

EXPANDING THE AVAILABILITY AND COVERAGE OF EQA PROGRAMMES IN AFRICA.

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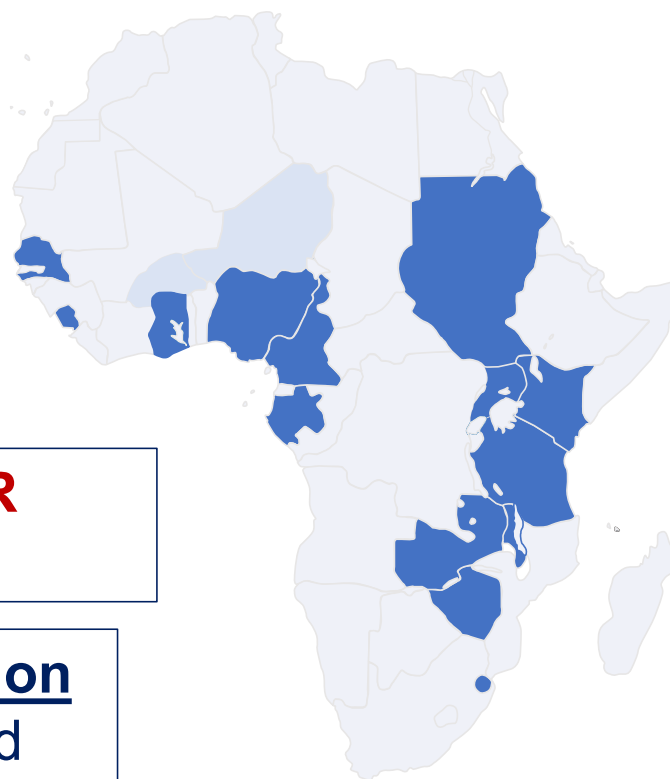


REGIONAL EXTERNAL QUALITY ASSESSMENT GRANT FOR AFRICA



Regional Grants

To support regional One Health approaches to improved surveillance of AMR



1. Ghana
2. Nigeria
3. Ethiopia
4. Senegal
5. Sierra Leone
6. Kenya
7. Uganda
8. Tanzania
9. Malawi
10. Eswatini
11. Zambia
12. Zimbabwe
13. Cameroon
14. Gabon

Strengthening the Quality of AMR Diagnostics

Strengthen coverage and participation in EQA for pathogen identification and anti-microbial susceptibility testing



LANDSCAPE OF EQA COVERAGE, UPTAKE AND PARTICIPATION IN AFRICA



Public Health
England

Protecting and improving the nation's health

Access to EQA provision and challenges to EQA uptake in selected Fleming Fund countries across Africa



Current scope, coverage, uptake and business models of regional EQA programmes under One Health in Africa: outcome of a desk review

