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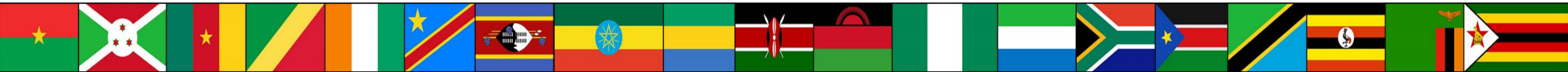
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Progress in scale up of viral load testing among countries participating in the LabCoP

LabCoP Team

ASLM



Laboratory Community of Practice Project (LabCoP)

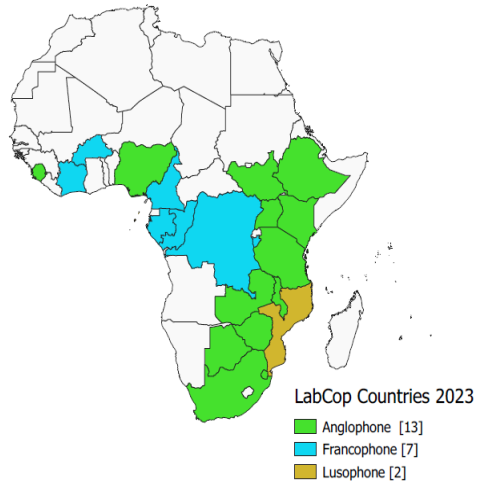
The Laboratory System Strengthening

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LabCoP Achievements

Increased number of Participating countries

- Enrolled 22 countries
 - 12 Anglophone
 - 6 Francophone
 - 2 Lusophone



Dissemination and sharing of best practices

- >153 ECHO Sessions
- >350 connections
- WhatsApp group with >256 members
- >30,000 exchanges
- 5 annual meetings



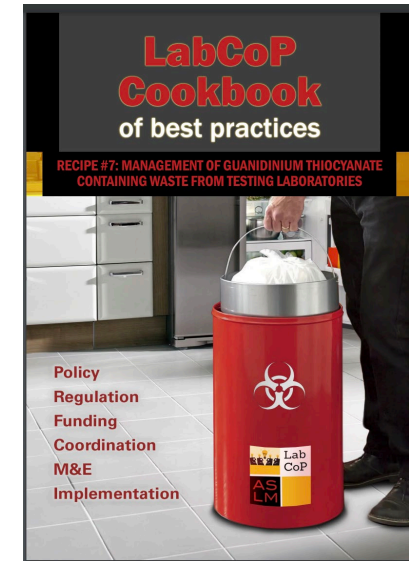
Country Support Activities

- >80 standardized country assessments and development of action plans
- >30 technical country visits
- Piloted laboratory Leadership training in 2 countries
- >5 South-to-South engagements



