

NIGERIA



The Department of Health and Social Care (DHSC)'s Fleming Fund is a UK aid programme that supports up to 25 countries across Africa and Asia to tackle antimicrobial resistance (AMR), a leading public health threat, globally. The Fleming Fund invests in strengthening surveillance systems through a portfolio of Country Grants, Regional Grants, and Fellowships managed by Mott MacDonald and Global Projects managed by DHSC partners.

Country Context

In November 2016, the national AMR coordinating committee was officially established under the Nigerian Centre for Disease Control (NCDC), tasked with assessing the national AMR situation in Nigeria.

The first AMR National Action Plan (NAP) was developed in line with the Global Action Plan on AMR, guided by the priority gaps identified in the national response to AMR.



The NAP 1.0 (2017-2022) was endorsed and signed by the Ministers of Health, Environment and Agriculture and Rural Development. Several focus areas aligned with the objectives of Fleming Fund, including 'Building a One Health AMR surveillance system'. Implementation of NAP 1.0 was supported by the Fleming Fund from 2019.

The development of NAP 2.0 (2023-2028) is informed by the achievements and challenges of implementing NAP 1.0. The Nigeria Country Grant in phase 2 aims to build on and maximise the impact of investments made to date. This involves consolidating surveillance toward an integrated One Health system to produce data-driven decisions and policymaking. This will continue to decentralise the AMR response and planning to provincial levels as per federal policy.

Phase 2 Country Grant – Expected Results



Development and approval of National human health (HH), animal health (AH), and aquaculture antimicrobial use (AMU) surveillance strategies.



Development and approval of national antimicrobial consumption (AMC) surveillance strategies and protocols.



Production of an annual antibiogram for HH and AH.



Development and approval of national HH and AH antimicrobial stewardship strategies and guidelines.



The development of NAP 2.0 (2023-2028) was informed by the achievements and challenges of implementing NAP 1.0.



Sharing of surveillance data with local and international stakeholders — the Global Antimicrobial Surveillance and Use System and World Organisation for Animal Health.

Phase 2



Country Grant

Grantee: Management Sciences for Health
Sub-grantees: Food and Agriculture Organisation
Value: £5,199,982
Duration: Apr 2024 - Dec 2025

Fellowships

No. of Fellows: 10
Host Institute: University of Liverpool
Total value: £1,309,012 (across multiple countries, including Nigeria)
Total duration: Feb 2024 - Dec 2025

Regional Grants

(Across multiple countries, including Nigeria)

African Society of Laboratory Medicine
Mapping Antimicrobial Resistance and Antimicrobial Use Partnership (MAAP)
Value: £2,997,523
Duration: Dec 2023 - Dec 2025

African Society of Laboratory Medicine
External Quality Assessment of Laboratory Data Asia (EQuAsia)
Value: £2,458,558
Duration: Oct 2023 - Dec 2025

African Society of Laboratory Medicine
Qualifying the Workforce for AMR Surveillance in Africa and Asia (QWArS)
Value: £2,200,050
Duration: May 2023 - Dec 2025

International Vaccine Institute
Regional Antimicrobial Resistance Data Analysis for Advocacy, Response and Policy (RADAAR)
Value: £1,999,956
Duration: Dec 2023 - Dec 2025

Technical University of Denmark
Whole Genome Sequencing and Bioinformatics Capacity Building in Africa (SeqAfrica)
Value: £3,595,802
Duration: Oct 2023 - Dec 2025

Liverpool School of Tropical Medicine
Gender, Equity and Antimicrobial Resistance Mainstreaming (GEAR up)
Value: £2,199,925
Duration: Feb 2024 - Dec 2025

Fondation Merieux
Technical Assistance for Clinical Engagement Africa (TACE Africa)
Value: £1,822,408
Duration: Feb 2024 - Dec 2025

African Society for Laboratory Medicine
Technical Assistance for Data and Evidence Use Africa (TADEU Africa)
Value: £1,800,005
Duration: Feb 2024 - Dec 2025

International Livestock Research Institute
Antimicrobial Resistance and One Health West Africa (AMROH WA)
Value: £1,150,000
Duration: Feb 2024 - Dec 2025

Strategic Alignment Grants

(Across multiple countries, including Nigeria)

Brigham and Women's Hospital
WHONET: Management and Analysis of Microbiology Laboratory Data
Value: £453,328
Duration: Mar 2024 - Dec 2025