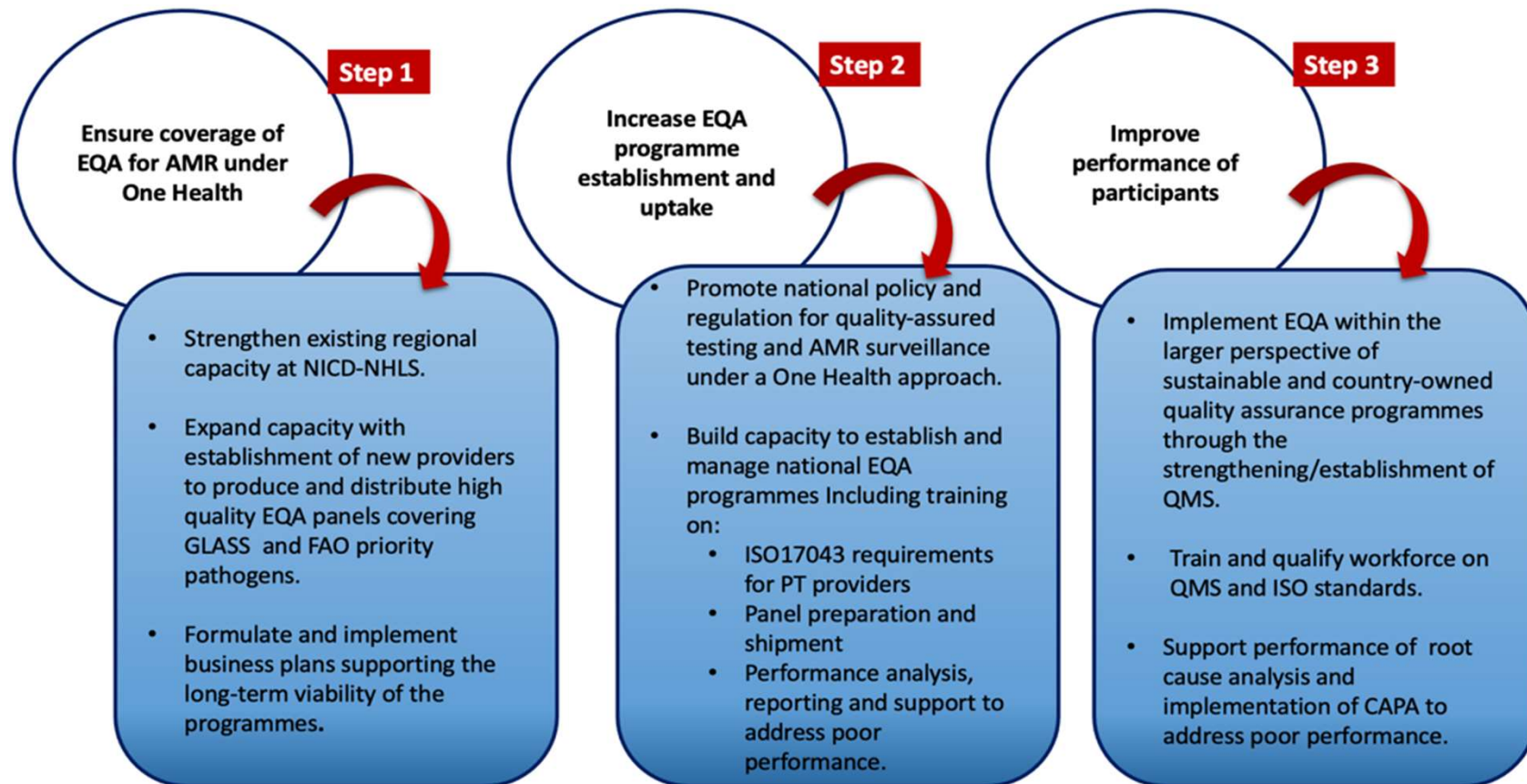
Tjeerd A.M. Datema & Dorien Faber, DATOS



