



Food and Agriculture
Organization of the
United Nations

Promoting One Health to enhance food production and address AMR

*Junxia Song,
Senior One Health Officer, FAO lead for
AMR*

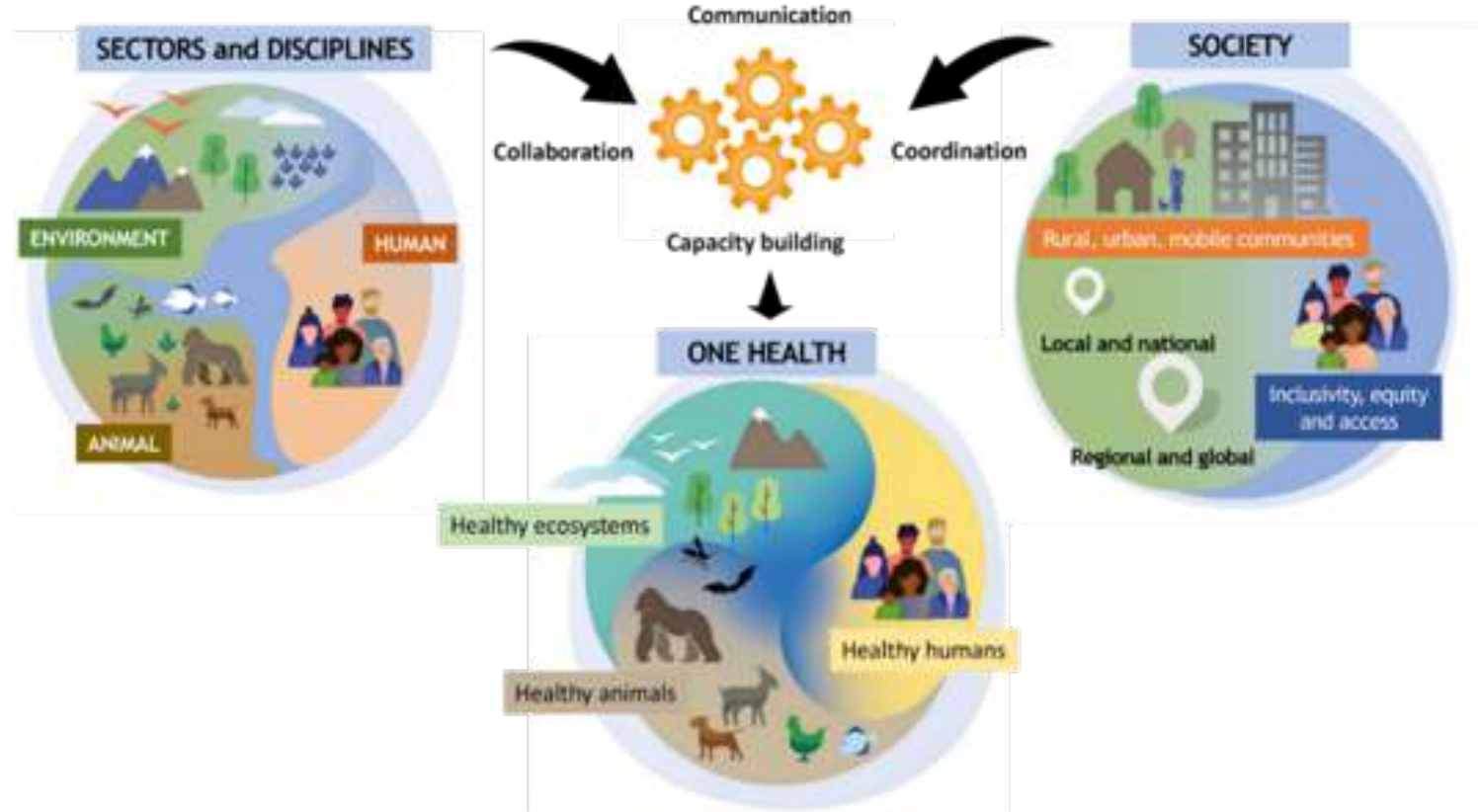




Defining One Health

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 interdependent**

*(One Health High Level Panel [OHHLEP]
One Health definition, 2021)*



One Health Priority Programme Area (OH PPA)

“Leaving no one behind through sustainable, inclusive and resilient agri-food systems







Food and Agriculture
Organization of the
United Nations

Example: FAO Emergency Centre for Transboundary Animal Diseases (FAO ECTAD)

A global network of multidisciplinary teams, including more than 350 experts in the field, working to strengthen the One Health capacities of over 35 countries.

