

One Health platforms and regulations in Southeast Asia

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INTRODUCTION

The One Health approach emphasizes the interconnectedness of human, animal, and environmental health, recognizing that addressing complex health challenges requires collaboration across disciplines and sectors. In Southeast Asia, this approach has gained momentum as countries work to develop and implement strategies that promote health security through coordinated actions.

METHODS

Literature Review: Information was collected from sources such as Google, official websites of WHO, FAO, WOA, UNEP, and national ministries in Southeast Asia. Reports like Joint External Evaluation, National Action Plans for Health Security, and National Bridging Workshop reports were also reviewed.

Key Informant Interviews: We conducted 5 interviews with One Health experts. All data was analyzed for alignment with international frameworks from WHO and FAO

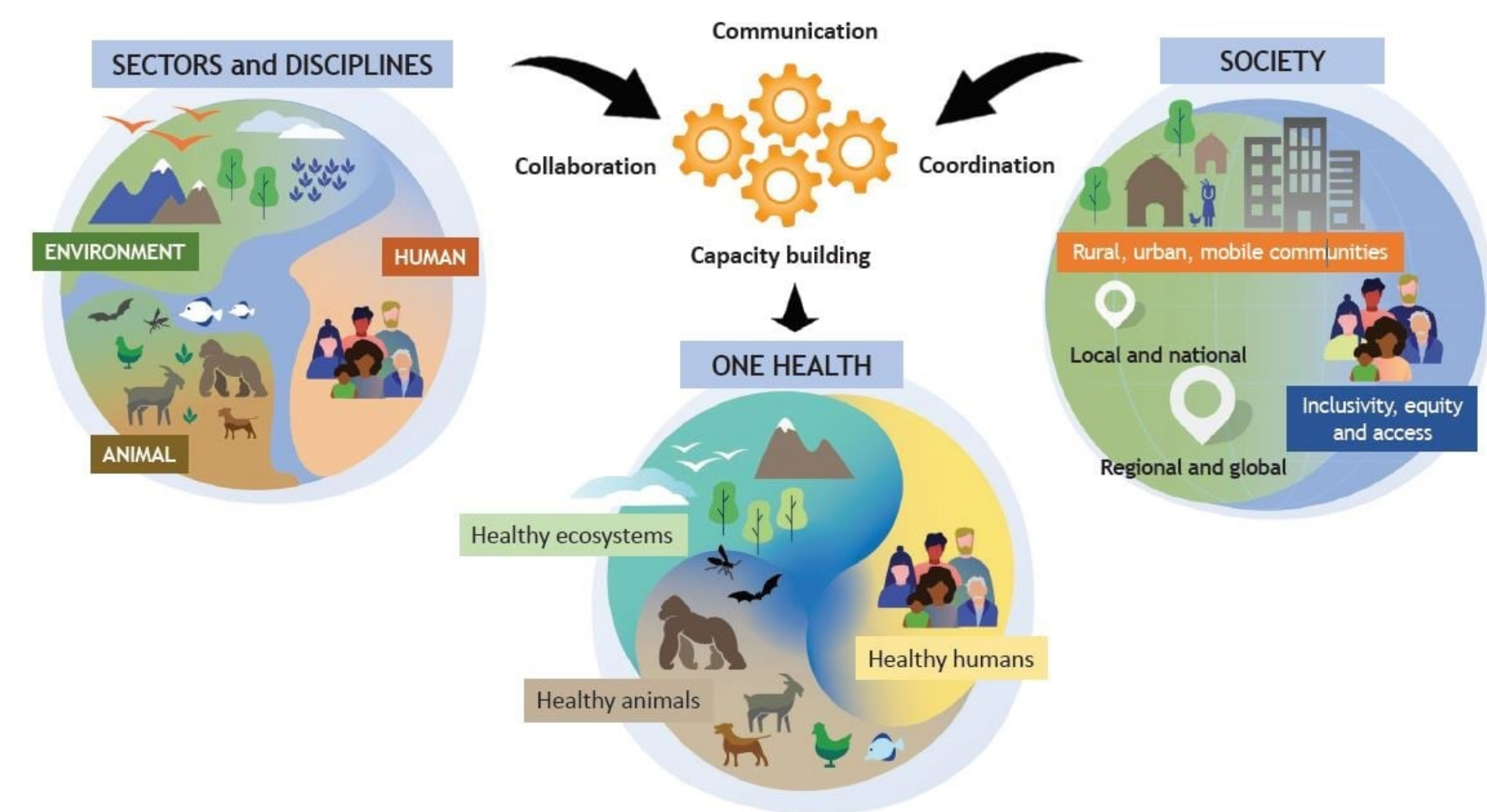


Figure 1: One health concept

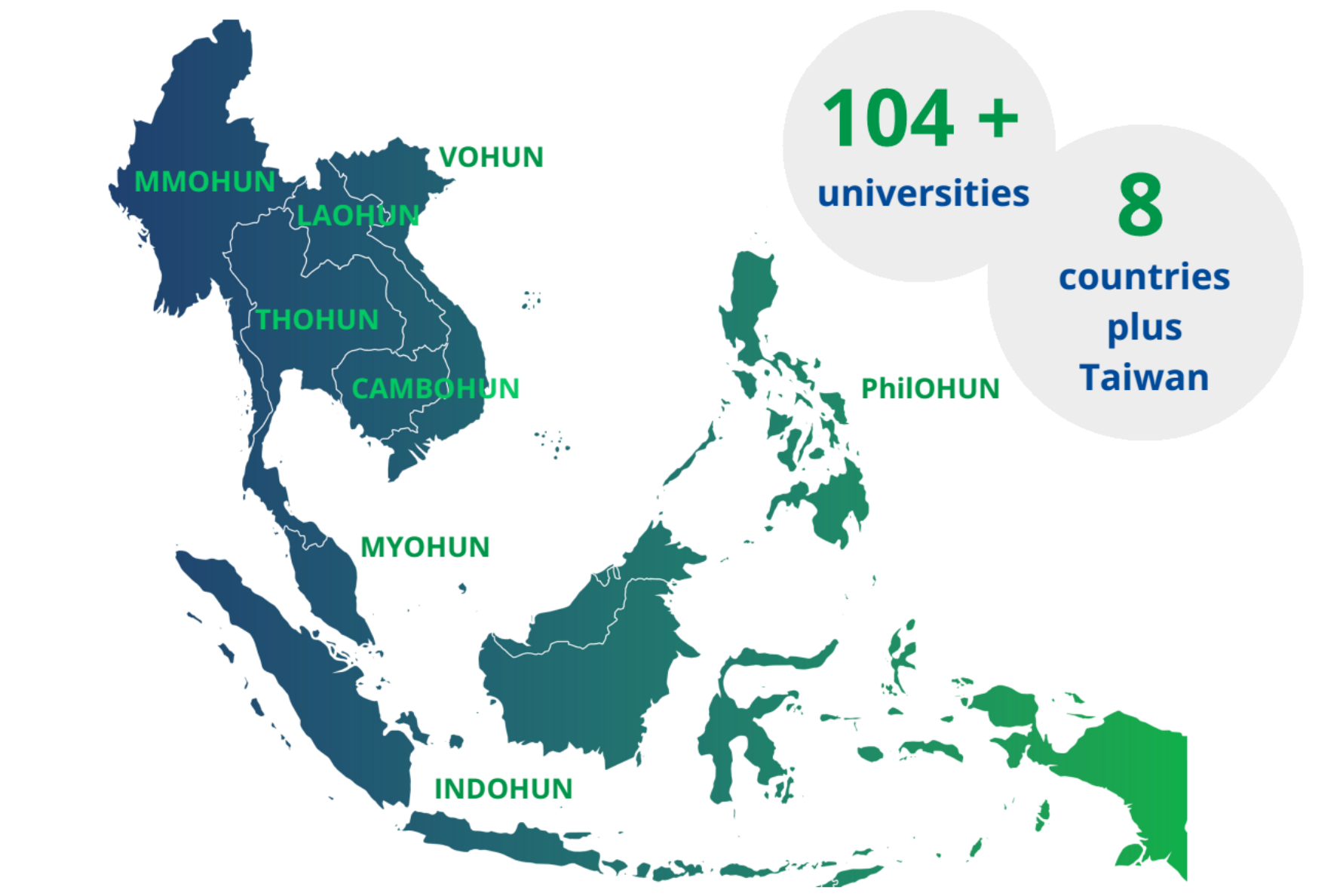
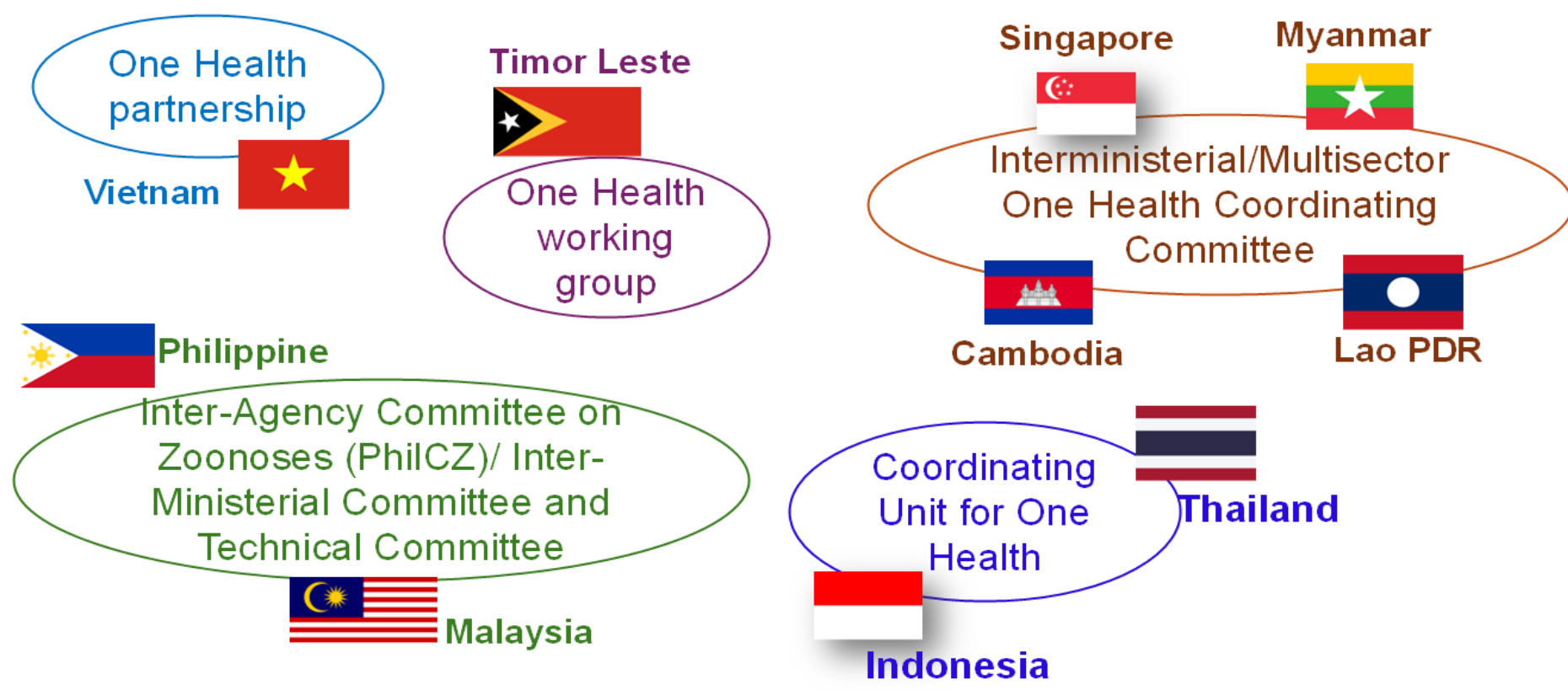