Publications & Guidance documents

- 7 recipes in Cookbook
- >6 peer-reviewed articles
- 14 newsletters

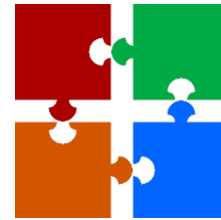


HIV VL cascade self
assessment tool

GHSA LabNet scorecard

Integration readiness
assessment tool

Laboratory mapping tool



assess laboratory
systems functions
underlying the HIV viral
load cascade



assess laboratory
network and systems
functions

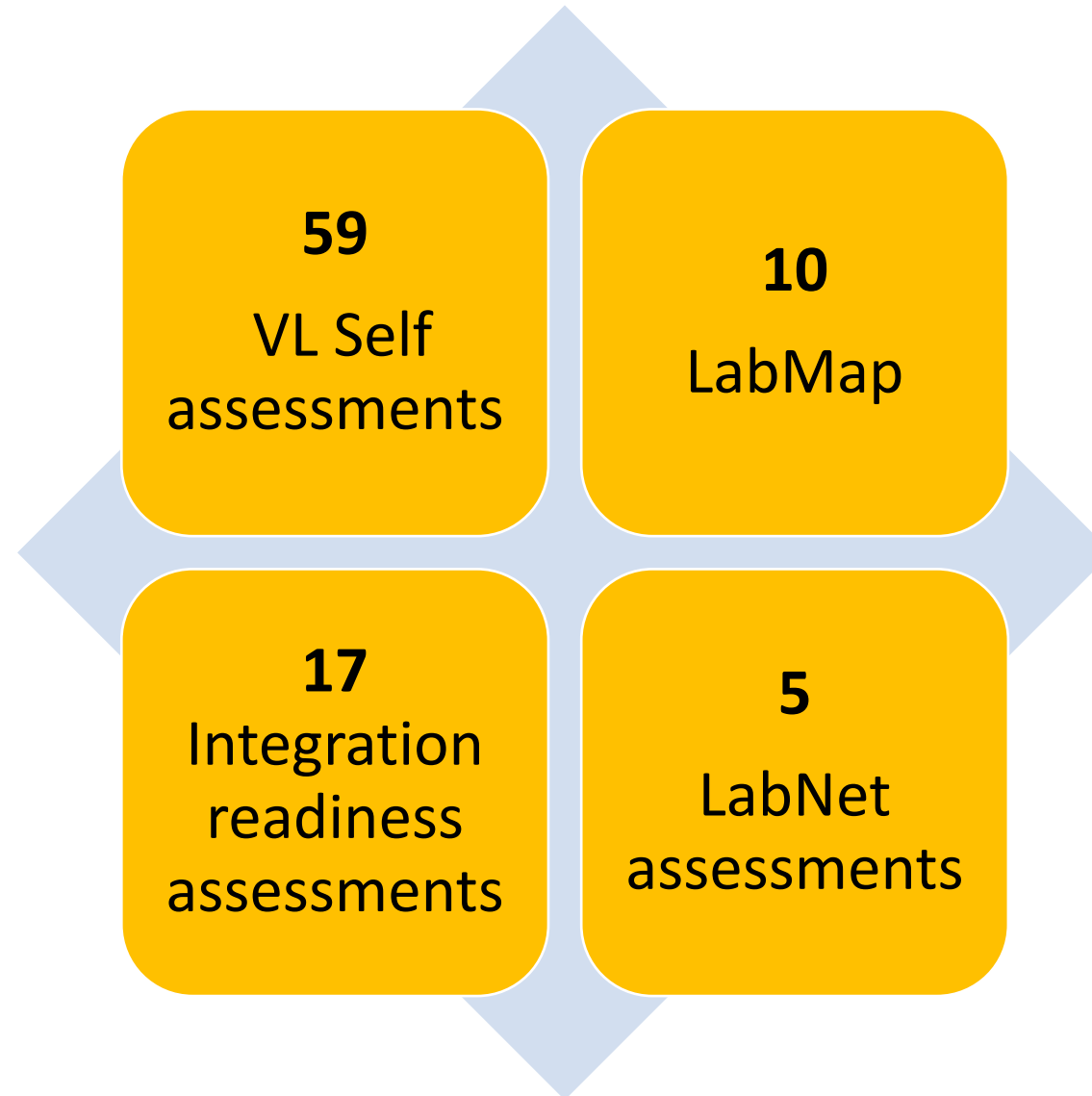


Assess the readiness of
laboratory system to
deliver integrated
diagnostic services



Determine where
laboratory capacity
is located

Number of standardized assessments conducted since 2017...



SITUATION DES SYSTÈMES DE LABORATOIRES NATIONAUX

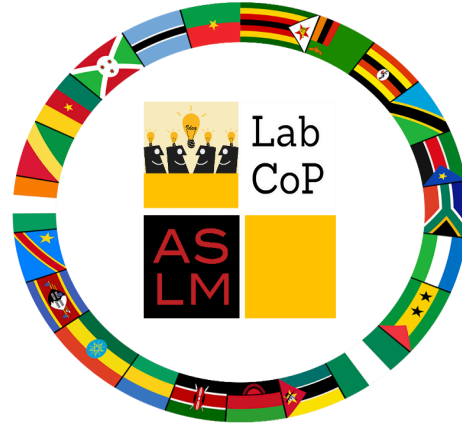
RAPPORT NATIONAL DU BURKINA FASO SUR DIVERSES EVALUATIONS LabCoP



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SITUATION OF NATIONAL LABORATORY SYSTEMS

COUNTRY REPORT OF VARIOUS LABCoP ASSESSMENTS



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SITUATION DES SYSTÈMES DE LABORATOIRES NATIONAUX

RAPPORT NATIONAL DU CAMEROUN SUR DIVERSES EVALUATIONS
LABCoP



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Each country receives an individual report highlighting

- Gaps → dashboards
- What is the next step that the country should achieve? → annexes



Interventions using the best practices identified (LabCoP)
→ workplans

**HIV VL cascade self
assessment tool**



assess laboratory
systems functions
underlying the HIV viral
load cascade

Qualitative section

- Demand creation
- Specimen collection/transport
- HIV VL testing
- **Waste management**
- **Supply chain**
- **Workforce**
- Results utilization
- **Leadership and management**

Quantitative section

- **Number of reporting HIV VL sites**
- **First HIV VL cascade**
 - #Eligible for VL
 - #Receive a VL
 - #VL suppression
- **Second HIV VL cascade**
 - #EAC
 - #Second VL

Applied
every year

Gabon



Malawi



Uganda





Congo



HIV VL cascade self-assessment tool: qualitative section

Country A - 2022

Domains of the HIV VL cascade	Indicators	Indicator score	Level of capacity of the domain	Score change from 2021
1. Demand Creation for HIV VL testing	1.1 National strategy to increase VLT demand	3 	Strong technical or managerial level	Stable
	1.2 National HIV VLT awareness campaign for PLHIV	3 		
	1.3 National HIV VL strategy for stakeholders	4		
	1.4 National training programme for clinician on importance of VL on	4		



