



Food and Agriculture
Organization of the
United Nations



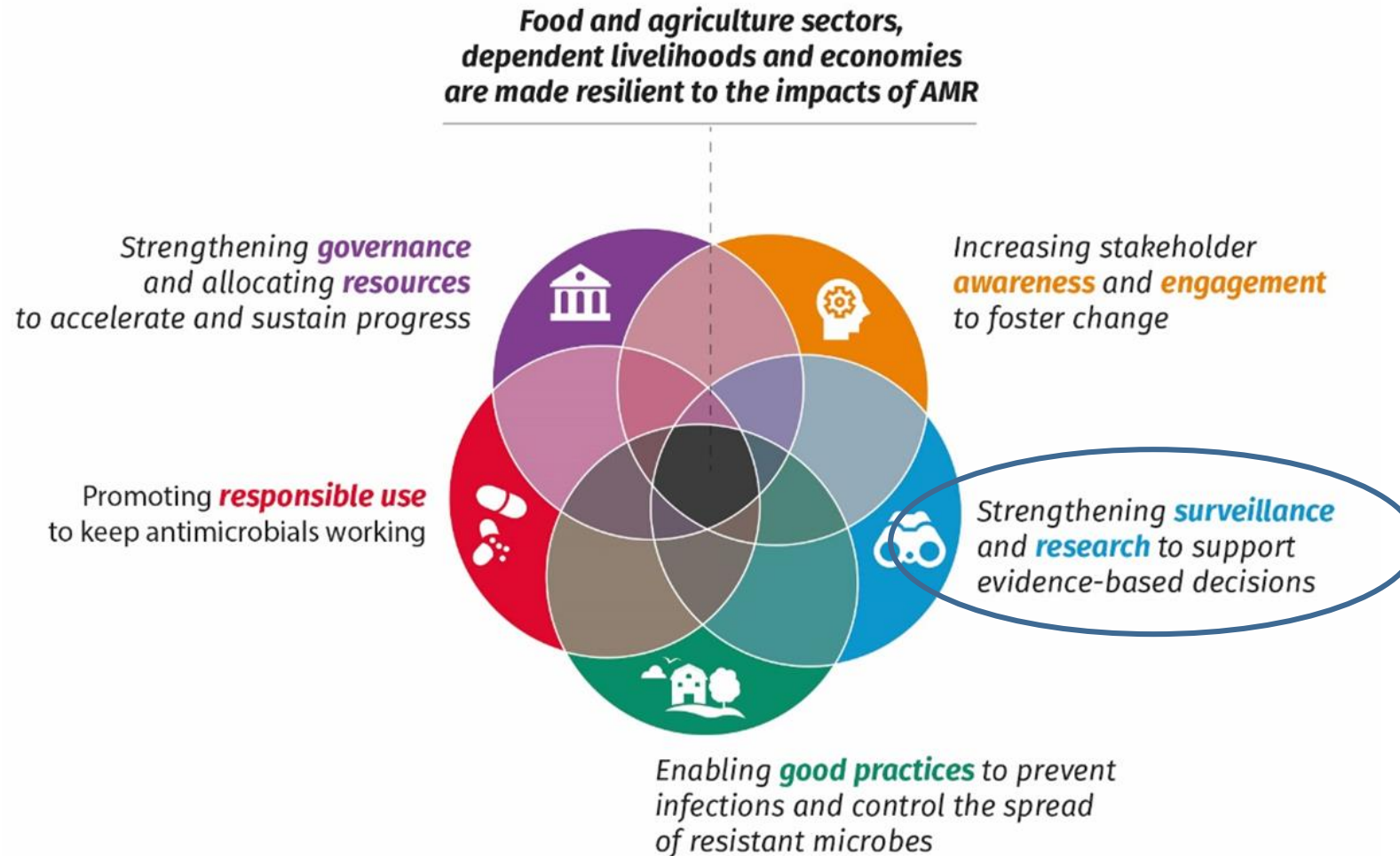
FAO AMR Laboratory and Surveillance strengthening initiatives

