

Mapping Extent of Curricular Integration of One Health Related Concepts in Basic Education in Southeast Asia

22-23 June 2023

The World Organisation for Animal Health (WOAH) activities on One Health in the Southeast Asia

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Sub-Regional Representation for South- East Asia (WOAH SRR SEA)

22 June 2023– Bangkok, Thailand



World
Organisation
for Animal
Health

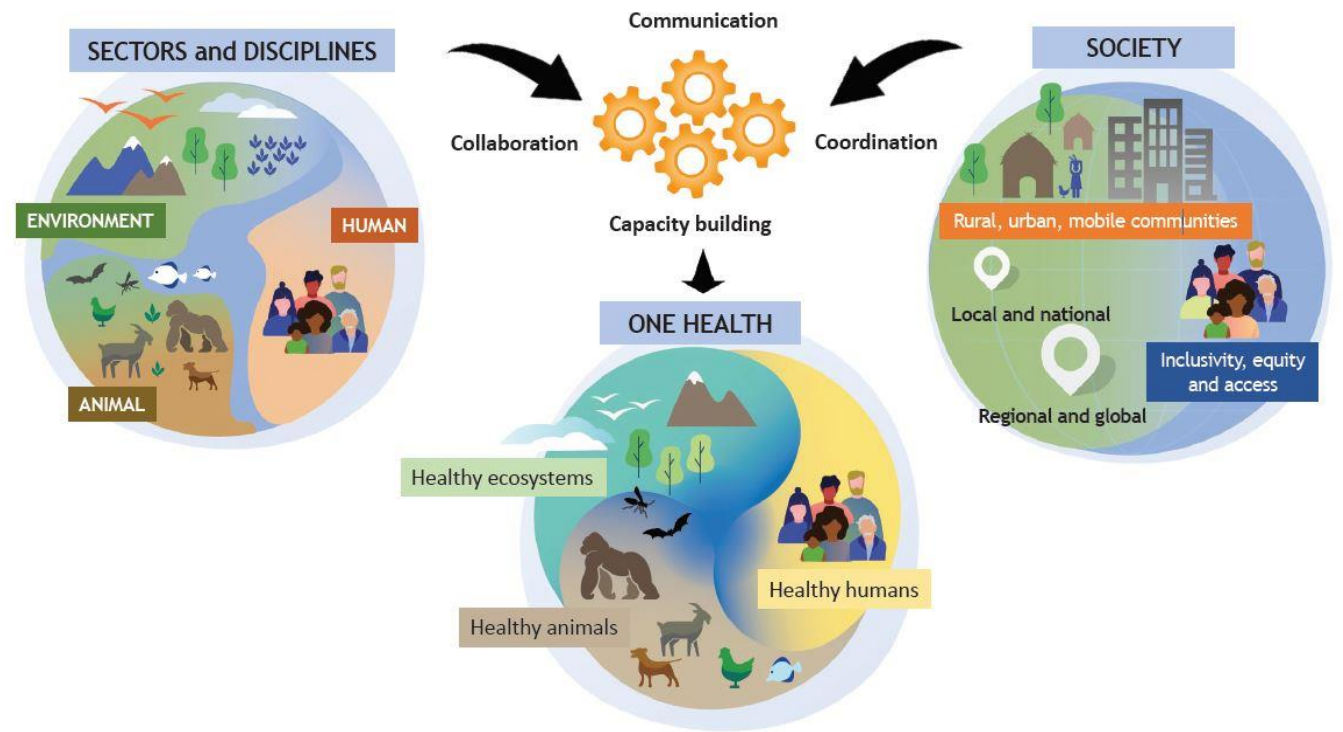
Organisation
mondiale
de la santé
animale

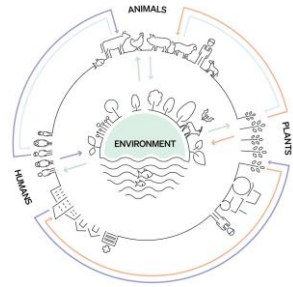
Organización
Mundial
de Sanidad
Animal

Regional One Health (OH) activities

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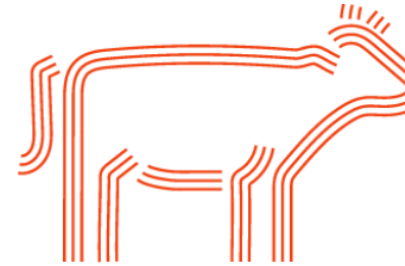
- Introduction to OH
- OH issues in the region
- WOAHA's One Health actions at the global level
- WOAHA Regional activities on One Health, Rabies, AMR, Food Safety, Neglected Parasitic Zoonoses, Wildlife Health
- WOAHA activities on veterinary education





World Health

- 60% of pathogens that cause human diseases originate from domestic animals or wildlife.
- 75% of emerging human pathogens are of animal origin.
- 80% of pathogens that are of bioterrorism concern originate in animals.



Food Security

- Each night, **some 811 million people** go to bed hungry
- **More than 70%**^[1] additional animal protein will be needed to feed the world by 2050
- Meanwhile, **more than 20%** of global animal production losses are linked to animal diseases.