Stage 1
Foundational level



Stage 2
Moderate level



Stage 3
Strong technical or managerial level



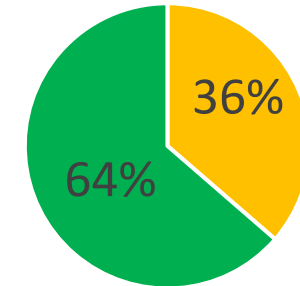
Stage 4
Advanced level



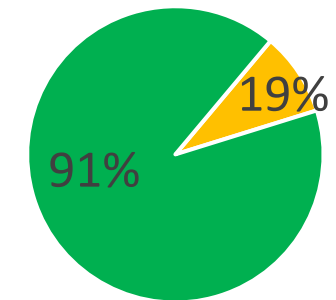
Indicates lowest score within field

11 founder LabCoP countries

2019














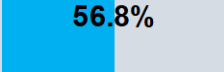

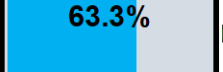

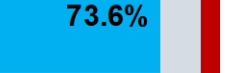












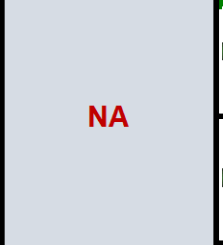

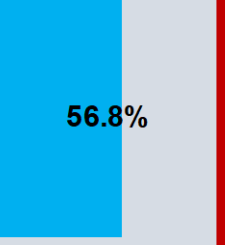














2022

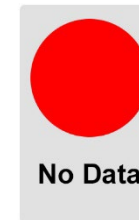


 Managerial to advanced

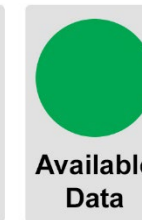
 Foundational to moderate

National Viral load testing data source		2020		2021		2022	
# of VLT sites in the country		?		?		?	
# of VLT sites reporting		n (%)		n (%)		n (%)	
Cascade of Routine Viral Load Testing and Key Indicators to Track Virally Suppressed Patients (first cascade)							
# of PLHIV in the current year (1)	1	 1,315,646		 1,277,584		 1,301,402	
# PLHIV currently on ART	2	 1,146,532		 1,184,901		 1,188,636	
# PLHIV currently on 1st line ART regimen (N)	3	 1,100,932		 1,141,925		 1,139,648	
# PLHIV on ART eligible for a routine VL test	4	 1,095,549		 1,141,925		 1,153,516	
# PLHIV on ART who received a routine VL test	5	 622,422		 722,404		 848,648	
# PLHIV on ART who are Virally Suppressed (<1,000 copies/ml) on routine testing	6	 528,902		 642,467		 795,282	
# Virally suppressed PLHIV referred to a less intense model of HIV care	7						
VL cascade for patients with a non-suppressed VL test result (VL>1000 copies/mL) (2nd cascade)							
# PLHIV on ART with a VL ≥1,000 RNA copies/ml	1b	 93,520		 79,937		 53,366	
# PLHIV on ART with a VL ≥1,000 RNA copies/ml who received Enhanced Adherence Counseling (EAC) :	2b					 30,265	
# PLHIV on ART with VL ≥1,000 copies/ml who received a follow-up VL testing within 3-to-6 months of EAC	3b					 17,201	
# of PLHIV who re-suppressed at follow-up VL testing	4b					 11,157	
# PLHIV on ART with two consecutive VL test results of ≥1,000 copies/ml	5b					 6,044	
# PLHIV on ART who SWITCHED to a 2nd or 3rd line ART regimen	6b					 3,680	

Quantitative assessment



No Data



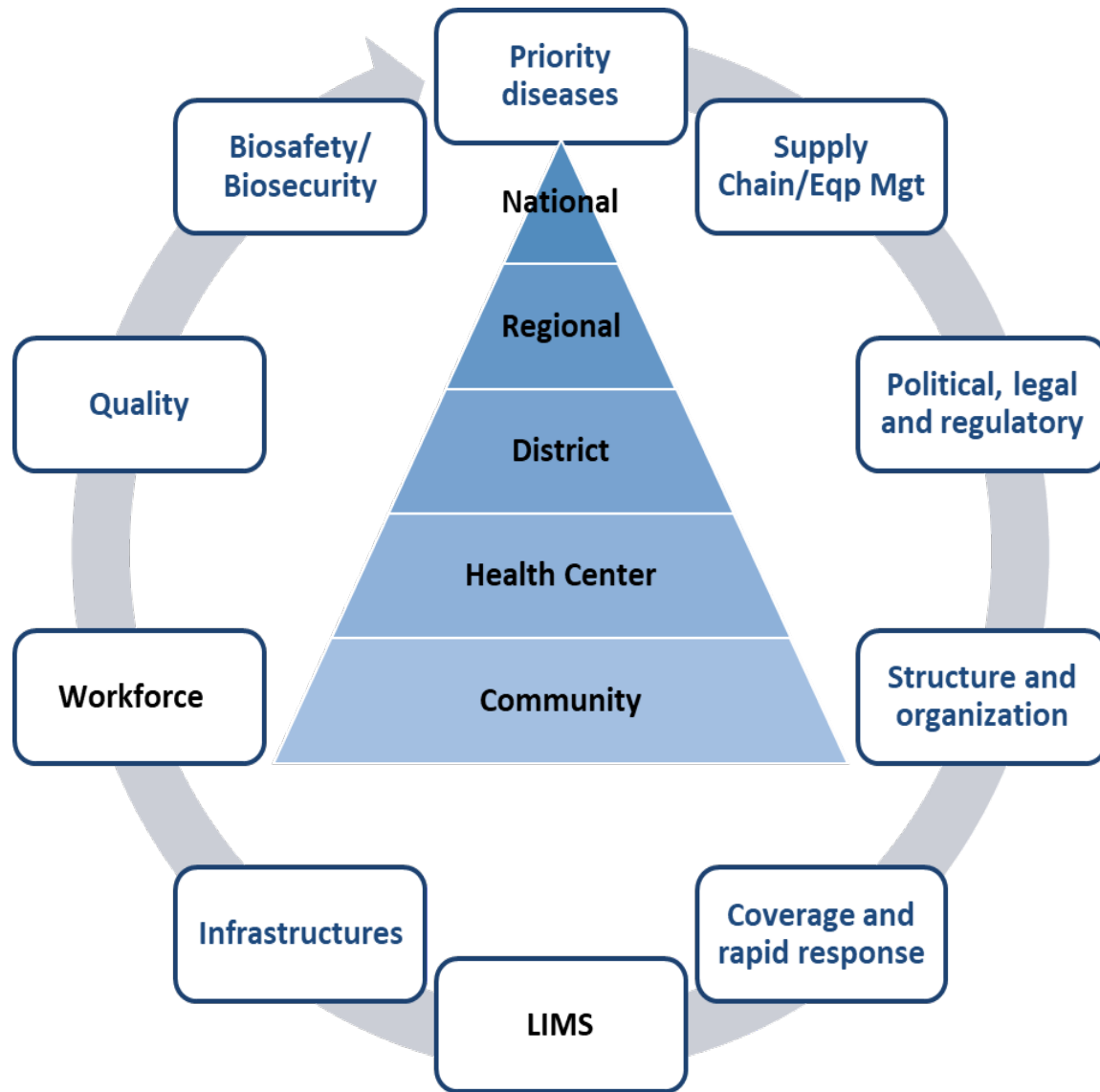
Available Data

GHSA LabNet scorecard

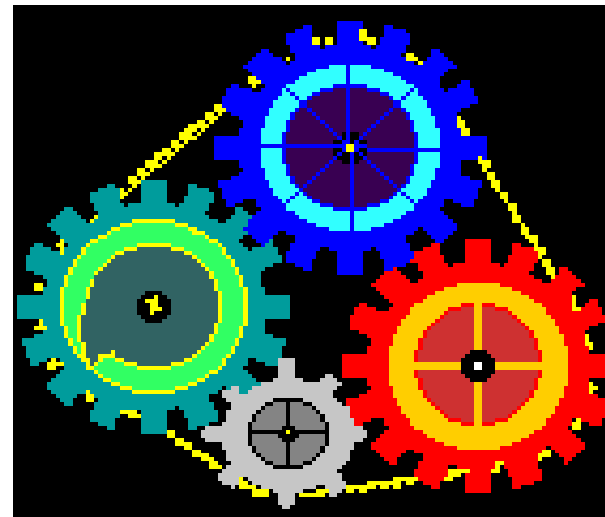
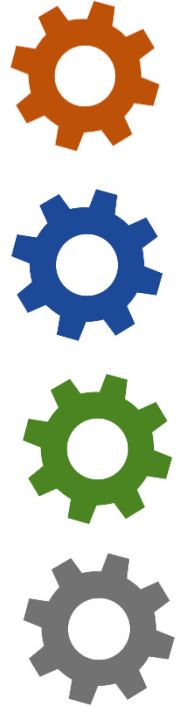


assess laboratory
network and systems
functions

Measuring laboratory networks and systems functionality:



- Clinical functions
- Public health functions
- One health approach
- Routine and emergency
- Limited resources
- Equitable access
- Cost effectiveness of services
- Integrated services
- Etc...



Applied
every 2-3
years

Country A - 2022

Capacités	Composants	Indicateurs	Score de l'indicateur	Score du composant	Progrès par rapport à l'évaluation précédente
	Politiques et plans nationaux	Sécurité sanitaire mondiale dans les politiques et plans nationaux de laboratoire	2	Niveau modéré	Augmenté (+1)
		RSI dans les politiques ou plans nationaux de laboratoire	4		
		Opérationnalisation des capacités du RSI	3		
		Mécanisme d'octroi de licence pour les laboratoires	2		

Stage 0
Absence of key attributes

Stage 1
Foundational level

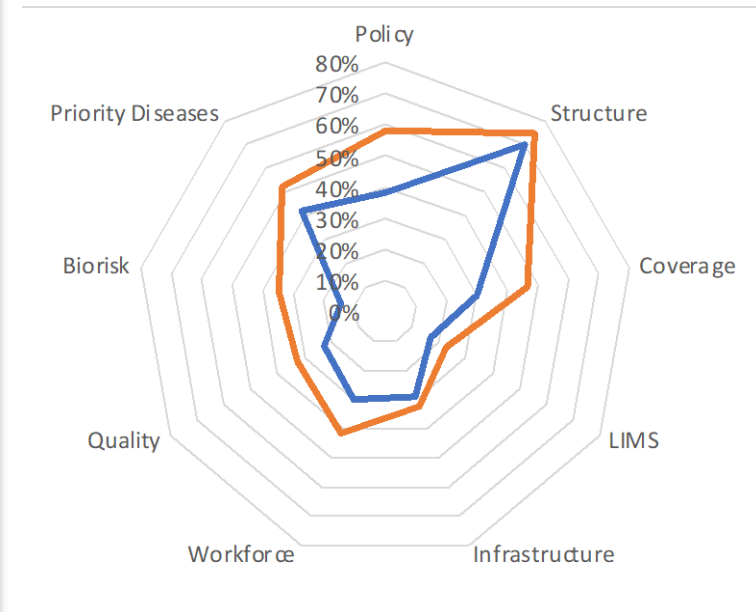
Stage 2
Moderate level

Stage 3
Strong technical or managerial level

Stage 4
Advanced level

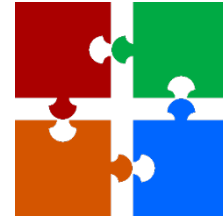
Stage 5
Attainment of international standards

Indicates lowest score within field



Progress in % advancement of individual indicators against the highest standard

**Integration readiness
assessment tool**



Assess the readiness of
laboratory system to
deliver integrated
diagnostic services

Qualitative section

- Preparation and planning
- Network design
- Support systems
- Data for decision-making

Applied
every 2-3 years

South Sudan



Ethiopia






Botswana

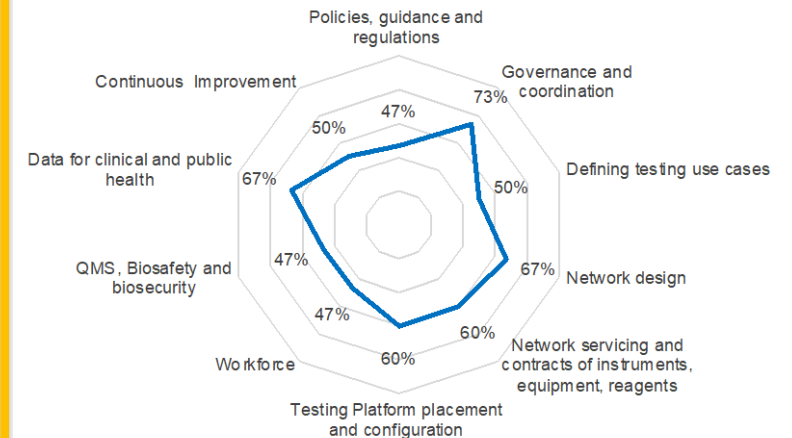


Sierra Leone




Country A - 2022


Capability	Component	Indicator	Indicator score	Level of capacity of the component
	1.1 Policies, guidance and regulations	1.1.1 integration in health policies	2 	Foundation level
		1.1.2 National essential diagnostic list	1 	
		1.1.3 National procedures to adoption of new tests on approved platforms	1 	



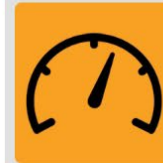
Percentage advancement of individual indicators against the highest standard




