



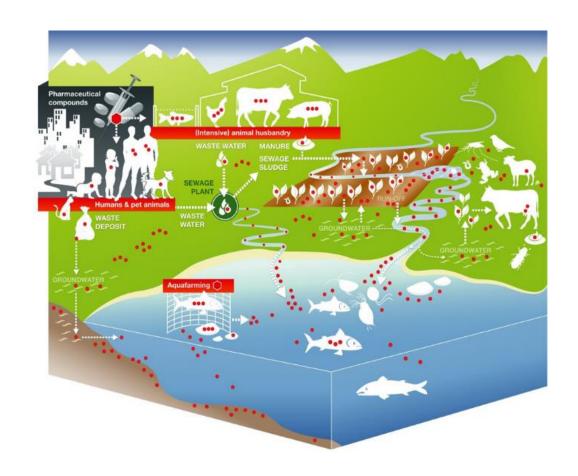
Antimicrobial Resistance in the context of One Health: Role and current initiatives of FAO



Antimicrobial Resistance challenge needs One Health approach

- Emergence of antimicrobial resistance (AMR) can happen in each sector and spread to the others
- There is simply nowhere to hide from the impact of AMR
- Humans
- Animals
- Plants
- Environment





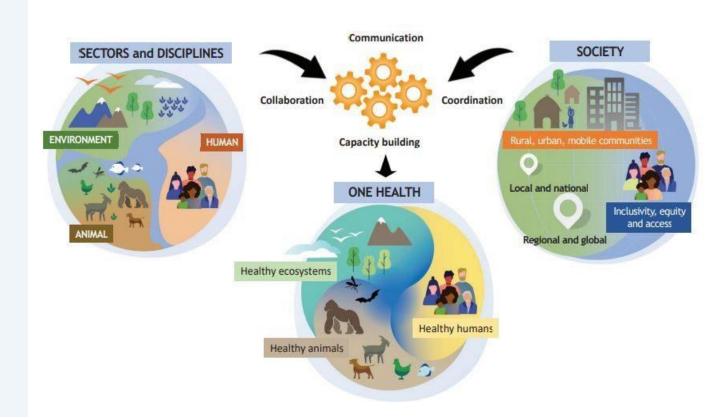
Definition of the One Health approach

"One Health is an integrated, unifying approach that aims to sustainably balance and optimize the health of people, animals and ecosystems.

It recognizes the health of humans, domestic and wild animals, plants, and the wider environment (including ecosystems) are closely linked and inter-dependent.

The approach mobilizes multiple sectors, disciplines and communities at varying levels of society to work together to foster well-being and tackle threats to health and ecosystems, while addressing the collective need for clean water, energy and air, safe and nutritious food, taking action on climate change, and contributing to sustainable development."

One Health High Level Expert Panel (OHHLEP), 2021





The Tripartite formally becoming the Quadripartite











The Global Leaders Group (GLG) on AMR



Co-chairs



H.E. Sheikh Hasina Prime Minister BANGLADESH



H.E. Mia Amor Mottley Prime Minister BARBADOS

Dr Qu Dongyu

Ex Officio Members



Ms Inger Andersen



Members of the Global Leaders Group



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Ms Grace Fu SINGAPORE



Dr Julie Gerberding UNITED STATES



VICE-CHAIR Ms Lena Hallengren



Prof Sir Jeremy Farrar

UNITED KINGDOM

Ms Sussan Ley AUSTRALIA





INDIA

GERMANY

- **Background:** established following IACG recommendations to strengthen global political action and leadership on AMR
- **Members:** Heads of State, serving or former ministers/ senior government officials, representatives of foundations, civil society and the private sector
- **Co-chairs:** Prime Ministers H.E. Sheikh Hasina of Bangladesh and H.E. Mia Amor Mottley of Barbados
- **Meetings:** Quarterly



Dr Monique Eloit Dr Tedros Adhanom Ghebreyesus DG-OIE DG-WHO

Prof Dame Sally Davies

UNITED KINGDOM

RUSSIA



Dr Maggie De Block

Dr Yasuhisa Shiozaki





CANADA



The Strategic Framework for collaboration on AMR

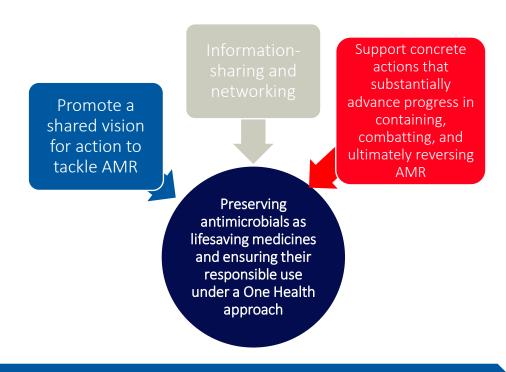


The Strategic Framework was developed through a participatory process led by the Joint Secretariat involving staff engaged in AMR across all levels of the four organizations.

