



USAID
FROM THE AMERICAN PEOPLE

ONE HEALTH WORKFORCE NEXT GENERATION: SOUTHEAST ASIA

YEAR 4 ANNUAL REPORT
October 2022 – September 2023

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ACRONYMS

AMR	Antimicrobial Resistance
CAMBOHUN	Cambodia One Health University Network
CBE	Competency-Based Education
COVID-19	Coronavirus Disease 2019
EHI	Excellence Indonesia Health Initiative
FAO	United Nations Food and Agriculture Organization
GHSA	Global Health Security Agenda
ILRI	International Livestock Research Institute
INDOHUN	Indonesia One Health University Network
JEE	Joint External Evaluation
LAOHUN	Lao One Health University Network
MMOHUN	Myanmar One Health University Network
MoECRT	Ministry of Education, Culture, Research, and Technology (Indonesia)
MyOHUN	Malaysia One Health University Network
NCO	National Coordinating Office
OHB	One Health Beneficiaries
OHCC	One Health Collaborating Center
OHRT	One Health Research and Training
OHS	One Health Site
OHSC	One Health Student Club
OHWA	One Health Workforce Academy
OHW-NG	One Health Workforce - Next Generation
PhiOHUN	Philippine One Health University Network
SEAMEO	The Southeast Asian Ministers of Education Organization
SEAOHUN	Southeast Asia One Health University Network
SEA-OHWA	Southeast Asia One Health Workforce Academies
SEARCA	The Southeast Asian Regional Center for Graduate Study and Research in Agriculture
TA	Transition Award
THOHUN	Thailand One Health University Network
USAID	United States Agency for International Development
VOHUN	Vietnam One Health University Network
WOAH	World Organization for Animal Health

INTRODUCTION

Dear SEAOHUN Members and One Health Partners,

It is with great joy and pride that I present the annual report for the One Health Workforce - Next Generation. This year's compilation serves as a testament to the relentless commitment of our team and the remarkable progress we have collectively achieved in advancing One Health in Southeast Asia.

As we navigate the intricacies of the past year, our journey has been marked by resilience, adaptability, and collaborative triumphs. This annual report stands as a beacon of our dedication to transparency, accountability, and the profound effect of sharing our accomplishments, challenges, and future aspirations.

Highlights of the Year: A Collective Triumph

This year's report provides a comprehensive overview of the SEAOHUN One Health Research and Training (OHRT) Awards Program and the SEAOHUN Fellowship Program. These initiatives not only offered professionals practical experience but also made significant contributions to vital research and training in the One Health field. The "Lessons Learned" and "Next Steps" sections within each report outline the insights gained and strategic directions for the future.

In the dynamic landscape of Southeast Asia, our member networks including CAMBOHUN, INDOHUN, LAOHUN, MMOHUN, MyOHUN, PhilOHUN, THOHUN and VOHUN have collectively propelled transformative One Health initiatives. From empowering communities and pioneering training modules to completing influential research endeavors and fostering community awareness, these networks have played a crucial role in addressing antimicrobial resistance, tackling emerging infectious diseases, and ensuring food security.

SEAOHUN, as a beacon of support, proudly bestowed OHRT accolades, completed innovative research projects, and secured Chevron funding for Phase II. The collaborative efforts demonstrate a shared dedication to addressing health challenges through a unified and effective One Health approach. The mission to strengthen One Health education, workforce assessment, curriculum development, and policy advocacy has been significantly advanced through the unwavering dedication of our members.

Networks in Action: A Collective Influence

In Southeast Asia, our member networks have been pivotal in driving transformative One Health initiatives. From empowering communities through the establishment of One Health Student Clubs to conducting groundbreaking gender assessments, each network has significantly enriched the One Health landscape, contributing to a healthier and more interconnected Southeast Asia.

SEAOHUN Secretariat, alongside CAMBOHUN, INDOHUN, LAOHUN, MMOHUN, MyOHUN, PhilOHUN, THOHUN, and VOHUN, collectively completed local and regional Research and Training Award projects, empowered communities, facilitated training sessions, and supported student clubs. Their unique contributions underscore the depth and breadth of the One Health movement in the region.

Success Stories from Our Beneficiaries and OH Champions: Inspiring Change

Our journey towards One Health excellence is not just measured in programs and initiatives but is truly reflected in the success stories emanating from our beneficiaries and One Health champions. In the following pages, you will find inspiring narratives of positive change driven by the dedicated individuals and communities we've had the privilege to work with. These stories underscore the tangible outcome of our collective efforts in addressing critical health challenges and fostering a holistic approach to well-being.

SEAOHUN's Growth and Sustainability: A Journey of Achievements

In the broader context, SEAOHUN achieved remarkable milestones, supporting research and training projects, facilitating fellowships, and forging strategic partnerships. The endorsement of Chevron's funding for Phase II of the Strengthening One Health Education in Southeast Asia Project is particularly noteworthy, extending our activities to promote One Health education for all until December 2025.

As we delve into the details from each network, the dedication, innovation, and collaborative spirit of our members emerge as the driving forces of positive change. We extend our heartfelt appreciation to all members and One Health Partners for your unwavering commitment to the One Health cause.

SEAOHUN's Vision: A Healthier, More Sustainable Future

Reflecting on our past accomplishments and looking ahead, we are confident in our ability to create a healthier, more sustainable, and interconnected world through the principles of One Health. Southeast Asia, with its unique challenges and opportunities, is at the forefront of global health concerns.

The region is home to 18.6 million students enrolled in tertiary-level education programs, and our collaborative efforts aim to maximize the potential of graduates in health-related fields. With Southeast Asia facing challenges from outbreaks like SARS-CoV, SARS-CoV-2, Nipah virus, avian influenza, and pandemic influenza, the need to develop a resilient and skilled One Health workforce is more critical than ever.

We express gratitude to USAID, UC Davis and its Global Consortium, Chevron, all eight country networks, and One Health partners who have supported us on this journey. Your continued collaboration and engagement are the cornerstones of our success. Inspired by your passion and dedication, we eagerly anticipate continuing our shared journey in the years to come.

Vipat Kuruchittham, PhD

Executive Director, SEAOHUN Secretariat





ONE HEALTH WORKFORCE

NEXT GENERATION PROJECT:

Progress for Year 4
October 2022 to September 2023



SEAOHUN

SOUTHEAST ASIA ONE HEALTH UNIVERSITY NETWORK

Network Overview



8 Countries



104

Member Universities

217

Faculties



75 Completed Activities



2123

Individuals Trained in
One Health Topics

JEE Technical Areas



D3 Human Resources

68 Activities



135

Informational Resources
and Products



R1 Health Emergency Management

1 Activity



40

One Health
Student Clubs



R5 Risk Communication and
Community Engagement

6 Activities



20

New Partnerships
Developed

About us

- **Our mission:** To develop a resilient and competent One Health workforce by leveraging education, research, and training provided by member universities in Southeast Asia.
- The SEAOHUN Secretariat is the coordinating body for the eight countries Networks: Cambodia, Indonesia, Laos PDR, Malaysia, Myanmar, the Philippines, Thailand and Viet Nam.
- SEAOHUN's four regional programs to build capacity in One Health are: 1) SEAOHUN Fellowships, 2) SEAOHUN Scholarships, 3) SEAOHUN One Health Research and Training Awards (OHRT) Program, and 4) Regional Student Engagement.
- Established in 2011.
- Visit our website at www.seaohun.org.

Highlights

- SEAOHUN joined the Southeast Asian Ministers of Education Organization (SEAMEO), regional intergovernmental organization. SEAOHUN's affiliation with SEAMEO creates linkages between One Health education and broader educational frameworks, reinforcing the importance of health security in the region.
- SEAOHUN joined the Quadripartite Antimicrobial Resistance (AMR) Multi-Stakeholder Partnership Platform in July 2023, demonstrating its commitment to collaborative efforts in addressing health security threats and aligning with recommendations outlined in the Joint External Evaluation (JEE) for coordinated action against infectious diseases.
- SEAOHUN received Chevron's funding for Phase II of the Strengthening One Health Education in Southeast Asia Project (January 2023 to December 2025). The continued support from Chevron aligns with the JEE related to workforce development and the extended partnership contributes to the Global Health Security Agenda (GHSA) objective of strengthening health systems, emphasizing the role of education in building resilient health workforce.
- SEAOHUN proudly supported One Health Research and Training (OHRT) awards to three projects in Year 4. The OHRT awards were strategically aligned with the JEE, ensuring that funded projects contribute to building and strengthening national capacities for health security.
- Successfully completed eight research projects through OHRT Awards Program, which were initiated in Year 3. The OHRT Awards Program, in completing these projects, demonstrated a commitment to addressing health security priorities outlined in JEE conducted in member countries.
- Seven fellows received their host institution placements in Year 4. The SEAOHUN Fellowship Program, by providing hands-on training, aligns with the workforce development outlined in the JEE, contributing to the establishment of a skilled and agile health workforce.

ACTIVITIES

OBJECTIVE I

Strengthening Research Development: Fostering Innovation and Advancing One Health Education

In alignment with JEE indicator R 1.6, the OHRT Awards Program equips in-service health professionals with necessary skills to implement innovative research projects addressing health challenges in member countries

The SEAOHUN One Health Research and Training (OHRT) Awards Program plays a pivotal role in advancing One Health education and innovation. These awards are designed to financially support in-service professionals within government agencies and member universities, focusing on human, animal, and environmental health undertaking projects that span multiple disciplines, fostering collaboration between sectors crucial for comprehensive One Health solutions. The program aims to facilitate the implementation of pilot projects and the development of innovative solutions that contribute to the enhancement of One Health training and education.

In Year 4, the SEAOHUN OHRT Awards Program focused on projects promoting One Health education, curriculum development, workforce assessment, creating communities of practice, and strengthening One Health policy and advocacy. Each awardee received an award of up to \$10,000 to execute their projects. Our selection criteria emphasized fostering multidiscipline and multisectoral engagement, integrating a gender perspective, and the potential for scalability and dissemination across the One Health community.

Out of 22 proposals submitted this year, SEAOHUN selected the three projects below. These projects began in September 2023 and are slated for completion by December 2023.



The poster for the SEAOHUN 2023 One Health Awards features a blue background with a large green circular arrow. At the top, logos for USAID, SEAOHUN, and other partners are displayed. A yellow callout box states: "Track A: OH Topics except AMR or COVID-19". The main title "SEAOHUN 2023 One Health Awards" is prominently displayed. A red alarm clock icon indicates a "Deadline extended until 30 April 2023". A green box highlights "Applications Information" with a "MAX USD10K Proposed budget" and a note that applications "Should be completed by the end of September 2023". A QR code is provided for eligibility criteria and application details, with links: "https://bit.ly/2023SmallGrants_OHRTNG" and "https://bit.ly/SEAOHUN2023SmallGrants". A "CONTACT" section lists Josh Ghen, Program Officer, at joshua@seahun.org. The bottom of the poster includes logos for various partner organizations and a note: "In addition, SEAOHUN is in collaboration with the Food and Agriculture Organization of the United Nations (FAO) Regional Office for Asia and the Pacific on the small grants program."