Stage 0
Absence of key attributes




Stage 1
Foundational level




Stage 2
Moderate level




Stage 3
Strong technical or managerial level



Stage 4
Advanced level

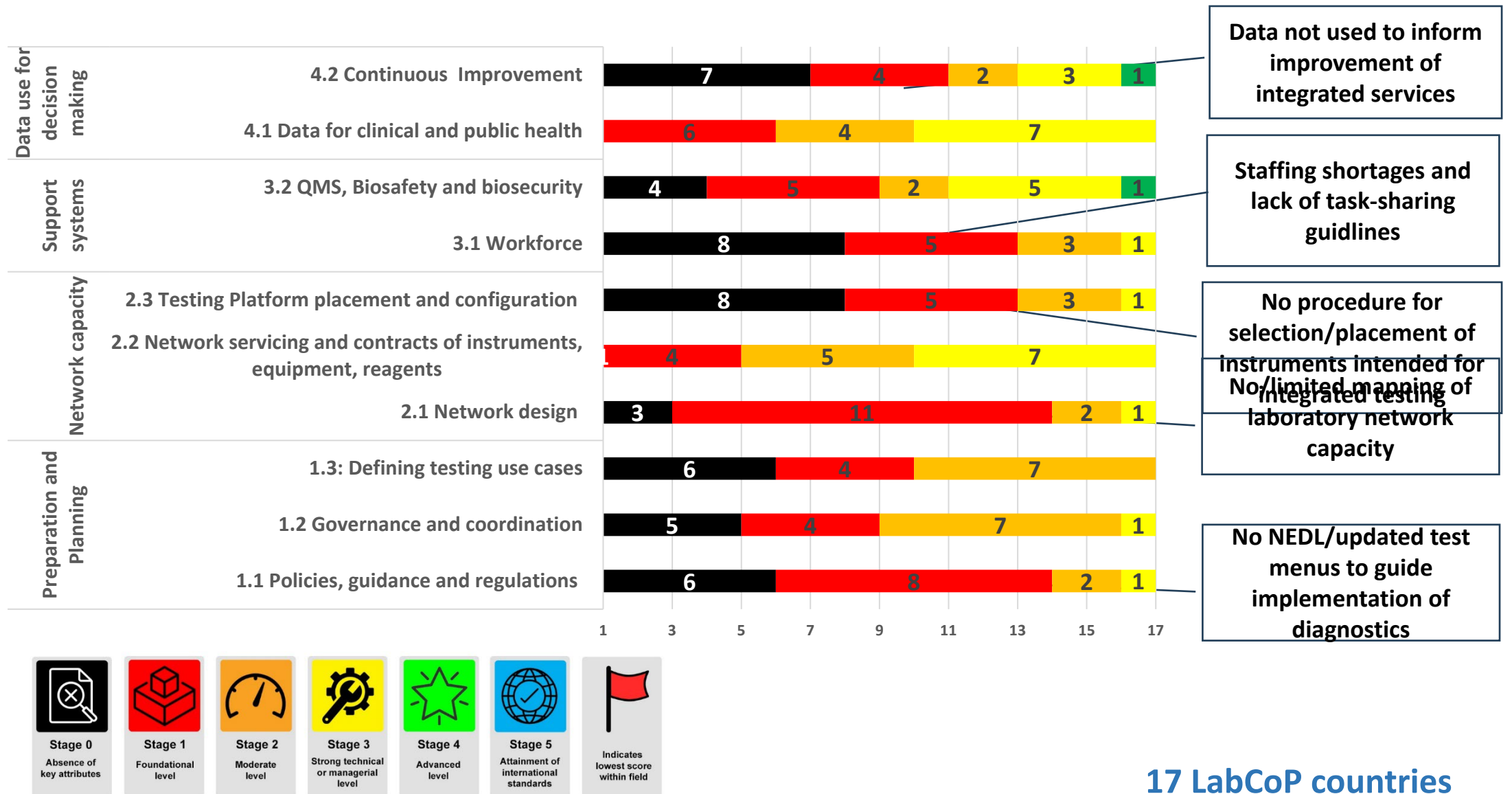


Stage 5
Attainment of international standards



Indicates lowest score within field

