Concept Note

Title: Regional Workshop on AMR Data Management, Analysis and Reporting
Responsible Officer: Mary Joy Gordoncillo, Project Officer (*AMR Regional Project Coordinator*)
Background and justification: The Food and Agriculture Organization Emergency Centre for Transboundary Animal Diseases at the Regional Office for Asia and the Pacific (FAO ECTAD RAP) has commenced its work on antimicrobial resistance (AMR) in 2015. Supported by the United States Agency for International Development (USAID), one of its major thrusts has been towards strengthening national antimicrobial resistance (AMR) surveillance in the animal health sector, and its harmonization across the countries in the region.   As part of its cohesive efforts, a regional AMR data call in 2020–2021 was launched to: (1) identify cross-cutting issues on current practices in AMR surveillance; (2) determine the baseline regional AMR situation; and (3) help individual countries gauge their accomplishments to date and identify areas that may still require further improvements. Using the regional AMR data management template developed by the project, eight countries responded, sharing a total of 12,673 AMR profiles of *E. coli, Salmonella, Enterococcus*, and *Campylobacter* species from healthy pigs, poultry, cattle, and goats. These were accordingly deidentified/anonymized, collated by FAO ECTAD RAP, and turned over to AMR data experts for blinded regional and individual country data analysis. A three-part report in accordance with the three objectives were prepared.   The first report in the series presented the baseline descriptive summary of the collated AMR data from the region, identifying issues on current practices on AMR monitoring and surveillance of indicator bacteria from healthy food animals. It also provides recommendations for improvement, particularly on actions that referred to reinforce moving towards regional harmonization. While this first part provided context on the data set obtained, a complementary work on the blinded regional quantitative data analysis was done to present the baseline regional AMR situation in the region. This constituted the second set of reports under this regional initiative, while the individual country reports served as the third part of this report series.   The substantial number of AMR data generated in the last few years for this type of AMR surveillance underscores the progress the countries in the region have made over the years. However, the work also highlighted the further need to refine methodologies and implementation including those that lead towards regional harmonization, to optimize the value that individual national AMR surveillance systems in healthy food animals.   This "*Regional Workshop on AMR Data Management, Analysis and Reporting*" is organized for the nominated representatives from the eight responding countries. This will further discuss in detail the collective results and provide training to relevant AMR data managers in these countries. The event will be held in Bangkok, Thailand on 27–28 November 2023.

Objectives/Outcomes:
1. Facilitate exchange on the current state of AMR data management, analysis and reporting in Southeast Asia;
2. Present the findings from the regional AMR data management, analysis, and reporting to participating countries and further validate the following:
   a. identified cross-cutting issues on current practices in AMR surveillance;
   b. the baseline regional AMR situation; and
   c. individual areas that may still require further improvements
3. Introduce regional and global AMR surveillance tools; and,
4. Plan on the ways forward towards improving regional cooperation and harmonization on AMR surveillance initiatives.

Expected Outputs:
1. Findings from the regional AMR data analysis are presented to and further validated by contributing countries;
2. Countries are made aware and able to use surveillance tools including those for AMR data management; and,
3. Next actions to further improve regional cooperation and harmonization on AMR surveillance initiatives in the region are determined.

Key inputs/ Main Activities:
1. Reports and presentations;
2. Workshop on AMR data management, analysis and reporting; and,
3. Regional deliberation and discussions.

Implementation Methods:
1. The three-part report will be prepared for sharing with the participants, with each part of the report series discussed in detail with participating countries;
2. Workshop using excerpt from the blinded AMR data set will be carried out;
3. Plenary discussions/deliberations will also be conducted to seek inputs from countries.

