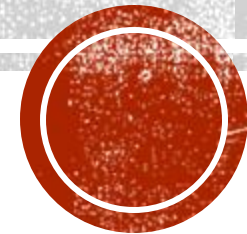


ANTIBIOTIC CONSUMPTION IN COMPANION ANIMALS IN THAILAND



Walasinee Moonarmart DVM, PhD
Mahidol University
Faculty of Veterinary Science

AN INTEGRATED AMU PROJECT IN THAILAND

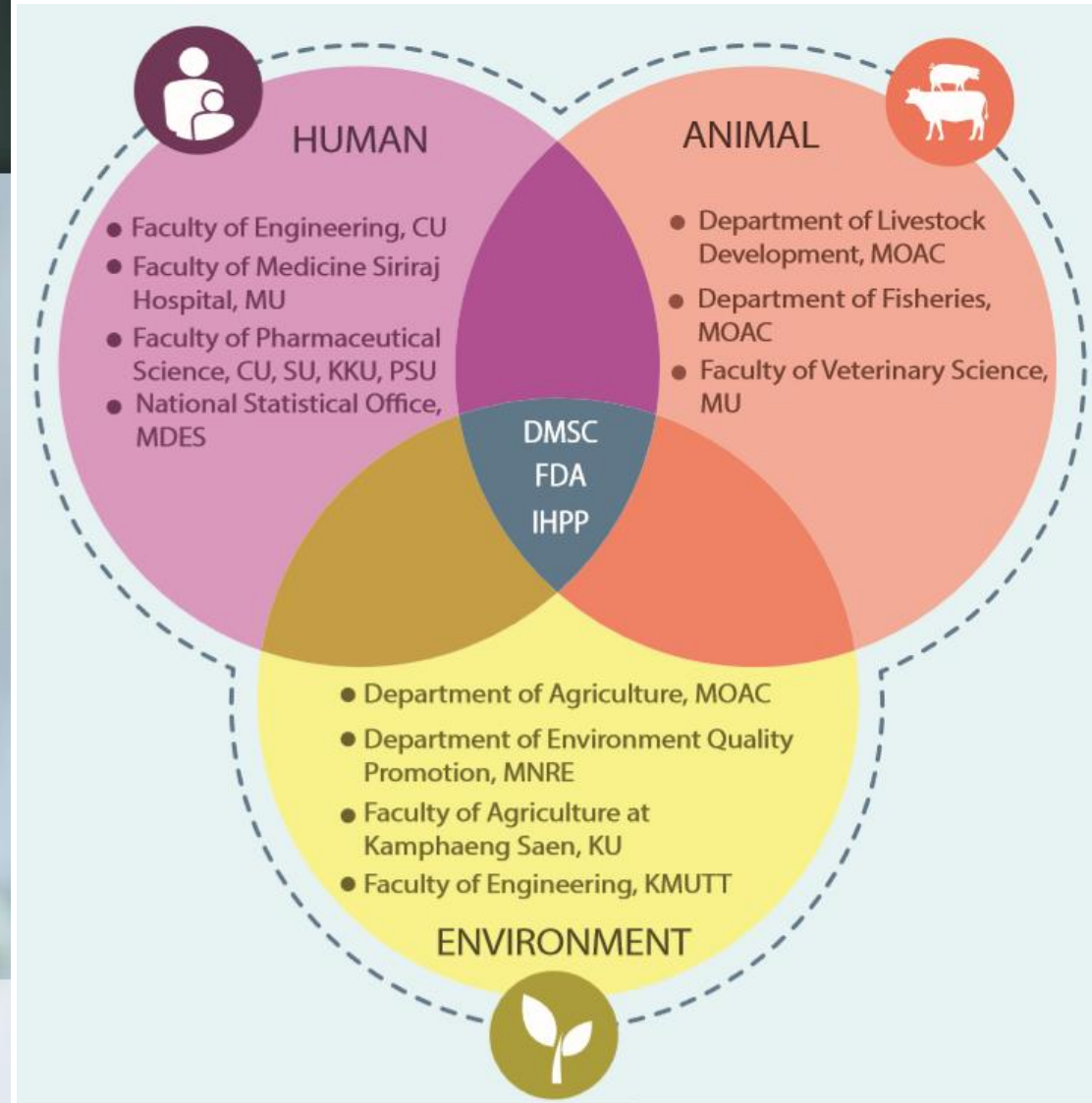




Thai Working Group

on Health Policy and Systems Research
on Antimicrobial Resistance (HPSR-AMR)