Environment

- Humans and their livestock are more likely to encounter wildlife when **more than 25%** of an original forest cover is lost. Some of these contacts may increase the likelihood of disease transmission.
- Human actions have severely altered 75% of terrestrial environments and 66% of marine environments.

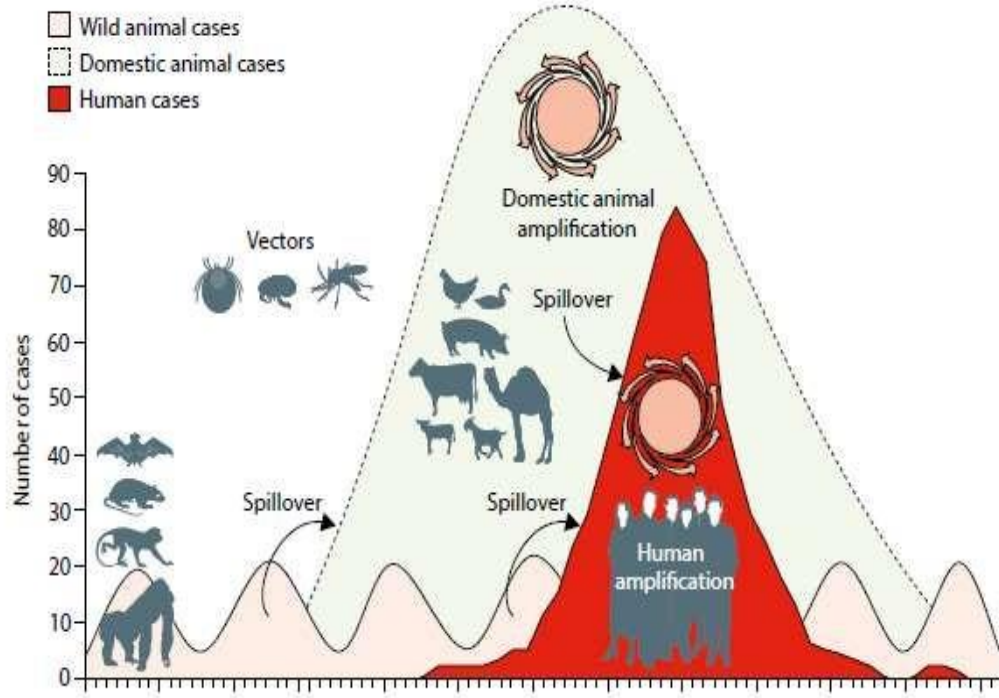


Economy

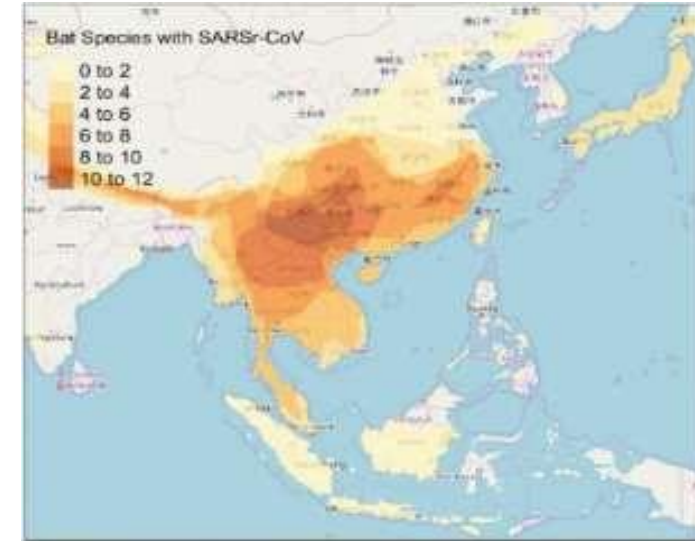
- Animal diseases pose a direct threat to the **incomes** of rural communities that depend on livestock production.
- **More than 75%**^[2] of the billion people who live on less than \$2 per day depend on subsistence farming and raising livestock to survive.

Bat-CoV risk is regional, not restricted to China

Transmission of zoonotic diseases and amplification in people



Source: Karesh et al. (2012)²⁵



The Manhattan Principles

As defined during the meeting titled

Building Interdisciplinary Bridges to Health in a "Globalized World" held in 2004

Background




In September 2004, WCS convened health experts from around the world to discuss the movements of diseases among human, domestic animal, and wildlife populations. Held at Rockefeller University in New York City, the symposium set priorities for an international, interdisciplinary strategy for combating threats to the health of life on Earth.