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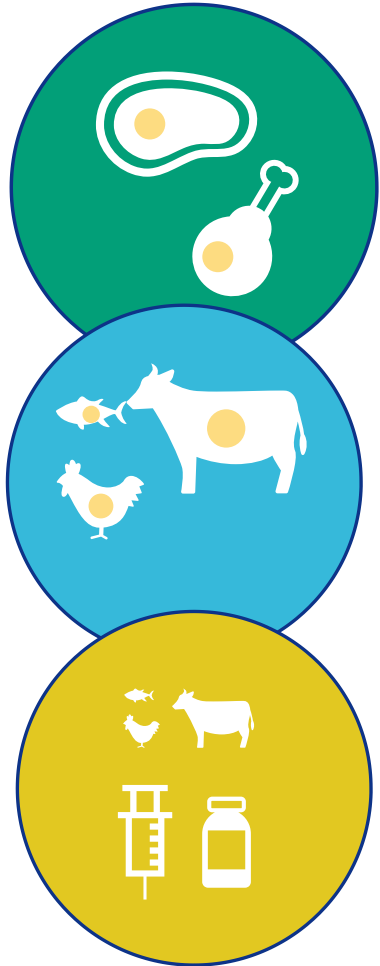
AMR Diagnostics Specialist



FAO Action Plan on Antimicrobial Resistance



FAO areas of contributions to integrated AMR surveillance



1

AMR monitoring and surveillance in bacteria from *healthy food animals and their products*

2

Monitoring *of antimicrobial residues* from food animals and their products

3

AMR monitoring and surveillance in *bacterial pathogens from diseased livestock*

4

AMR monitoring and surveillance in *bacterial pathogens from aquatic animals*

5

Monitoring *antimicrobial use at the farm level*

6

Knowledge, attitude, and practices in the use of antimicrobials in food and agriculture





FAO TOOLS AND RESOURCES TO SUPPORT FOOD AND AGRICULTURE SECTOR IN INTEGRATED AMR SURVEILLANCE

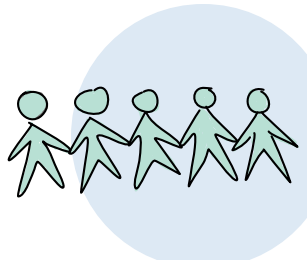
TOOLS FOR PROGRESSIVE IMPROVEMENT AND SUSTAINABILITY

- *Post-ATLASS Tool / ASCEnD 2021*
- *KAP tools / Farmer Field Schools*



COLLABORATION AND ACCESS TO EXPERTISE

- *AMR Technical Advisory Groups*
- *AMR Technical Working Groups*
 - *Consultation platforms*



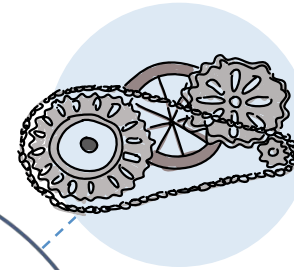
TOOLS TO SUPPORT AMR DATA GENERATION AND MANAGEMENT

- *Regionally customized plates*
- *AMR data management templates*
 - *Capacity building initiatives*



TOOLS AMR SURVEILLANCE SYSTEMS STRENGTHENING

- *FAO ATLASS*
- *FAO PMP-AMR*



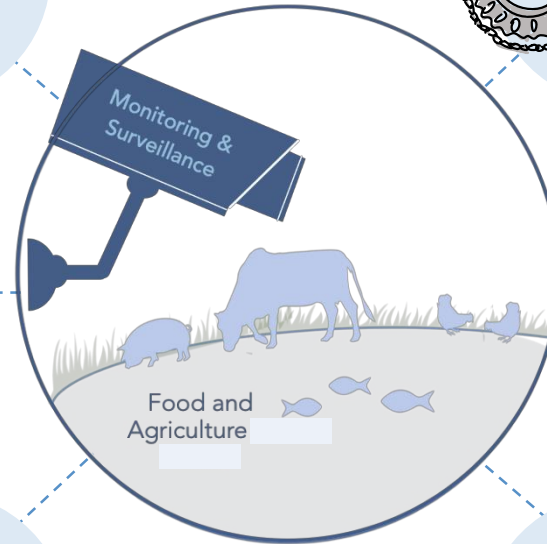
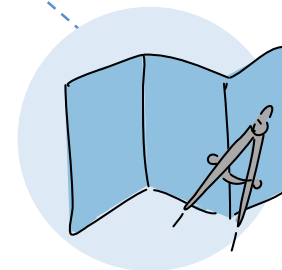
TOOLS TO ACCESS RESOURCES AND NETWORKS