1. Indonesia: "Comprehensive Consolidation of the One Health System in Dengue Hemorrhagic Fever Control through a Community-Based Approach"
2. Malaysia: "Empowering Female Youth among Indigenous Orang Asli for One Health: A Community-Based Participatory Approach to Zoonotic Disease Prevention in Rural Malaysia"
3. Vietnam: "Developing a One Health Foundations Course for the International Master of Public Health Program"

In addition, eight Year 3 SEAOHUN OHRT Award projects finished in the first half of Year 4. These projects spanned six member countries and addressed critical issues like AMR, emerging infectious diseases, food security, and participatory epidemiology. A notable mention among this cohort is Dr. Fazal Mohamed Mohamed Sultan's project on educating Malaysia's indigenous communities about COVID-19 infection and prevention. This initiative paved the way for a new protocol in approaching indigenous populations in Malaysia, especially those in forested areas, to minimize the spread of diseases. Read more in our [Success Story](#).

Strengthening Health Security Workforce: Building Capacity through the SEAOHUN Fellowship Program

Equipping health professionals with the necessary skills in One Health: Aligning with JEE indicator D3.3

The SEAOHUN Fellowship Program continues to play an important role in building capacity among early- to mid-career professionals in the fields of human, animal, and environmental health. This program pairs professionals with leading institutions applying One Health, providing practical experience to address complex and dynamic health challenges.

In 2023, the SEAOHUN Fellowship Program took a significant step forward by actively promoting international fellowship placements. This strategic initiative aimed to offer early- to mid-career professionals unparalleled training opportunities with both national and international experts. The emphasis on international placements provided participants with a unique chance to broaden their One Health perspectives, exposing them to diverse methodologies, practices, and cultural contexts.

SEAOHUN selected seven fellows to participate in the program for 3-6 months. Each fellow demonstrated a commitment to advancing One Health principles and a passion for contributing to the resolution of complex health challenges. The diverse backgrounds and expertise of the fellows contributed to a rich and dynamic learning environment, fostering cross-disciplinary collaboration.

- Mr. Mark Lawrence Atienza (Hosted by the Faculty of Veterinary Science, Chulalongkorn University - CUVET, Thailand): Engaging with Food and Agriculture Organization (FAO) in Thailand, Mr. Atienza contributes to research and practices in veterinary science, furthering his expertise in the field.
- Mr. Alhawaris Alhawaris (Hosted by Excellence Indonesia Health Initiative - EHI, Indonesia): Working with EHI, Mr. Alhawaris focuses on health initiatives in Indonesia, actively participating in projects that address regional health challenges.



The poster for the SEAOHUN 2023 Fellowship Program features the USAID logo (FROM THE AMERICAN PEOPLE) and the SEAOHUN Southeast Asia One Health University Network logo. The main title is "SEAOHUN 2023 Fellowship Program". Below the title, it states: "Strengthen the One Health workforce by encouraging early- and mid-career professionals in human, animal, and environmental health disciplines to gain practical experience working on One Health issues with Southeast Asia's leading research institutions." A section titled "2023 HOST ORGANIZATIONS" displays logos for the World Organisation for Animal Health (WOAH), IHPH Thailand, CUVET, EHI, ILRI, SEAMEO SEARCA, and the Red Cross. A QR code is provided for downloading the call for application, with the link <https://bit.ly/SEAOHUN2023Fellowship> and a submission link https://bit.ly/2023Fellow_. The deadline to submit the application is 7 May 2023, and fellow selections will be announced by late May 2023. Contact information for Josh Ghen, Program Officer at joshua@seahun.org is provided. The bottom of the poster lists partner organizations: U.S. Global Health, AFROHUN, One Health Alliance, icap, Berkeley, ECHO, and UCI.

- Mr. Thanh Bui and Ms. Nhu Mai Nguyen (Hosted by the International Livestock Research Institute - ILRI, Vietnam): Immersed in Vietnam, these fellows contribute to ongoing research at ILRI, specifically addressing issues related to livestock and agriculture.
- Mr. Gil Gabriel Villancio and Ms. Celine Ng (Hosted by SEAMEO-SEARCA, the Philippines): Engaging with SEAMEO-SEARCA in the Philippines, these fellows contribute to initiatives at the intersection of education and agriculture, aligning with the broader goals of SEAOHUN.
- Mr. Mark Jaypee Gonzales (Hosted by the World Organization for Animal Health - WOAH, Thailand): Mr. Gonzales contributes to the global perspective on animal health, collaborating with WOAH to address challenges at the international level.

Beyond the technical aspects, participants in the SEAOHUN 2023 Fellowship Program underwent cultural immersion experiences. This intentional component of the program sought to enrich their understanding of the diverse contexts in which One Health challenges manifest, fostering a well-rounded and global perspective.

SEAOHUN Fellows actively contribute to regional and global networks by engaging with these reputable institutions. Through their collaborations, they not only enhance their own skills but also contribute to the broader objectives of SEAOHUN in promoting One Health principles globally.

The SEAOHUN Fellowship Program, through its commitment to international placements and fostering a diverse cohort of fellows, plays a pivotal role in shaping the next generation of One Health leaders. The program's achievements in 2023 reflect its dedication to advancing knowledge, collaboration, and the practical application of One Health principles in addressing complex health challenges.



Mr. Alhawaris Alhawaris, a fellow at EXEINS Health Initiative (EHI), is learning about basic laboratory techniques in Jakarta, Indonesia. Photo credit: Alhawaris Alhawaris

OBJECTIVE 2

SEAOHUN Enhanced Decision-Making Processes through the Development of Informative Visualization

The Secretariat took significant strides in enhancing decision-making processes through the development of visualizations and real-time tracking system. Our commitment to strengthening efficiencies across both regional and network countries led to the implementation of innovative tools. Particularly, our air-table database platform underwent a comprehensive update, now featuring visualizations at the regional level. This strategic enhancement aims to streamline performance monitoring, offering data-driven insights that empower the management team to make well-informed decisions.

In Year 4, the Secretariat actively engaged in sharing sessions with network countries, aiming to offer insights into the implemented database and visual tools. We aimed to foster a collaborative environment that not only enhanced real-time activity monitoring and program management capabilities but also fosters a continuous improvement process for how we measure success in what we do and deliver. During these sessions, network countries shared their own practices in data and information management. This knowledge exchange enabled participants to learn from one another, gaining different perspectives for refining their own systems. These sessions served as a platform for fostering improvement by sharing expertise and mutual learning.

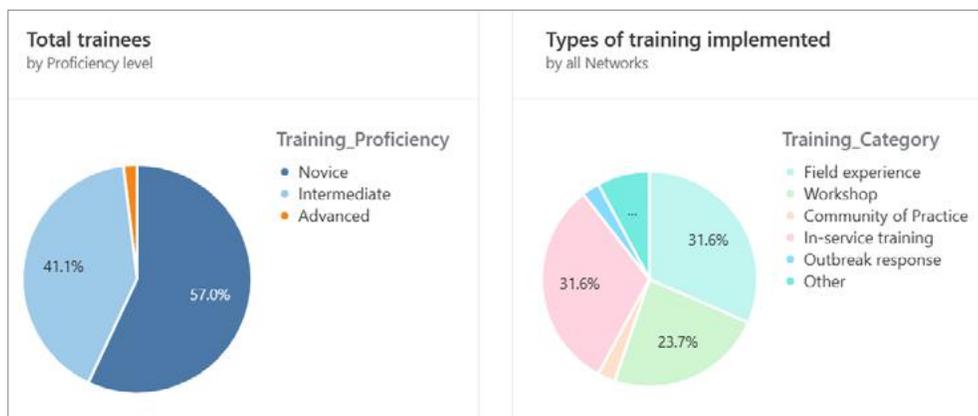


Figure 1. Regional dashboard displaying the types of training and the professional levels of trainees

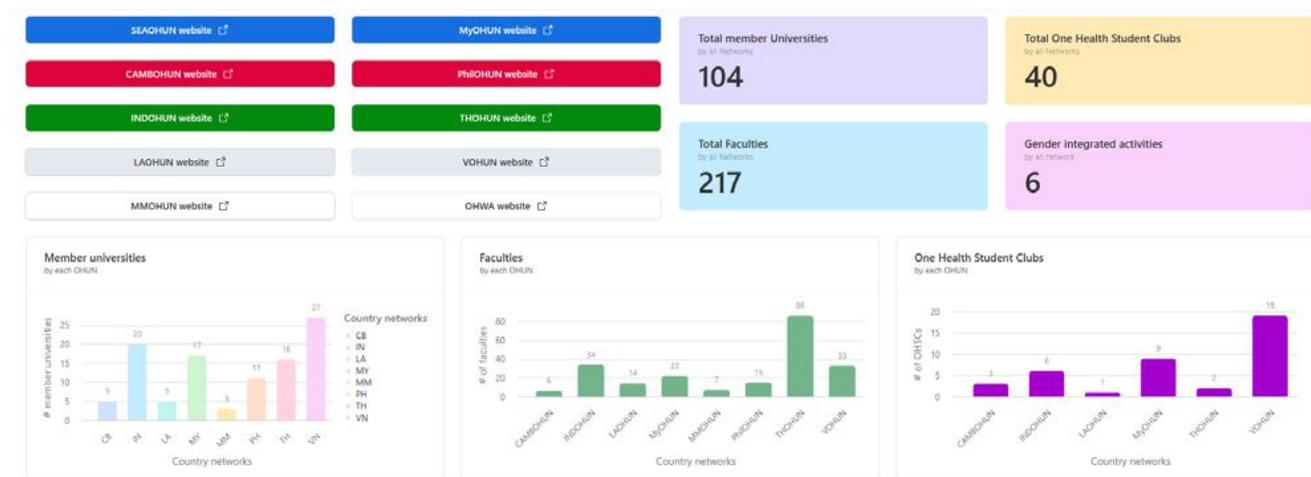


Figure 2. Regional dashboard showing Network composition

OBJECTIVE 3

SEAOHUN joined the Southeast Asian Ministers of Education Organization(SEAMEO)

In Year 4, SEAOHUN solidified its commitment to advancing One Health education by becoming an affiliate member of the Southeast Asian Ministers of Education Organization (SEAMEO). This affiliation carries significant weight, signifying an enhanced level of engagement and collaboration in the realm of One Health education across Southeast Asian countries. SEAOHUN's affiliation with SEAMEO opens avenues for collaborative initiatives, especially through SEAMEO's Tropical Medicine and Public Health (TROPMED) Network and various SEAMEO Centers. These partnerships extend to raising awareness about One Health principles in schools, universities, and communities across the Southeast Asian region.

SEAOHUN's affiliate membership with SEAMEO not only enhances SEAOHUN's visibility within the SEAMEO network but also positions it as a key player in advancing One Health education across Southeast Asia. The strategic collaboration with SEAMEO reflects a shared commitment to building a resilient and well-informed community through interdisciplinary education and cooperation.



*Representatives from SEAOHUN participating in the networking discussion at the SEAMEO Centre Directors Meeting, 25-26 July 2023.
Photo credit: SEAOHUN*

SEAOHUN Joined the Global Platform to Combat Antimicrobial Resistance (AMR)

Aiming to catalyze a global movement for action against the global threat of AMR, SEAOHUN was thrilled to join the Quadripartite AMR Multi-Stakeholder Partnership Platform. In addition, Dr. Vipat Kuruchittham, SEAOHUN Executive Director, now represents the network as one of 14 members of the Quadripartite Working Group on Youth Engagement for AMR to engage youth in the global response to AMR. Each member is from a different country and represents youth-serving or youth-led organizations. Follow the link for more information <https://www.who.int/news/item/05-10-2023-quadripartite-launches-the-youth-engagement-on-AMR>

SEAOHUN's USAID Transition Award (TA) - a Milestone Achievement

In a landmark achievement for SEAOHUN, the organization successfully received direct funding from USAID through the USAID Transition Award (TA) Project in Year 4. This accomplishment allows the Secretariat to independently manage the TA, separate from the OHW-NG project, showcasing a remarkable leap in organizational maturity and capacity.