**Contributing to
One World, One Health***

A Strategic Framework for Reducing Risks of
Infectious Diseases at the
Animal-Human-Ecosystems Interface

14 October 2008

Consultation Document
Produced by:







The FAO-OIE-WHO Collaboration

Sharing responsibilities
and coordinating global activities
to address health risks at the
animal-human-ecosystems interfaces

A Tripartite Concept Note

April 2010

OIE-WHO-FAO Tripartite meeting: Mexico City, November 2011
High Level Technical Meeting to Address Health Risks at the
Human-Animal-Ecosystem Interface

Three 'flagship' topics:

- Rabies
- Antimicrobial resistance (AMR)
- Zoonotic influenza








The Tripartite's Commitment

Providing multi-sectoral,
collaborative leadership
in addressing health challenges

October 2017










● JOINT PRESS RELEASE

UN Environment Programme joins alliance to implement One Health approach





18 March 2022

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WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, promoting our future
Animal Diseases
African Swine Fever
COVID-19
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Who we are
What we do
What we offer
Media
OIE - WAHS

FAO/OIE/UNEP/WHO One Health High Level Expert Panel (OHHLEP)

- Hotspot for emerging diseases – avian influenza, SARS, Nipah virus, COVID-19, etc.
- High burden neglected zoonoses (rabies, brucellosis, NPZs)
- Highest consumer worldwide of antimicrobials in animals (6th WOAHA AMU report)
- Food safety issues

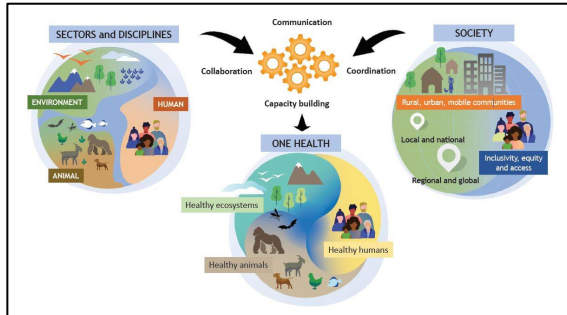
Determinants

- Unprecedented changes in agriculture and livestock production landscape
- Loss of forests and wildlife habitats
- Illegal wildlife trade, traditional "wet" markets
- Weak coordination, especially with environment/wildlife sectors, in many countries
- Functional and sustainable One Health coordination – a rarity
- Limited capacity of animal and wildlife health sectors

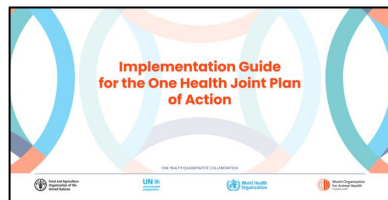
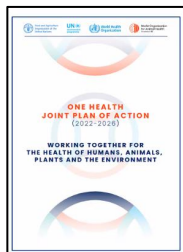
Through the OH Quadripartite Collaboration and its regional body (Asia-Pacific Regional Quadripartite)

Through its own mandate of improving animal health and welfare worldwide

SUSTAINABLE DEVELOPMENT GOALS



Asia-Pacific Regional Quadripartite



WOAH Resolution N.31/2021 "How can the World Organisation for Animal Health support Veterinary Services to achieve One Health resilience"



WOAH Resolution n.29/2022 *Contribution of the World Organisation for Animal Health and its Members to the negotiations related to an international instrument for pandemic prevention, preparedness and response*

Through the OH Quadripartite collaboration





Food and Agriculture Organization of the United Nations



World Health Organization



World Organisation for Animal Health
Founded as OIE

GLOBAL QPT

Global QPT Executive + Global QPT Secretariat

Regional One Health QPT Coordination Group for Asia and the Pacific

INTERNAL REGIONAL PARTNERS

- FAO
- WOAH (RRAP AND SRR-SEA)
- WHO (SEARO AND WPRO)
- UNEP

ANTIMICROBIAL RESISTANCE

Wildlife health

RABIES

Others: FOOD SAFETY/NEGLECTED TROPICAL DISEASES/ZOONOTIC INFLUENZA

COUNTRIES IN ASIA PACIFIC

- FAO/WOAH/WHO/UNEP focal points
- Ministries of Health, Agriculture, Environment etc.
- Other national stakeholders

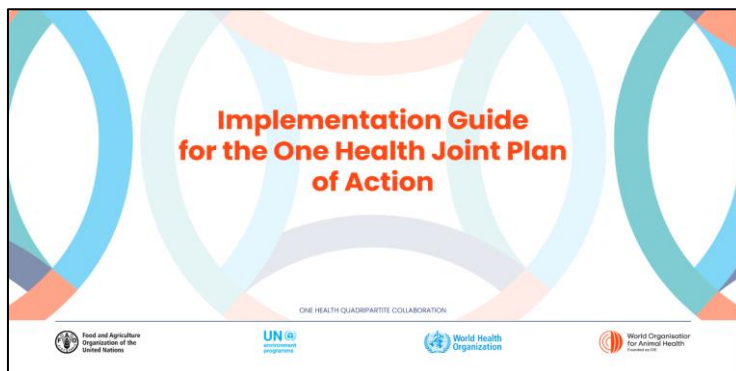
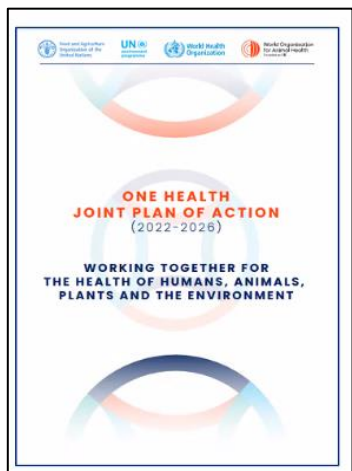
EXTERNAL REGIONAL PARTNERS