Advancement towards international standard across 10 components



Laboratory mapping tool

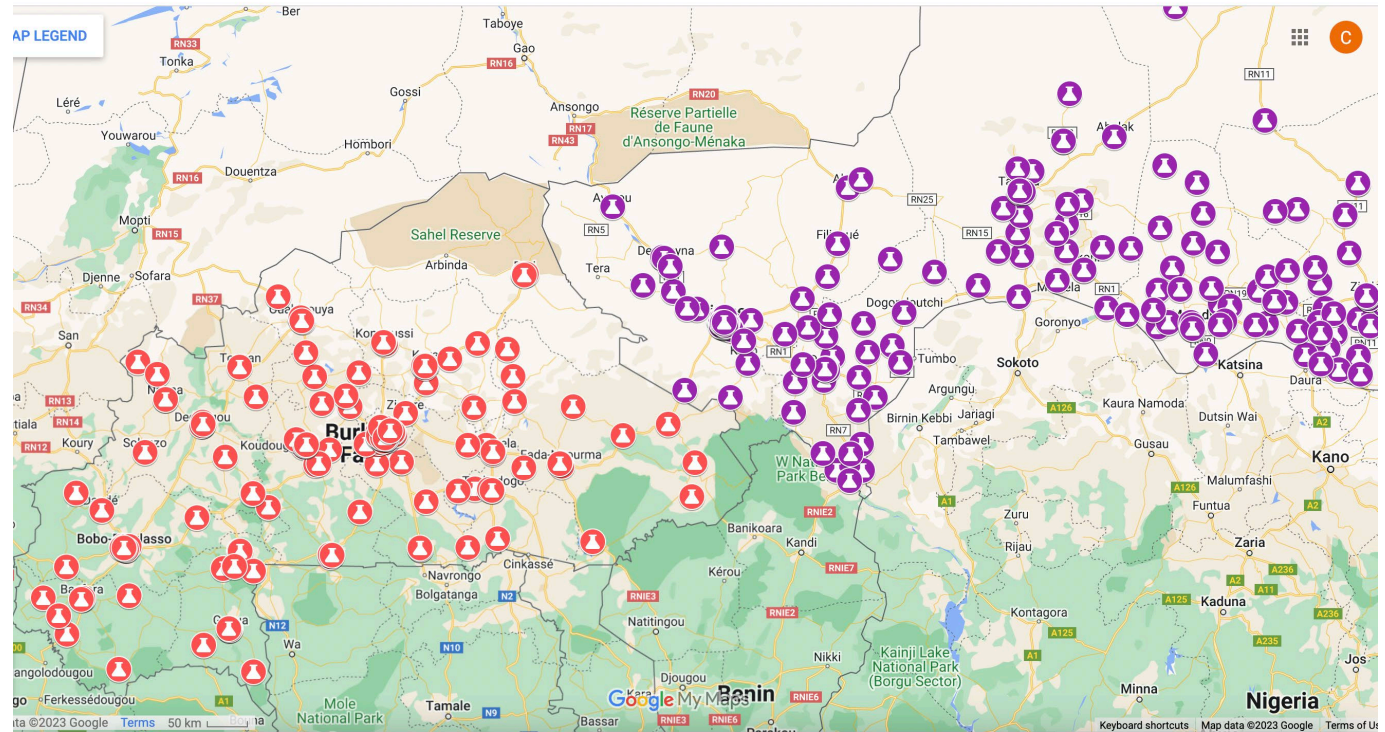


Determine where
laboratory capacity
is located

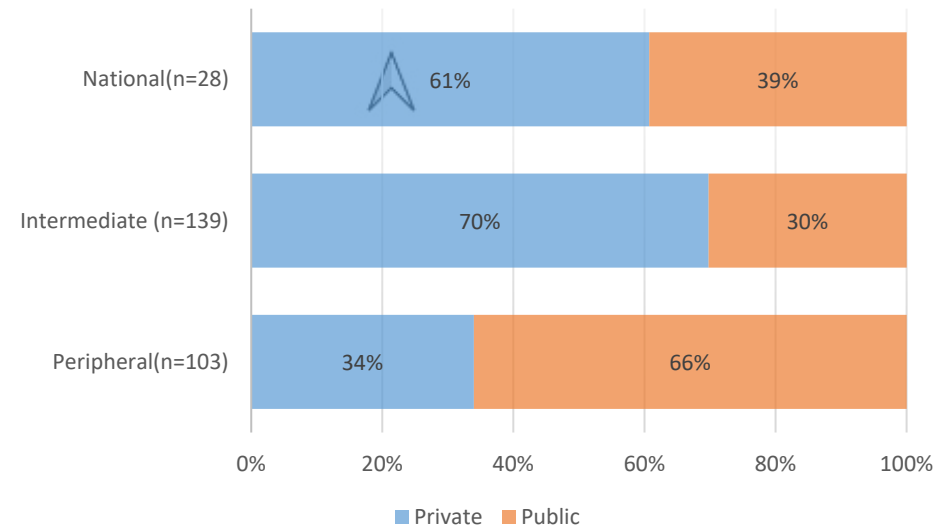
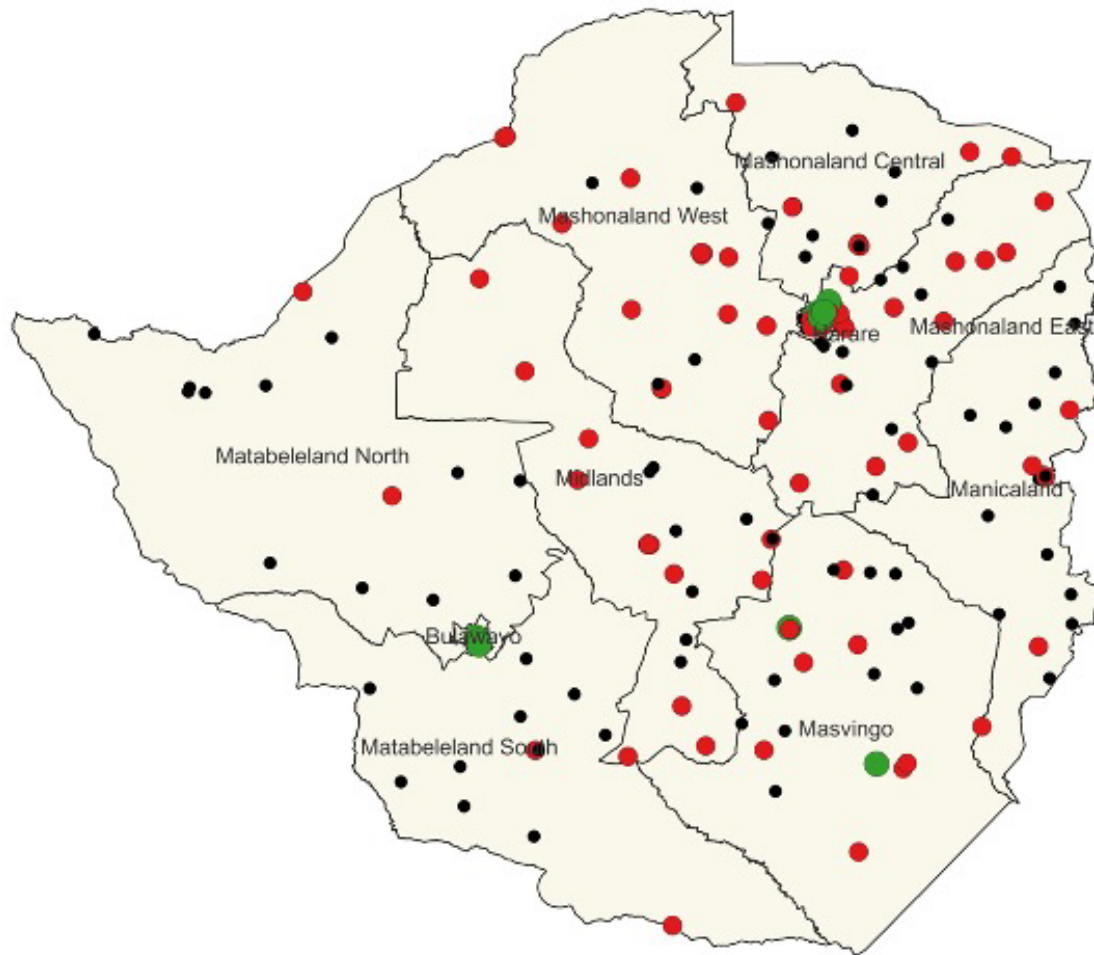
The LabMap tool