The TA project, spanning from October 2022 to September 2024, represents more than just financial support. It is a testament to SEAOHUN's commitment to USAID's localization approach, where organizations demonstrate heightened organizational, managerial, and budgetary capacity. In lockstep with USAID's goals, SEAOHUN has proven its ability to manage funds efficiently and effectively, aligning with the principles of local ownership and sustainability.

SEAOHUN expresses gratitude for the technical assistance provided by the OHW-NG Global Consortium, acknowledging their invaluable support in enhancing the Secretariat's organizational capabilities to receive and manage the TA. This collaborative effort has not only strengthened SEAOHUN's immediate financial position but also positioned the network for

increased competitiveness in bidding for future USAID and other donor funding opportunities.

Building a robust track record in managing USAID funds not only elevates SEAOHUN's standing in the realm of international development but also bolsters the network's long-term sustainability. This achievement underscores SEAOHUN's dedication to fostering self-reliance and resilience, aligning with the principles of USAID's localization strategy. As SEAOHUN continues to evolve, this milestone paves the way for sustained growth, and a solid foundation for future collaborations with USAID and other strategic partners.

SEAOHUN Enhances its Sustainability

In partnership with Chevron, SEAOHUN received generous charitable contributions in January 2021, fortifying Southeast Asia's One Health education. This collaborative effort involves engaging with school-aged children and their teachers, university students and professors, as well as current health professionals tackling complex health issues in their communities. Through these partnerships, we actively promote and integrate One Health concepts and approaches for kindergarten, primary and secondary students in schools across the region. Chevron's commitment to supporting education stands as a cornerstone in our collective endeavor to build a healthier and more resilient future.

Chevron renewed its commitment to SEAOHUN in Phase II of the Strengthening One Health Education in Southeast Asia project by extending the partnership for an additional three years (January 2023 to December 2025). The extended collaboration aims to continue promoting One Health education for all, scale up the implementation from Phase I to other SEAMEO member countries, foster an establishment of a One Health University Network in Bangladesh, and further enhance SEAOHUN's organizational capacity. SEAOHUN partnered with the U.S. Defense Threat Reduction Agency (DTRA) to host the SEAOHUN 2023 Regional Student Competition, which encourages students from member universities to create infographic posters with a focus on the theme, "Protecting Lives: Promoting Biosafety and Biosecurity for a Sustainable Future." In December 2023, the three top teams received in-kind support from DTRA to attend a four-day biosafety and biosecurity training in Malaysia facilitated by MyOHUN.

Lessons learned/Good practices

Leveraging collaboration provides a catalyst for developing innovative solutions to complex One Health challenges. We learned several valuable lessons from this year's OHRT Awards Program. Projects fostering multidiscipline and multisectoral engagement proved remarkably effective.

Integrating gender perspectives into our initiatives is another key insight. Gender considerations are not just a box we check, they are a fundamental element in our projects. The endeavors that effectively incorporated gender perspectives had a more profound influence. They addressed the diverse needs of communities more comprehensively and contributed to more equitable and sustainable outcomes.

Flexibility and adaptability have also been central to our experience. In an ever-evolving landscape, our ability to pivot and adjust to unforeseen challenges is paramount. The COVID-19 pandemic underscored the need for projects that can adapt and continue their mission despite unexpected disruptions. We also learned that scalability and dissemination is vital. Projects that can be expanded and shared across a broader One Health community have the potential to magnify their influence and serve as models for best practices.



Photo: SEAOHUN

Community involvement is a linchpin for our projects. Engaging local communities when developing and implementing initiatives amplified their relevance and sustainability. By involving community members, we ensured that our projects are not only top-down endeavors but also generate bottom-up solutions that genuinely reflect the needs of the people they serve.

Expanding partnerships is key for SEAOHUN to strengthen One Health communities and enhance One Health professionals' capacities at the regional and global level. This enhances our organizational sustainability and puts the Secretariat on a trajectory to succeed beyond the OHW-NG project.

The transition to localization is a pivotal aspect of SEAOHUN's evolution, marked by providing regional leadership, administrative and financial management for a network of over 100 university members and 8 country OHUNs. The country OHUNs form a robust foundation for ongoing success, facilitating the implementation of contextualized local programs with far-reaching global relevance. This strategic shift underscores SEAOHUN's commitment to not only adapt to challenges but also to lead and drive positive change in the One Health landscape.



Next Steps

Moving forward, we maintain our unwavering commitment to nurturing the next generation of One Health leaders. We are exploring opportunities to expand our diversified One Health portfolio and ensure it remains a cornerstone of regional capacity building. Maintaining current relationships and engaging new partners will further strengthen our One Health efforts in Southeast Asia.

We will continue to adapt our programs and activities to address emerging challenges and opportunities. Organizational agility will allow us to respond effectively to public health crises, environmental issues, and other unforeseen events.

The Secretariat plans to disseminate the knowledge and resources developed from our programs, contributing to the broader One Health community's understanding and best practices. We want to be a catalyst for positive change and progress in One Health. SEAOHUN will also continue providing a platform for professionals to gain practical experience and enhance their understanding of One Health. We look forward to the year ahead and the opportunities it brings to further our mission.

Success Story

"SEAOHUN OHRT Awards Program Success Story"

The SEAOHUN One Health Research and Training (OHRT) Awards Program financially supports in-service health professionals and faculty members to address complex One Health challenges. Since its inception, SEAOHUN funded 36 research and training projects covering a broad spectrum of One Health topics including COVID-19, laboratory investigations, and community-based participatory epidemiology. In 2023, one story was chosen to highlight the positive influence of the OHRT Awards Program.

"Empowering Indigenous Communities with Tailored COVID-19 Knowledge"

In July 2020, former Malaysian Prime Minister Tan Sri Muhyiddin Yassin proclaimed Malaysia's response to COVID-19 as a success. However, beneath this proclamation lay the hidden struggles of Malaysia's 18 indigenous groups. During the April 2020 lockdown, over 600 indigenous individuals sought refuge in the jungle, shedding light on their marginalization. These communities desperately needed culturally and linguistically relevant COVID-19 information. The government's distribution of top-down guidance underscored the need for enhancing the provision of bottom-up information in indigenous languages and cultural contexts. This presented an opportunity to apply the One Health approach which recognizes the interconnectedness of human, animal, and environmental health.

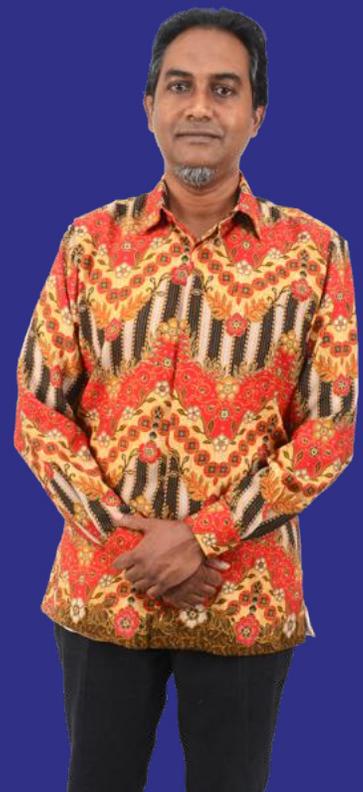
With support from the SEAOHUN OHRT Awards Program, we launched a project to educate these isolated indigenous communities about COVID-19 catered to their unique requirements. We focused on cultural alignment as a bridge to close the gap between indigenous pandemic knowledge and the reality of COVID-19. Visual aids and symbols, tailored to their specific cultural context, played a pivotal role in rectifying misunderstandings.

Based on indigenous knowledge, we created an infographic notice board in the Mendriq language as our milestone achievement. Berita Harian and Universiti Kebangsaan Malaysia (UKM) news, two prominent Malaysian news outlets, covered our project. This exposure created opportunities for cross-sectoral advisory groups combining linguistic and medical expertise to effectively communicate pandemic information. Our project proved successful by empowering indigenous communities with culturally sensitive and linguistically comprehensible COVID-19 information from a One Health perspective to improve marginalized Malaysian populations' health outcomes.

"SEAOHUN OHRT Awards program supported our project to open the door to a new protocol to approach the minority (especially those in the jungle) to minimize the spread of diseases in this country. The production of a permanent infographic board on COVID-19, utilizing indigenous knowledge and methods to share information, helped the government medical team better engage underserved communities and to accept COVID-19 vaccine doses. This program also helped us to promote the knowledge of COVID-19 to the indigenous population in Malaysia who had decided to isolate themselves as a protection plan which they think can solve the COVID-19 infection."

Assoc. Prof. Dr. Fazal Mohamed Mohamed Sultan

(Project Lead), Head of Applied Linguistics Cluster, Center for Research in Language And Linguistics, Faculty of Social Sciences and Humanities, Universiti Kebangsaan Malaysia (UKM)



SOUTHEAST ASIA ONE HEALTH UNIVERSITY NETWORK MEMBERS

LAOHUN

Champasack University
National University of Laos
Savannakhet University
Souphanouvong University
University of Health Sciences, Lao PDR

MMOHUN

University of Medicine I
University of Public Health
University of Veterinary Science, Yezin

INDOHUN

Airlangga University
Andalas University
Bogor Agriculture University*
Brawijaya University
Cendrawasih University
Diponegoro University
Gadjah Mada University*
Hasanuddin University
Mataram University
Muhammadiyah Hamka University
Mulawarman University
Nusa Cendana University
Padjajaran University
Sam Ratulangi University
Sriwijaya University
Syiah Kuala University
Udayana University
University of Indonesia*
University of North Sumatra
University of West Nusa Tenggara

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Chiang Mai University*
Chulabhorn Royal Academy
Chulalongkorn University
Kasetsart University
Khon Kaen University
Maharakham University
Mahidol University*
Mae Jo University
Mae Fa Luang University
Naresuan University
Prince of Songkla University
Srinakharinwirot University
Suranaree University of Technology
Thammasat University
Walailak University



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Buon Ma Thuot University
Can Tho University
Can Tho University of Medicine & Pharmacy
Dong A University
Hai Phong University of Medicine & Pharmacy
Hanoi Medical University*
Hanoi University of Natural Resources and Environment
Hanoi University of Public Health*
Hue University of Agriculture & Forestry
Hue University of Medicine & Pharmacy
Nam Dinh University of Nursing
Nghe An University of Economics
Nong Lam University - Ho Chi Minh City

Phenikaa University
Quy Nhon University
Tay Nguyen University
Thai Binh University of Medicine and Pharmacy
Thai Nguyen University of Agriculture & Forestry
Thai Nguyen University of Medicine & Pharmacy
Tra Vinh University
University of Medicine and Pharmacy at Ho Chi Minh City
University of Medicine and Pharmacy - Vietnam National University, Hanoi
Viet-Duc University
Vietnam National University of Agriculture*
Vinh Long University of Technology Education
Vinh Medical University

CAMBOHUN

Kampong Cham National Institute of Agriculture
Prek Leap National Institute of Agriculture
Royal University of Agriculture
Royal University of Phnom Penh
University of Health Sciences, Cambodia

PhilOHUN

Benguet State University
Cavite State University
Central Luzon State University
Central Mindanao University
Pampanga State Agricultural University
Partido State University
University of Eastern Philippines
University of the Philippines Los Baños
University of the Philippines Manila
Visayas State University
Western Visayas State University

MyOHUN

University of Cyberjaya
International Islamic University Malaysia
International Medical University Malaysia
Management and Science University
Royal College of Surgeons in Ireland & University College Dublin Malaysia Campus
Universiti Kebangsaan Malaysia*
Universiti Malaya
Universiti Malaysia Kelantan
Universiti Malaysia Sabah
Universiti Malaysia Sarawak
Universiti Malaysia Terengganu
Universiti Putra Malaysia*
Universiti Sains Islam Malaysia
Universiti Sains Malaysia
Universiti Sultan Zainal Abidin
Universiti Teknologi MARA
Universiti Tunku Abdul Rahman

*Founding Universities



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SEA OHUN
Southeast Asia One Health
University Network

CAMBOHUN
CAMBODIA ONE HEALTH UNIVERSITY NETWORK

CAMBOHUN

CAMBODIA ONE HEALTH UNIVERSITY NETWORK

Network Overview



10 Completed Activities



5 Member Universities

6 Faculties

JEE Technical Areas

D3 Human Resources

9 Activities



66 Individuals Trained in
One Health Topics

R5 Risk Communication and
Community engagement

1 Activity



3 One Health
Student Clubs



1 Informational Resource
and Product

About us

- **Our mission:** To develop a sustainable network of One Health professionals with cross-sectoral expertise to understand and address public health threats.
- Established in June 2019.
- Visit our website at www.cambohun.org.