Recent ECTAD achievements (October 2020–September 2021)



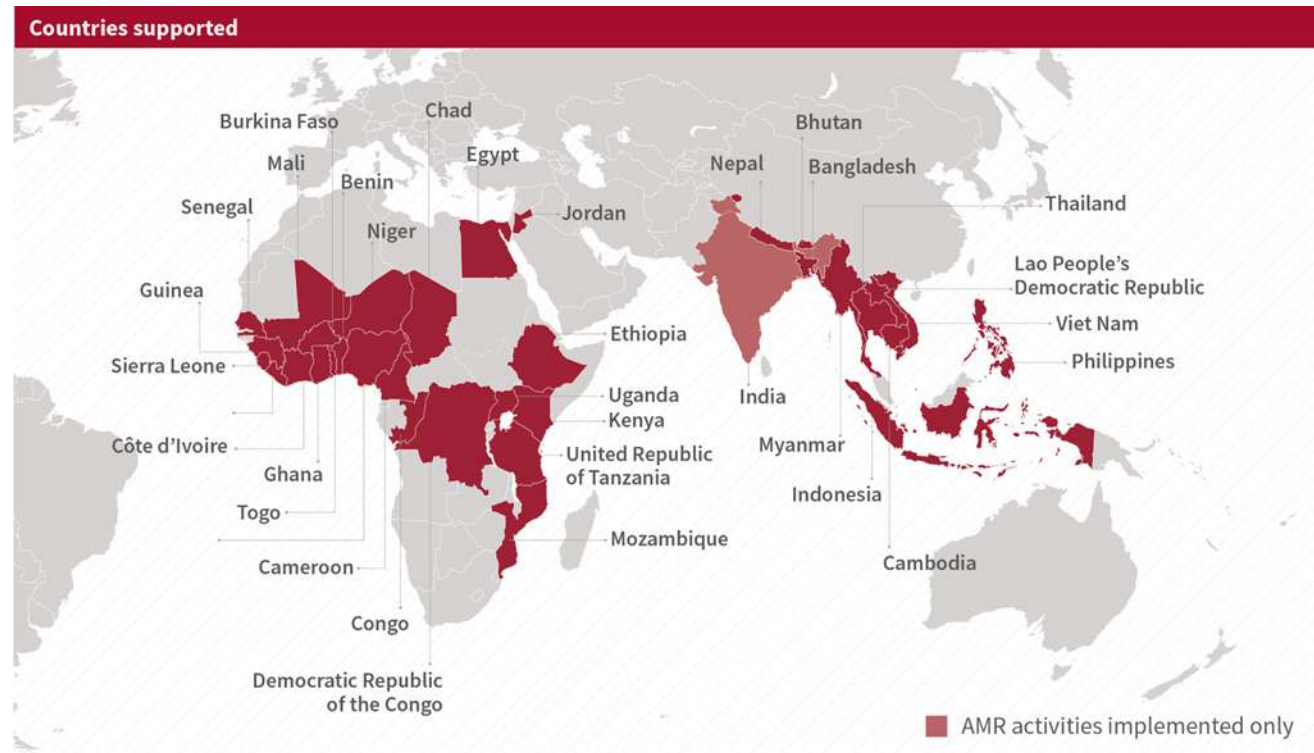
Responded to 400+ outbreaks in 19 countries



Trained nearly 6 000 professionals



Improved diagnostic capacities of
almost 90 laboratories in
22 countries



Source: FAO, April 2022





FAO Virtual Learning Centers (VLCs)



The VLCs are learning hubs based on the FAO regions/subregions with the main objective of **providing training** to different professionals to meet countries needs and FAO objectives.