- Developments Banks
- Developments agencies
- Other donors
- Other agencies

Secretariat
WOAH
held
from July
2020 - Feb
2023



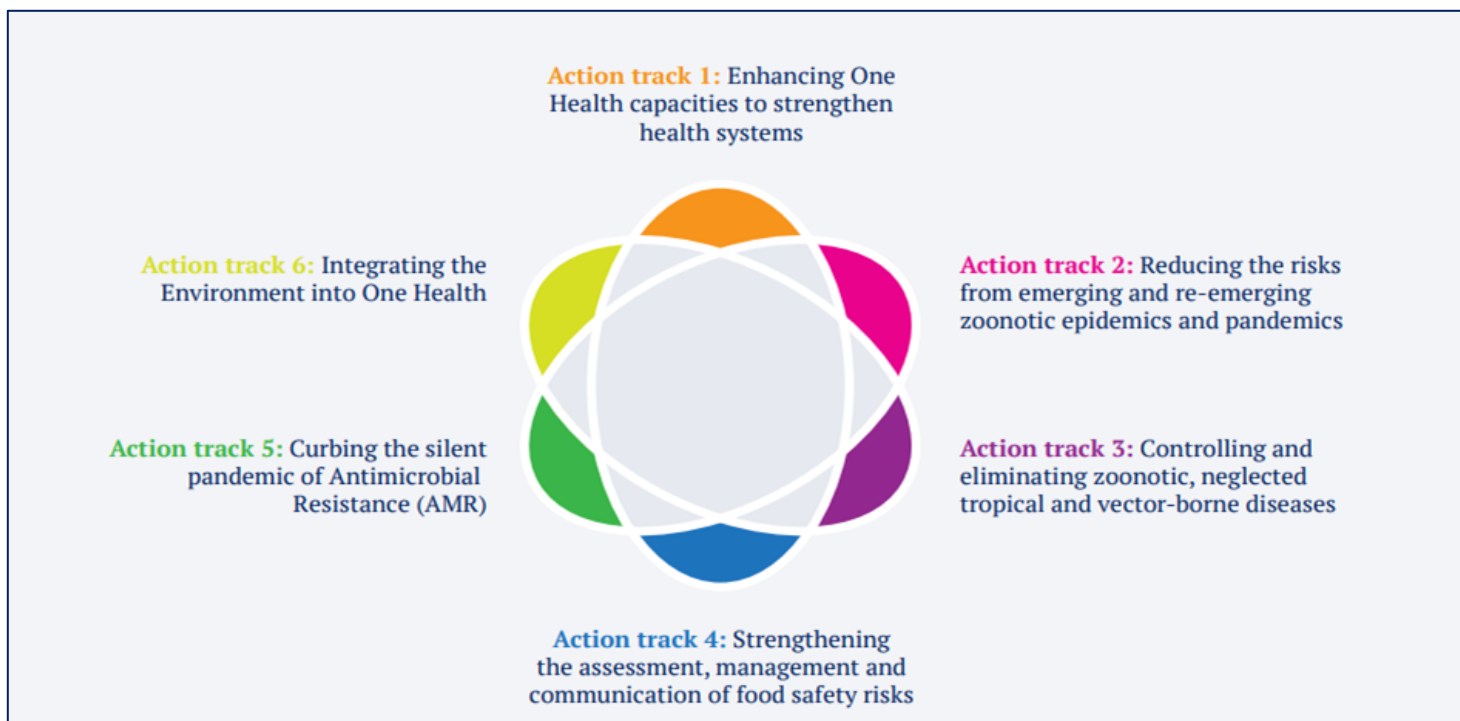
Countries' support to implement the 6 Action Tracks of the OH JPA



Quadripartite and Partners Meeting on OH and OH JPA, 1-2 March 2023, Bangkok

Key outcomes:

- Country level implementation
- At regional level: the Quadripartite should support an informal platform built on existing ones to share information and good practices on cross-sectoral collaboration to improve communication and collaboration among OH stakeholders and countries

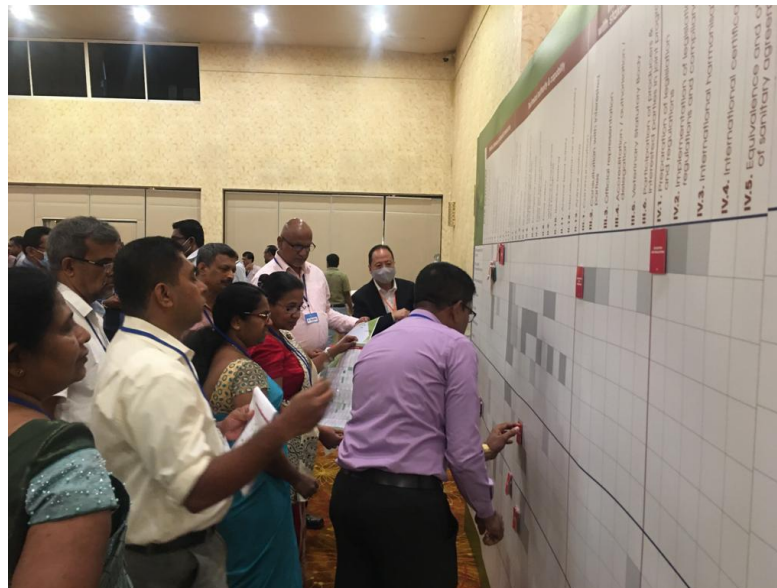


Upcoming event:

Workshop on QPT One Health Joint Plan of Action implementation with Members (4-8 September 2023, Bangkok)



A. One Health Integration (PVS-IHR)



A One Health road-map to improve intersectoral collaboration among human, animal, and environmental/wildlife sectors

Mongolia (June 2022), Thailand (July 2022), Philippines (August 2022), Sri Lanka (Feb. 2023), **more upcoming soon** (Cambodia, Lao PDR, Vietnam...)