Highlights

Strengthening Health Security Workforce in Cambodia

- Established the Royal University of Agriculture One Health Student Clubs (RUA's OHSC) and organized community awareness activities to raise awareness, September 2023
- Awarded one local One Health Research Scholarship to a Cambodian researcher to implement the project titled "Participatory Epidemiology Assessment Knowledge and Practice among Animal and Human Health Practitioners on Zoonoses in Pursat Province."
- Organized a One Health competency-based education (CBE) training session for 14 in-service health professionals in Phnom Penh, 27-28 September 2023

Activities

OBJECTIVE I

On September 23, 2023, CAMBOHUN conducted a One Health awareness session at the Royal University of Agriculture (RUA) where they established RUA's OHSC. During the session, RUA OHSC members distributed 500 posters on food safety and rabies along the coast in Kep Province to 213 local tourists, customers, and seafood vendors. One Health is a novel concept for many in Cambodia, particularly among residents in the province. In response, RUA's OHSC organized this community-level activity to promote awareness and understanding of One Health. The initiative not only encouraged learning about One Health but also imparted practical knowledge on food safety practices, minimizing risks during visits to the fresh market. This activity is directly relevant to JEE indicator R 5.3 as it promotes community awareness related to One Health and foster a better understanding of One Health in addressing complex health issues among the communities.

CAMBOHUN, with support from USAID through SEAHOHUN, awarded one Small Research Scholarship to a group of researchers to complete their project, "Participatory Epidemiology Assessment Knowledge and Practice among Animal and Human Health Practitioners on Zoonoses in Pursat Province." The two-month project produced a project report of their research experience, a factsheet, and an abstract. Their research aimed to gather scientific data from health practitioners, spanning both animals and humans, to inform future policies and research efforts in preventing or controlling zoonotic diseases in Cambodia. Using Participatory Epidemiology (PE), Mr. Sokom Kong and his team designed a study involving seven technical questions for data collection, three participatory tools (robing, pairwise ranking, and SSI), and two teams for data collection. This study, aligned with the One Health strategy of the Royal Government of Cambodia supported by the WHO, addresses the need to reduce the threat of zoonotic diseases, illnesses that can naturally spread from animals to humans. This activity is directly relevant to JEE indicator R 1.5 as it promotes research development by equipping the health professionals to better understand One Health issues within the country.



Participants discussing on One Health related issues in Cambodia during the OH awareness session at the Royal University of Agriculture (RUA), 23 September 2023. Photo credit: CAMBOHUN



One of researchers from the local small research project conducting Participatory Epidemiology (PE) assessment on zoonoses diseases to health practitioners in Pursat Province, Cambodia, 28 September 2023. Photo credit: CAMBOHUN

OBJECTIVE 2

On 27-28 September 2023, CAMBOHUN organized an in-person CBE cascade training for 14 lecturers and trainers from the National Institute of Public Health and the Ministry of Health in Phnom Penh. Facilitated by Dr. Bunna (RUA, Cambodia), Dr. Farina (University Putra Malaysia, Malaysia), and Dr. Dian (University of Mataram, Indonesia), the training focused on applying the competency assessment toolkit to implement CBE in their One Health curriculum. The objective was to strengthen their capacities in applying CBE at their institutions. This activity directly aligns with JEE indicator D 3.3, contributing to workforce training by enhancing in-service health professionals' understanding of the One Health approach.

OBJECTIVE 3

CAMBOHUN actively participated in a series of workshops hosted by international organizations like the World Health Organization (WHO) and Food and Agriculture Organization (FAO) during the reporting period. The aim was to promote One Health across various disciplines. Through these workshops, we gained valuable insights on efficiently organizing events, and we had opportunities to explore future collaborations with these institutions for One Health related activities. This activity is relevant to JEE indicator D 3.1 as it enhances multi-sectoral collaboration across different institutions in addressing complex health challenges within the country.



In-service professionals discussing about domains of One Health Competencies during Competency-Based Education (CBE) training in Phnom Penh, Cambodia, 27-28 September 2023. Photo credit: CAMBOHUN

Lessons learned/ Good practices

In implementing the OHW-NG Project, CAMBOHUN discovered vital lessons shaping the future of One Health initiatives in Cambodia. Direct community engagement through the establishment of Royal University of Agriculture One Health Student Club proved effective, particularly in unfamiliar regions like Kep Province, where activities such as distributing posters on food safety demonstrated the importance of grassroots interaction.

Competency-Based Education training emphasized the significance of building the capacity of educators, contributing to the sustainability of the One Health approach. Active participation in international workshops highlighted the value of strategic collaboration, cross-disciplinary partnerships, and aligning initiatives with national policies. CAMBOHUN's commitment to continuous learning and adaptation, reflected in its engagement in national events and workshops, is a crucial element for the sustained success of One Health programs. In summary, CAMBOHUN's experiences narrate a story of effective community connection, targeted research, capacity building, strategic collaboration, policy alignment, and a commitment to continuous learning, all shaping the landscape of One Health in Cambodia.

Next steps

CAMBOHUN intends to enhance their sustainability via future collaborations with government agencies and international organizations that build new relationships and expand its network. CAMBOHUN will promote more training programs with government agencies tailored to local OH issues and the technical support required to address them. We will also continue engaging stakeholders from other sectors and disciplines to promote organizational visibility and sustainability, which will help us achieve future objectives.

In Year 5, CAMBOHUN will partner with Southeast Asian Ministers of Education Organization Technical Education Development (SEAMEO TED) to launch a One Health awareness program for high school vocational teachers as a strategy for delivering One Health education to high school students.

Photo credit: CAMBOHUN



Success story

“Even though the trip was short, we still learned a great deal about working as a team, applying the One Health philosophy to collaborate with various academic fields, and communicating with authorities and students. In addition, we practice problem-solving on the field so that we can be the leaders of the future. This trip was a really great lesson and the beginning of our group's learning and experience-sharing.”

Mr. Heang Bunheng,
Undergraduate student at
the Royal University of Agriculture

Empowering Communities: One Health Student Clubs (OHSC) Make a Difference

In the fourth year of the One Health Workforce – Next Generation Project, Kampong Cham National Institute of Agriculture (KNIA), Prek Leap National Institute of Agriculture (NIA), and the Royal University of Agriculture (RUA) came together to establish three One Health Student Clubs (OHSCs). These OHSCs have become dynamic catalysts for change, fostering connections and collaboration among students while empowering communities with One Health skills. Their initiatives, tailored to the specific needs of local communities, are made possible through generous support from the U.S. Agency for International Development (USAID) and the Korea International Cooperation Agency (KOICA) via the One Health Workforce – Next Generation Project.

On 15 September 2023, KNIA's OHSC organized a community engagement event on highly pathogenic avian influenza (HPAI) at L'ak village, Kraek Commune, Ponhea Kreak District, Tbong Khmum province. The event drew a diverse crowd of forty participants, including household members, the village chief, and representatives from local government agencies. The students also distributed over 100 educational materials on HPAI, leaving a lasting impact on the community.

Meanwhile, on 23-24 September 2023, RUA's OHSC took their mission to Kep Beach, interacting with 213 tourists and local businesses. Their focus was on promoting food safety and raising awareness about rabies prevention. In the process, they distributed approximately 500 educational materials, making sure that their message reached far and wide. The students also engaged in a group clean-up effort to promote effective waste management practices along the beach, demonstrating their dedication to environmental stewardship.

The NIA OHSC was equally proactive, conducting a rabies awareness program in Svay Chrom with 49 participants and in Akreiy Ksatr with 44 participants who joined the program. During the session, OHSC's members distributed over 500 educational materials to fellow students, households, and community members in the area.

These CAMBOHUN OHSCs are not merely student clubs but vital agents of change. They champion the One Health concept and actively apply it at the community level, leaving a positive and lasting change on the communities they serve. By fostering a sustainable One Health learning platform, they encourage students to develop innovative solutions, collaborate across disciplines and sectors, and hone their soft skills. In doing so, they are helping to create a robust and capable One Health workforce for the future.

“From the establishment of NIA’s OHSC to conducting the activity, all the lessons learned and experiences earned are about management, cooperation, new knowledge, and implementing awareness among the people in the communities. This is what I have learned the soft skills from the One Health concept. I hope CAMBOHUN and SEAOHUN still supporting us for our future of One Health learning and sustainability.”

Ms. Ay Kuoching,
Undergraduate student at Prek Leap
National Institute of Agriculture



Photo credit: CAMBOHUN

Supplemental funding: OHW-NG activities funded by KOICA

Highlights

Leveraging Health Security Workforce in Cambodia: Building Capacity through Workforce Training

Equipping health professionals' skills in One Health in alignment with JEE indicator D3.3

- Conducted a training session on participatory epidemiology in addressing One Health issues for 14 in-service professionals, 21-23 June 2023
- Conducted a series of One Health awareness sessions with 251 lecturers and students from five member universities and the University of Battambang, May to August 2023.
- Established two One Health Student Clubs (OHSCs) at Kampong Cham National Institute of Agriculture (OHSC's KNIA) and Prek Leap National Institute of Agriculture (OHSC's NIA). Both clubs organized community activities to raise awareness of highly pathogenic avian influenza (HPAI) and rabies, September 2023.
- Proudly supported local research scholarships to four recipients from Royal University of Agriculture (RUA), Kampong Cham National Institute of Agriculture (KNIA), Institute of Technology of Cambodia (ITC), and National Institute of Public Health (NIPH).
- CAMBOHUN, with technical support from SEAOHUN and MyOHUN, reviewed the One Health curriculum for five CAMBOHUN member universities from 13-17 March 2023, aiming to identify training gaps and align with national priorities.
- Organized a SEAOHUN/CAMBOHUN member Universities meeting in Cambodia to strengthen the CAMBOHUN governance and operating structure, 21 September 2023

Activities

Project Kick-off Meeting

SEAOHUN, in collaboration with CAMBOHUN, organized the formal Year 4 project kickoff with CAMBOHUN member university liaisons at RUA on 31 January 2023. Facilitators presented updates on USAID's project implementation in Cambodia, discussed CAMBOHUN's governance and operating structure, and identified member university capacity gaps. CAMBOHUN will leverage these insights to establish operational procedures and develop a five-year strategic plan with the support of SEAOHUN.