<https://virtual-learning-center.fao.org/>

Some advantages of an online approach:

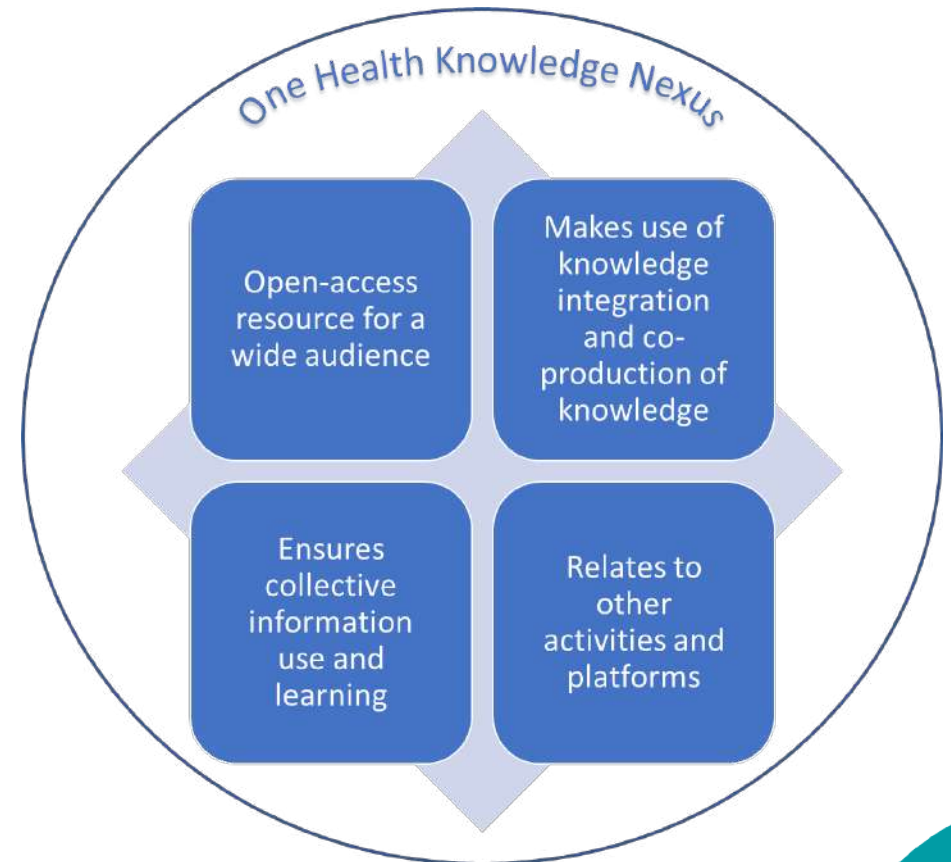
- Larger audience can be trained at low cost
- It allows to reach people in remote locations
- Mobile-first solutions can be used for poor connectivity settings



One Health Knowledge Nexus

Building a community where people can collate, share, exchange, generate, access, critique, enhance, review and refine knowledge and evidence on One Health

- Communities of practice on One Health themes
- A space for knowledge and evidence sharing in an accessible way
- Tackling knowledge and evidence gaps
- Supporting the mainstreaming of One Health



One Health Joint Plan of Action (OHJPA)

Action Track 1: Enhancing One Health capacities to strengthen health systems

Action Track 6: Integrating the Environment into One Health

Action Track 5: Curbing the silent pandemic of Antimicrobial Resistance (AMR)



Action Track 2: Reducing the risks from emerging and re-emerging zoonotic epidemics and pandemics

Action Track 3: Controlling and eliminating endemic zoonotic, neglected tropical and vector-borne diseases

Action Track 4: Strengthening the assessment, management and communication of food safety risks

Address AMR in agri-food system



TREATMENT

AMR is reducing the effectiveness of antimicrobials compromising the treatment of infectious diseases.

10 MILLION

The death that could reach 10 million per year by 2050.

DEATHS

Recent studies found that AMR caused 1.27 million human deaths in 2019

100 TRILLION

The economic impact if the problem is not address could have an impact of about USD 100 trillion.

WHY AMR MATTERS IN AGRIFOOD SYSTEMS ?