Figure 2: Southeast Asia One Health University Network

Objectives

1. Describe the current status of One Health platforms, strategies, action plans, and regulations across the Southeast Asia region.
 2. Identify gaps and considerations to improve the implementation of One Health initiatives in Southeast Asia.
- The findings presented here offer a comprehensive overview of regional efforts, highlighting progress and opportunities for enhancing the One Health approach to address the region's health and environmental challenges.



One Health operation Mechanism in SEA: Almost countries has form of national One Health coordination mechanism, which take different forms but cover similar areas (AMR, Zoonotic diseases, food safety). In some countries, OH is coordinated by an extant OH committee or working group, whereas other nations have a OH plan that a management group may not permanently support.

One Health network in SEA:

1. The Southeast Asia One Health University Network (SEA OHUN) focuses on strengthening the One Health workforce through education, research, and training.
2. The One Health Network Southeast Asia, funded by the EU, fosters collaboration among research projects to improve surveillance and response to emerging health threats.
3. Each country in Southeast Asia has also developed its own national One Health networks, involving governments, academic institutions, and NGOs to advance One Health initiatives

Some challenges

- * Limited financial resources to support sustainable implementation.
- * Unclear or fragmented coordination structures across sectors and agencies.
- * Dependence on external funding for program activities and continuity.