One Health Curriculum Assessment for Effective One Health Training Programs

SEAOHUN in collaboration with CAMBOHUN, conducted a One Health curriculum assessment from 13-17 March 2023, for five CAMBOHUN member universities in collaboration with MyOHUN. The reviewers, led by Prof. Latiffah Hassan, MyOHUN coordinator; assessed how the five member universities incorporated One Health concepts and competencies into their curricula and teaching practices. They specifically mapped variations in content, identified good practices that align One Health training with national priorities and requirements of potential employers, identified OH training gaps, and identified sustainability barriers to producing effective One Health programs. The activities are directly relevant to JEE indicator D3.3 as they contribute to workforce training by assessing the workforce capacity in understanding of the One Health approach, which is essential for building a skilled and prepared workforce capable of addressing complex health challenges within Cambodia.



Regional expert, Dr. Latiffah Hassan (MyOHUN) and Cambodia country manager conducting curriculum assessment at Royal University of Agriculture (RUA), 13-17 March 2023. Photo credit: CAMBOHUN

Raising One Health Awareness Sessions

SEAOHUN and CAMBOHUN collaborated on four raising One Health awareness sessions at Royal University of Phnom Penh (RUPP), Kampong Cham National Institute of Agriculture (KNIA), and Royal University of Agriculture (RUA), alongside one university outreach in Battambang for students and relevant faculty members, from May to August 2023. The events aimed to improve understanding of the One Health concept and promoted establishing One Health Student Clubs at these universities. Overall, 251 lecturers and students participated in the four activities.



Students from Kampong Cham National Institute of Agriculture (KNIA) interviewing the villagers about the knowledge on rabies awareness in the Areiksat and Svay Chrum communes, Cambodia, 29 September 2023. Photo credit: CAMBOHUN

Leveraging Workforce Capacity through Local Small Research Scholarships

CAMBOHUN awarded local small research scholarships to three Cambodian researchers from member universities. The research projects included: "Participatory Epidemiology Assessment on Knowledge, Attitudes and Practice Relating to antibiotic use and antibiotic resistance among Animal health worker and Duck egg Farmers in Prey Veng Province Cambodia," led by Ms. Hov Limkhuoch (KNIA), "Cross-sectional Study on Infection Control in Neonatal Care Units in Cambodia: Environmental Assessment by Bacterial Culture Examination," led by Dr. Peng Chanthol (ITC), and "Assessment of Knowledge, Attitudes, and Practices Regarding Avian Influenza (H5N1) after the Outbreak and Integration of the Participatory Epidemiology tool used transect walk, in Prey Veng, Cambodia," led by Mr. Vang Daraden (NIPH). The findings from the research will be utilized in future implementation of One Health awareness and training programs related to zoonotic diseases within Cambodia. This activity is directly relevant to JEE indicator D3.3 as it strengthens the workforce capacity by equipping health professionals in addressing complex health challenges and JEE indicator R1.5 as it promotes research development by equipping researchers in One Health proficiency in conducting research on zoonotic diseases.

Building Capacity through Participatory Epidemiology Training

CAMBOHUN supported four health professionals to attend Participatory Epidemiology Training of Trainers (ToT) sessions facilitated by two regional experts, Dr. Sirikachorn Tangkawattana (Khon Kaen University, Thailand) and Dr. Terdsak Yano (Chiang Mai University, Thailand) from 19-20 June 2023. The ToT training was delivered to 14 in-service professionals from the Field Epidemiology Training Program (FETP), Cambodia Applied Veterinary Epidemiology Training (CAVET), and member universities. This training equipped in-service health professionals with the skills to utilize participatory epidemiology in addressing national One Health issues. The activity is directly relevant to JEE indicator D3.3 as it enhances workforce development by providing health professionals with a better understanding of the One Health approach.



Students discussing on One Health topics in the OH awareness raising session at Kampong Cham National Institute of Agriculture (KNIA), Cambodia, 15 September 2023. Photo credit: CAMBOHUN

Lessons learned/Good practices

Collaboration is a Key to Sustainability

With the generous support of USAID and KOICA, CAMBOHUN, in collaboration with SEAOHUN, organized a CAMBOHUN university partners meeting with key stakeholders including the rectors and directors of each university member. We gained invaluable insights from the meeting facilitators that will be instrumental in developing CAMBOHUN's operational procedures and a five-year strategic plan. The knowledge shared at this meeting will place CAMBOHUN on a trajectory to become a leading organization in One Health capacity building and research in Cambodia.

One Health Awareness Events Resulting in New One Health Student Clubs

The OHSC promotional events resulted in establishing two clubs at NIA and KNIA. The event engaged over 300 locals and distributed more than 1,000 educational flyers. Engaging with the community like this creates an opportunity for students to transfer the OH knowledge received from their expert lecturers to the local community. In Year 5, CAMBOHUN plans to add two activities per OHSC to provide students with more of these opportunities and in-turn strengthen the future Cambodian One Health workforce.

Next steps

Strengthening Sustainability through Collaboration

With the generous support of KOICA, CAMBOHUN intends to enhance their sustainability via future collaborations with government agencies and international organizations to build new relationships, expand its network, and continue to promote One Health nationally.



Photo credit: CAMBOHUN

Success story

“The training allowed me to apply the OH concept, enabling collaboration with other disciplines and identifying the target audience for collecting high-quality data. Furthermore, I demonstrated these tools to students and the team, showcasing how to collect data more confidently using PE tools at my institution.”

*Dr. Lay Sokreaksa,
Quality Officer at Microbiology
Laboratory, National Institute of
Public Health (NIPH), Cambodia*

“Empowering Change: Strengthening In-Service Professionals in Cambodia Through Participatory Epidemiology”

Participatory Epidemiology (PE) is a dynamic and transformative approach, fostering interactive dialogues within communities. By harmonizing scientific and traditional wisdom with the assistance of Participatory Rural Appraisal (PRA) tools, this innovative method empowers both interviewers and community members. It serves as an inspiration of new knowledge, arming them to collaboratively identify and resolve community issues.

CAMBOHUN, in collaboration with SEAOHUN, organized a PE cascade training to empower in-service professionals in the realm of animal and human health. From 21-23 June 2023, four national trainers, along with the support of two regional experts from Thailand and one national facilitator, led the training with a total 14 participants. Our participants represented a diverse background of professionals, including health experts from the National Institute of Public Health and Field Epidemiology Training Program, the Cambodia Applied Veterinary Epidemiology Training program, faculty members from Royal University of Agriculture, Prek Leap National Institute of Agriculture, and Kampong Cham National Institute of Agriculture.

During the first day of the training, participants could learn the core concepts and tools of PE. The second day led them outdoors, where they engaged with locals near the training venue and in bustling markets. These groups, blending human health and animal health expertise, took the reins and selected the sites to explore; the Central Market, the Old Market, the National University of Management, the surroundings of Wat Phnom, and the riverside. Following their fieldwork, these groups reconvened to share their findings, experiences, and insights. On the last day, participants performed group presentations, constructive feedback from national trainers, and a meticulous assessment of each trainer's facilitation abilities.

The outcomes and reflections from this intensive training were positive. Participants expressed a deep appreciation for the knowledge and skills gained that they could readily apply to their teaching, research, and community outreach efforts. As a testament to this journey's success, here are some of the participants' own reflections on how they have integrated their learnings into their current work and studies.

In summary, the PE cascade training organized by CAMBOHUN, in collaboration with SEAOHUN, stands as a testament to the power of collaboration and knowledge-sharing in making positive outcomes for the health and well-being of communities in Cambodia. In just three days of training, participants became catalysts for positive change in their communities, armed with the knowledge and skills to bridge the gap between science and traditional information.

Group activity in Participatory Epidemiology Training. Photo credit: CAMBOHUN

“As a government official in the field of Animal Production and veterinary, the PE training provided me with its concept and tools for me to collect data on animal health and production to be more convenient and get participation from the community people. For instance, I could use it to collect data on animal health, zoonotic disease, and disease outbreak investigation. On the other hand, I am more confident in using the timeline and proportional piling to keep a record of the animals in my area for future use.”

Mr. Sok Vanneng, a Government Officer at the Office of Animal Production and Veterinary in Prey Veng Province



One Health Champion



To me, "One Health, One Planet, One Future," written by George R. Lueddeke in 2019, is about the interconnectedness of human, animal, and environmental health, which makes it very important to work together to ensure a sustainable and healthy future for all living beings on our planet."

CAMBOHUN

Mr. Kong Sokom

Lecturer and researcher at the Faculty of Veterinary Medicine, Royal University of Agriculture (RUA)

Mr. Kong Sokom is a lecturer and researcher at the Faculty of Veterinary Medicine, Royal University of Agriculture (RUA) in Phnom Penh, Cambodia. He is an experienced public health professional with a resume that includes consultations for the World Organization for Animal Health, with a focus on antimicrobial resistance. This year, Mr. Sokom has expanded his long-standing contributions to CAMBOHUN by participating in our One Health awareness workshop, risk communication workshop, problem-based learning workshop, and a participatory epidemiology Training of Trainers (ToT) organized in collaboration with SEAOHUN.

Recently, Mr. Sokom successfully conducted his research project, supported by CAMBOHUN, on assessing existing knowledge, attitudes, and practices among human and animal health professionals in Pursat province, Cambodia. The project aimed to provide scientific data from health practitioners, involving both animals and humans, to inform future research and policy for preventing and controlling zoonoses in Cambodia. He earned his master's degree of Science in Veterinary Medicine, specializing in Veterinary Public Health, from the College of Veterinary Medicine at the University of the Philippines Los Baños (UPLB), the Philippines.



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Network Overview



11 Completed Activities



20 Member Universities

34 Faculties

JEE Technical Areas



704 Individuals Trained in
One Health Topics



D3 Human Resources

9 Activities



R5 Risk Communication and
Community Engagement

2 Activities



6 One Health Student Clubs

6 One Health Collaborating
Centers



26 Informational Resources
and Products

About us

- We are a network of Indonesian higher education institutions promoting multi-disciplinary collaboration in human, animal, and environmental health sectors in Indonesia.
- Established in January 2012.
- Visit our website at <https://indohun.org/>.

Highlights

Strengthening Workforce Capacity in Indonesia

In Alignment with JEE Indicators D3.3: Workforce Training and R 5.2: Risk Communication

- Developed a Global Health Diplomacy training module recognized and approved by the Government of Indonesia. This module provides an understanding of the concepts and basic principles of health diplomacy, introducing a multisectoral approach in addressing global health problems.
- Trained 30 government officials from a variety of One Health related disciplines enabling them to manage complex and dynamic multi-sectoral issues and challenges through OH-SMART facilitator training.
- Collaborated with the Indonesian government to provide 29 student internship placements for students across Indonesia, creating unique professional experiences working in One Health.
- Supported One Health Student Clubs from each of our One Health collaborating Centers to conduct human, animal, and environmental health programs and activities.
- Conducted a novel One Health gender assessment in Papua and Aceh to better understand and integrate gender into INDOHUN trainings and activities.
- Published Emerging - One Health Magazine issue #8, highlighting Malaria.
- Expanded one new One Health Collaborating Center at Hasanuddin University, in eastern Indonesia.

