



The  
**Fleming  
Fund**

# Tackling Antimicrobial Resistance for Global Good



Department  
of Health &  
Social Care



**UKaid**  
from the British people

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# About Us



## Who we are

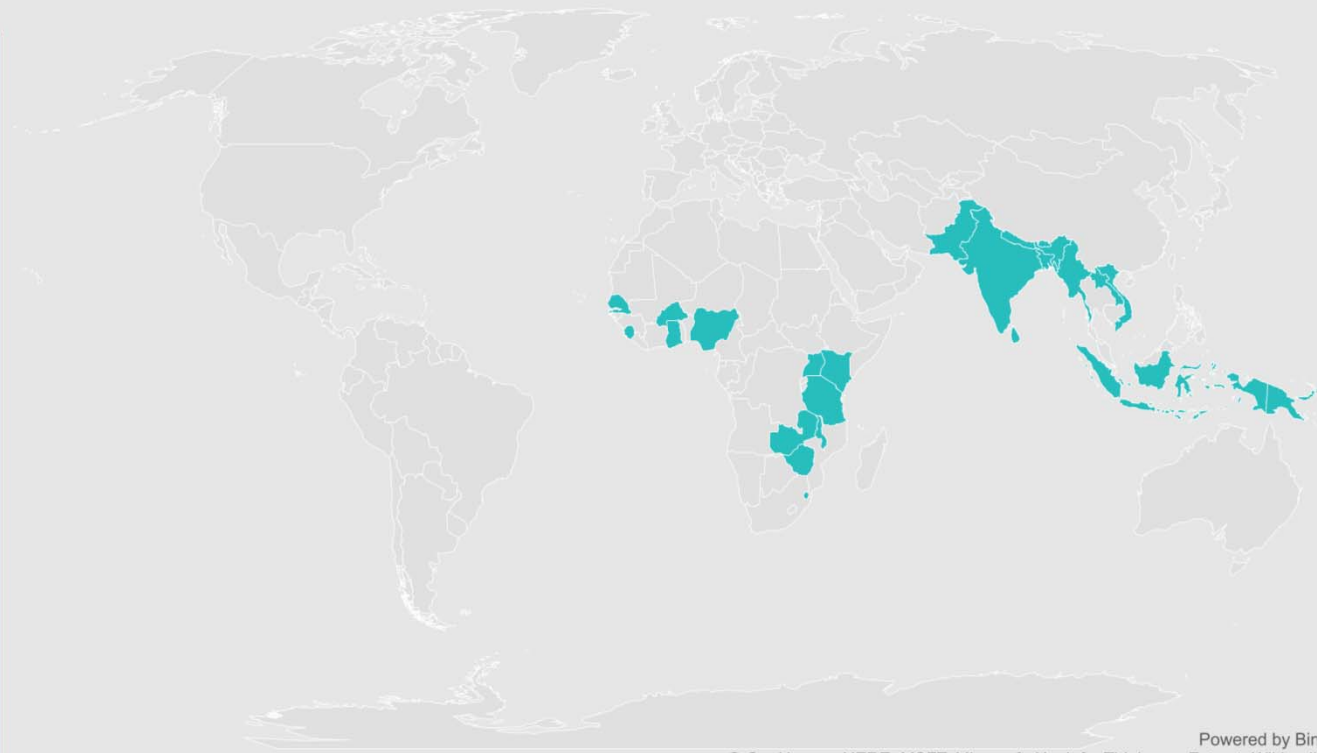
The Fleming Fund is a UK aid programme supporting low and middle income countries to generate, share and use antimicrobial resistance (AMR) and AMU data to reduce drug resistance.

The programme was established in response to the [2016 O'Neill Report](#), which called for funding to improve public AMR awareness, drug use and public health surveillance. It supports public health surveillance which will help improve patient health, inform national health policies and warn of emerging threats.

The programme is managed by UK Department of Health and Social Care and works in 24 countries across Africa and Asia.

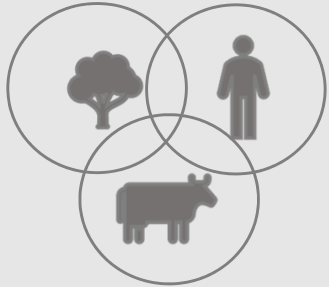
## 10 Point Plan

The 2016 report, published by the AMR Review, chaired by Jim O'Neill described 10 key steps needed to address AMR including drug development, reduction of antibiotics in animals, surveillance and improved diagnostics.