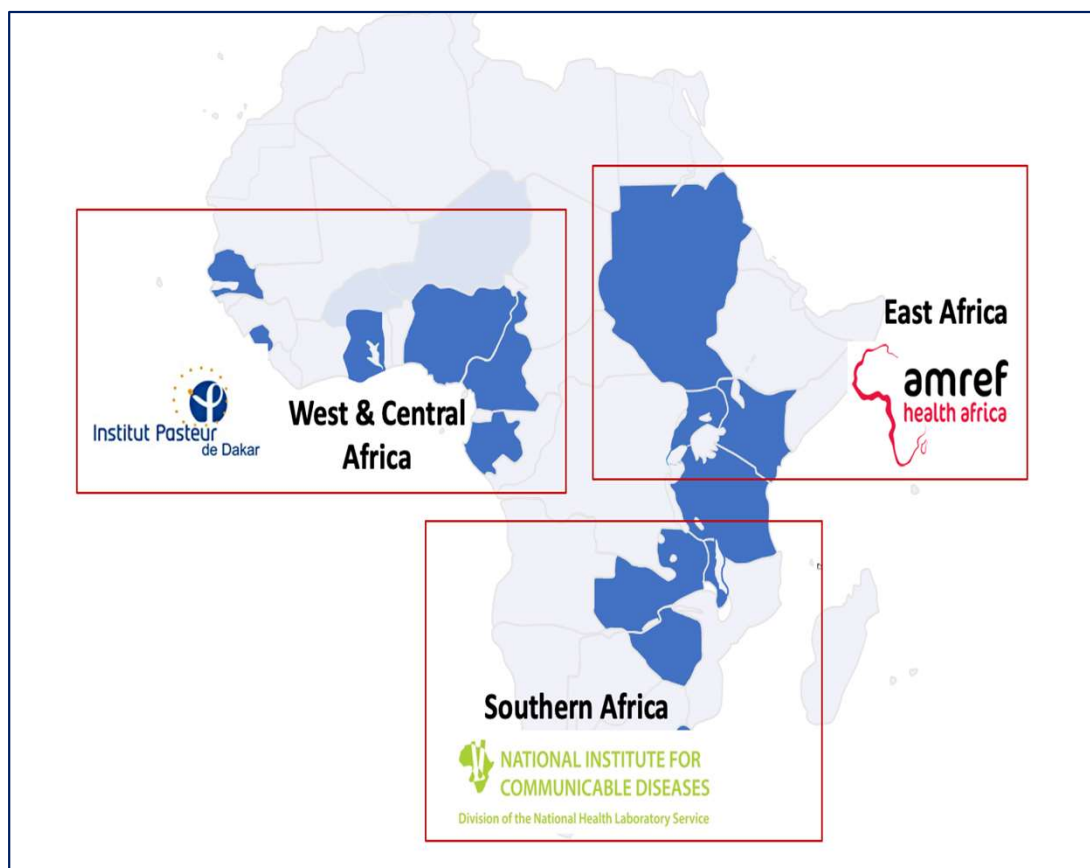
- Availability of EQA programmes from regional providers
- Cost of participation in International programmes
- Poor appreciation of value of EQA.



EQUAFRICA'S 3 STEP STRATEGY



I. ENSURE COVERAGE OF EQA FOR AMR UNDER ONE HEALTH



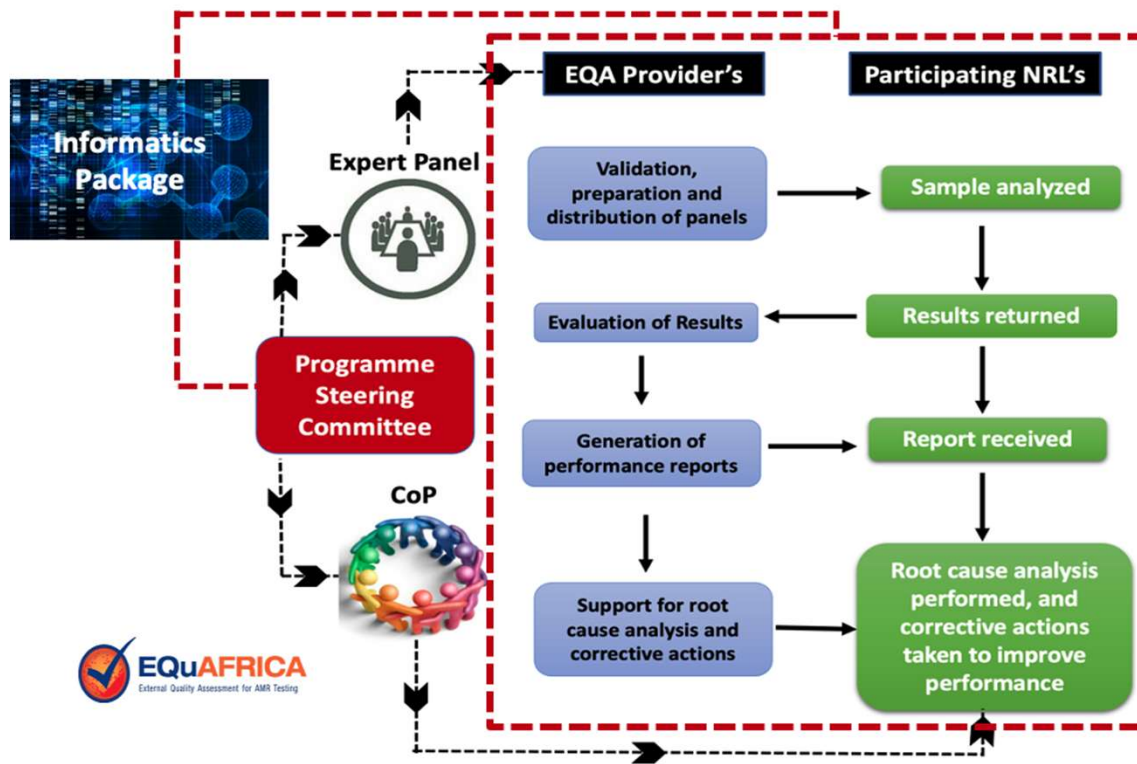
- **133** participating Laboratories across 14 priority countries:
 - *National Reference Laboratories for AMR*
 - *AMR Sentinel Sites*
- **One Health Programme, covers:**
 - *Human Health (103)*
 - *Animal Health. (30)*
- **4** of cycles of programme successfully completed to date