International Health Policy Program,
Ministry of Public Health, Thailand



**Multi-Stakeholders Engagement using
One Health Approach**

WHAT DID WE DO IN 2015-2107

1. Monitoring and evaluation the National Strategic Plan on Antimicrobial Resistance (NSP-AMR)

ANTIMICROBIAL RESISTANCE IN SOUTH EAST ASIA

BMJ358:Suppl1 | [thebmj](#)

New chapter in tackling antimicrobial resistance in Thailand

Nithima Sumpradit and colleagues describe the experience of Thailand in developing its national strategic plan on antimicrobial resistance and highlight the need for sustained political commitment and multisectoral collaboration

2. Research and development program on AMR

Thailand SAC

Six strategies for tackling AMR

Goals

Ultimate outcomes

Strategy 6
Governance mechanisms to implement and sustain AMR actions

Strategy 1
AMR surveillance using One Health approach

Strategy 3
Infection prevention and control, and antimicrobial stewardship

Strategy 2
Regulation of antimicrobial distribution

Strategy 5
Public awareness on AMR, and appropriate use of antimicrobials

Strategy 4
AMR containment, and antimicrobial use in agriculture and animals

50% reduction of AMR morbidity

20% reduction of antimicrobial consumption in humans

20% increase in public awareness on AMR and antimicrobial use

30% reduction of antimicrobial use in animals

Country capacity addressing AMR achieves score 4 of JEE tool

Stable or decreasing trends of AMR
Decreasing health, and economic burden related to AMR

Note: strategy 6 facilitates, and harmonises strategies 1-5 implementation. It also connects with Royal Thai Government and WHO Country Cooperation Programme for evaluation of NSP-AMR, and research and development to enhance effective implementation of strategic plan

RESEARCH AND DEVELOPMENT PROGRAM ON AMR

3 Main Streams

1. System analysis: Antibiotic distribution in humans and animals
2. The use of antibiotics for the treatment of Greening Disease in citrus
3. Antibiotics consumption in the companion animals



Antibiotic consumption in companion animals in Thailand

PROJECT OBJECTIVES

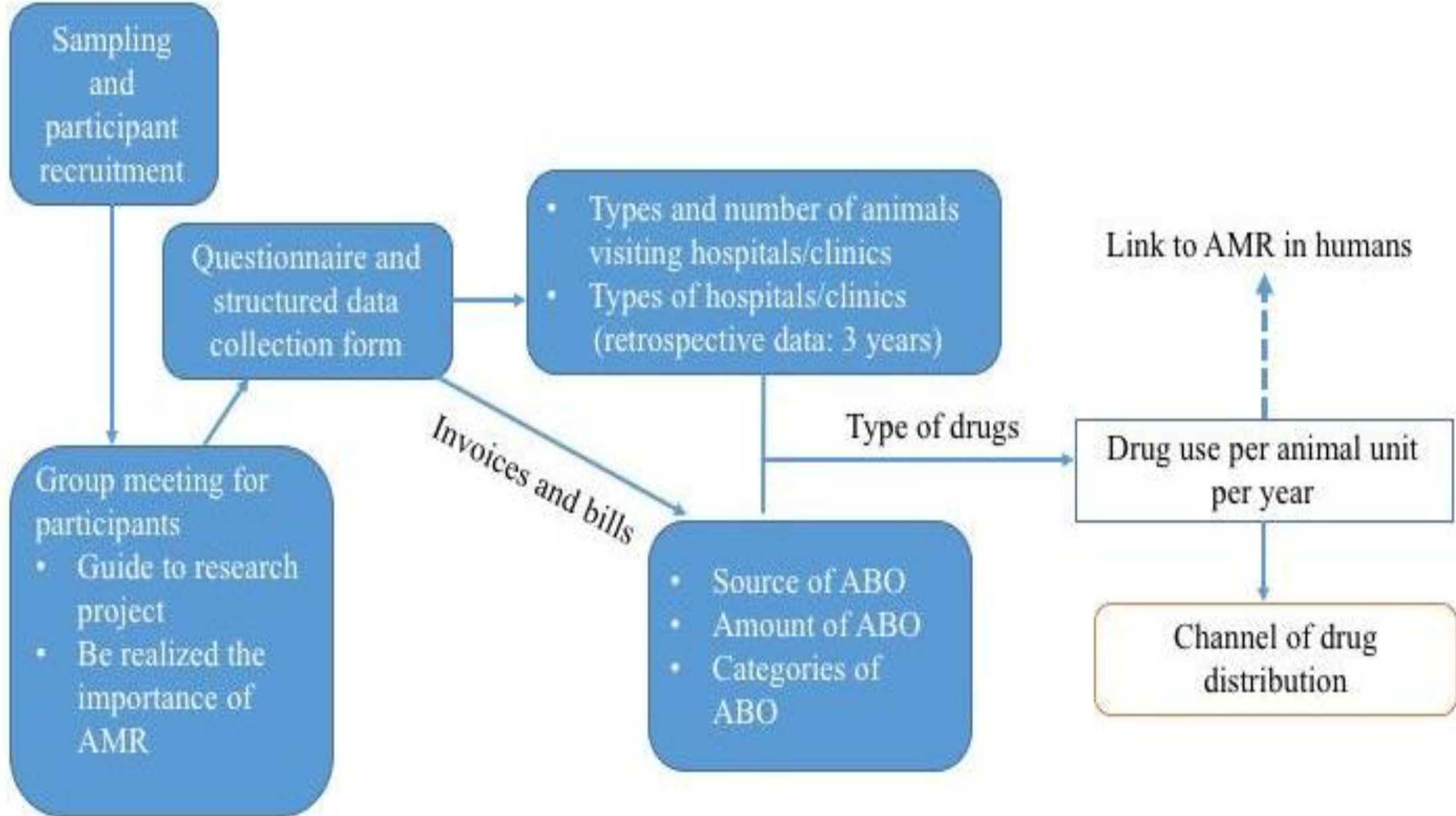
General:

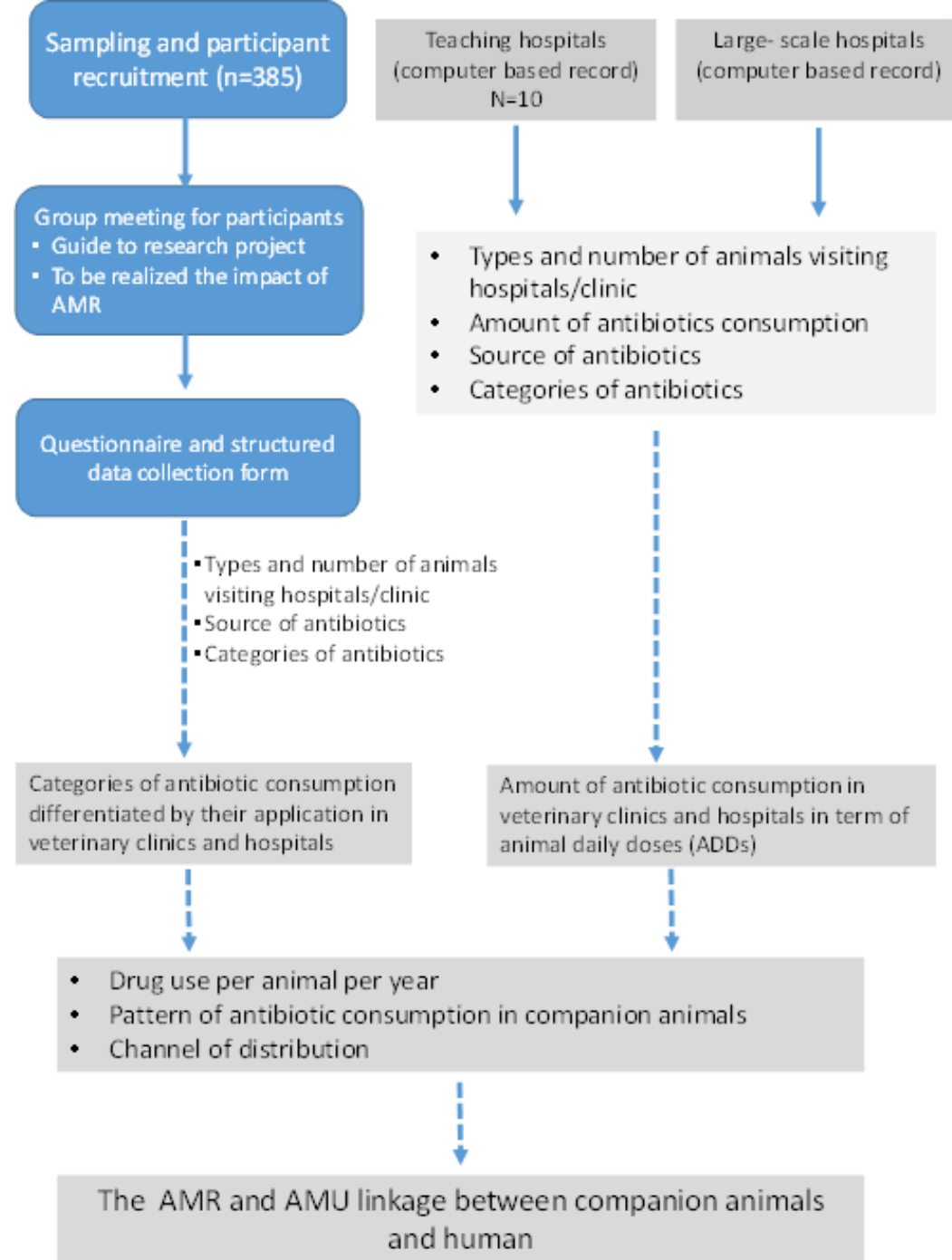
- To explore antibiotic consumption in companion animals at a national scale, including its types, quantity, and patterns