# Programme Principles

## One Health



Because bacteria spreads freely around the environment, we promote a multi-sectoral response, that includes human health, animal health and environmental health.

## Alignment



We ensure our funding aligns with broader global initiatives like the World Health Organization's Global Action Plan on AMR.

## Sustainability



We ensure that projects, activities and systems are as sustainable as possible, this is done in conjunction with our country ownership principle and the bespoke planning of country activities.

## Country Ownership



We work closely with national governments to ensure that country plans and aspirations, as laid out in their National Action Plans, are implemented and that all programme activities contribute to national health system strengthening.



# **Our Programmes and contribution to AMU reporting**

## STRENGTHENING NATIONAL SURVEILLANCE SYSTEMS

Laboratory and surveillance strengthening and technical capacity development



MOTT MACDONALD up to £233 million

Fellowship Schemes

Global Grants

Country Grants

Regional Grants

Itad | £2.8 million

International Reference Centre for AMR in Animal Health and Agriculture | £1 million

OUCRU | £2 million

## DEVELOPING GLOBAL FRAMEWORKS

Global guidance and action plans



World Health Organization | £9.9 million

Food & Agriculture Organization | £8.5 million

World Organisation for Animal Health | £5 million

## IMPROVING AWARENESS AND DATA USE

Drug Quality, Civil Society Participation & Data Use



Commonwealth Partnerships for Antimicrobial Stewardship | £1.3 million

World Health Organization | £4 million

FIND | £1 million

ODI Fellowships | £1.5 million

South Centre | £1 million

GRAM | £6.2 million

# Country Grants

The aim of the country grant programme is to establish national surveillance systems to improve country-level AMR and AMU data collection and analysis.

Grants allocated between 12-24 months.

Funding envelopes differ per country based upon the needs and assessed priorities.



West Africa	East & Southern Africa	South Asia	South East Asia
Senegal, Sierra Leone, Burkina Faso, Ghana, Nigeria	Uganda, Kenya, Tanzania, Malawi, Zambia, Zimbabwe, Eswatini	Pakistan, Nepal, India, Bangladesh, Bhutan, Sri Lanka	Laos, Vietnam, Indonesia, Timor-Leste, Papua New Guinea, Myanmar

**ELIGIBLE FUNDING ITEMS**

- Laboratory Infrastructure Enhancement
- Human Resource Strengthening
- Surveillance System Strengthening
- Building Foundations for Surveillance Data Use
- Rational use of Antimicrobial Medicines

Testing samples from laboratory in Nepal show resistant and non-resistant bacteria



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## Current situation on AMU/C in ESA countries



- Regulation for use and trade of Veterinary medicinal products is undertaken by different entities of government
- Use of drugs is regulated by law, but enforcement and monitoring are inadequate
- Veterinary medicinal product import and export data currently being submitted to OIE
- Some countries have developed guidelines for the prudent use of antimicrobials in the livestock sector
- Most countries need to strengthen their national surveillance strategy for AMC or AMU in animals



## Country Grants – Contribution to AMU reporting



- Assessment of current AMC/AMU surveillance system and developing strategies/ protocols
- AMC surveillance conducted at national level
- Pilot study on AMU in poultry conducted (stepwise approach)
- Data management systems developed (hardware and software)
- Training on data management, analysis and interpretation
- AMU, AMC (and AMR) surveillance data reports submitted nationally and internationally including to OIE
- Data is used to make informed decisions such as policies, practice and awareness
- A plan is in place for continuing AMC/AMU surveillance

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## Country Grants – AMU reporting Examples from Nepal



Up to now:

- Conducted assessment of AMU reporting to OIE in partnership with Veterinary Standards and Drug Regulatory Laboratory (VSDRL), and participation of OIE Delegate to Nepal, high-level government officials and private entrepreneurs.
- Technical assistance for OIE AMU data reporting.

