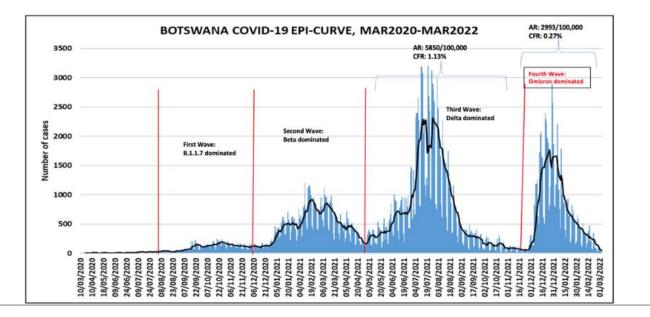
Dynamic and evolutionary nature of the COVID-19 pandemic rapidly influences Countries' priority policy needs

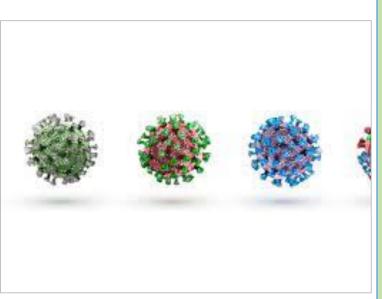
- Community demands for C-19 tasting services greatly vary with resurgence of infection
- Emergency of COVID-19 variants

NATIONAL TRENDS: COVID-19 TEST STATISTICS (MARCH 2020-FEB 2022)

PARTNERSHIP

Potential emergence of new COVID-19 Variants





- In-country GF
 CCMs & GF
 Principal
 Recipient funds
 flow process
 vary from
 country to
 country,
 potential risks
 of delays
- Dynamics

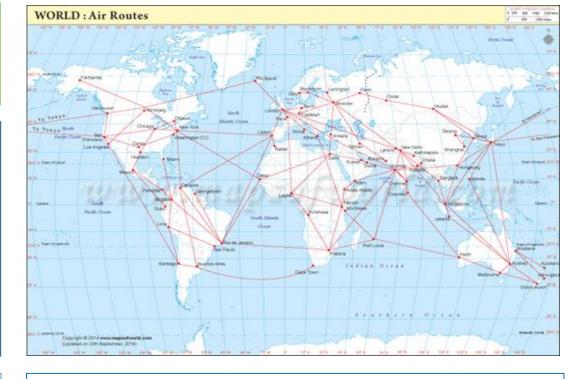
 arising from
 other in country
 multiple
 funding or
 implementatio
 n mechanisms,
 e.g perceptions
 of duplication
 of efforts

RISKS AND ASSUMPTIONS

Countries across the across the continent and the globe continue relaxing of cross border travel restrictions.....

Kenya: COVID-19 travel protocols amended as of March 12 /update 39

COVID-19-related travel restrictions in Kenya amended as of March 12.



Government Scraps Covid-19 Test Requirement For Fully Vaccinated Travellers

© 29th March 2022

Coronavirus, Coronavirus Zimbabwe & Diaspora, News

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By Thandiwe Garusa

FULLY vaccinated travelers will no longer be required to produce 'valid' negative Covid-19 test results at any border post when entering Zimbabwe, information minister Monica Mutsvangwa has said.

Those who are yet to be vaccinated or those not yet fully vaccinated will however need proof of a negative test result.

RISKS AND ASSUMPTIONS

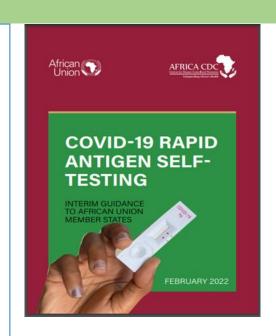
Unpredictable In-country political unrests and/or security instabilities....





OPPORTUNITIES

- Available partners support to procure Ag RDTs e.g GF, to rapidly scale up testing to accelerate testing in community
- Emergence of new strategic guidance for COVID-19 response;
 - Self testing concept
 - Home-based care management for non-severe cases
 - Community based testing
- Despite slow rate, Vaccination against COVID-19 is gradually becoming available
- Existing laboratory systems for other disease programs (HIV, TB, Malaria, etc), transport networks,
- Data management systems already exist in AU
 Members states, will only require improvement
- Growing local continental capacity to conduct genomic sequencing, e.g Omicron detected





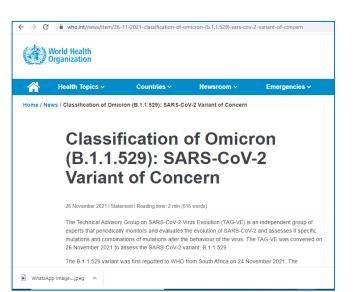
Use of SARS-CoV-2 antigen-detection rapid diagnostic tests for COVID-19 self-testing

Interim guidance 9 March 2022



Key points

- COVID-19 self-testing, using SARS-CoV-2 Ag-RDTs, should be offered in addition to professionally administered
 testing services (Strong recommendation, low to moderate certainty evidence). This recommendation is based on
 evidence that shows users can reliably and accurately self-test, and that COVID-19 self-testing is acceptable and
 feasible and may reduce existing inequalities in testing access.
- The role and use of COVID-19 self-testing—including why, where and how it should be used—will need to be adapted
 to national priorities, epidemiology, resource availability, and local context with community input. Clear and up-todate messaging will be needed to ensure self-test users can understand when to test, the meaning of their test results
 and post-test responsibilities.
- Self-testing should always be voluntary and never mandatory or coercive. It is important that in certain settings, such as schools and workplaces, self-testing costs are not borne by students or workers.
- Access to affordable and quality-assured SARS-CoV-2 Ag-RDTs, including for self-testing, should particularly be
 prioritized for settings where there is limited access to NAAT. COVID-19 self-test kits should meet the existing
 World Health Organization (WHO) standards for Ag-RDTs (≥ 80% sensitivity and ≥ 97% specificity among
 symptomatic individuals).
- COVID-19 self-testing can be considered for both diagnostic and screening purposes. Depending on the
 epidemiological situation, a positive self-test result in symptomatic individuals or those with recent exposure could
 be used for diagnosis, and to facilitate linkage to clinical care and therapeutics.
- For screening purposes, a negative self-test result could enable participation in an activity, such as group activities
 or indoor gatherings, and confirmatory testing for positive results can be considered.
- Each country is facing a different situation in the pandemic depending on several factors including the intensity of SARS-CoV-2 circulation, amount of population level immunity, capacities to respond and againty to adjust measures. Timely and accurate diagnostic testing for SARS-CoV-2, the virus that causes COVID-19, is an essential part of a comprehensive COVID-19 response strategy. As the pandemic continues and the virus evolves,



Phase 1

- Stakeholders engagements
- Conduct deep dive analysis to identify country context priority needs

Mar-Apr 2022

Phase 2

 Country specific work plans development based on country identified priorities

April-May 2022

Phase 3

- Implementation of workplans,
- M&E

May2022-Dec 2023













Thank you...