01

40 of 160 countries reported using antimicrobials for growth promotion



02

73% of all antimicrobials sold globally are used in food animals



03

76% of the antibiotics commonly used in food animals are also important in human medicine



04

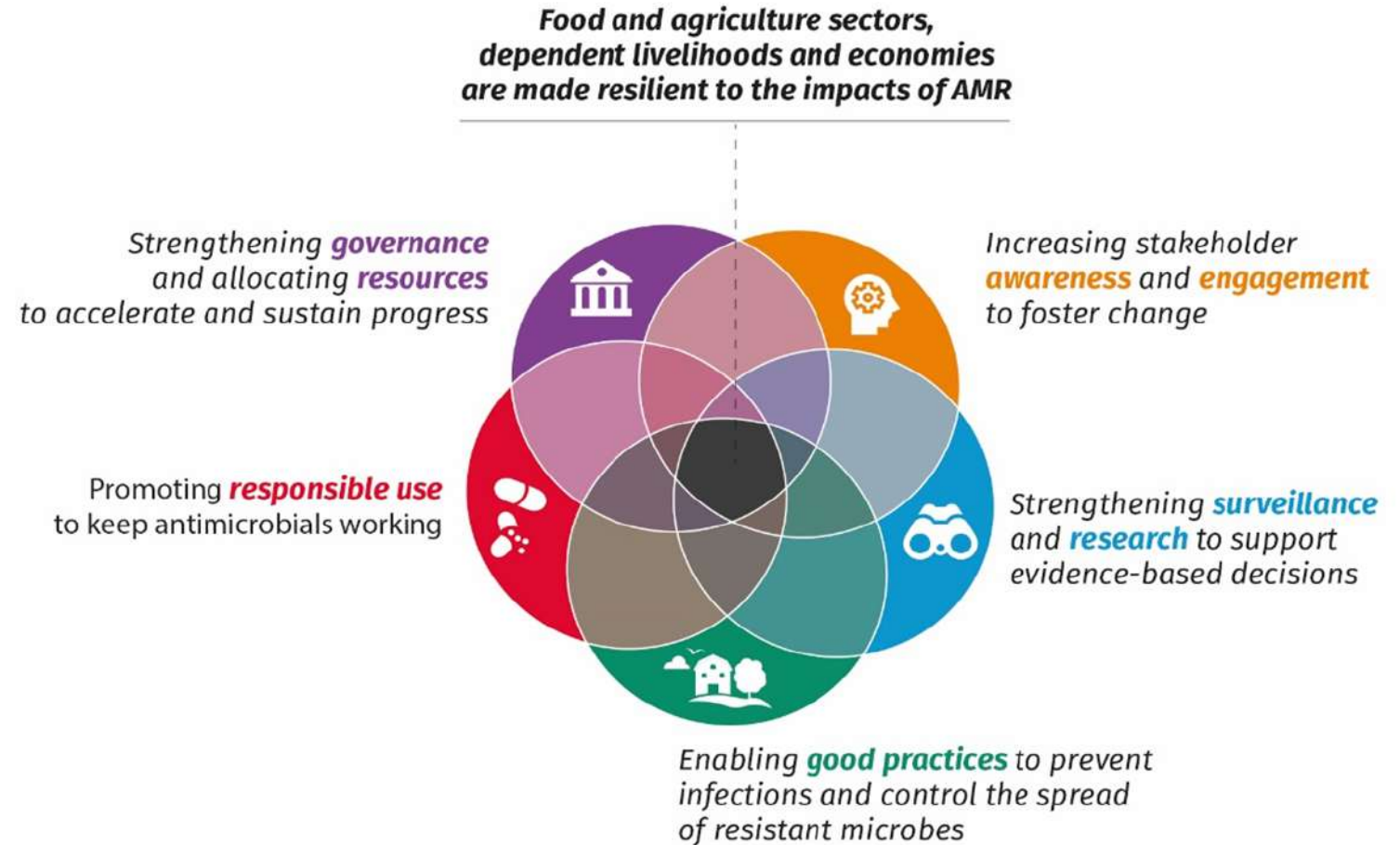
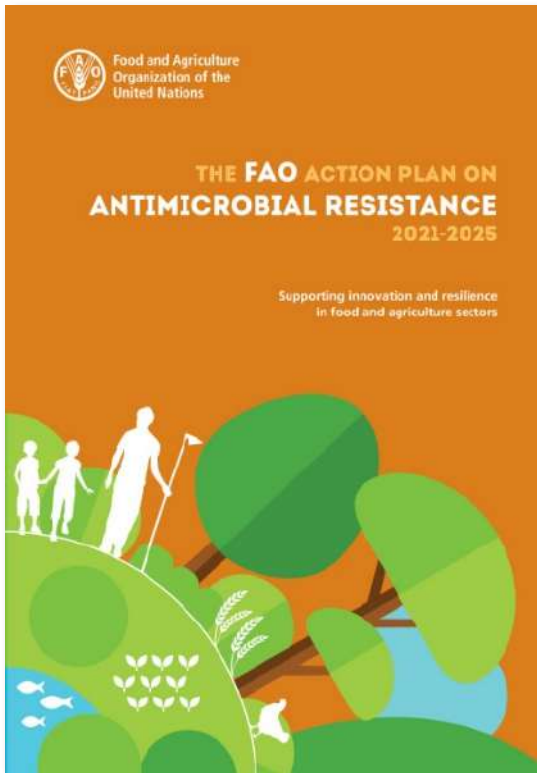
Up to **80%** of antibiotics consumed by animals are excreted non-metabolized