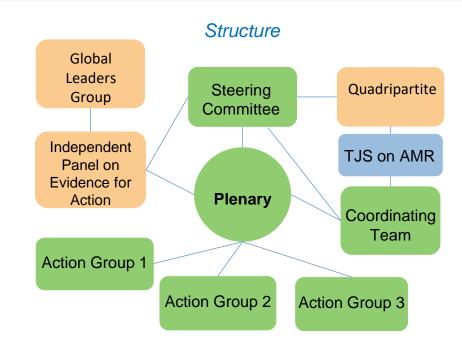
The Strategic Framework:

- Presents the background and context for the collaboration between FAO, OIE, WHO and UNEP on AMR;
- Describes the comparative advantage and catalytic role of the four organizations in the One Health response to AMR in support of efforts by their Members, civil society, the private sector and other stakeholders;
- Presents a theory of change including the goals, objectives, desired impact at country level, intermediate outcomes and related Tripartite and UNEP functions

Quadripartite AMR Multi-stakeholder Partnership Platform



Inclusive, international, and multi-stakeholder platform bringing together relevant stakeholders across the human, animal, plant, and environment interface



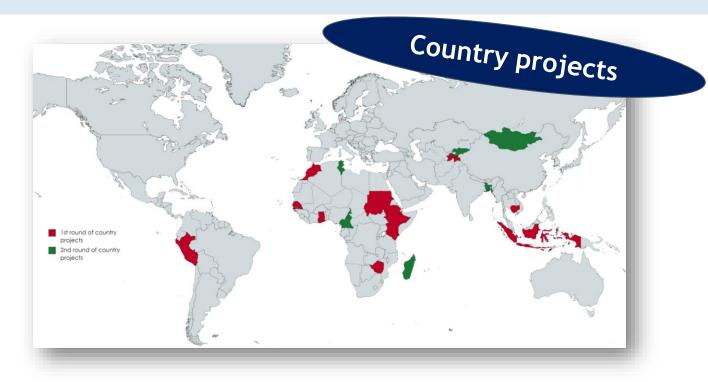
Clusters

- Government representatives, UN entities and Specialized Agencies, international, intergovernmental and regional organizations
- ☐ International and regional financial institutions, and philanthropic donors
- ☐ Civil society organizations and networks
- Academic and research organizations
- Private sector entities

AMR Multi-Partner Trust Fund

4 global projects

TISSA proposal	Global web-based repository on AMR & AMU data across humans, animals, food and agriculture sectors
Monitoring & Evaluation	Global-level monitoring and aggregation of indicator data at sectoral level
Legal frameworks	Development of a Tripartite One Health assessment tool for AMR-relevant legislation
Environment	Strategic global-level governance advocacy initiatives on AMR