Activities

OBJECTIVE I

Strengthening Workforce Capacity in Alignment with JEE Indicator D3.3

During the reporting period, the Global Health Diplomacy (GHD) Module has been developed involving all relevant stakeholders who may conduct or participate in the training in the future. This GHD module aims to provide an understanding of the concepts and basic principles of health diplomacy, introduce a multisectoral approach for addressing global health problems, as well as improve negotiation and communication skills in the context of health diplomacy. The Government of Indonesia (GoI), particularly the health training center at BBPK Ciloto (Health Training Center) by the Ministry of Health, is expected to utilize this module. Additionally, the Directorate of Health Worker Quality Improvement of the Ministry of Health has approved the insertion of this module into SIAKPEL, an information system used for proposing accreditation for online training.

INDOHUN, in collaboration with BBPK (Health Training Center) Ciloto, Ministry of Health, conducted the training on OH-SMART (One Health Systems Mapping and Analysis Resource Toolkit) from 4-8 September 2023, at the BBPK Ciloto building in Cianjur, West Java. Thirty government officials involved in One Health enhanced their understanding of the OH-SMART approach during the training session. OH-SMART is a tool to simplify the process of mapping and analyzing the One Health system that has been carried out previously. OH-SMART was developed to overcome health problems, especially those related to disease transmission at its source from animals (zoonosis). This initiative aimed to equip participants with the knowledge and skills necessary to address future One Health challenges.



INDOHUN organized TOT OH-SMART training at the IPB International Convention Center, 4-5 September 2023. Photo credit: INDOHUN

INDOHUN proudly supported 29 students selected from a pool of 2,633 applicants for a five-month One Health internship program in collaboration with the Ministry of Education, Culture, Research, and Technology (MoECRT) of Indonesia. Through this unique hands-on internship program, students engaged in diverse experiences, including One Health lecture sessions, on-the-job training, institutional visits, and the development of an independent project during their placements.

INDOHUN supported a series of One Health Student Club activities in five One Health Coordination Centers (OHCC) to facilitate student engagement in One Health-related activities. A total of 328 students had opportunities to explore and develop their potential, playing an active role in implementing One Health principles. These activities include regular classes, institutional visits, and student projects conducted under the OHCC. The activities are directly relevant to JEE indicator D3.3 as they enhance workforce development by equipping students with necessary skills in One Health competencies to address complex health challenges in Indonesia. The activities' main highlights are below.

- In March 2023, OHCC Airlangga University (UNAIR) conducted a training workshop for lecturers on One Health topics. The workshop focused on, "Strengthening Collaboration and Biosecurity Practices: An Approach to Reducing

the Burden of Disease." The purpose of this activity was to enhance the knowledge and insight of lecturers in tertiary institutions regarding the burden of disease in zoonotic diseases and biosecurity via the One Health approach.

- OHCC IPB conducted a Training for Trainer (ToT) on OH-SMART, for lecturers at IPB University. The training aimed to introduce the OH-SMART platform to academics, especially those involved in One Health-related courses, from 4-5 September 2023, at the IPB International Convention Center.
- On 13 September 2023, OHCC Gajah Mada University (UGM) organized OH-SMART training to introduce 20 stakeholders in East Kalimantan to this strategic tool for mitigating, mapping, controlling, and responding to zoonotic disease outbreaks.
- OHCC Udayana conducted the Desa Bijak Antibiotik (Antibiotic Wise Village) program in Bengkel Village with a community engagement event. The event provided information for communities in four Banjars (hamlets/community centers) and trained livestock farmers and health care workers within Community Health Center (Puskesmas) Kediri sub-district III. The goal was to increase awareness and empower them to control antibiotic misuse. This program was then continued by the private sector using their funding.



Students from the One Health Student Club (OHSC) of IPB University participating in an OHSC training activity. Photo credit: INDOHUN



OHCC UNAIR, OH workshop for academics II. Photo credit: INDOHUN

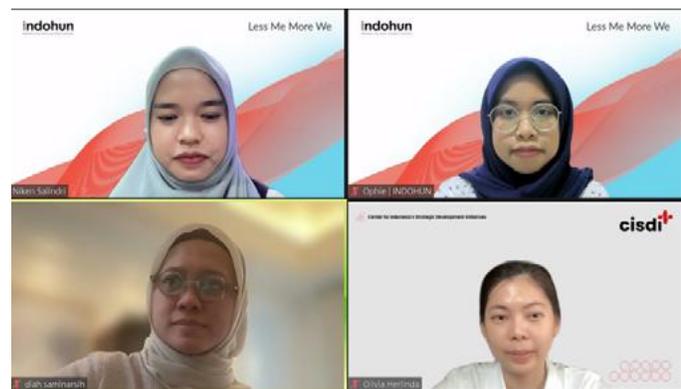
OBJECTIVE 2

Strengthening Workforce Strategy through Gender Assessment

In Alignment with JEE Indicator D3.3: Workforce Training

INDOHUN conducted a gender assessment to assess the situation of gender mainstreaming among OHW-NG beneficiaries across Papua and Aceh. Gender mainstreaming involves ensuring that gender perspectives and attention to gender equality are central to policy development, research, advocacy and dialogue, legislation, resource allocation, planning, implementation, and project monitoring. Mainstreaming gender will advance gender equality and equity, therefore enabling it to unlock the full potential of One Health.

The assessment analyzed six crucial variables: access, social norms, participation, legal rights and status, power and decision-making, and exposure to gender training. Additionally, we investigated one more variable focused on the local situation regarding gender mainstreaming in Aceh and Papua. Overall, the survey's findings were overwhelmingly positive, revealing that gender mainstreaming initiatives in Aceh and Papua had positive effects across all variables.



Virtual gender assessment consultation meeting. Photo: INDOHUN

OBJECTIVE 3

Strengthening Workforce Development

In Alignment with JEE Indicators D3.3: Workforce Training and R5.2: Risk Communication

INDOHUN has unveiled the latest edition of its digital and print magazine, *Emerging Magazine*, which focuses on Malaria, a neglected tropical disease that poses a significant global threat. The content highlights the burden of malaria, its correlation with climate change, and emphasizes the crucial role of environmental health. Notably, Indonesia holds the second highest number of malaria cases in Southeast Asia, trailing behind India (as per the WHO 2020 report). Ongoing efforts to eliminate malaria at the district and city levels face challenges exacerbated by the COVID-19 pandemic, particularly in highly endemic areas where individuals must exercise extra caution due to the potential co-occurrence of malaria and COVID-19.

To achieve the 2030 goal of malaria elimination, the central government is implementing diverse strategies including urging local governments in high-risk areas to assume more responsibility for malaria control. Active support is sought from all stakeholders and local communities to prevent malaria and sustain the malaria-free status of areas that have achieved elimination. One Health emerged as a strategic approach supporting malaria prevention in Indonesia. INDOHUN's *Emerging Magazine* serves as an informative platform, dedicated to educating and raising awareness about pressing global health issues.

INDOHUN is expanding its network by establishing a new One Health Coordinating Center (OHCC) to enhance collaboration coverage, considering Indonesia's extensive geography. With support from MoECRT, an OHCC will be established at Hasanuddin University, chosen for its potential to initiate more projects in eastern Indonesia.

From 13-16 December 2022, INDOHUN actively participated in an organizational sustainability workshop organized by SEA OHUN, in collaboration with the Global Team, in Malaysia. This workshop proved invaluable as it equipped our team with the capacity and knowledge needed to enhance our organizational and program sustainability post OHW-NG. Through this engagement, we not only deepened our understanding but also gained insights on how to assess the strength and potential of our organization, identifying areas for improvement. The sustainability workshop was instrumental in motivating our team to actively seek potential collaborations and opportunities that our organization can readily tap into. Each participant acquired knowledge through tools developed by the Global Team, specifically tailored for sustainability works, and worked on drafting a resource mobilization plan.

Lessons learned/ Good practices

Building Strong Engagement with the Government

Establishing robust connections with the government is a pivotal element in effectively tackling health challenges in Indonesia. Cultivating a strong rapport with the national government, including the Technical Counterpart Agency, Ministry of Education, Culture, Research and Technology (MoECRT) and other ministries integral to One Health initiatives, is essential for securing consistent support and recognition for our proposed activities from the intended beneficiaries. Furthermore, leveraging the government's extensive nationwide presence presents a valuable opportunity to enhance the visibility of our initiatives, enabling us to achieve positive outcomes.

Next steps

INDOHUN's Strategic Commitment to Build Partnerships for One Health Initiatives and Sustainability

INDOHUN is dedicated to fostering effective communication and collaboration with both the Indonesian government and private sectors. As we approach the final year of the OHW-NG Project, it is crucial that we proactively take measures, like formulating a comprehensive sustainability plan, to ensure recognition and approval of our initiatives by both the government and private sector. This strategic approach involves exploring potential engagement with philanthropists, private entities, Gol and ministerial bodies, and other pertinent stakeholders.

Additionally, INDOHUN plans to establish certifications and introduce paid One Health training, research, and innovative development initiatives in collaboration with GHS partners, the Gol, and other relevant stakeholders. This multi-sectoral strategy is designed to garner support for the program's long-term sustainability



Photo credit: INDOHUN

Success story

“OH-SMART Indonesia: A Sustainable Collaborative Action in Transforming One Health Knowledge”

The One Health – Systems Mapping and Analysis Toolkit (OH-SMART) showcases the power of collaboration and innovation. Hailing from the United States (U.S.), OH-SMART is a training program designed to chart and identify collaboration opportunities across disciplines and sectors. For Indonesia, it is a success story that unfolded in a unique fashion helping transform the way academic and government sectors collaborate to address complex One Health challenges.

Five INDOHUN Master Trainers, with intensive training in the U.S., introduced OH-SMART to Indonesia. Their expertise, passion, and commitment paved the way for a transformative movement. To date, INDOHUN trained over 630 OH professionals from various regions of Indonesia to utilize OH-SMART in addressing complex OH challenges. The Outbreak Investigation Training Module (2019) and the Ministry of Health's Zoonosis Training Module (2021) both incorporated OH-SMART. A highlight achievement of this transformation is that the Ministry of Health is now a leading advocate for expanding OH-SMART training into other government agencies, as they recognize its potential.

INDOHUN is the driving force behind OH-SMART in Indonesia, but our network's limited number of Master Trainers created a significant challenge. We developed an innovative solution to cultivate new Master Trainers from within government agencies. Through the generous support of the U.S. Agency for International Development (USAID), INDOHUN collaborated with the Ciloto Health Training Center (BBPK Ciloto) to produce a fresh cadre of OH-SMART facilitators. Focused on sustainability, INDOHUN first aligned themselves with important Indonesian government funding resources. We have since partnered with the Ministry of Health, Ministry of Agriculture, Ministry of Environment and Forestry, Coordinating Ministry for Human Development and Cultural Affairs, Ministry of Home Affairs, the Indonesian Public Health Association, the Indonesian Epidemiology Association, BBPK Ciloto, and BBPKH Cinagara to receive accreditation.

In August 2023 INDOHUN's OH-SMART program achieved official accreditation from the Ministry of Health, a milestone highlighting the program's value addition, with the ministry officially integrating it into the national curriculum and training. In September 2023, INDOHUN conducted a registered training program for 30 government officials and five INDOHUN managers. This accomplishment represented the completion of several pivotal actions including cost-sharing, curriculum registration within the government system, and bolstering their cohort of OH-SMART Master Trainers in Indonesia.

The success story of OH-SMART in Indonesia embodies the spirit of communication, coordination, collaboration, and cooperation to improve human, animal, and environmental health statuses. With accreditation and a robust curriculum, OH-SMART is poised to continue its transformative and sustainable journey as a positive influence on Indonesian One Health professionals and stakeholders.