- *FAO Reference Centres for AMR*
- *FAO AMR Publications*
- *Multi-Partner Trust Fund*



TOOLS FOR PLANNING AMR SURVEILLANCE

- *Regional Guidelines*
- *AMR surveillance planning template*
- *AMR surveillance implementation review*





FAO GLOBAL TOOLS ON AMR SURVEILLANCE: Measure of progress

FAO Assessment Tool for Laboratories and AMR Surveillance Systems (FAO-ATLASS)

Building country capacities on the ground to generate, collect and analyze AMR data within national surveillance systems in food and agriculture

- Map and assess systematically
 - Describe links with AMR surveillance system of other sectors
 - Help to prioritize action to improve at national, regional, and global levels over time
 - FAO-ATLASS Progressive Improvement Pathway (PIP)
-
- Deployed 28 countries and more than 120 laboratories
 - Communities of assessors in Asia and Africa



Governance



Data collection and analysis
(epidemiology unit)



Data production network
(laboratories)



Communication



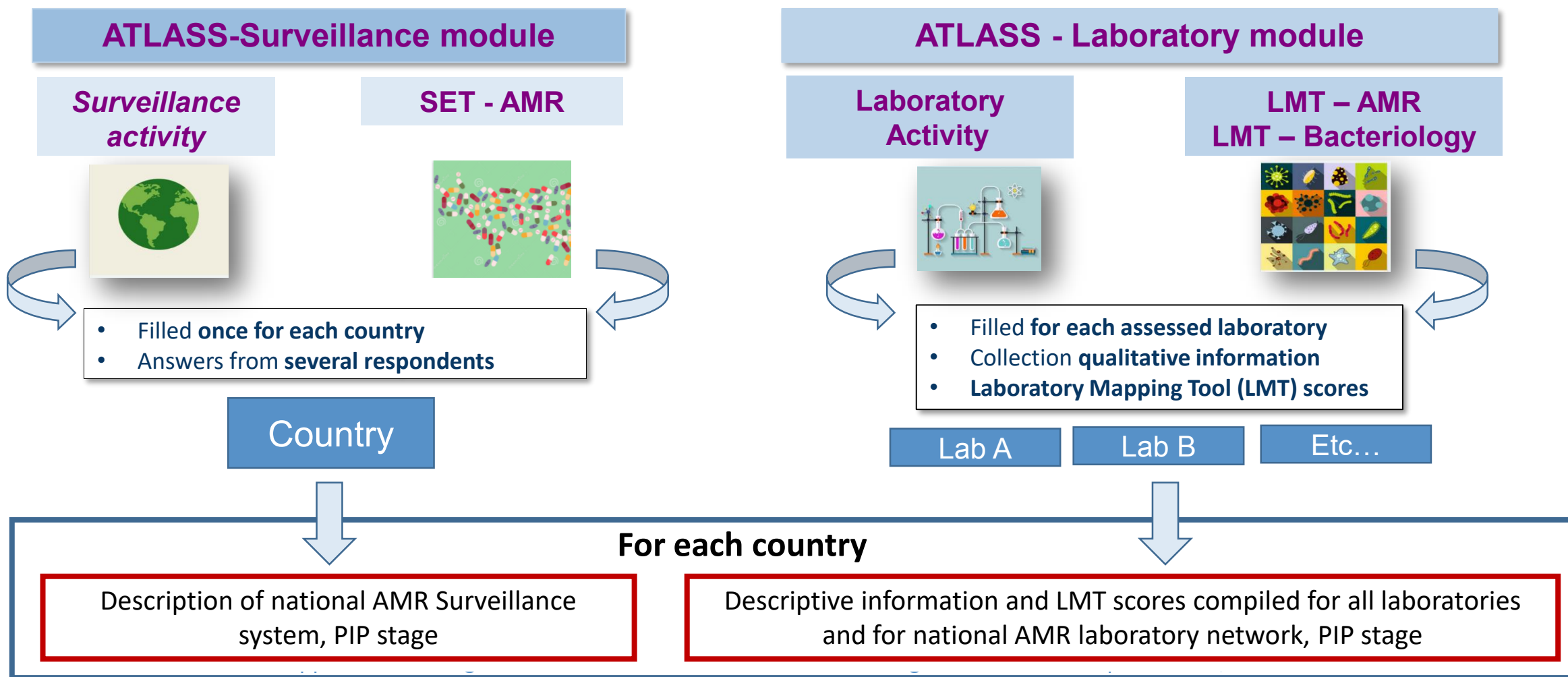
Sustainability





FAO GLOBAL TOOLS ON AMR SURVEILLANCE: Measure of progress

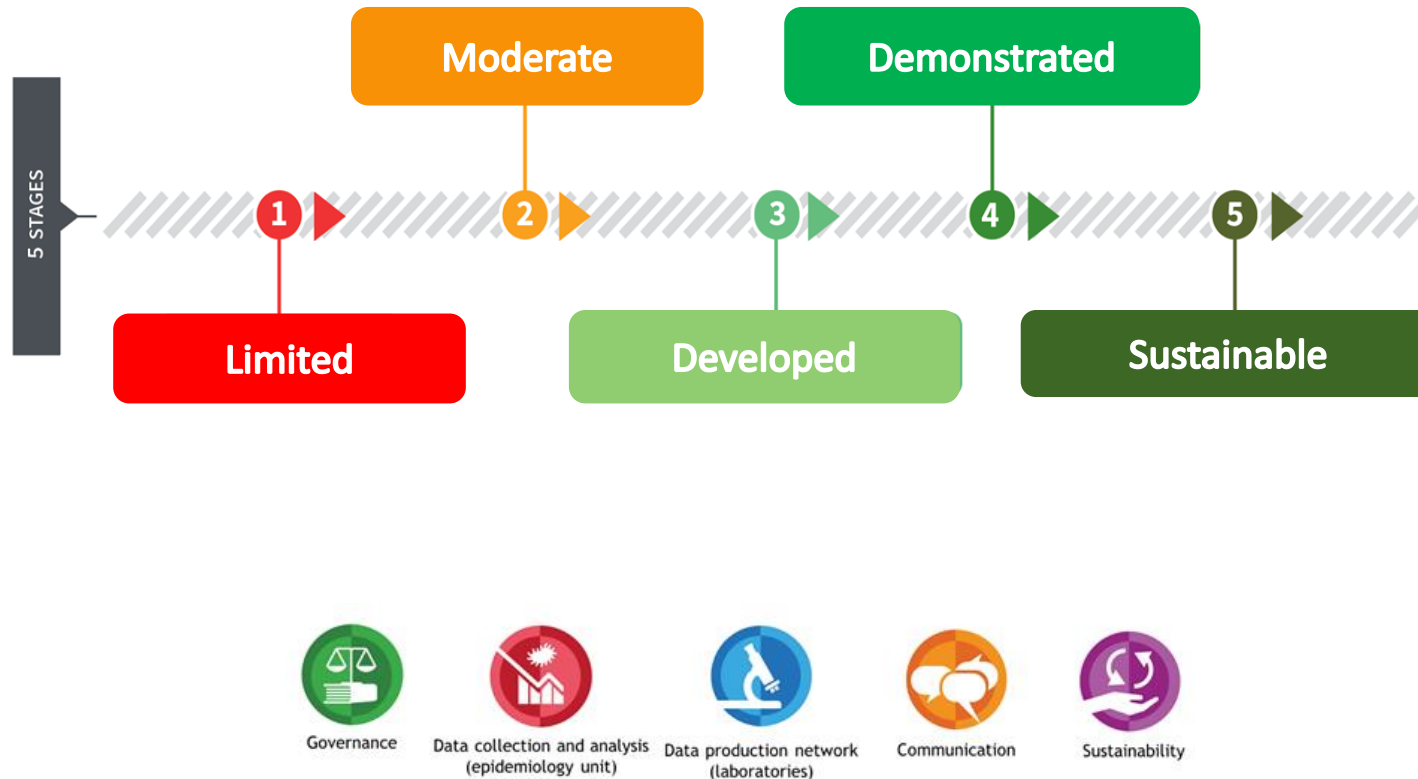
FAO Assessment Tool for Laboratories and AMR Surveillance Systems (FAO-ATLASS)





FAO GLOBAL TOOLS ON AMR SURVEILLANCE: Measure of progress

FAO-ATLASS Progressive Improvement Pathway (PIP)



