



## VIETNAM



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

The second Vietnam AMR National Action Plan (NAP) and the National Strategy on Prevention and Control of Antimicrobial Resistance were approved in 2023. The current government's funding support for AMR covers laboratory, medical treatment, and hospital costs via the Ministry of Health (MoH) budget. The Ministry of Agriculture and Rural Development (MARD) also approved a 'National Action Plan on AMR Control in Agriculture 2020-2025' in 2021, specifically regarding antimicrobial use in livestock and aquaculture.

The Vietnam Country Grant in phase 2 aims to build on and maximise the impact of investments made to date. This involves supporting multi-stakeholders by 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



Support the development of sector-specific action plans on AMR surveillance, including human health (HH), animal health (AH), aquaculture, and the environment.



Support an additional AH satellite laboratory for AMR tests in aquaculture, focusing on sample collection.



Continue active AMR surveillance in pigs and chickens through Vietnam's provincial AH networks and initiate surveillance of AMR in the environment.



Support the National Reference Laboratories (NRLs) and all surveillance site progression by organising training and providing equipment and technical expertise.



Support the development of anti-microbial consumption (AMC) surveillance strategy and protocols to guide the AMC data collection on AH drug importation and production.



Support the establishment of a sample specimen transport workflow and system for referring and testing bacterial isolates/genomic DNA for whole genome sequencing analysis.



Strengthen antimicrobial stewardship programmes in selected sites to apply AMR/U surveillance data to improve the rational use of antimicrobials in healthcare facilities.

## Phase 2



### Country Grant

**Grantee:** FHI 360  
**Sub-grantees:** National Institute of Hygiene and Epidemiology, Oxford University Clinical Research Unit, and PATH  
**Value:** £3,400,000  
**Duration:** May 2024 - Dec 2025

### Regional Grants

(Across multiple countries, including Vietnam)

**International Vaccine Institute**  
Technical Assistance for Clinical Engagement Asia (TACE Asia)  
**Value:** £1,999,956  
**Duration:** Dec 2023 - Dec 2025

**International Vaccine Institute**  
Capturing Data on Antimicrobial Resistance Patterns and Trends in Use in Regions of Asia (CAPTURA)  
**Value:** £3,186,597  
**Duration:** Oct 2023 - Dec 2025

**Technical University of Denmark**  
External Quality Assessment of Laboratory Data Asia (EQuAsia)  
**Value:** £2,497,995  
**Duration:** Nov 2023 - Dec 2025

**University of Melbourne**  
AMR and One Health South East Asia (AMROH SEA)  
**Value:** £1,374,992  
**Duration:** Jan 2024 - Dec 2025

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

**International Vaccine Institute**  
Technical Assistance for Data and Evidence Use Asia (TADEU Asia)  
**Value:** £1,687,091  
**Duration:** Dec 2023 - Dec 2025

### Strategic Alignment Grants

(Across multiple countries, including Vietnam)

**Brigham and Women's Hospital**  
WHONET: Management and Analysis of Microbiology Laboratory Data  
**Value:** £453,328  
**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:** FHI 360  
Sub-grantees: National Institute of Veterinary Research, National Institute of Hygiene and Epidemiology, Oxford University Clinical Research Unit), and PATH  
**Value:** £8,948,515  
**Duration:** May 2019 - Mar 2024

## Fellowships

**Number of Fellows:** One Fellow, five Fellows recruited  
**Host Institution:** Erasmus University Medical Centre  
**Value:** £480,000 (across multiple countries, including Vietnam)  
**Total duration:** May 2019 - Oct 2022



## Regional Grants

(Across multiple countries, including Vietnam)

### International Vaccine Institute

Capturing Data on Antimicrobial Resistance Patterns and Trends in Use in Regions of Asia (CAPTURA)  
**Value:** £2,043,671  
**Duration:** Jan 2019 – Sep 2023

### Technical University of Denmark

External Quality Assessment of Laboratory Data Asia (EQuAsia)  
**Value:** £3,609,958  
**Duration:** Jan 2020 - Oct 2023

### International Vaccine Institute

Regional Antimicrobial Resistance Data Analysis for Advocacy, Response and Policy (RADAAR)  
**Value:** £2,598,397  
**Duration:** Sep 2019 - Nov 2023

## Strategic Alignment Grants

(Across multiple countries, including Vietnam)

### Brigham and Women's Hospital

WHONET: Management and Analysis of Microbiology Laboratory Data  
**Value:** £887,722  
**Duration:** Apr 2022 - Feb 2024

### Commonwealth Pharmacists Association

Surveillance and Prescribing support for Antimicrobial Stewardship Resource Capacity Building (SPARC)  
**Value:** £1,077,569  
**Duration:** Dec 2021 - Feb 2024



# Phase 1 – Key Achievements

## 23

23 laboratories (20 HH, 3 AH) renovated and equipped, including NRLs with new data portals developed and promoted to facilitate data collection and usage.



Supported the Medical Services Administration in developing the National Strategy for Prevention and Control of Antimicrobial Resistance in Vietnam 2023-2030.



All three HH NRLs participated in External Quality Assurance for bacterial identification and Antimicrobial Susceptibility Testing.



Improved laboratory and staff capacities at HH surveillance sites through advanced microbiology training, and IT infrastructure linking clinical and laboratory data. This enabled AMR data sharing with the MoH and the first submission to the Global Antimicrobial Resistance and Use Surveillance System in 2021.



A Point Prevalence Survey was conducted, highlighting the antimicrobial usage patterns at hospitals.



AH laboratory capacity enhancements, conducting three rounds of national AMR surveillance of poultry and pigs and sharing data with the Department of Animal Health.



Established national Cross-Sectoral Steering Committee and Technical Working Groups to strengthen AMR governance.



National quality assurance of surveillance site laboratories in AH conducted by the National Veterinary Research Institute.



One Health Partnership institutionalised (2021-2025), enhancing the sharing of AMR knowledge between research institutions and government.



Facilitated training at all supported laboratories on laboratory testing and Quality Management System accreditation.



All supported laboratories shared hospital AMR surveillance reports to the national AMR portal. Fellowship Scheme helped develop the published Vietnam National AMR Surveillance Report and the AMC Portal Manual.

## 13

13 laboratories were assessed for AMR network expansion, and data was submitted to MoH for use and reference.

## 4

Four sites enrolled in EQASIA programme and capacity-building training activities.



Regional analyses focusing on planning, policy, and advocacy to improve AMR surveillance data sharing to identify data sharing bottlenecks.



The Fleming Fund