Timing/duration and Location: Bangkok, Thailand
Duration and location: 27–28 November 2023

Expected number of participants: Total (N = approximately 20-25 pax)
- Invited countries (One nominated participant each) (n=8)
- Chulalongkorn University (FAO Reference Centre for AMR) (n=2)
- FAO Country Offices (1 each from FAO Cambodia, FAO Indonesia, FAO Lao People's Democratic Republic, FAO Philippines, FAO Viet Nam) (n=5)
- FAO RAP (n=5-9)
- FAO headquarters (n=1)

Regional Workshop on AMR Data Management, Analysis, and Reporting
(27–28 November 2023)

Day 1 (27 November 2023)

Time	Session 1: *Opening*	Resource
09:00 – 09:20	Opening remarks Introductions Group Photo	**Dr Kachen Wongsathapornchai** Regional Manager, FAO ECTAD RAP
Time	**Session 2:** *Exchange on the current state of AMR data management, analysis and reporting in Southeast Asia and beyond*	**Resource**
09:20 – 10:00	Current state of data management, analysis and reporting (Part 1)	**Cambodia, Indonesia, Lao PDR, Malaysia**
10:00 – 10:30	Coffee Break	
10:30 – 11:10	Current state of data management, analysis and reporting (Part 2)	**Philippines, Singapore, Thailand, Viet Nam**
11:10 – 11:20	Global initiatives in enhancing AMR data management analysis and reporting	**Dr Alejandro Dorado-Garcia** FAO HQ
11:20 – 11:30	Regional initiatives in enhancing AMR data management, analysis and reporting	**Dr Mary Joy Gordoncillo** FAO ECTAD RAP
11:30 – 12:00	Plenary discussion, Q&A, Recommendations	All participants
12:00 – 13:00	Lunch Break	
Time	**Session 3:** *Regional AMR data analysis (Part 1)*	**Resource**
13:00 – 13:15	General summary and evaluation of current practices	**Dr Mary Joy Gordoncillo** FAO ECTAD RAP
13:15 – 13:30	Introduction to new features of the AMR data templates	**Dr Jutanat Srisamran** FAO ECTAD RAP
Time	**Session 4:** *Discussion on basic manual methodologies applied for the regional analysis (Instruction for the workshop exercise)*	**Resource**
13:30 – 15:00	**Exercise 1: Data cleaning** Introduction to data verification and data validation	**Dr Agnes Agunos** FAO ECTAD RAP/ Public Health Canada
15:00 – 15:30	Coffee Break	
15:00 – 16:30	**Exercise 2 : Surveillance demographics** Introduction to descriptive analysis	**Dr Agnes Agunos** FAO ECTAD RAP/ Public Health Canada
16:30 – 17:30	**Exercise 3: Percentage of resistance**	

Day 2 (November 28, 2023)

Time	Session 4: *Discussion on basic manual methodologies applied for the regional analysis*	Resource
09:00 – 10:00	**Exercise 4: Analysis of resistance patterns** Number of antimicrobials and number of classes in the pattern	**Dr Agnes Agunos** FAO ECTAD RAP/ Public Health Canada
10:00 – 10:30	Coffee Break	
10: 30 – 12:00	**Exercise 5: Understanding MIC distribution** Introduction to preparing the MIC table, clinical breakpoints, ECOFFs	**Dr Agnes Agunos** FAO ECTAD RAP/ Public Health Canada
12:00 – 13:00	Lunch Break	
Time	Session 5: *Regional AMR data analysis (Part 2):*	Resource
13:00 – 13:30	Analysis of quantitative AMR data	**Dr Agnes Agunos** FAO ECTAD RAP/ Public Health Canada
13:30 – 14:30	Plenary discussion, Q&A, Recommendations	**All participants**
14:30 – 15:00	Features of International FAO AMR Monitoring (InFARM) System	**Dr Alejandro Dorado-Garcia** FAO HQ
15:00 – 15:30	Coffee Break	
Time	Session 6: *Regional AMR data analysis (Part 3):*	Resource
15:30 – 17:00	Plenary discussion, preparing reports	**All participants**
Time	Session 7: *Ways forward*	Resource
17:00 – 17:15	Summary of final recommendations	**All participants**
17:15 – 17:30	Closing	**Dr Scott Newman** Senior Animal Production and Health Officer FAO RAP

* Data clinic on the sidelines will also be arranged in parallel