Participants performing a role play session by interviewing other sectors to get in-depth perspectives on how other sectors work at the OH-SMART training, Ciloto, Indonesia, 6-8 September 2023. Photo: INDOHUN

“The competent resource persons made the material I received easier to understand. The resource person provides material in a fun and easy-to-understand way so that the material is easy to digest and not dull. The most enjoyable part of this training was the micro-teaching part. In that session, I learned a lot about being a good facilitator. In addition, at first, I didn't know any participants. However, the intensive interaction with the participants, the committee, and resource persons made me feel comfortable, and I enjoyed every part of this training. Basically, the training package is complete. If there weren't this training, perhaps I still wouldn't have a Basic Anti-Corruption Knowledge and Integrity (PADI) E-Learning certificate from the Corruption Eradication Committee...”

Niken Wuri Handayani, Functional of Forest Ecosystems Control, Ministry of Environment and Forestry, Indonesia.



One Health Champion



“Promoting One Health is an ongoing journey, and even small changes in our daily life can contribute to a healthier planet for all its inhabitants. Our individual actions, when multiplied across a global community, can have a significant positive impact. Understanding the key of One Health –collaboration, coordination, and communication– can bring us to a better execution for our One Health initiatives.”

INDOHUN

Ni Komang Semara Yanti

Program Manager at Udayana One Health Collaborating Center (OHCC)
INDOHUN

Ms. Ni Komang Semara Yanti is a Program Manager at Udayana One Health Collaborating Center (OHCC) and has been with the Indonesia One Health University Network (INDOHUN) since 2018. Currently, Semara manages two of Udayana OHCC's flagship programs: the Desa Bijak Antibiotika (SAJAKA), Antibiotic Wise Village Program, and Udayana One Health Student Club (Udayana OHSC).

Semara leads the Udayana OHCC team in organizing One Health community engagement activities to increase awareness on high priority One Health challenges such as antimicrobial resistance, zoonotic diseases, One Health education, and wildlife health and safety. She also plays a critical role in engaging universities, professional organizations, and local governments across a broad spectrum of cross-sectoral collaborative One Health activities. Semara places a strong emphasis on involving students in OHCC initiatives and collaborating with the private sector to facilitate the program's future sustainability. One of her most significant achievements in leading OH collaboration is that she can run the programs by maintaining good relationships with academics, businesses, communities, governments, and media organizations for OH activities. Knowing who to work with and which part should be taken by each party has made it much easier to initiate and sustain the program.

She earned her master's degree in public health from the University of New South Wales, Sydney, and her research interests include epidemiology, biostatistics, and community development.



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Lao One Health University Network

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LAO ONE HEALTH UNIVERSITY NETWORK

Network Overview



6 Completed Activities



5 Member Universities

14 Faculties

JEE Technical Areas

D3 Human Resources

6 Activities



317 Individuals Trained in
One Health Topics



1 Informational Resource
and Product



1 One Health
Student Club

About us

- **Our Mission:** To develop the capacity of our members to promote One Health awareness, knowledge, and practice through expansion of universities, network strengthening, and advancement of the One Health workforce.
- Established in 2018.
- Visit our website at www.laohun.org and Facebook page at <https://shorturl.at/olOPU>

Highlights

Empowering Workforce Development

In alignment with JEE indicator D3.3: fostering a skilled health workforce to address One Health challenges

Supported the LAOHUN One Health Research and Training (OHRT) Award project titled “Students participating in the survey of the prevalence of liver fluke (*Fasciola hepatica*) on large ruminants,” in Laungpreban Province, Laos.

- Facilitated Participatory Epidemiology Training for public health professionals, veterinarians, government officials, and local stakeholders, 16-18 April 2023.
- Conducted a series of One Health Student Club activities in Vientiane Capital, Laos providing opportunities for students to learn One Health related topics, March to June 2023
- Organized One Health student field trip in Vientiane Capital, 26-29 August 2023.
- Conducted the LAOHUN board meeting at Don Chan palace in Vientiane capital, Laos on 1 September 2023. During the meeting, LAOHUN officially signed Memorandums of Understanding (MOUs) with two member universities, Savannakhet University (SKU) and Champasack University (CU).

Activities

OBJECTIVE I

Leveraged the Skills of One Health Professionals through Participatory Epidemiology (PE) Training

On 16-18 April 2023, LAOHUN organized a participatory epidemiology (PE) training at Dangdok campus and the Kasethnabong Faculty of Agriculture, NUOL, for 16 in-service professionals. PE is the use of participatory approaches and methods to assess knowledge, attitudes, and practices of a particular cohort. This training focused on increasing participants' capacity to apply PE in their public health work. Participants shared ideas and discussed complex issues together from a One Health perspective. This was also an opportunity for them to expand their national OH network. This PE training directly aligns with JEE indicator D.3.3 by providing essential workforce training for in-service professionals. This activity equipped health professionals with a strong understanding of One Health concepts and collaborative skills, preparing them to address complex health challenges in Laos.

LAOHUN supported a One Health Research and Training (OHRT) Award Project

LAOHUN provided financial support to Souphavong University researchers for one OHRT project titled, “Students participating in the survey of the prevalence of liver fluke (*fasciola hepatica*) on large ruminants,” in Laungprabang province, Laos. The project team interviewed over 100 participants including teachers, students, smallholder farmers, and villagers to assess their knowledge, experience, and understanding of infectious diseases, zoonosis, and antimicrobial resistance. The survey report will be presented at the national conference, and then published to promote smallholder farmers in the next reporting period. To raise awareness, this report will also be disseminated

to relevant stakeholders including government and non-government organizations, targeted communities, and universities. This research project directly aligns with JEE indicator D.3.3 by providing essential workforce training and equipping the researchers with a strong understanding of One Health concepts.

Empowered One Health Student Clubs (OHSCs): Strengthening Capacity with Support from LAOHUN

In Year 4, LAOHUN conducted a series of OHSCs activities that are directly aligned with JEE indicator D.3.3 by providing workforce development and training. The details are as follows:

- From 3 -11 March 2023, LAOHUN organized a One Health (OH) workshop at the University

of Health Sciences (UHS), Vientiane Capital, with 25 students. The activity aimed to encourage the participants to promote OH and develop their leadership skills including effective communication, and problem-solving skills. The facilitators challenged participants to create innovative solutions to various One Health challenges such as promoting awareness on zoonotic diseases, anti-microbial resistance, food safety and security.

- From 2-3 June 2023, LAOHUN conducted a student engagement activity at Souphanaouvong University, Xieng-ngern city, with a total of 56 participants. During the session, LAOHUN provided an introduction on the fundamentals of the OH concept and how to apply the concept in real-world OH issues. For example, students learned how to communicate with affected people in zoonotic disease outbreaks. In addition, students improved their capacities on soft skills such as communication, collaboration, problem-solving skills, and critical thinking.



LAOHUN organized the third student field trip focusing on the topic of "Food Safety, Zoonotic Prevention, Waste Production in Vientiane", 26-28 August 2023. Photo credit: LAOHUN

- From 9-15 June 2023, LAOHUN conducted a training workshop on prevention and control of zoonotic diseases at two places: UHS, Vientiane Capital, with 58 students and Champasak University with 47 students. By the end of the workshop, the students had not only acquired a robust understanding of OH fundamentals but had also gained the ability to identify, assess, and address the challenges posed by zoonotic diseases. With expanded knowledge and enhanced capacity, they are becoming as well-informed and skilled young professionals capable of making meaningful contributions to the field of OH.
- On 27 June 2023, LAOHUN led a youth training workshop at the Faculty of Agriculture (NUOL) for 36 students. This activity encouraged young students to gain a better understanding of OH issues related to the environment. Students learned about relationship between climate change and zoonotic diseases with a focus on the interconnectedness of humans, animals, and the environment.
- On 30 June 2023, LAOHUN conducted a campaign on “Youth cooperation in awareness raising environmental and health safety”. The purpose of the campaign was to encourage the youth to engage in environmental and health safety awareness raising. Forty-two participants joined the campaign, and they learned to be more assertive, collaborative, and to solve problems with evidence-based solutions.
- From 26-29 August 2023, LAOHUN organized a student field trip for 80 participants including 62 students, 10 facilitators, and 8 organizers to visit one of three sites in Vientiane Capital: waste area Luk 31, a local Health Center, and Lao Dong Markhaiy market. This activity provided the students with an opportunity to apply the OH approach in real-world scenarios. For example, students had the opportunity to visit the market and learn about food safety and security by using the OH concept. The activity consisted of a virtual orientation and a one-day site visit. Read more in our [Success Story](#).



Students participating in an OH student engagement activity at Souphanaouvong University, Xieng-ngern city, Laos, 2-3 June 2023. Photo credit: LAOHUN

OBJECTIVE 2

Engagement in Collaborative Action: Active Participation in Regional and Global-Led Initiatives

Enhancing Workforce Capacity in Alignment with JEE Indicator D3.3

LAOHUN remained committed to fostering continuous learning and capacity-building. One LAOHUN member participated in two virtual Competency-Based Education (CBE) sessions facilitated by the Objective 2 team in March and April 2023. The interactive nature of these sessions facilitated a robust exchange of knowledge, contributing to the ongoing professional development of LAOHUN members. Our supportive role in regional-led assessments and surveying activities demonstrated our commitment to collaborative action, knowledge sharing, and effective coordination. This reinforces our broader objective of promoting One Health at the national and regional levels.

OBJECTIVE 3

Strategic Collaborations: Memorandums of Understanding (MOUs) with Two Member Universities in the LAOHUN Board Meeting

On 1 September 2023, LAOHUN organized the board meeting with 35 participants in Vientiane Capital. During the meeting, LAOHUN officially signed Memorandums of Understanding (MOUs) with two prestigious universities, Savannakhet University (SKU) and Champasack University (CU). The achievement stands as a significant milestone for several compelling reasons. Firstly, this marks a pivotal moment in establishing a formalized connection between our stakeholders and member universities. This also symbolizes a commitment to collaboration, shared goals, and the mutual exchange of resources and expertise, creating a foundation for sustained engagement and partnership beyond the OHW-NG project.



LAOHUN organized the board meeting at Don Chan palace Vientiane Capital, Laos, 1 September 2023. Photo credit: LAOHUN.

Lessons learned/ Good practices

Promoting Visibility and Outreach

Our member universities are essential to turning the LAOHUN dream into reality. We've learned to nurture the future generation of leaders and foster the dissemination of the One Health concept by developing One Health activities for our members to engage students and the community in the country.

LAOHUN recognized the need to spread our message to students, professionals, and the public, both locally and regionally, in a generationally appropriate context. To achieve this, we updated our digital presence across our social media platforms. Recognizing the dynamic nature of communication in the digital age, we undertook a comprehensive update to ensure that our online footprint aligns with the expectations of our audiences. This strategic effort involved not only enhancing the visual appeal of our social media platforms but also optimizing the content to cater to the specific interests and informational needs of our target audience. For example, we created an infographic that aligns with the interests of undergraduate students to promote the One Health concept and posted it on social media.

Expanding Partner Engagement

We also recognized that we need to promote cross-sector engagement with our members. To do so, we expand partner engagement with institutions like the Ministry of Health, Ministry of Agriculture and Fishery, Food and Agriculture Organization (FAO), and the World Health Organization (WHO). This reinforces our commitment to strengthening the One Health workforce and contributing to the country JEE technical area of workforce development.