The Tripartite Zoonoses Guide (TZG) and the TZG Operational tools (OT)



Food and Agriculture Organization of the United Nations



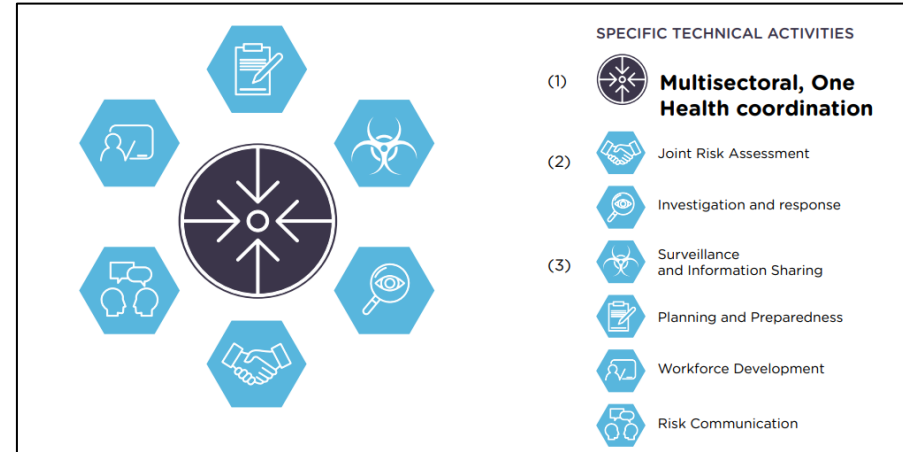
World Health Organization



World Organisation for Animal Health
Founded as OIE

Taking a Multisectoral, One Health Approach:

A Tripartite Guide to Addressing Zoonotic Diseases in Countries



Multisectoral Coordination Mechanisms Operational Tool

An operational tool of the Tripartite Zoonoses Guide

Surveillance and Information Sharing Operational Tool

An operational tool of the Tripartite Zoonoses Guide

Joint Risk Assessment Operational Tool (JRA OT)

An Operational Tool of the Tripartite Zoonoses Guide
Taking a Multisectoral, One Health Approach:
A Tripartite Guide to Addressing Zoonotic Diseases in Countries

Through improving animal health and welfare





World Organisation for Animal Health
Founded as OIE

Strategic Plan

OIE Seventh Strategic Plan for the period 2021-2025



United Nations
World Health Organization
World Organisation for Animal Health

ONE HEALTH JOINT PLAN OF ACTION (2022-2026)

WORKING TOGETHER FOR THE HEALTH OF HUMANS, ANIMALS, PLANTS AND THE ENVIRONMENT



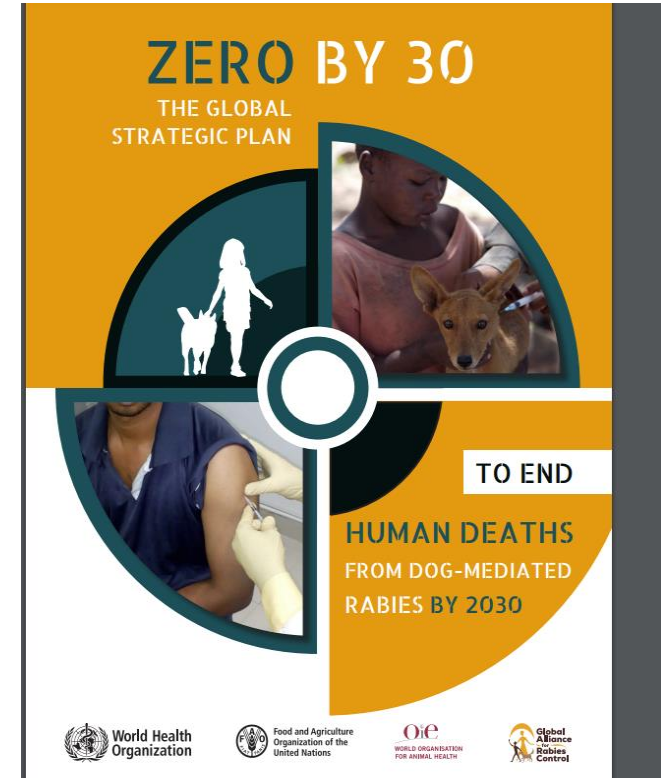
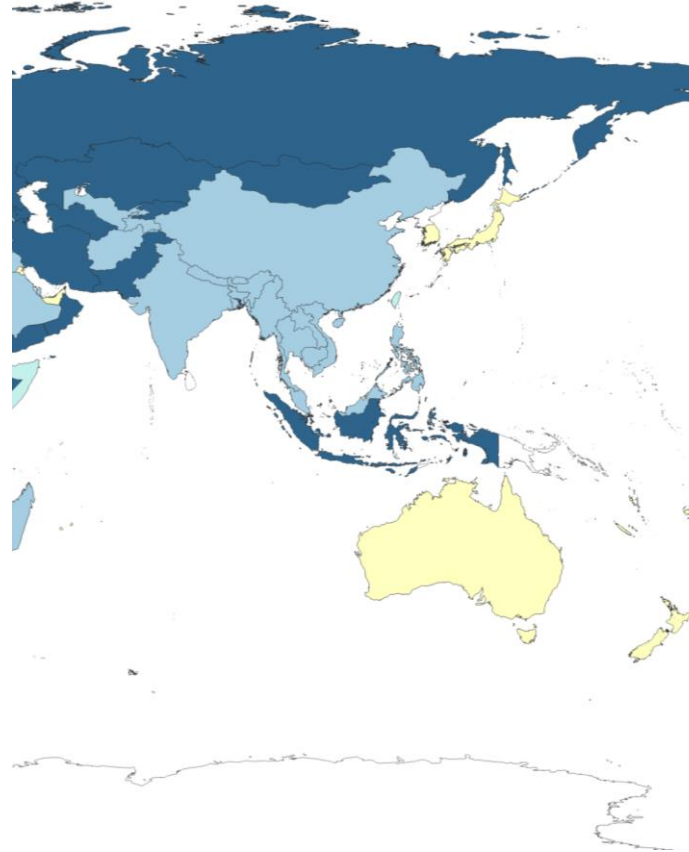
Implementation Guide for the One Health Joint Plan of Action