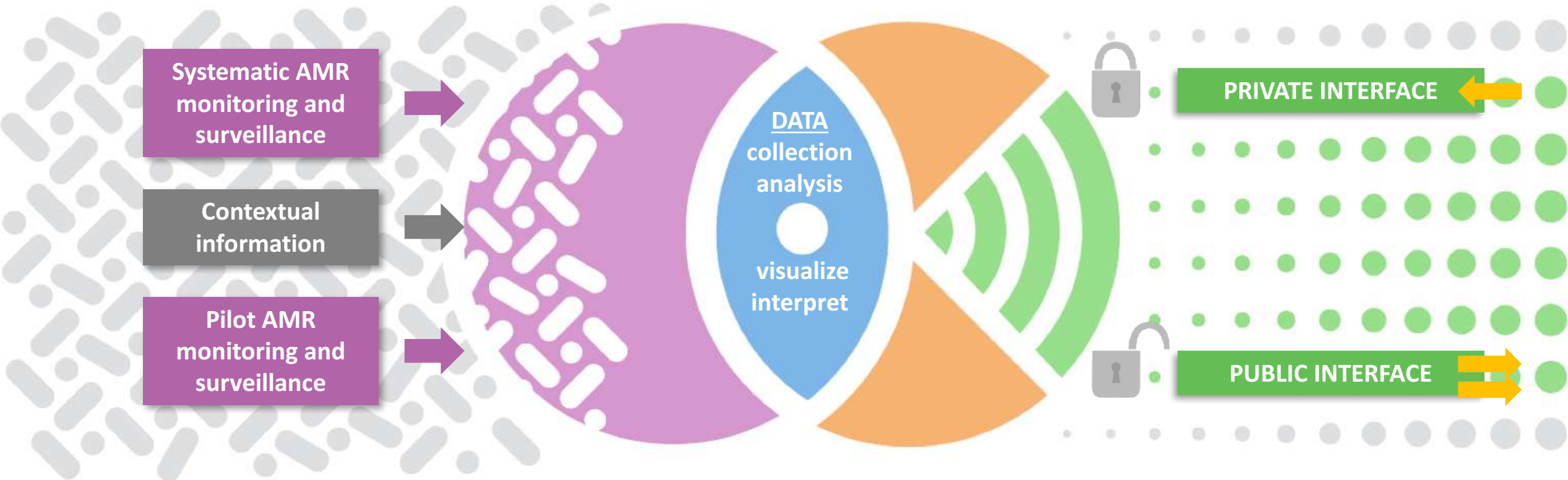
<https://www.woah.org/app/uploads/2021/05/a-fifth-annual-report-amr.pdf>

