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He started his career in pharmaceutical company and decided to work with NGO because of his passion in action research and community engagement for animal disease or zoonotic disease, animal welfare and food safety and apply it for the society since 2006. He has been involved in many research and community engagements program during his career in NGO. In his professional career he has being involved in veterinary organization such as Indonesian Veterinary Medical Association (IVMA), Indonesian Veterinary Epidemiology Association (IVEA)

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A COLLABORATIVE PROJECT ON DEVELOPING A STRATEGY

for the Prudent Use of Antimicrobial Agents to
Control Antimicrobial Resistance in Humans,
Animals and the Environment in Selected Asian Countries

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The burden of Antimicrobial resistance (AMR) in many Asian countries is enormous since the assessment and use of antibiotics are not well controlled due to a lack of national policies and enforcement of regulations on AMR containment in this region. AMR is a complex, multi-dimensional and multi-factorial problem which involves various stakeholders at local, regional, national and international levels. Therefore, a trans-disciplinary approach and a wide range of stakeholders must be involved to solve this problem. The integration of veterinary science and human public health, epidemiology and socioeconomics are important elements for AMR containment. Therefore, it is essential to develop an appropriate AMR containment strategy that is acceptable to multiple stakeholders, simple and practical, and adaptable to each country's situation.

The project entitled "An Ecohealth Approach to Develop a Strategy for the Prudent Use of Antimicrobials to Control Antimicrobial Resistance in Human, Animal, and Environmental Health in Selected Asian Countries" is a collaborative project among 5 Asian countries: China, Indonesia, Lao PDR, Thailand and Vietnam. These participating

countries are members of the Asia Partnership on Emerging Infectious Diseases Research (APEIR). The proposal has been developed by the investigators of the participating countries and submitted to the International Development Research Centre (IDRC), Canada for funding consideration.

This project will be conducted using an ecohealth approach that perceives the social, political, economic, human health and environmental components as an integrated system instead of separate systems. The project will be carried out through three interlinked sequential phases. (1) AMR Containment Strategy Formulation Phase – Baseline data on antimicrobial accessibility and usage, AMR situation and AMR burden, and relevant laws and regulations related to veterinary and human medicine in each participating country will be collected and analyzed. The potentially effective and appropriate AMR containment strategy will be formulated according to each participating country's situation based on the observed baseline data and applicable local and global relevant evidence. (2) AMR Containment Strategy Implementation Phase – The formulated AMR containment strategy will be implemented

in selected animal farms and healthcare facilities as the prototypes in each participating country. The data on antimicrobial usage and AMR of the selected study sites in each participating country after implementation of the AMR containment strategy will be collected, analyzed and compared with the baseline data. Measures of the effectiveness of the AMR containment strategy will then be available.

(3) AMR Containment Strategy Dissemination and Advocacy Phase – The AMR containment strategy will be reviewed and revised according to the results from the AMR containment strategy implementation. Recommendations on policies and practices pertaining to AMR containment will be shared with relevant key stakeholders and policy makers who can influence policy decisions to endorse, disseminate and advocate for such policies and practices on AMR containment to the target sectors in each participating country.

The outputs of the project are expected to result in smarter use of antimicrobials in farm animals and in humans and, therefore, reduce the risk of AMR development without adversely affecting profitability from livestock or animal and human health. The experiences from the study sites will be used to influence and change policies and practices on antimicrobial use and AMR containment in selected Asian countries.