ONE HEALTH QUADRIPARTITE COLLABORATION

United Nations | UN Environment Programme | World Health Organization | World Organisation for Animal Health

Rabies occurrence

- Present domestic animals and wildlife
- Present domestic animals
- Present wildlife
- Absent
- No information
- No report provided



World Animal Health Information System
data for 2019-2022

- Rabies still endemic
- COVID-19 effect
- No significant progress

At the regional level, WOAHA works with the ASEAN towards the endorsement of a revised updated ASEAN Rabies Elimination Strategy

ASEAN-WOAH Rabies Workshop

Revision of the ASEAN Rabies Elimination Strategy, May 2-4, 2023, Bali, Indonesia



At the national level, WOAHA implements a set of complementary activities to support its Members:

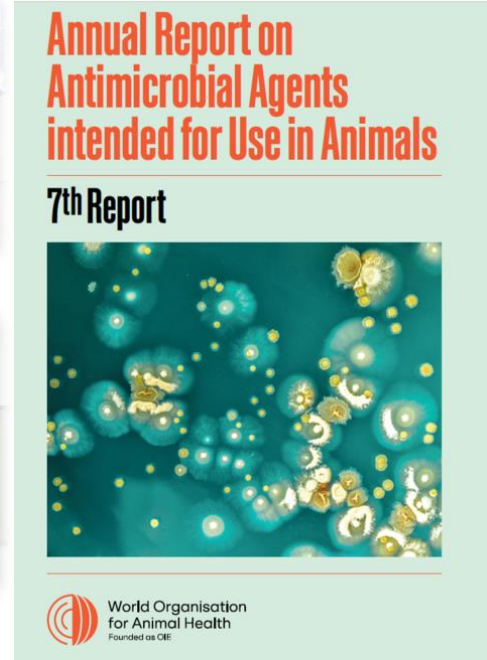
- Providing guidance and technical support to update the national plan against rabies (Cambodia)
- Involving local authorities and city mayors in the fight against rabies (Indonesia)
- Proposing a specific rabies focus to PVS pathway activities: (IHR/PVS and PVS evaluation focus rabies in Indonesia)
- Providing access to the WOAHA Rabies Vaccine Bank upon requests from its Members (Indonesia, Cambodia, Brunei)
- Supporting ORV pilot campaigns (Singapore, Thailand, Cambodia, Myanmar)



Monitoring the use of antimicrobials in animals

8th cycle of AMU data collection (closed on 30 April 2023)

7th report was published in May 2023: <https://www.woah.org/en/document/seventh-annual-report-on-antimicrobial-agents-intended-for-use-in-animals-2/>



Awareness-raising

In-country World Antimicrobial Awareness Week (WAAW) events in Bangladesh, Cambodia, Fiji, Indonesia, Laos, Myanmar



Surveillance and researches

Network of Collaborating Centres and Reference Laboratories

WOAH CC NVAL's webinar & virtual mentorship course (Feb 2023 – 2 weeks) 15 Members from Asia



Capacity building

WOAH network of Veterinary Products Focal points

Regional ANIMUSE Training (in-person, 22-24 Feb 2023, Bangkok)



Working on the quality of veterinary products

Global Information and Alert System of Substandard and Falsified Veterinary products (SFVPs).