The AAPS Journal 17(3), 513–524. doi:10.1208/s12248-015-9722-z

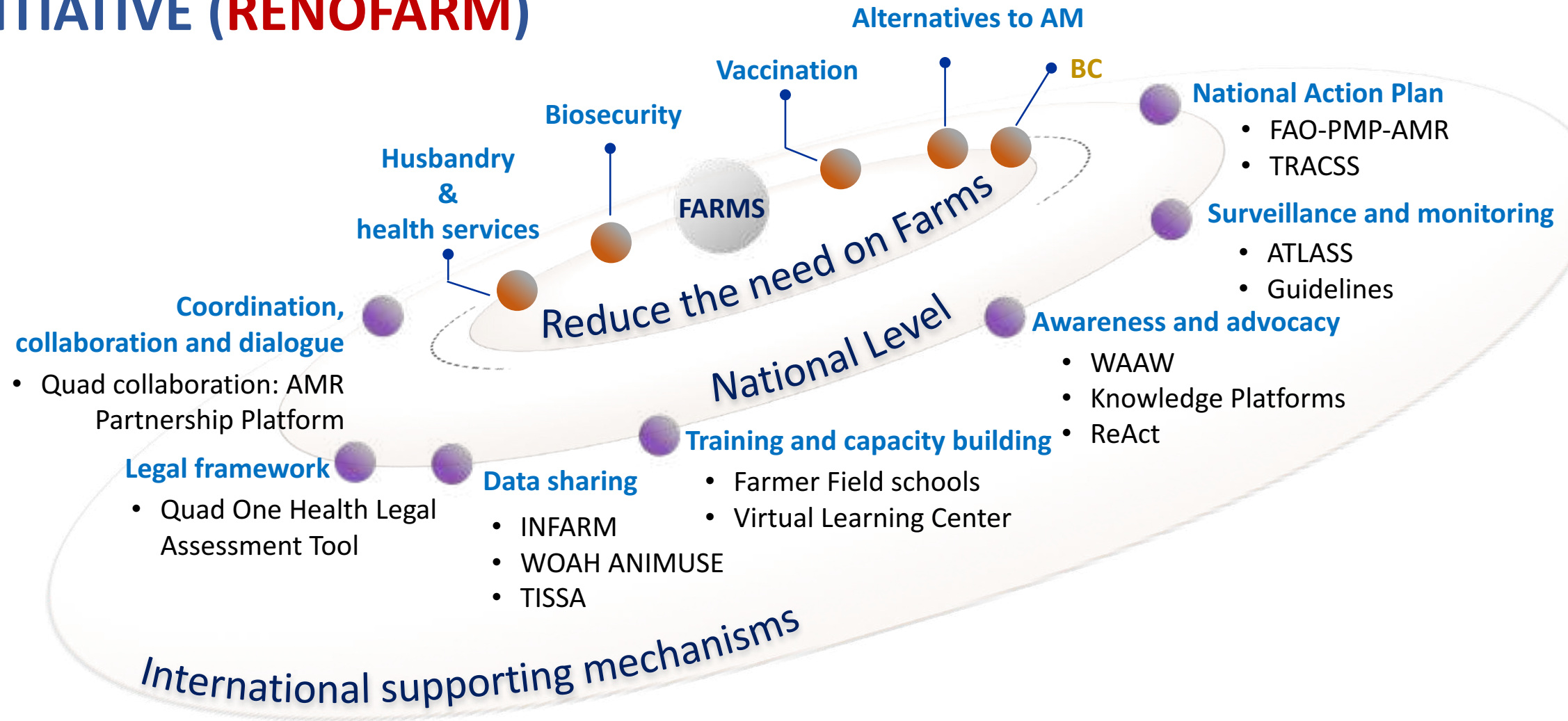
FAO ACTION PLAN ON AMR 2021-2025



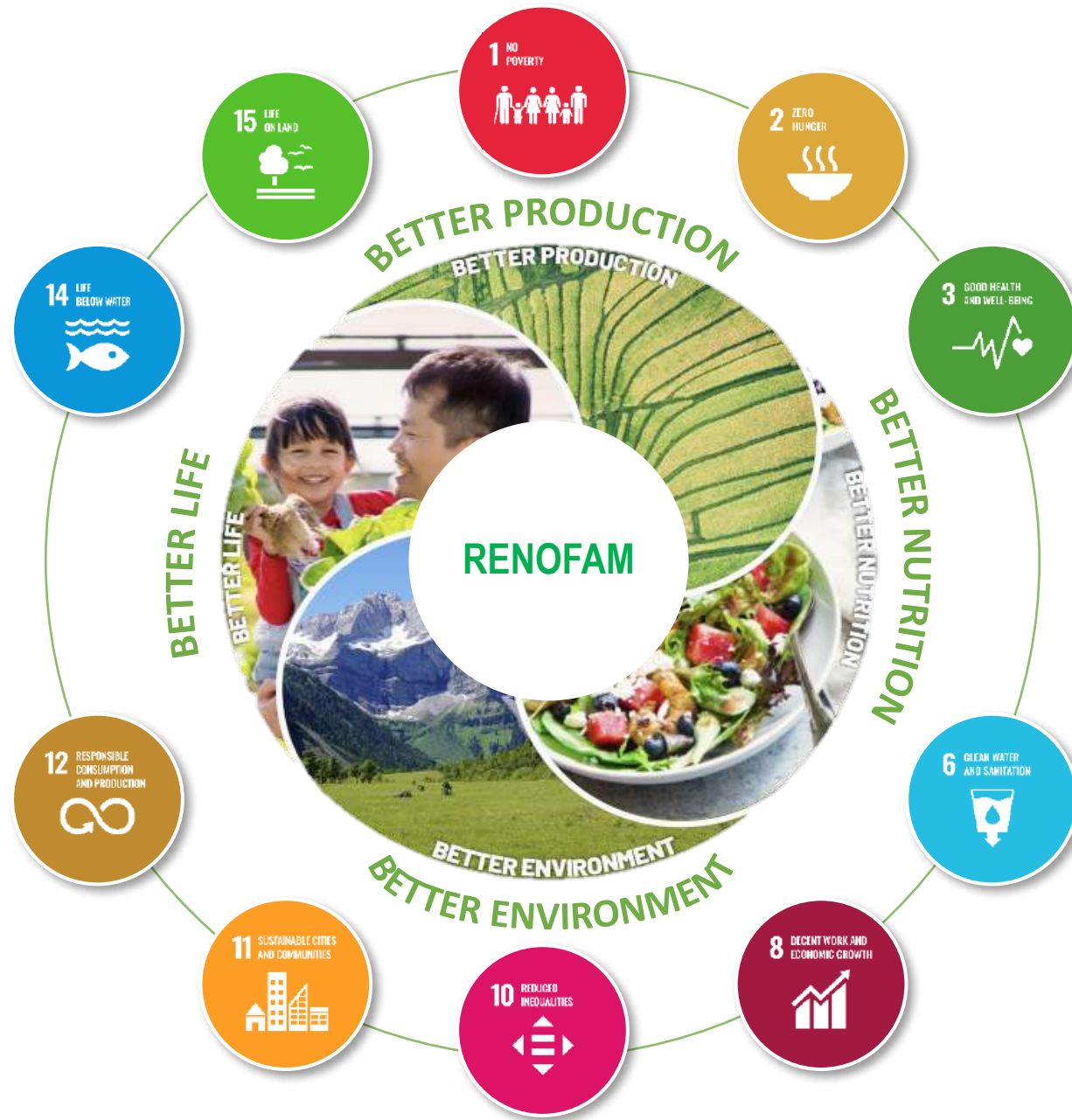
INTERNATIONAL FAO ANTIMICROBIAL RESISTANCE MONITORING (InFARM) DATA PLATFORM



REDUCE THE NEED FOR ANTIMICROBIALS ON FARMS INITIATIVE (**RENOFARM**)