Specific:

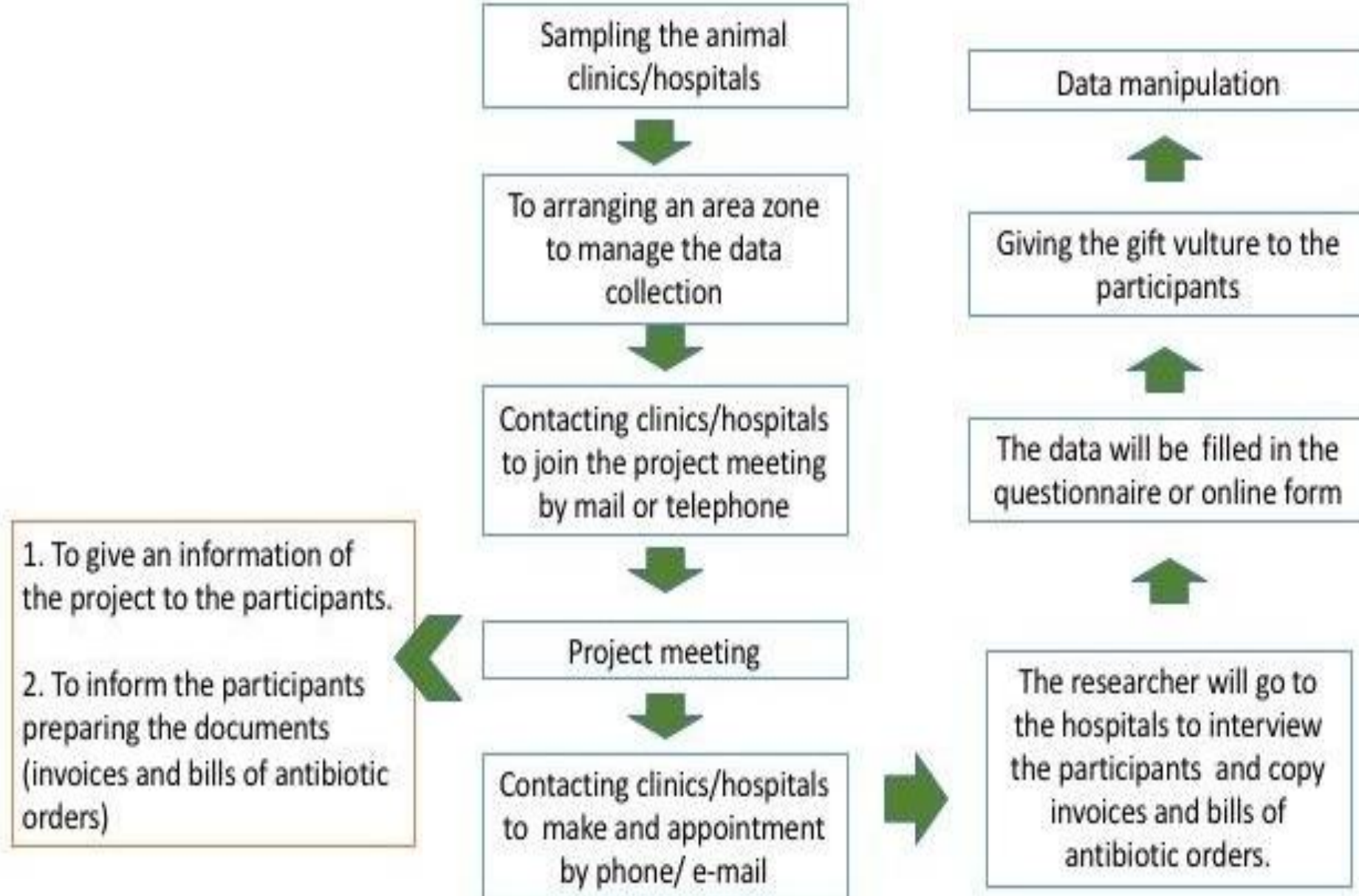
1. To investigate the amount of antibiotic consumption in veterinary clinics and hospitals in term of animal daily doses (ADDs)
2. To determine categories of antibiotic consumption differentiated by their application in veterinary clinics and hospitals