WOAH is in the governance and an implementing partner of the AMR MPTF mechanism together with the Quadripartite

- 4 projects currently ongoing in Asia:
 - Indonesia
 - Communication and Advocacy strategy, Developing communication materials, KAP survey – final stage, WAAW Talk Show - completed
 - Media training (May 27, 2023), Awareness training for poultry vets (June)
 - Cambodia
 - Communication materials
 - M&E Training – June 5-7
 - Bangladesh, Mongolia – new projects
 - Governance, Strengthening integrated surveillance, Communications

Antimicrobial Resistance Multi-Partner Trust Fund

Countering antimicrobial resistance with a 'One Health' approach

Global project with several activities focusing on Asia

- Regional ANIMUSE Training (22-24 Feb 2023, Bangkok)
- AMR/AMU Monitoring activities in Laos (on-going)
- Provincial activities in Pakistan (on-going)



- Provincial AMU Workshops Series
- AMR Seminar Series for Vet-students
- Awareness-raising for vets, para-vets, and students
- AM supply chain – Timor Leste (Q4 2023)

The
Fleming Fund

Working together to fight antimicrobial resistance (AMR)

- Quadripartite project supported by the European Union
- Countries included: China, Japan, Indonesia, India, Malaysia, the Philippines, South Korea,

Thailand, and Vietnam

- Activities are yet to be finalised





Awareness raising: Food Safety as a One Health issue

- Regional FAO, WHO, WOAHA, UNEP + WFP collaboration
- **World Food Safety Day:** jointly organised webinar (2020, 2021, 2022); joint leaflet (2022)

Capacity building: Animal production food safety

- Network of national focal points on animal production food safety
- Food safety webinars by WOAHA Collaborating Center for food safety consortium (2023 - planned)
- Feed safety technical trainings by FAMIC, WOAHA Collaborating Center for feed safety (2021, 2023)
- Strengthening Food and Feed Safety laboratory (country request) by ASEAN Food Testing Laboratory

One Health Laboratory Network for SEA (proposed)

- **Networking and Collaboration**
- Regional Public Health Laboratory (RPHL) Network Partners Workshop (15-17 May, 2023)
- Core laboratory consultation Meeting (Q3/23)
- Regional OH Laboratory Network Workshop (Q3/23)
- **Laboratory Capacity Building**
- Regional training: Packaging and shipment of biohazard materials training workshop, by RPHL (17-19 May, 2023)
- In-country technical consultation and training

Awareness raising and development of tools: Prevention and Control of Neglected Parasitic Zoonoses

- Regional FAO, WHO, WOAHA collaboration
- Regional meeting (2018), Webinars (2023)
- Tools: handbooks/guidelines, factsheets, posters, videos targeting different sectors – animal health, human health, food safety, WASH





WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future

OIE WILDLIFE HEALTH FRAMEWORK



The approach Embrace a holistic systems-based approach to One Health to seek solutions that optimise health outcomes for animals, humans and the environment



• April 2022-June 2023 activities

- Joint WOA/WWF webinar "[Biodiversity as a One Health Shield](#)" (June 2022)
- WOA/CIC Workshop on "[Wildlife Disease Surveillance in Mongolia](#)" (Oct 2022)
- [6th Cycle Training of WOA Focal Points for Wildlife with Regional Networking Workshop](#) (Feb 2023)
- Support for in-country activities on World Wildlife Day 2023 (Lao PDR & Nepal)
- Joint WOA/UNEP webinar "Making the case for investment in nature & wildlife health in Asia & the Pacific" (20 June 2023)

• WOAH wildlife health networks (WHNs)

- Sub-regional wildlife health networks (since 2021)
 - East Asia, Pacific, South Asia, South-East Asia
- Regional WHN (established 17 February 2023)

• Upcoming

- Further work with Regional & Sub-regional WHNs
- Activities under EU-funded project e.g. risk assessment workshops, regional communication materials





OH requires:

- A whole-of-society approach for better implementation
- Greater awareness among all stakeholders
- Cross-sectoral competencies and capacities
- Joint workforce training
- Better integration of the OH approach into education

OH trainings/education:

- Is integrated in the OH JPA in various Action Tracks
- Is a medium-term outcomes of the OH JPA

Limitations:

- Limited standardisation around One Health curricula and competency-based frameworks to support education

Action track 1: Enhancing One Health capacities to strengthen health systems

TABLE 1: ACTIVITIES, DELIVERABLES AND TIMELINE OF ACTION 1.1

Activities	Deliverables	Timeline (years)		
		1	2-3	4-5
1.2 Define One Health institutional and workforce capacities and develop methodologies and tools to assess national One Health performances and identify needs	<ul style="list-style-type: none"> • Definition of One Health competencies and capacities at institutional and individual levels • Mapping and integration of existing methodologies and tools, and new methodologies and tools and pilot tests for: • national capacities for One Health and the performance of systems at the human-animal-plant-environment interface • One Health competencies • workforce learning needs assessment • Support for the application of tools and assessments provided • Identified learning needs • identified opportunities to strengthen One Health coordination 	✓	✓	