CONCLUSIONS

To improve OH implementation, SEA must enhance multi-sector collaboration, harmonize regulations, invest in capacity building, and strengthen surveillance and data sharing. Addressing these gaps will improve the region's ability to manage health threats at the human-animal-environment interface.

Acknowledgements

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In Southeast Asia, each country has established a One Health coordination mechanism for national action programs. While there is no single regional framework, several initiatives, policies, and networks support the One Health approach to address health challenges holistically.

Regional strategy and framework emphasize applying OH approach to address health issues

1. ASEAN strategic framework to combat Antimicrobial Resistance through One Health approach (2019 – 2030)
2. ASEAN Regional strategy for preventing transmission of zoonotic diseases from wildlife Trade 2022
3. Strategic framework for action for strengthening surveillance, risk assessment, and field epidemiology for health security threats in the WHO South-East Asia region
4. ASEAN Leaders' Declaration on One Health Initiative

Table 1: Priority zoonotic diseases of countries in SEA which promote apply OH approach in investigating and controlling

	Brunei	Cambodia	Indonesia	Lao	Malaysia	Myanmar	Philippine	Singapore	Thailand	Timor	Vietnam
Avian influenza											
Salmonella											
Rabies											
E. coli O157											
Anthrax											
Leptospirosis											
Brucellosis											
Streptococcus suis											
Trichinellosis											
Nipal											
Japanese encephalitis											
Tuberculosis											
Bovine spongiform encephalopathy/variant Creutzfeldt-Jakob											
Rift Valley fever											
Q fever											
Hantavirus											
Filariasis and zoonotic malaria											
Ebola Reston											

Table 2: National Action Plan/ Strategic framework applying OH approach in Southeast Asia by countries

Country	Name of document	Year	Country	Name of document	Year
Brunei	Antimicrobial Resistance National Action Plan	2019 - 2023	Cambodia	Multi-Sectoral Action Plan on Antimicrobial Resistance in Cambodia	2019 - 2023
Indonesia	National Action Plan on Antimicrobial Resistance Indonesia	2017- 2019	Singapore	Singapore's One Health Framework	2012
	The National Action Plan on Antimicrobial Resistance control year	2020 - 2024		National Strategic Action Plan on AMR	2017
Lao	National Strategic Plan on Antimicrobial Resistance in Lao PDR	2019 - 2023		The Vietnam One Health Strategic Plan for Zoonotic Diseases	2016 - 2022
Malaysia	Malaysian Action Plan on Antimicrobial Resistance (MyAP -AMR)	2017 - 2021	Vietnam	Master Plan for the One Health Partnership Framework for Zoonoses	2021 - 2025
	Malaysian Action Plan on Antimicrobial Resistance (MyAP -AMR)	2022 - 2026		National Action Plan for Combating Drug Resistance	2013 - 2020
	Malaysia Strategy for Emerging Diseases and Public Health Emergencies (MySED) II Workkplan	2017 - 2021		National Strategy for Prevention and Control of Drug Resistance in Vietnam for the period of 2023 - 2030 with a vision towards 2045	2023 - 2030
Myanmar	National One Health strategic framework and action plan of Myanmar	2016- 2019	Philippines	Philippines' National Strategic Plan on Zoonoses	2023 - 2028
	National One Health Statgic Framework and Action Plan of Myanmar	2019 - 2023		The Philippine Action Plan to Combat Antimicrobial Resistance - One Health approach	2015 - 2020
	Myanmar National Action Plan for Containment of Antimi-crobial Resistance	2017 - 2022		The Philippine Action Plan to Combat Antimicrobial Resistance, One Health approach	2019 - 2023
Thailand	Thailand's National Strategic Plan for Emerging Infectious Disease - Preparedness, Prevention and Response	2013 - 2016	Timor Leste	Action Plan for Timor-Leste One Health Strategic Framework	2018 - 2022
	Thailand National Strategic Plan for Emerging Infectious Diseases	2017 - 2021		National Action Plan on Antimicrobial Resistance: Timor-Leste	2017 - 2020
	Thailand's National Strategic Plan on AMR	2017 - 2021			