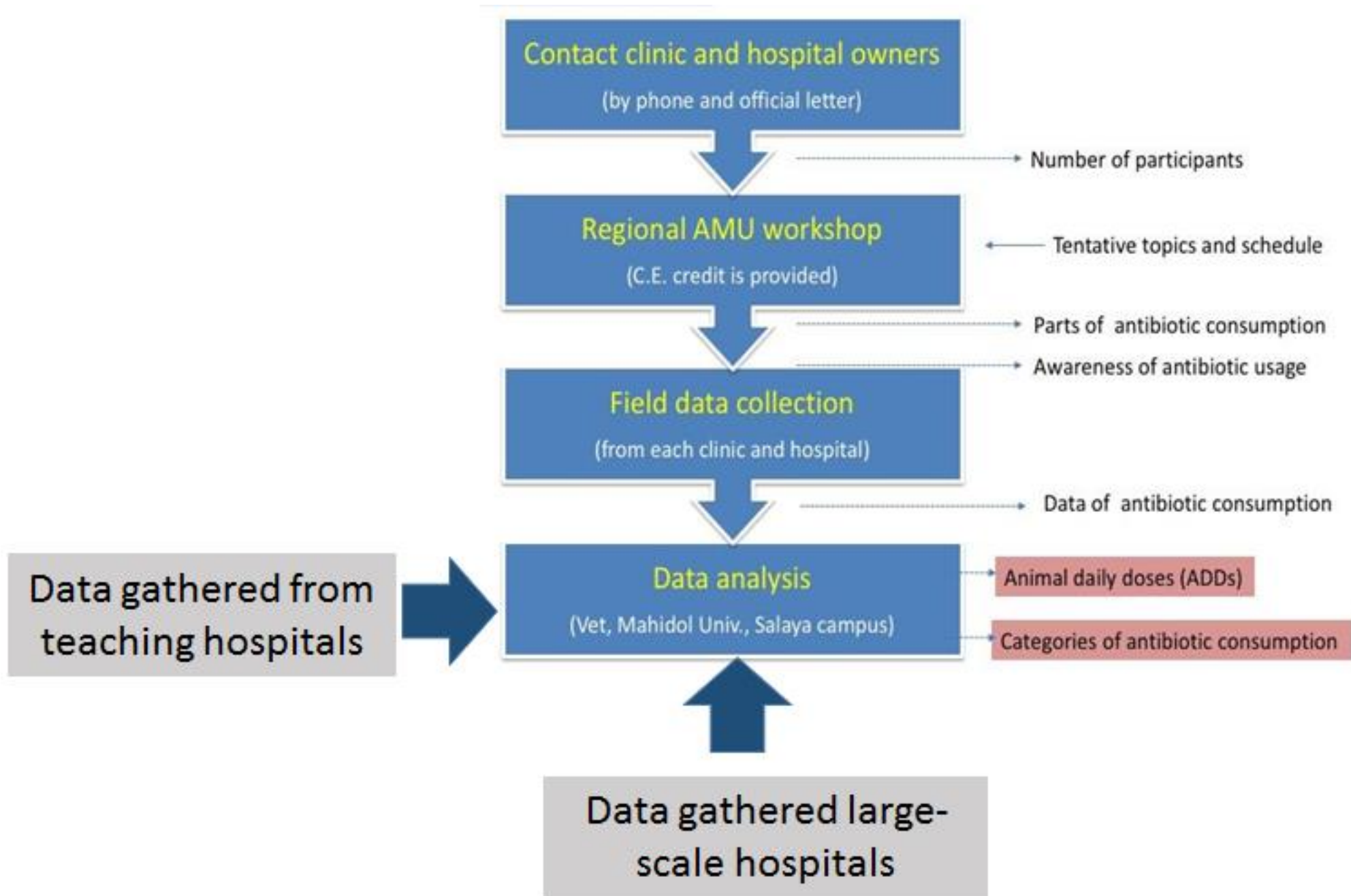
CONCEPTUAL FRAMEWORK





FIELD DATA COLLECTION



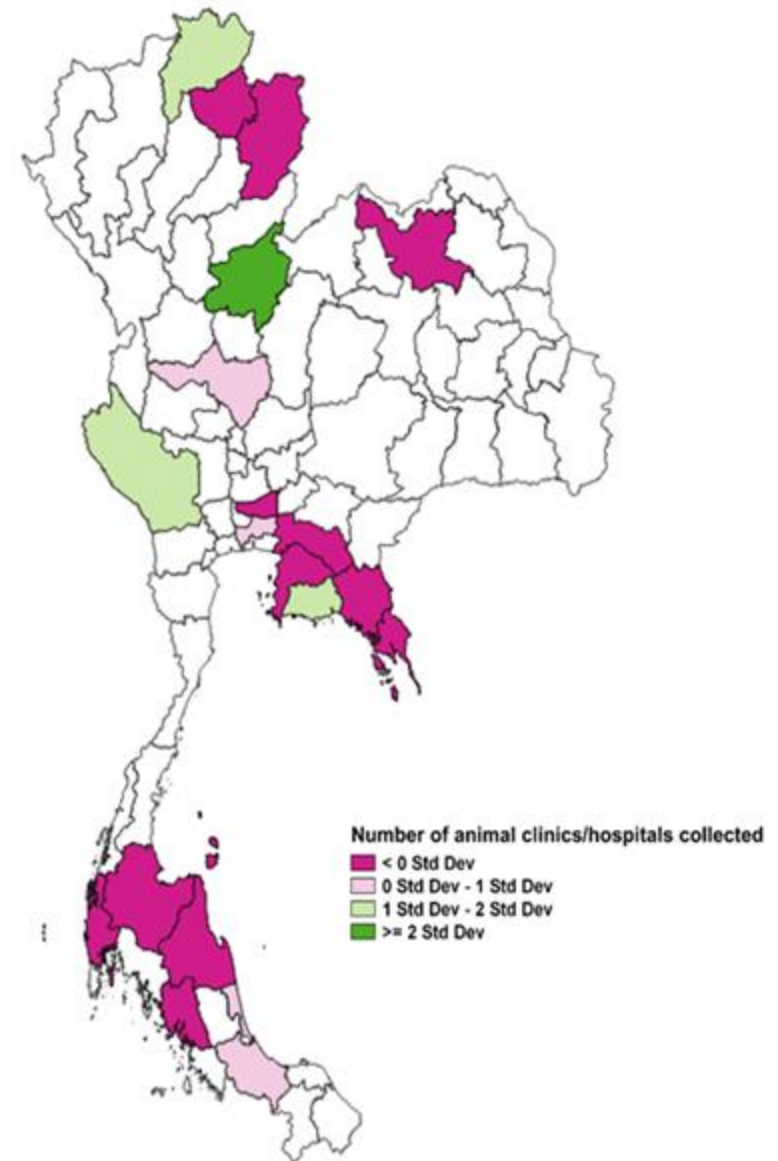


RESPONSE FROM EACH GEOGRAPHIC REGION

(UPDATED: 30 MARCH 2018)

Response rate ~ 20-60%

Province	No. of feedback questionnaires
Eastern	30 (21.58%)
Central	66 (47.48%)
Northern	23 (16.55%)
Northeastern	1 (0.7%)
Southern	19 (13.67%)
Total	139 (100%)