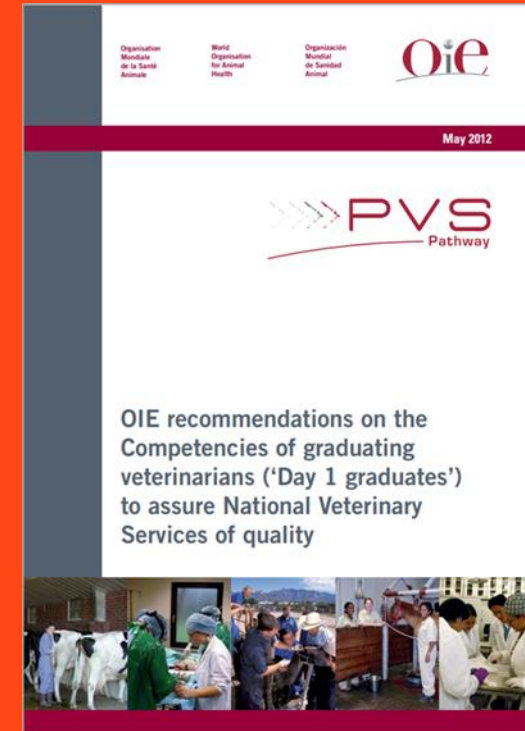
Action 1.2. Generate mechanisms, tools and capacities to establish a One Health-competent workforce and the frameworks/processes to facilitate One Health work

TABLE 2: ACTIVITIES, DELIVERABLES AND TIMELINE OF ACTION 1.2

Activities	Deliverables	Timeline (years)		
		1	2-3	4-5
1.2.2 Facilitate One Health capacity building, including workforce development in all relevant sectors	<ul style="list-style-type: none"> • Mapping of existing opportunities, resources and curricula at global, regional and national levels • Definition of access and selection criteria and processes; evaluation of capacity-building programmes • Mechanisms to build synergies and avoid duplication in capacity-building delivery • Competency-based frameworks, training programmes, courses, plans and e-learning resources • Workforce development tools • Job descriptions for One Health professionals • Simulation exercises to build and strengthen One Health competencies • Monitoring and evaluation tools to assess capacity building 	✓	✓	✓

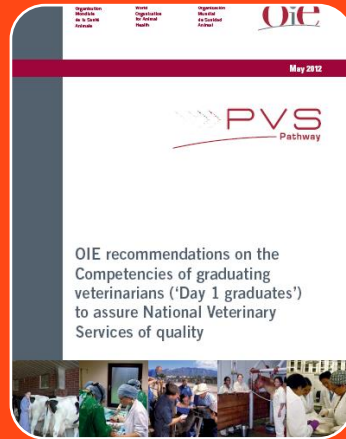


WOAH Activities on Veterinary Education



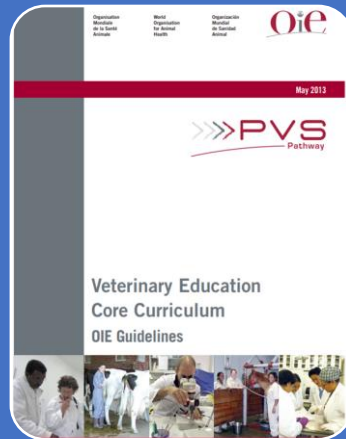
WOAH Guidelines on Veterinary Education

High-quality
veterinary education
is key to equipping
potential
veterinarians with the
necessary knowledge
to perform efficiently
and to support
Veterinary Services
effectively.



WOAH Day 1 Competencies

- 11 Specific Competencies
- 8 Advanced Competencies



Model Core Veterinary Curriculum

- 21 Courses
- Each course is linked to one or more of Day 1 Competencies



South East Asia Veterinary School Association

- Collaboration with SEAVSA since its establishment in 2010
- Continuously improve the quality of veterinary education
- Mapping curriculum with the WOAHA D 1 Competencies
- Develop SEA veterinary school accreditation standards



The Ohio State University College of Veterinary Medicine

- OSU: Assessment and Implementation of WOAHA Day 1 Competencies (AID-1C model)
- Curriculum assessment process to identify strengths and weakness (157 Topics and Themes)
- Assessors: faculty, current students, recent graduates, stakeholders (govt officials, private vet industry, etc.)

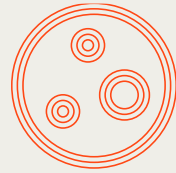


Southeast Asia One Health University Network

- Provide training to fellows from the SEAOHUN Fellowship Program at WOAHA SRR-SEA
- Organise joint conference
- Participate in SEAOHUN meetings/workshops



The OH Quadripartite Collaboration OH JPA and its Implementation Guide: to be all aligned for better collaboration, coordination, communication and capacity building (“the 4Cs”)



Buy-in of countries and partners of one OH vision.
High-level political commitment – need of the hour



Coordination amongst international bodies, donors, partners, at regional and country-level actions



Weak, non-sustainable multisectoral collaboration mechanisms



Insufficient investment on animal health / veterinary services by national financing systems (compared to human health)



Limited standardisation around One Health curricula and competency-based frameworks to support education



Wildlife health/environmental sector engagement – weakest link in One Health



Surveillance of wildlife diseases – still in infancy in many Members



Joint Surveillance, Joint Simulation, Joint Risk Analysis – a rarity

Thank you

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[World Organisation for Animal Health
Representation - Asia and the Pacific](#)

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