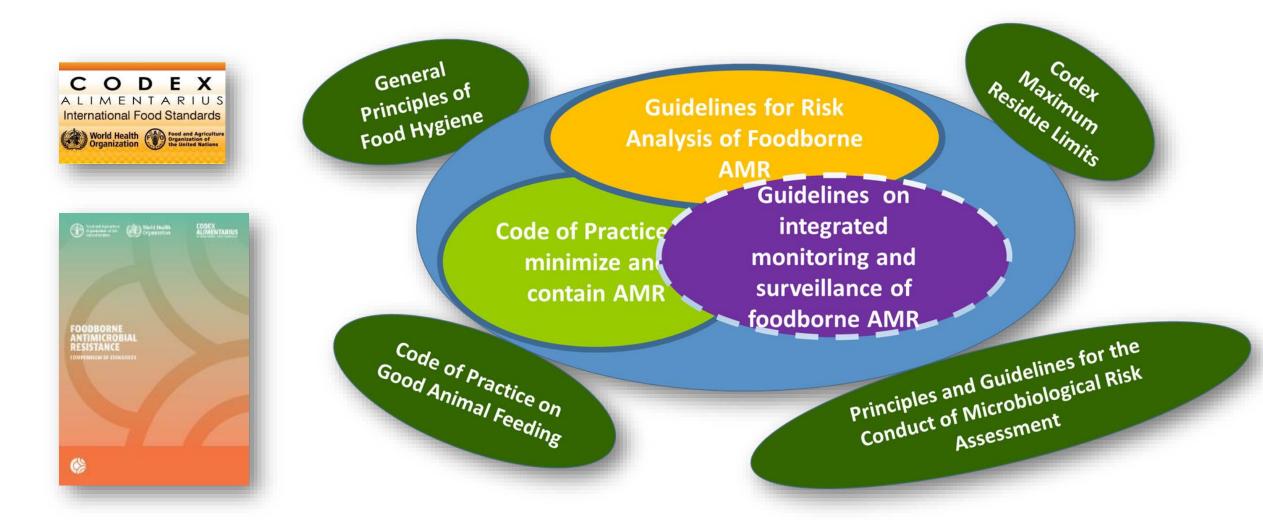


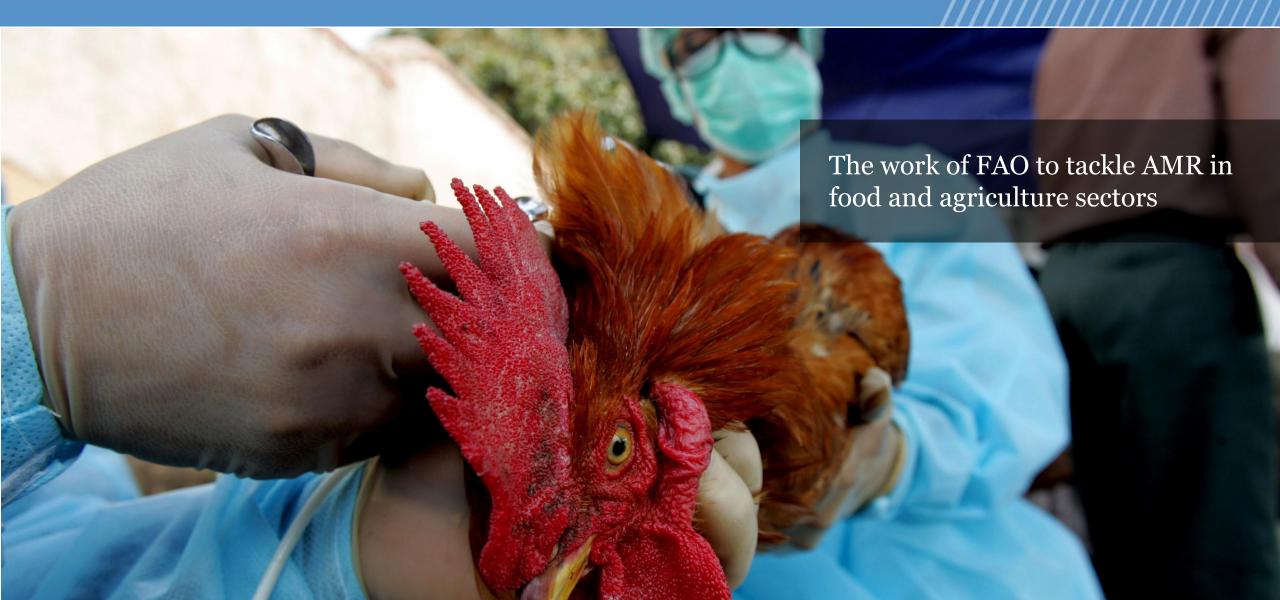
10 countries - Morocco, Kenya, Zimbabwe, Senegal, Ghana, Cambodia, Indonesia, Ethiopia, Peru and Tajikistan – had their proposals approved in 2020/21 and have started implementation.

4 countries – **Bangladesh, Mongolia, Tunisia, Madagascar** – had their concept notes approved at the last Steering Committee meeting and are preparing full proposals. 2 countries (Cameroon, Kyrgyzstan) are developing concept notes at the moment.