Sections of the tool

- Laboratory profile
- Laboratory Staffing information
- Infrastructure
- Laboratory departments and testing menu
- Laboratory Quality Management System
- Laboratory Connectivity
- Linkages to laboratory networks
- Biosafety and Biosecurity
- Major Equipment
- Supply chain management



LabMap analysis



N = 270 Laboratories

- Tier
- National
 - Intermediate
 - Peripheral

Additional analyses for countries with complete LabMap data

Summary of human resources capacity by laboratory tier level

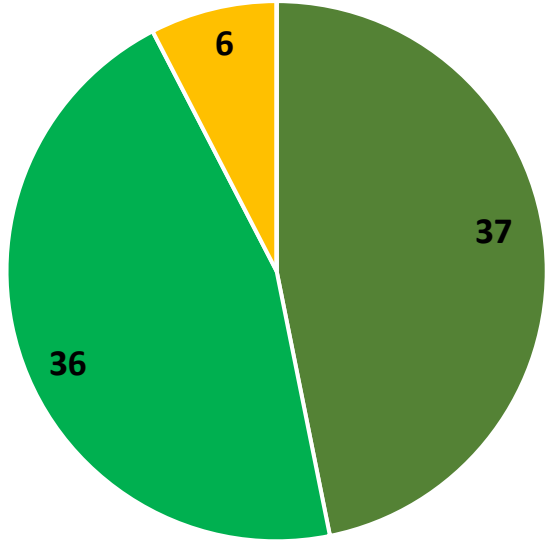
Workforce*#	Tier 1 (n%)	Tier 2 (N%)	Tier 3 (N%)	Others	Total
Phlebotomists	0 (0%)	312 (59%)	217 (41%)	NA	529
Lab technologists	147 (22%)	244 (37%)	264 (40%)		655
Lab assistants or microscopists	31 (20%)	56 (36%)	68 (44%)		155
Lab technicians	56 (24%)	76 (32%)	105 (44%)		237
Lab scientists	132 (23%)	208 (36%)	235 (41%)		575
Pathologists	0 (0%)	13 (46%)	15 (54%)		28
Medical Microbiologists	0 (0%)	151 (35%)	284 (65%)		435

Heat map of detection capacity for priority pathogens

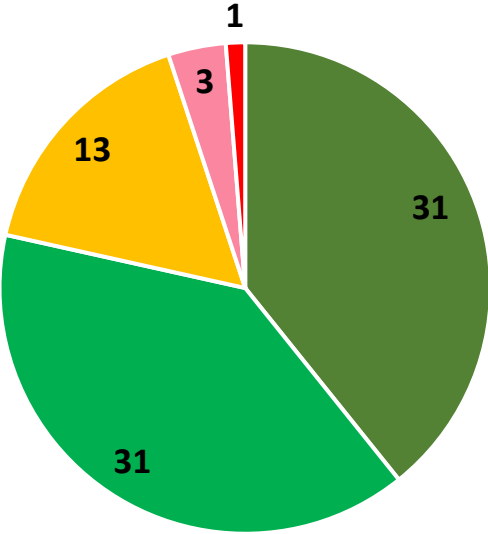
Pathogen/Disease	Serology	Viral load	Genotype	Isolation by cell culture	Neutralization assay
Ebola Virus		1	2		
Rift valley fever virus			1		
Lassa fever			2		
Congo crimean hemorrhagic fever			2		
Dengue virus	1	1	3		
Zika virus	1	1	2		
Chikungunya	1	1	2		
Yellow fever	1	1	2		

So, what do we learn?

Results from the country assessments provide useful insights in prioritizing laboratory systems that require strengthening



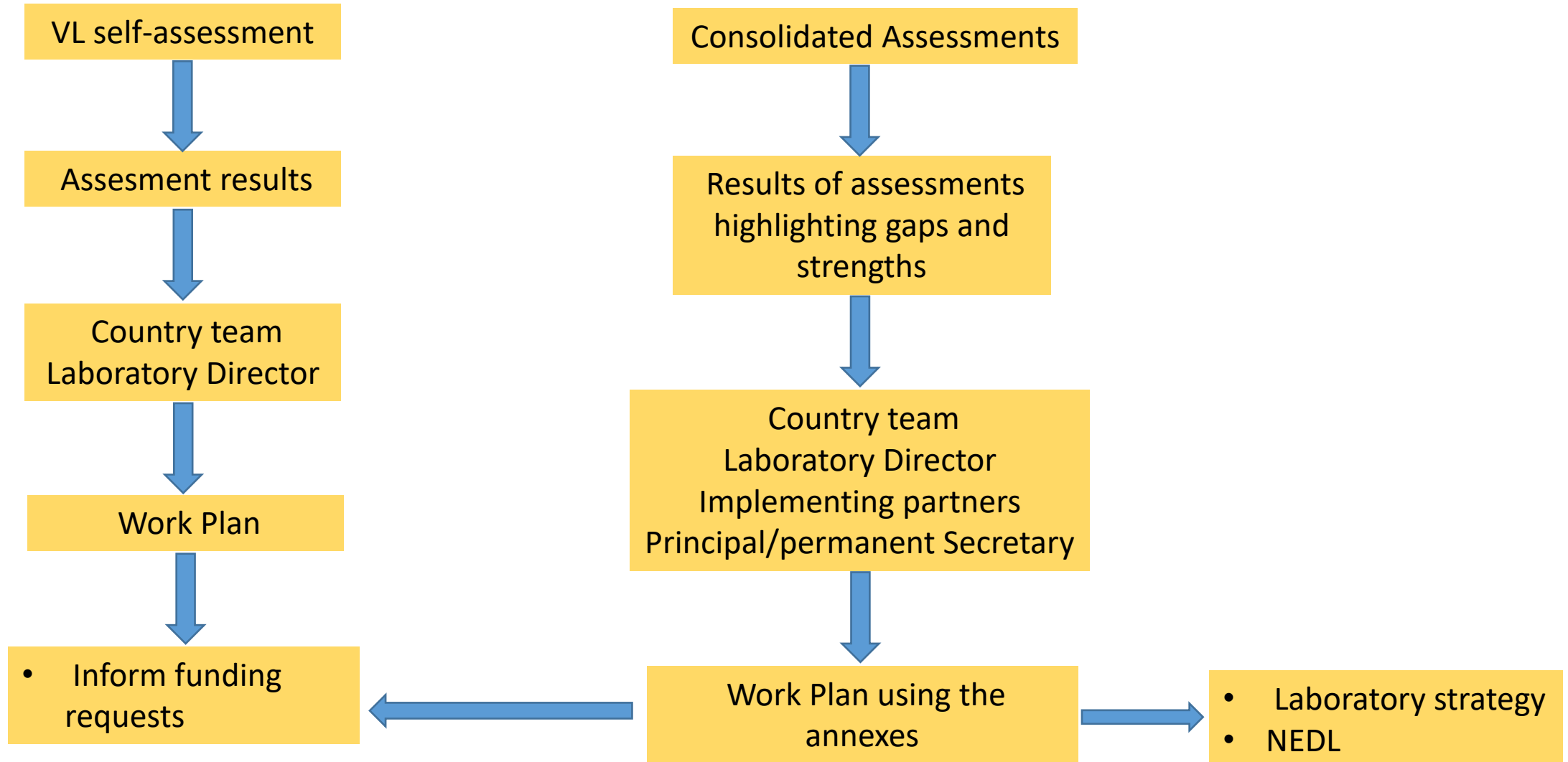
Country assessments and workplan activities informed our major laboratory priorities for inclusion in PEPFAR COP and Global Fund funding requests