LIMITATIONS

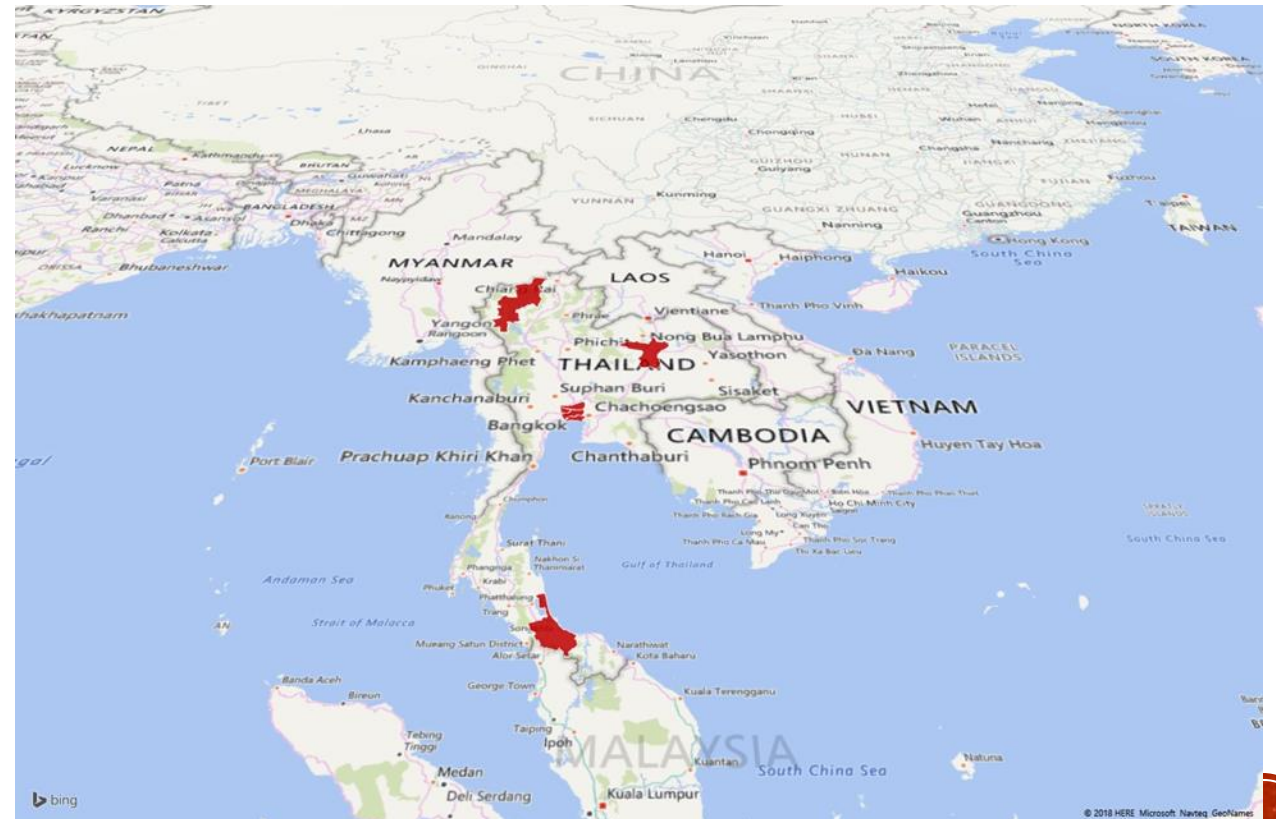
- ❧ Some respondents ignored to keep handed documents resulting in the waste of time in contacting them again.
- ❧ Some respondents were not available to complete our questionnaire due to the overwhelmed animal cases in their facilities.
- ❧ Some of targeted clinics/hospitals were uncontactable. We needed to exclude them from the list.



TO INVESTIGATE THE AMOUNT OF ANTIBIOTIC CONSUMPTION IN VETERINARY CLINICS AND HOSPITALS IN TERM OF ANIMAL DAILY DOSES (ADDS)