Configuration and Function



Configuration and Function



Establishment

Outcomes of Capacity Building

- Workforce competent to manufacture, distribute and report EQA results
- Required equipment, reagents and supplies in place to establish and operate EQA programme
- QMS systems established and providers progressing towards accreditation to ISO15189 and ISO17043
- Inter-operable informatics package(s) in place for management of EQA programme
- Cost-neutral business plan/benefit generating business plans developed and implemented for each provider



**A FREE
OPENSOURCE
CUSTOMIZABLE
SUPPORTED or
SELF-HOSTED
INFORMATICS
SYSTEM**



ASLM AMR Community of Practice



- Growing community of >300 registered laboratory professionals across Africa
- Bi-weekly ECHO sessions regularly attended by >100 participants per session
- 2 Active Whatsapp platforms with >400 participants
- Knowledge hub in development



The Business Plan



BUSINESS PLAN

Published: Date

Introduction
Business Plan for ED LIVE for the year of 202

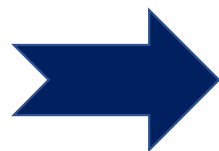
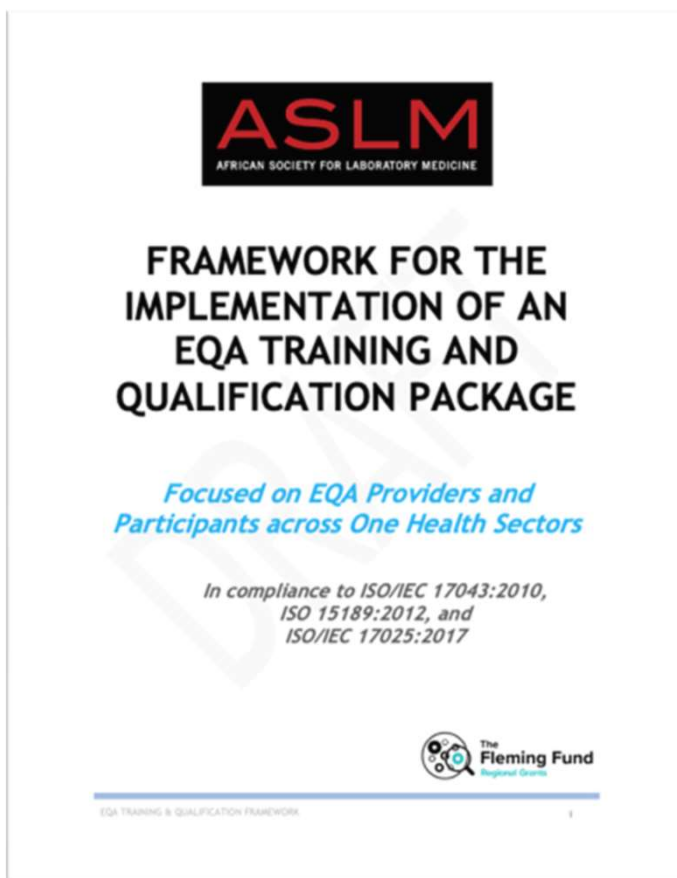
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**Moving EQuAFRICA
beyond a project to a
sustainable regional
programme:**