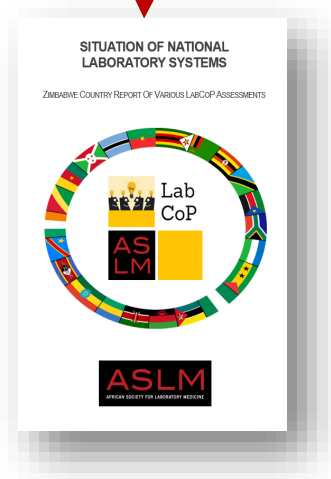
Are these reports reaching all the relevant stakeholders?

■ strongly agree ■ agree ■ no opinion ■ disagree ■ strongly disagree

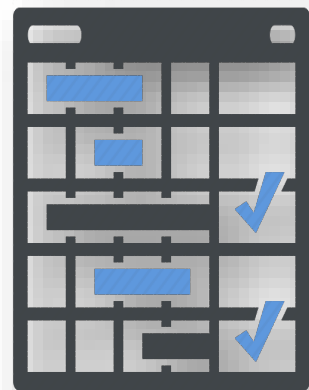
How can we improve the process?



Evidence



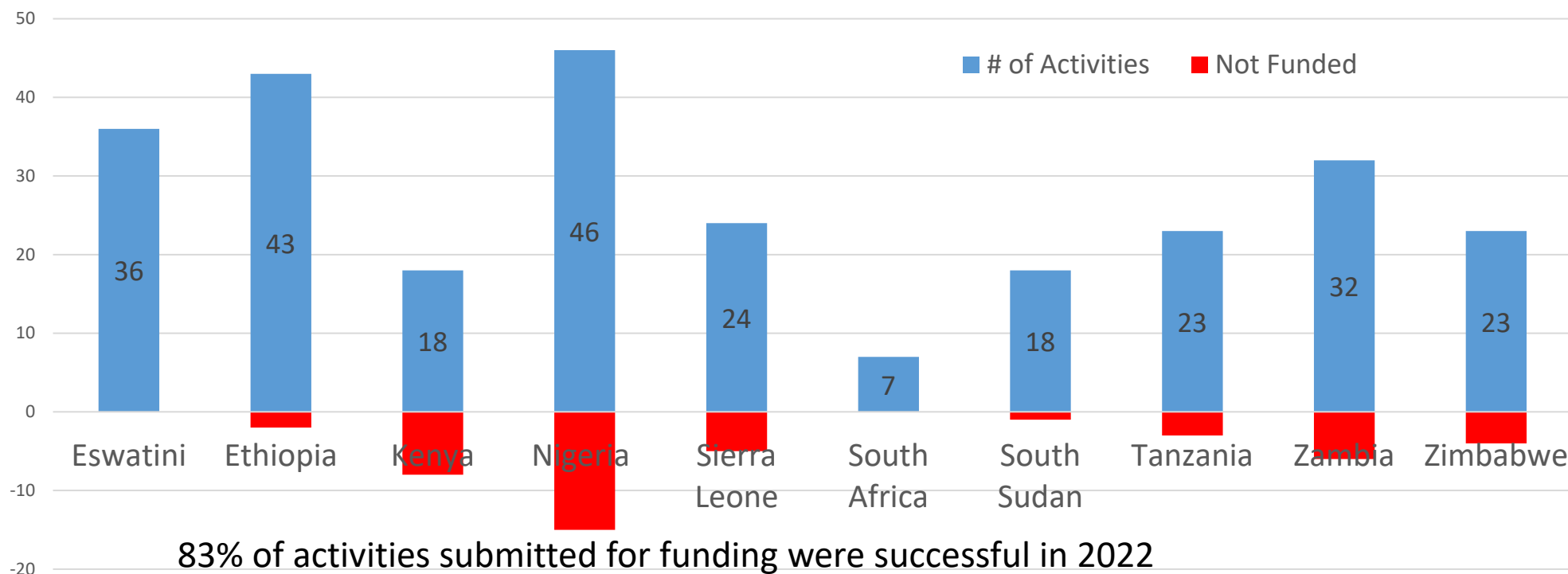
Evidence-based fund request for PEPFAR or GF



Grant



- Improved laboratory systems
- Improved patient and public health outcomes



- LabCoP has established a useful system allowing countries to document progress (or lack thereof) in laboratory system capacity
- There is enhanced collaboration between the laboratory governance and the programs hence improving the lab-clinic interphase
- Increased access to national data facilitates evidenced-based improvement of national testing systems

Thank you LabCoP !!