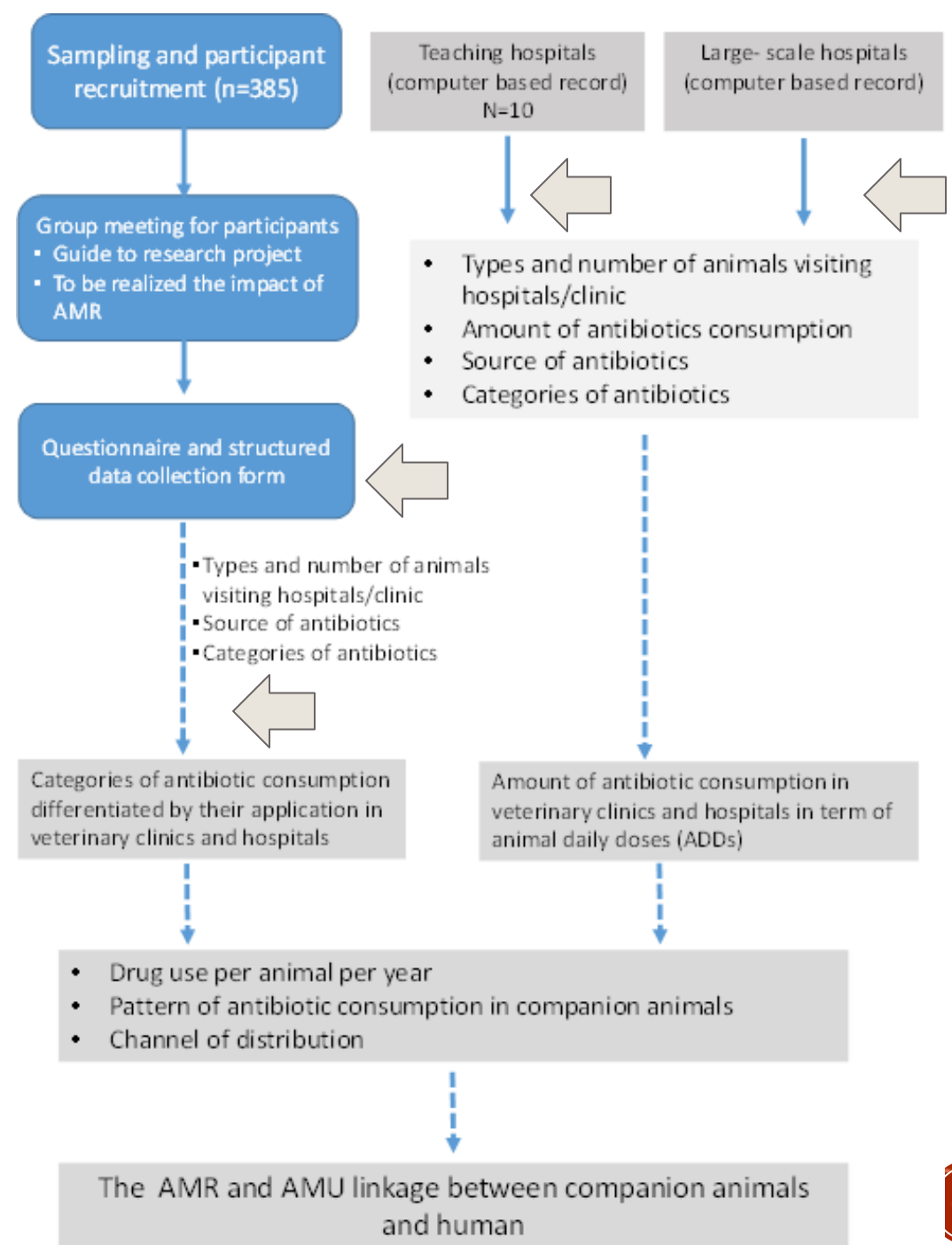
The large-scale hospitals as well as teaching hospitals, which equipped with computer-based inventory and patient record management system, are purposively selected.

- Northern - Chiang Mai
- Central - Bangkok and its suburbans
- Northeastern - Khon Kaen
- Southern - Songkhla



FURTHER PLAN (NEXT 2 MONTHS)

- 🔗 Complete data collection by questionnaires from veterinary clinics/hospitals in our contact list.
- 🔗 Collect data from large-scale hospitals and teaching hospitals.
- 🔗 Clean and analyse the obtained data.



UPDATE SINCE 2015

Thai Working Group on HPSR-AMR

- 7 International publications
- 4 National publications
- 1 Policy brief
- 2 Technical briefs
- 2 Posters
- 1 Brochure



Short Communication

Implementing national strategies on antimicrobial resistance in Thailand: potential challenges and solutions

A. Sommanustweechai^{a,*}, V. Tangcharoensathien^a, K. Malathum^b,
N. Sumpradit^c, N. Kiatying-Angsulee^d, N. Janejai^e, S. Jaroenpoj^f

Lessons from the field

Antimicrobial resistance: from global agenda to national strategic plan, Thailand

Viroj Tangcharoensathien,^a Wanchai Sattayawutthipong,^b Sukhum Kanjanapimai,^c Wantanee Kanpravidh,^d Richard Brown^e & Angkana Sommanustweechai^a

Research |

Antibiotic distribution channels in Thailand: results of key-informant interviews, reviews of drug regulations and database searches

Angkana Sommanustweechai,^a Sunicha Chanvatik,^b Varavoot Sermsinsiri,^c Somsajee Sivilaikul,^d Walaiporn Patcharanarumol,^b Shunmay Yeung^a & Viroj Tangcharoensathien^b



Food and Agriculture
Organization of the
United Nations



World Health
Organization



Mahidol University
Wisdom of the Land

Thank you for your attention

Any questions?