Foundation for Innovative New Diagnostics
FIND: Enhance Laboratory Capabilities, Data Visualisation, and Digital Health Platforms
Value: £1,769,837
Duration: Mar 2024 - Dec 2025

Commonwealth Pharmacists Association
Surveillance and Prescribing support for Antimicrobial Stewardship Resource Capacity Building (SPARC)
Value: £806,742
Duration: Mar 2024 - Dec 2025

Phase 1



Country Grants

Grantee: DAI Global

Sub-grantees: Livestock Management Services, Institute of Human Virology in Nigeria, Ausvet Pty Ltd, Health Security Partners, Liverpool School of Tropical Medicine, International Foundation Against Infectious Diseases in Nigeria

Value: £8,445,684

Duration: May 2019 - Jun 2022

Fellowships

Number of Fellows: 13

Host Institution: UK Health Security Agency, Technical University of Denmark

Total value: £1,000,000 (across multiple countries, including Nigeria)

Total duration: May 2019 - Feb 2023

Regional Grants

(Across multiple countries, including Nigeria)

African Society for Laboratory Medicine

Mapping Antimicrobial Resistance and Antimicrobial Use Partnership (MAAP)

Value: £7,054,881

Duration: Nov 2018 - Nov 2023

African Society for Laboratory Medicine

External Quality Assessment of Laboratory Data Africa (EQuAfrica)

Value: £4,364,227

Duration: Oct 2019 - Sep 2023

African Society for Laboratory Medicine

Qualifying the Workforce for AMR Surveillance in Africa and Asia (QWArS)

Value: £3,924,546

Duration: Oct 2019 - Apr 2023

Technical University of Denmark

Whole Genome Sequencing and Bioinformatics Capacity Building in Africa (SeqAfrica)

Value: £6,743,701

Duration: May 2019 - Sep 2023

International Vaccine Institute

Regional Antimicrobial Resistance Data Analysis for Advocacy, Response and Policy (RADAAR)

Value: £2,715,217

Duration: Sep 2019 - Nov 2023

Strategic Alignment Grants

(Across multiple countries, including Nigeria)

Brigham and Women's Hospital

WHONET: Management and Analysis of Microbiology Laboratory Data

Value: £889,044

Duration: Apr 2022 - Feb 2024

Commonwealth Pharmacists Association (CPA)

Surveillance and Prescribing support for Antimicrobial Stewardship Resource Capacity Building (SPARC)

Value: £1,152,946

Duration: Dec 2021 - Feb 2024



Phase 1 – Key Achievements



18

Supported renovations of 18 laboratories in Nigeria: 11 HH (two National Reference Laboratories (NRLs) and nine surveillance sites), seven AH (one NRL and six surveillance sites).



Supported the adaptation and establishment of the national One Health AMR Information Management System as an integrated system for analysing and managing AMR/AMU data across sectors.

15

Increased the number of laboratories enrolled in the External Quality Assurance (EQA) programme from four to 15 across three cycles.



Development of situational analysis document on determinants and status of AMR/U, with a costed strategic plan for operationalising AMR/U surveillance in both aquaculture and environmental sectors.



EQA programmes for the NRLs and surveillance sites evaluated the laboratories' capacity for AMR bacterial identification.

52

52 pharmacies provided AMU data and amount of antimicrobials consumed in public health facilities during the review period (2016-2018). This supported spatio-temporal analysis for combined AMR and AMU data sets contributing to the resistance map and index.



At NRLs, EQA programme strengthened pathogen identification and Antimicrobial Susceptibility Testing (AST) for AMR data samples, supporting laboratory Quality Management Systems for accreditation, and standardising laboratory operations guidelines.

759

759 laboratory staff trained and 134 mentored in multiple technical areas, including laboratory management, data quality assurance, Point Prevalence Surveys, AST, biosafety and biosecurity, and equipment for AH and HH laboratories.



The MAAP regional grant supported the collection of 85,127 total culture results from 25 supported facilities.



Provided technical support, guidance, and leadership in developing, reviewing, and finalising the National AMR Surveillance Strategy for Nigeria's poultry sector.



Supported deployment of a data capture tool to surveillance sites, with over fifty data elements.



Supported production of two policy documents based on a bottleneck analysis, and regional data sharing networks, and delivered virtual training sessions.



The
Fleming Fund