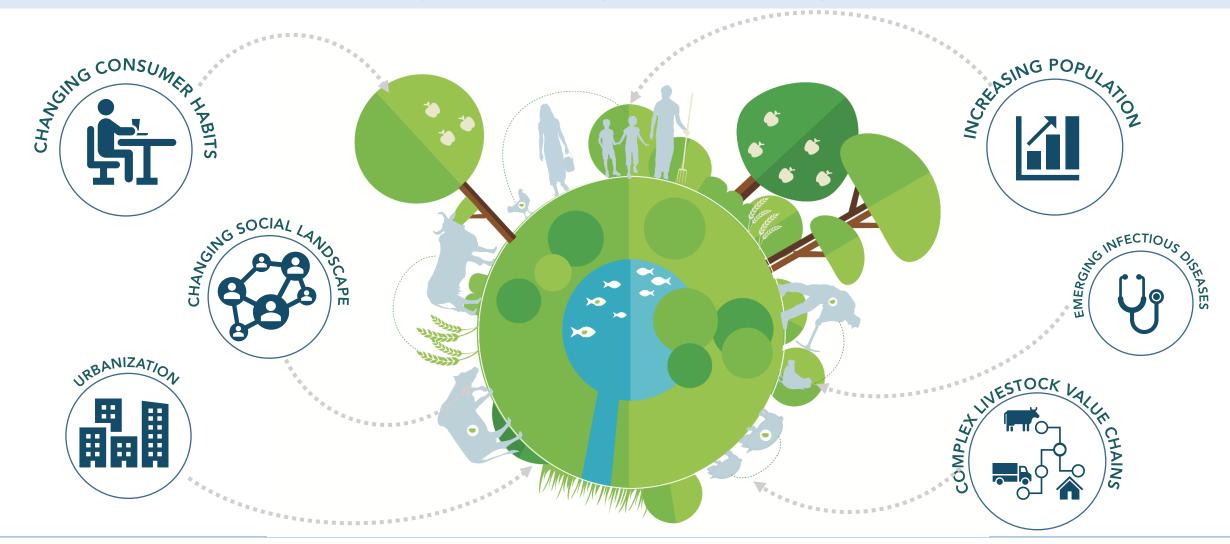


The joint WHO-FAO work under Codex Alimentarius

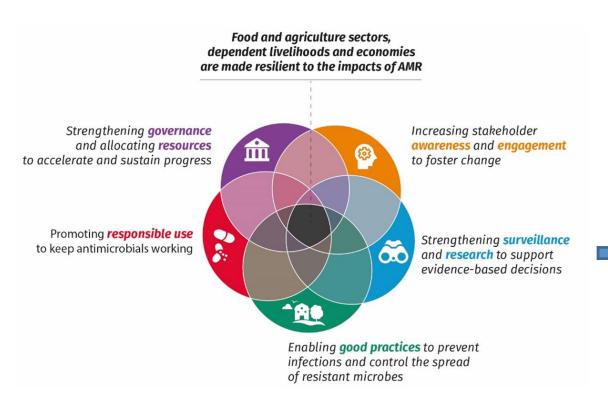




Antimicrobial resistance: a global challenge for food and agriculture



FAO's work on AMR





FAO tools for capacity building



Field interventions



Access to resources and technical networks



Data management and information systems



FAO tools for capacity building on AMR



Progressive Management Pathway on AMR

AMR behaviour change community of practice

Assessment tool for laboratories and AMR surveillance systems (FAO-ATLASS)

Tool for a Situation Analysis of AMR Risks in the food and agriculture sectors

FAO's Farmer Field Schools

Methodology to analyze AMR-relevant legislation in the food and agriculture sector



Access to resources and technical networks



FAO Reference Centers on AMR

- National Food Institute, Technical University of Denmark, Denmark
- Department of Veterinary Medicine, Freie Universität Berlin, Germany
- Department of Veterinary Public Health, Faculty of Veterinary Science, Chulalongkorn University, Thailand
- Veterinary Medicines Directorate, Centre for Environment Fisheries and Aquaculture Science, Animal and Plant Health Agency, United Kingdom
- Infectious Diseases Institute of the Ohio State University (OSU), United States
- French agency for Food, Environmental and Occupational Health and Safety (ANSES), France
- Integral Unit of Services, Diagnosis and Verification (UISDC), National Service for Agrifood Health, Safety and Quality (SENASICA), Secretariat of Agriculture and Rural development (SADER), Mexico
- Fondation Institut Pasteur de Dakar, Senegal



Technical Advisory Groups (TAGs) for AMR/AMU and antimicrobial residues surveillance

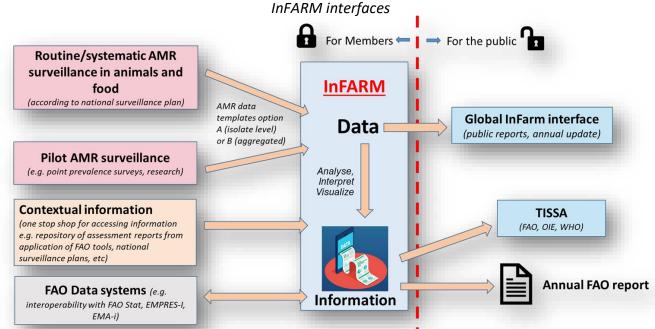
- Southeast Asia
- South Asia
- East Africa

FAO data management and information systems



InFARM primarily envisioned to support Members for collecting, analyzing and reporting AMR data from animals and food at National level

Proposed flow of data and dissemination of information in private and public



Main objectives:

- To support countries in collecting, analyzing and using their AMR data from animals and food. This includes support in gathering all relevant contextual information on AMR and AMU surveillance programmes and linked activities (e.g. national surveillance plans, reports of the application of FAO assessment tools) in the platform's country private interface
- To support countries willing to publicly share AMR data from food and agriculture sectors for global surveillance, as a public good for international advocacy and action against AMR. This includes the support provided by FAO to aggregate the data for submission into the global Tripartite Integrated System for Surveillance of AMR/AMU (TISSA)



Thank you

www.fao.org/antimicrobial-resistance

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