- ✓ Product development
- ✓ Marketing
- ✓ Funding



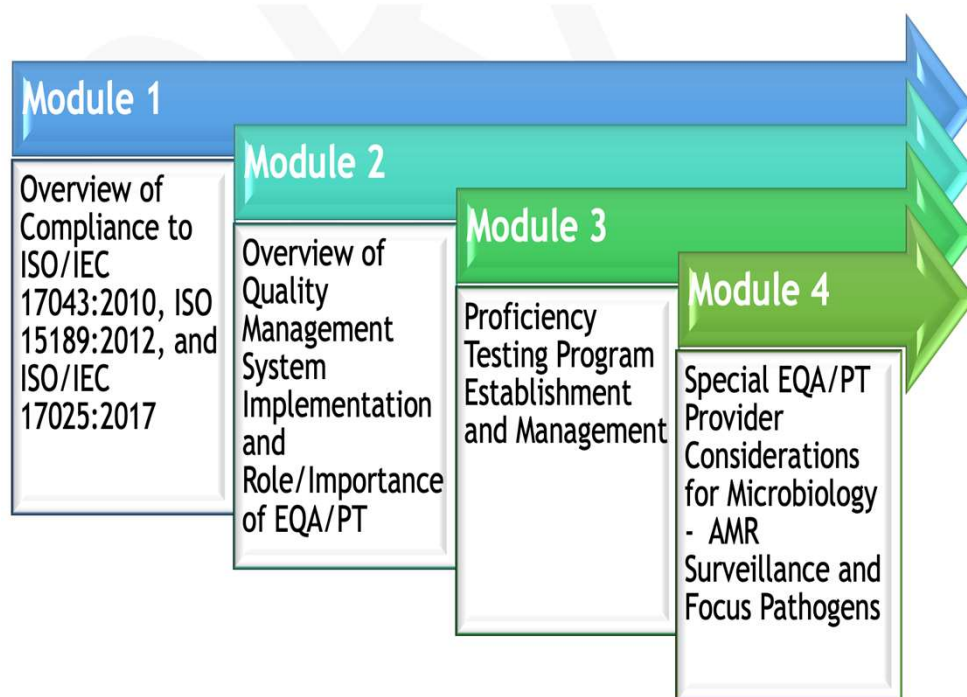
STEP 2: INCREASE EQA PROGRAMME ESTABLISHMENT AND UPTAKE



- **Strengthen capacity of EQA providers and participants across key elements through targeted training and competence assessment within a qualification curriculum program:**
 - Establishment, operation and management of EQA programs including:
 - ✓ ISO/IEC 17043:2010 requirements for EQA providers
 - ✓ panel manufacturing
 - ✓ shipping panels with adherence to International Air Transport Association certification
 - ✓ results evaluation and reporting
 - ✓ provision of support to participants, and
 - ✓ use the programme informatics system



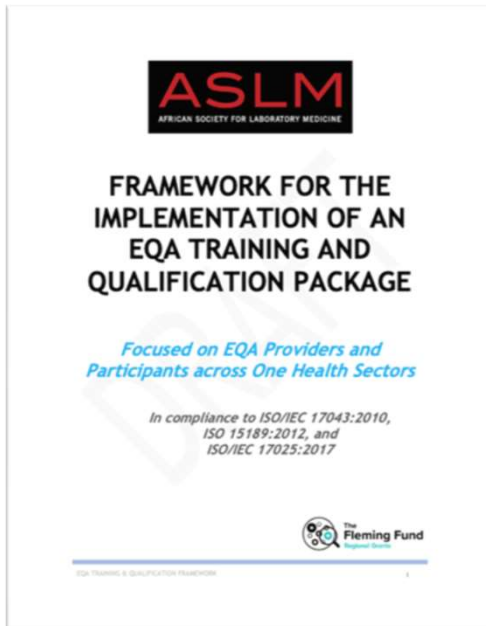
EQA Training and Qualification Framework and Qualification Exam



- Finalize and launch framework
- Administer first set of qualification exams:
 - ✓ 115 participants
 - ✓ 3 EQA Providers
- Separate exams for providers and participants
 - ✓ Generic and discipline specific modules
 - ✓ Renewable Qualification