- For each laboratory
- For each AMR Surveillance area
 - Governance
 - Data collection and analysis
 - Data production network
 - Communication
 - Sustainability
- For the national AMR surveillance in food and agriculture sectors



FAO GLOBAL TOOLS ON AMR SURVEILLANCE: Measure of progress

FAO Progressive Management Pathway for AMR (FAO PMP-AMR)

Managing AMR step-by-step

Providing guidance

Identifying actions and resources

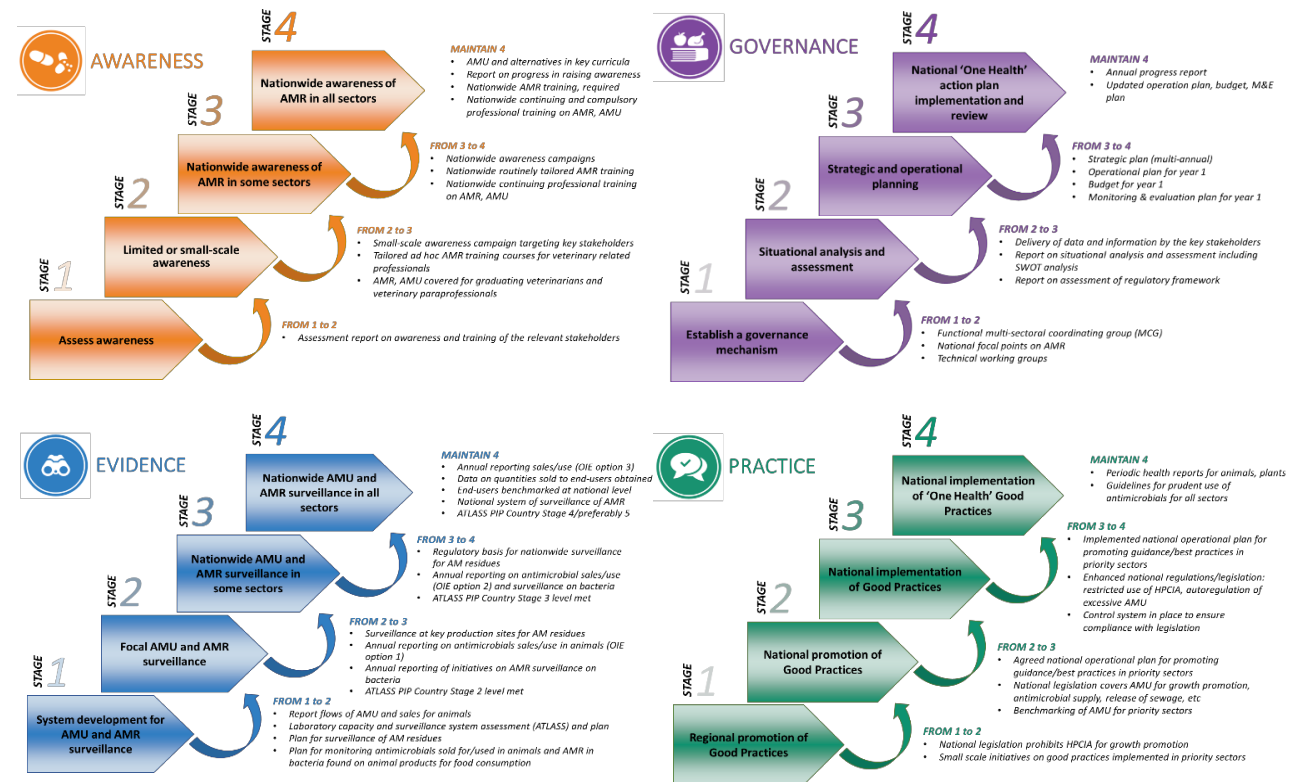
Assigning ownership of stakeholders

Allocating budgets

From small scale to nationwide

From priority sectors to 'One Health'

Focus on Agriculture and Food





FAO GLOBAL TOOLS ON AMR SURVEILLANCE: Access to resources and networks

FAO Reference Centres for AMR

- National Food Institute, Technical University of Denmark, Denmark
- French agency for Food, Environmental and Occupational Health and Safety (ANSES), France
- Department of Veterinary Medicine, Freie Universität Berlin, Germany
- 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
- 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



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Thank You

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