Healthier Farms
Happier Farmers



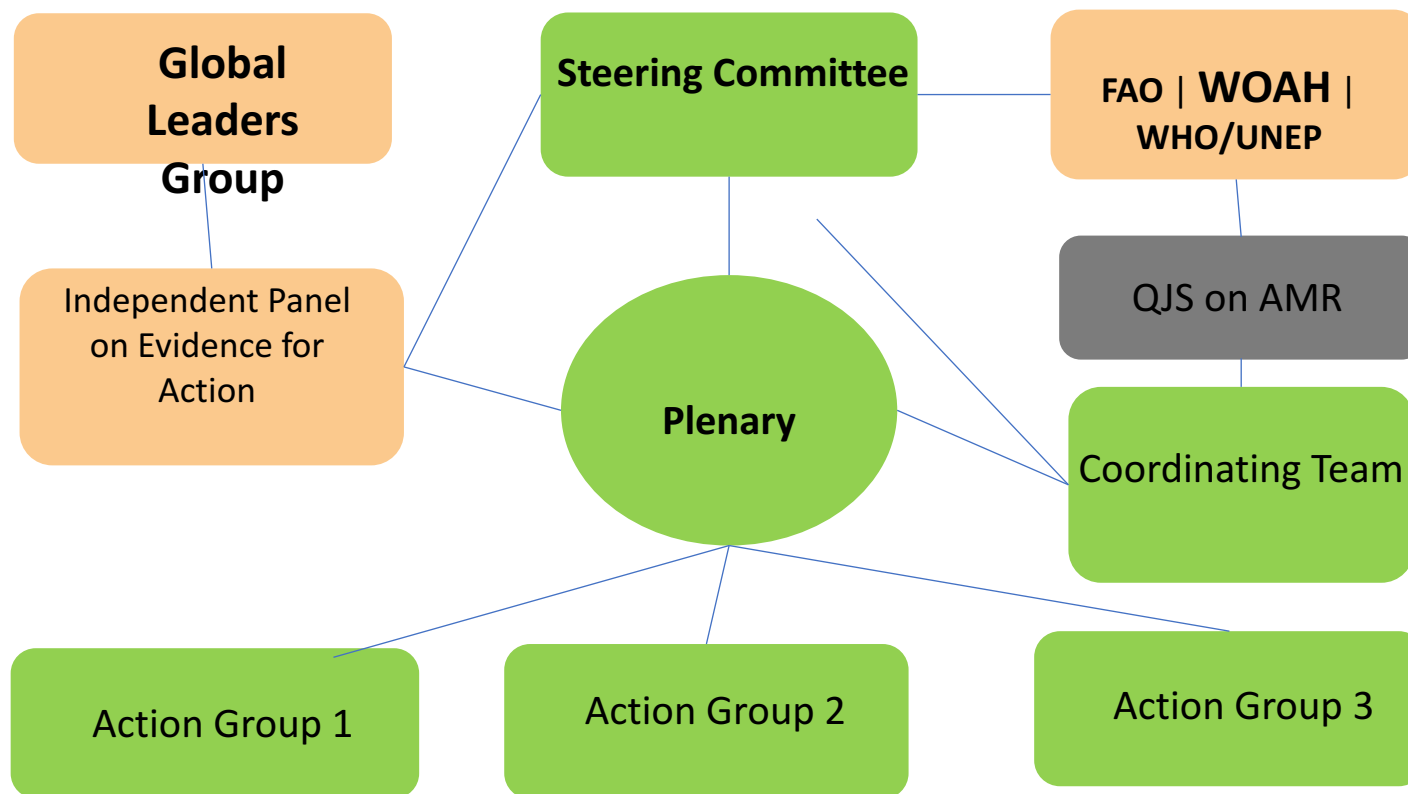
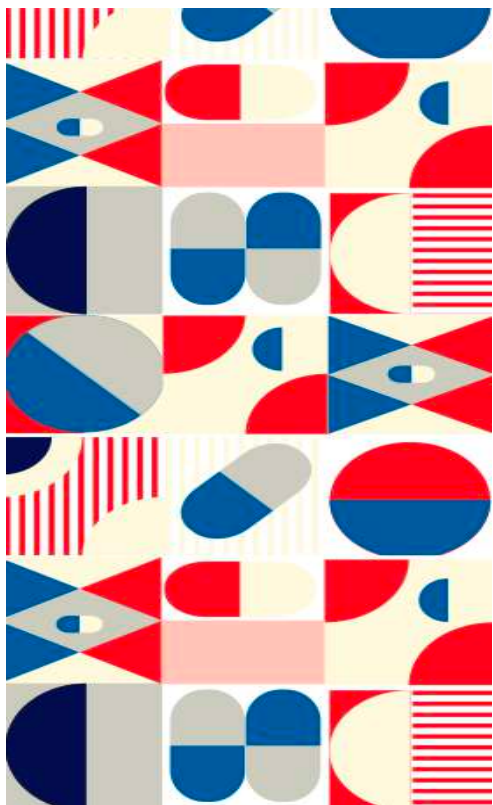
More Production
Safer products



Food and Agriculture
Organization of the
United Nations

AMR Multi-Stakeholder Partnership Platform

Creating a movement for change through engaging multiple actors and voices





Food and Agriculture
Organization of the
United Nations

Thank you!