EQA Package



BUSINESS PLAN

Published: Date



Business Plan for |

Select Language / Choisir la langue **English**

EQA Program Cost Calculator

Year:

Select Program: Program:

Subscriptions: Total Subscriptions:

EQA Program	Consumables	Evaluation Fees	Support and Training	Shipping Fees	Administration	Marketing	
AMREQA	\$ 458.44	\$ 80.00	\$ -	\$ 30.00	NA	NA	
ALL	\$ 0.31	\$ -	\$ 48.00	NA	\$ 4.00	\$ 187.20	

Total Direct Costs to Program: \$ 793.36

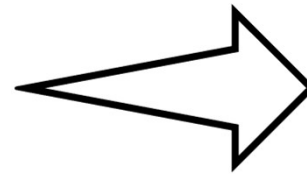
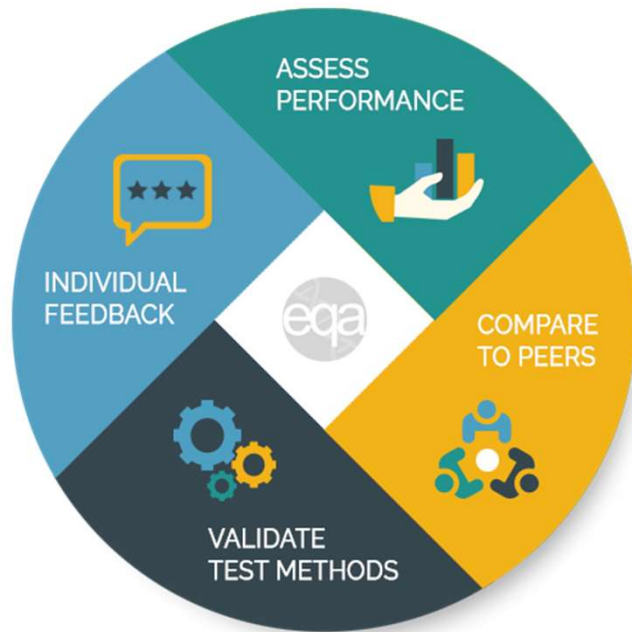
Total Indirect Costs to Program: \$ 208.51

Total Cost for Single EQA Subscription for 1 Year

1001.87



3. IMPROVE PERFORMANCE OF PARTICIPANTS



For EQA to be effective, participation MUST be within a QMS



3. IMPROVE PERFORMANCE OF PARTICIPANTS



Implement EQA within the larger perspective of country owned and sustainable quality assurance programmes through the implementation of Quality Management systems



Strengthening/establishment of QMS in AMR National Reference Laboratories and sentinel sites.



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14. **Gabon**



Quality Management Systems



CHARACTERISTICS OF EQUAFRICA LABORTORIES/SITES

General	Number	
Countries	13	
Laboratory/sites	65	

STATUS OF LABORATORIES/SITES	Number	% of Labs/sites
NRLs	50	77%
Sentinel sites	15	23%

TYPE OF LABORATORIES/SITES	Number	%
HH labs	46	71%
AH labs	15	23%
EH labs	1	2%
FS labs	3	5%



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Quality Management Systems



ACCREDITATION: ENTIRE SCOPE/BACTERIOLOGY

14 Labs earmarked in 7 countries (3 HH, 8 non-HH, 3 EQA providers)

- **4** Labs already received recommendation for accreditation (1 HH, 3 non-HH)
- **7** Labs in 5 countries to be assessed before close of year