Upcoming:

- AMU Surveillance Plan in Animals/ Humans
- Development of tools for AMU Survey in Animals/Humans
- Mapping distribution pathways of antibiotics in Animals/Humans
- Conduct AMU survey at one surveillance site for Animals/Humans

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# Country Grants – AMU reporting

## Examples from Uganda



Up to now:

- Conducted a baseline survey to understand why farmers use antibiotics, which ones are the most frequently used and the relative expenditure of antibiotics (compared to other drugs).
- AMU surveillance plans designed and approved by government stakeholders.
- Indicator and reporting framework developed for AMU/C surveillance, in collaboration with national stakeholders and data providers.

Upcoming:

- Develop AMU/C surveillance protocol in poultry
- AMU surveillance piloted in poultry.
- Data management system in place
- Improved quality of the data reported to OIE
- AMU and AMC surveillance data analysed and interpreted in the light of findings from AMR surveillance
- AMU results are presented to policy makers to inform decisions

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# Professional Fellowships

The fellowship scheme aims to support the professional development of key practitioners and technical experts. Fellowships will run between 6-24 months and focus on capacity development and building national expertise.

## PROFESSIONAL FELLOWSHIPS

Scientists, researchers and clinicians are paired with world class academic and research institutions for 18-24 months of training and mentoring in AMR and AMU. Professional fellows conduct collaborative projects and contribute to an evidence to encourage AMR policy changes.

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Fellowship Scheme



*Newly selected fellows attend a kick-off workshop in Vietnam with the British Ambassador present*

## Professional AMU/C Fellowships – Contribution to AMU reporting



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Fellowship Scheme

- Training and mentoring fellows to support AMU/AMC surveillance programmes in their countries of origin
- Designing and implementation of AMU/AMC data collection
- Analysis and interpretation of AMU/C data in the context of data on AMR
- Supporting AMU surveillance and appropriate antibiotic use information sharing
- Contributing to a collaborative project

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## Professional Fellowships – AMU reporting. Example from Uganda



### Up to now:

- Trained in approaches to AMU surveillance
- Designed a collaborative One-Health study of AMR and AMU in humans and animals - ethics approval pending
- Trained in epidemiological database management
- Followed modules on the design and analysis of surveillance studies.

### Upcoming:

- Conducting a collaborative One-Health study of AMR and AMU in humans and animals
- Review on the current AMU surveillance in animal health
- Lecture and tutorial teaching on AMR and AMU in Edinburgh
- Attend scientific conferences relevant to AMR and AMU

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## Professional Fellowships – AMU reporting. Example from Tanzania



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### Up to now:

- Supervised field visit for data collection in selected farms as part of the collaborative project (resistance to 3rd and 4th generation cephalosporin)
- Supervised visit at the Tanzanian drug administration relevant to the collaborative project

### Upcoming:

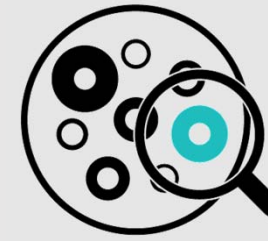
- Implementation of a national data base for AMU/C data for AH
- Develop and pilot AMU/C surveillance protocol in poultry
- Conduct a pilot study on 'Antimicrobial Resistance and Use of 3rd and 4th generation cephalosporins in Human and Animal sector' / section

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# Regional Grants



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Regional Grants

## ROUND 1

The aim of this round is to find and analyse historical AMR data across four regions by working with existing institutions or health facilities. This data will help establish baselines and provide early evidence for policy making.

## ROUND 2

The aim of these grants is to support the investments that are made at the country level through a regional approach. Eight regional grants have been offered across the 4 Fleming regions. Grants focus on building capacity, quality diagnostics, building regional infrastructure and planning, policy and advocacy.

**Grant 1:** External Quality Assurance in Africa

**Grant 2:** External Quality Assurance in Asia

**Grant 3:** Common surveillance protocols

**Grant 4:** Microbiology & Epidemiology Training

**Grant 5:** Planning, Policy & Advocacy

**Grant 6:** Regional Infrastructure Capabilities/Barriers Africa

**Grant 7:** Regional Infrastructure Capabilities/Barriers Asia

**Grant 8:** Regional Infrastructure Capabilities/Whole Genome Sequencing Africa



*Grantees for the Whole Genome Sequencing Grant attend a kick-off workshop in Tanzania*

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Regional Grants

Thank you for your attention !

# GET IN TOUCH



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