SLIPTA

15 labs currently under assessment in 6 countries

- 80% of assessed facilities have shown measured improvement in QMS



Quality Management Systems (LQMS): Building National Quality Infrastructure



CHALLENGES AT COUNTRY LEVEL

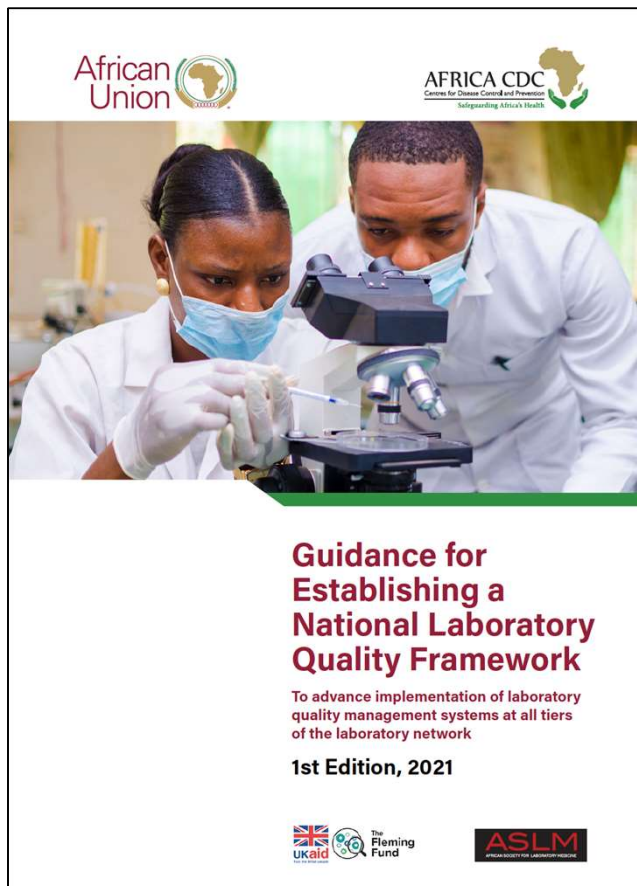


Lack of national systems for implementation of Laboratory Quality Management System (LQMS) at all levels of the laboratory network:

- No mandate or support for LQMS implementation and EQA participation
- No Quality Infrastructure to support/guide QMS implementation
- No established standards for laboratory quality



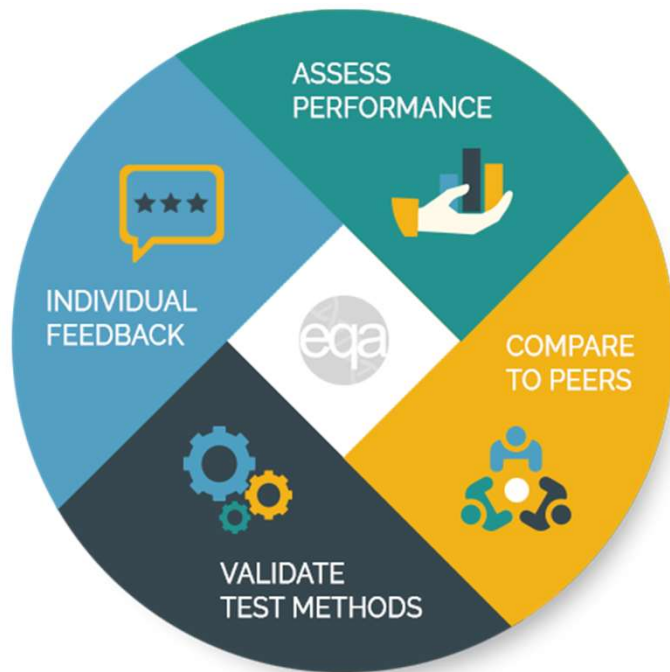
Quality Management Systems (LQMS): Building National Quality Infrastructure



- ❑ Guide and facilitate country-level efforts of strengthening national laboratory systems and networks.
- ❑ Use by policy makers and health service regulators in the establishment and amendment of national policies aimed at facilitating the implementation of laboratory quality management systems.
- ❑ Serve as a practical guide during the development or updating of the national laboratory quality policies and strategic plans.



REGIONAL EQA PROGRAMME FOR AMR



1. Review and analyse Phase I of programme:

- ✓ What worked, what needs improvement
- ✓ Further capacity building needs
- ✓ Analysis phase I results across 4 cycles
 - Relate to QMS and TA interventions to assess performance

2. Continued provision of EQA programme for AMR:

- ✓ Increase coverage in priority countries
- ✓ Expand coverage to non FF countries

3. EQuAFRICA Phase II – Jan 2023 – Dec 2025





Public Health
England



NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES
Division of the National Health Laboratory Service



Technical
University of
Denmark



THANK YOU