Next steps

As we step into the next chapter, we plan to expand our team to ensure the successful implementation of activities in Year 5. Together, we aim to keep our progress on track and reach new heights. LAOHUN is forging robust partnerships with government sectors to pave the way for the establishment of the LAOHUN Association, a linchpin for sustainable One Health development in the Lao People's Democratic Republic. We are setting the stage for multifaceted collaborations with like-minded organizations, all committed to the noble cause of One Health.

We are also committed to building on our collaborative efforts with the SEAHOH Secretariat in the coming year. Together, we strive for the betterment of our communities, the animal population, and our shared environment, contributing to the overall benefit of the country.



Photo credit: LAOHUN

Success story

“Empowering the Next Generation Through One Health Student Field Trip”

Participating in a student field trip holds significance as it provides an opportunity for students to explore real-world situations, gaining firsthand insights into the dynamics of One Health. By stepping outside the confines of the traditional classroom setting, students can engage with practical scenarios, allowing them to witness the interconnectedness of animal, human, and environmental health in meaningful ways. This learning approach not only enhances their understanding of One Health principles but also equips them with the skills and knowledge necessary to address complex challenges in the field.

In this context, LAOHUN organized a one-day field trip for students from the University of Health Sciences (UHS) and the National University of Laos (NUOL) on 28 August 2023. To ensure everyone was well-prepared and understood their objectives, LAOHUN conducted a virtual orientation on 26 August 2023. On the following day, students got ready for the field visit by preparing mini-survey questionnaires.



LAOHUN Students field trip on 28 August at waste area Luk 32, Vientiane capital. Photo credit: LAOHUN

The trip involved a total of 80 participants, including 62 students, 10 facilitators, and 8 organizers from both universities. The students were divided into three groups, each consisting of 20 to 21 students, and were assigned to three different locations in the Vientiane capital:

1. Lao Dong Markhaiy Market: Focus on learning objectives related to food safety, proper food management, and ways to promote food safety while reducing wildlife meat consumption.
2. Local Health Center: Emphasis on understanding seasonal communicable diseases, the role of preventive health care centers, and health promotion in the community.
3. Waste Area Luk 31: Learning objectives included understanding different types of waste, the importance of proper waste management, and identifying issues of waste that affect humans and animals.

As a result, students gained knowledge about preventing infectious diseases in the community, dealing with zoonotic diseases, ensuring food safety at local markets, and managing waste properly.

The field trip significantly improved the One Health skills of the students, making them more aware of health issues related to zoonotic diseases and more committed to preventing and controlling them. To share the benefits, LAOHUN created presentation files, videos, and a detailed training report for relevant stakeholders, including Department of Public Health, and member universities in Laos.

This success story highlights the positive influence of hands-on learning and collaboration in the One Health field. Through this experience, LAOHUN sparked a passion for One Health principles, nurturing a new generation of professionals and leaders dedicated to improving public health and the environment in Lao PDR.



Students surveying food handling procedures and knowledge about food safety and security at the Lao Dong Markhaiy market, Vientiane capital, Laos, 28 August 2023. Photo: LAOHUN



Students observing food safety and security at the Lao Dong Markhaiy market, Vientiane capital, Laos, 28 August 2023. Photo: LAOHUN

One Health Champion



“Imagine a world where humans, animals, and the environment coexist in harmony, where diseases are prevented rather than treated, and where the well-being of all is prioritized. This vision of One Health inspires us to work together towards a healthier and more resilient world.”

LAOHUN

Malavanh Chittavong

Associate Professor
Faculty of Agriculture, National University of Laos

Malavanh Chittavong is an Associate Professor at the Faculty of Agriculture, National University of Laos. She is the LAOHUN Coordinator and mentors students in One Health Student Club. Malavanh Chittavong’s love for public health and animal welfare drives her involvement in the club. She promotes the integration of human, animal, and environmental health through various programs and competitions. Her exceptional talent and contributions to LAOHUN make her a prominent figure in the One Health field.

Malavanh Chittavong plays an integral role at LAOHUN as she prioritizes promoting the Student Club and engaging more member universities to stimulate participation in LAOHUN meetings and activities. She is dedicated to creating a supportive learning and research environment for her students. Her commitment to enhancing their academic experiences and inspiring them to pursue their passions with enthusiasm is truly commendable.

Malavanh Chittavong is a devoted lecturer and researcher with a strong background in livestock production, management, parasitic foodborne diseases, animal welfare, and healthcare. Her leadership through various organizations and public health campaigns showcases her commitment to effecting positive and sustainable change in her community. She earned her PhD from the Swedish University of Agricultural Sciences in 2012.



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SEA OHUN
Southeast Asia One Health
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MyOHUN

MALAYSIA ONE HEALTH UNIVERSITY NETWORK

Network Overview



13 Completed Activities



17 Member Universities

22 Faculties

JEE Technical Areas

D3 Human Resources

12 Activities



473 Individuals Trained in
One Health Topics

R5 Risk Communication and
Community Engagement

1 Activity



9 One Health
Student Clubs



5 Informational Resources
and Products



6 New Partnerships
Developed

About us

- **Our mission:** To link and enable universities, government, and relevant agencies to generate social and intellectual capital on One Health against infectious and zoonotic disease.
- We serve as the longest serving national platform for building capacity of students, faculty, and professionals to work across disciplines and sectors for the improved response to One Health related threats.
- Established in 2012.
- Visit our website at <https://myohun.com/>.

Highlights

- MyOHUN, in collaboration with Boehringer Ingelheim Malaysia, Chevron, SEAOHUN, Universiti Putra Malaysia (UPM), Rhone Ma, and local stakeholders, launched the Angels Initiative and Stop Rabies Campaign. The initiative aimed to raise rabies awareness among secondary school students in Kebangsaan Kota Samarahan and implement a rabies vaccination program in the Serian District, Sarawak, 18-19 August 2023.
- Technical and Vocational Education and Training (TVET) educators gathered in Langkawi for the Malaysia Youth One Health Workshop (MYOHW) to enhance the One Health approach in innovations and technology.
- Eight universities received direct funds to implement student activities for their One Health Student Club as part of the OHW-NG Project.
- Established a new One Health Student Club at Universiti Malaysia Sabah (UMS), January 2023.

Activities

OBJECTIVE I

Strengthening Health Security Workforce in Malaysia

In alignment with JEE Indicator D3.3: Workforce Training

1. The Ministry of Youth, Sports and Entrepreneur Development Sarawak, Kuching, hosted the in situ One Health PBL program from 8-12 June 2023. A total of 39 undergraduate students from medical, veterinary, environmental, biomedical, and animal sciences visited the Semenggoh dan Matang Wildlife Centres in Kuching, Sarawak. The participants learned about wildlife conservation with diverse animal species.
2. MyOHUN conducted the One Health Field Epidemiology Training Program (OH-FETP) with more than 43 participants from 11-16 June 2023 in Kota Kinabalu, Sabah.
3. MyOHUN trained 50 students through the One Health Young Leaders and Communicators (OHYLC) program from 14-18 June 2023. The multidisciplinary cohort of students learned fundamental One Health concepts, technical skills, and soft skills necessary for collaboration when tackling One Health challenges.
4. From 26-29 July 2023, MyOHUN conducted Malaysia Youth One Health Workshop (MyOHW) at De'Baron Resort Langkawi. The event targeted One Health educators in Technical and Vocational Education and Training (TVET) to enhance understanding of One Health principles for TVET curriculum developers and prepare future health professionals.



Students participating in "Zoonotic diseases and Anti-microbial Resistance Awareness" activity in Pusat Pemulihan Orang Kurang Upaya (PROKA), Kampung Aur, Bachok, Kelantan, Malaysia, 23 July 2023. Photo credit: MyOHUN.

5. We hosted our One Health table-top simulation at Bangi Resort Hotel in Selangor from 6-9 August 2023. The simulation focused on outbreak investigation and management for post-graduate students. Participants led in-depth discussions and strategic response planning for simulated outbreaks, guided by expert mentors. The cohort also visited the Malaysian Quarantine and Inspection Services (MAQIS) at Kuala Lumpur International Airport (KLIA).
6. From 24-27 August 2023, MyOHUN facilitated malaria community education sessions at Kampung Orang Asli Abu, Cameron Highlands. Twenty-two students and five facilitators from multidisciplinary backgrounds visited the vector control unit in Cameron Highlands to observe the Ministry of Health's malaria control programs.
7. MyOHUN, the Ministry of Health (MOH), the Department of Veterinary Services (DVS), and the Department of Wildlife and National Parks Peninsular Malaysia (PERHILITAN) collaborated with the Kuala Langat Municipal Council (MPKL) to organize, "World Zoonoses Day" on 26 August 2023, in Banting, Selangor. The event focused on preventing leptospirosis by raising awareness about transmission routes from animals to humans.

Enhancing Community Engagement through One Health Student Clubs (OHSCs)

Eight MyOHUN One Health Student Clubs (OHSC) organized a wide range of activities, including seminars, community outreach events, awareness raising, and truly fostered the spirit of One Health. These activities directly align with JEE indicator R 5.3 as they promote community awareness related to One Health and they strengthened the understanding of One Health in addressing complex health issues among the communities listed below.

1. 12–14 May 2023: Universiti Malaysia Sabah (UMS) OHSC led, "One Health, One Planet and One Future Treasure Hunt: A Fun Way for Secondary School Students," in Kudat, Sabah.
2. 19-21 May 2023: International Islamic University Malaysia (IIUM) OHSC conducted, "Field Sampling and Awareness Program on Zoonotic Knowlesi Malaria for Future One Health Workforce," at the Kuantan Campus.



MyOHUN organizing Malaysia Youth One Health Workshop (MyOHW) at De'Baron Resort Langkawi, Malaysia, 26-29 July 2023. Photo credit: MyOHUN

3. May to June 2023: University Putra Malaysia (UPM) OHSC launched, "Walk on the Wild Side," a three-episode series: 1) Kota Damansara Community Forest, Petaling Jaya on May 27, 2023, 2) Semenyih Eco Venture Village, Selangor on June 25, 2023, and 3) Elmina Rainforest Knowledge Centre, Shah Alam on June 26, 2023.
4. 23-25 June 2023: Universiti Kebangsaan Malaysia (UKM) OHSC held an outreach to the Orang Asli, "Becoming Agents of Change," at Kampung Orang Asli, Pos Lenjang, Kuala Lipis, Pahang.
5. 24 June 2023: Universiti Malaysia Kelantan (UMK) OHSC hosted, "Community Awareness on Cat Scratch Disease: Small Scratch," and, "Neofelis Fun Cat Show," at Dewan Tuanku Canselor, UMK Campus, Bachok.
6. 24 June 2023: Universiti Malaysia Sarawak (UNIMAS) OHSC held, "e-WASTE Exhibition & Talk Day," at Dewan Serbaguna Pavillion UNIMAS.
7. 3 July 2023: Universiti Sains Malaysia (USM) OHSC sponsored, "One Health Malaria Awareness With Indigenous People," in Sungai Rual, Jeli, Kelantan.
8. 22-23 July 2023: Universiti Sains Islam Malaysia (USIM) OHSC hosted a community awareness program, "Human-Animal-Ecosystem Interface," at Pulau Ketam, Selangor.

Booster Scholarships Igniting One Health Engagement in Community-Level

In alignment with JEE Indicator R5.3: Community Engagement

In Year 4, MyOHUN awarded six booster scholarships for One Health teaching and learning to six recipients to conduct One Health-related community level or field activities for the courses attached to their program curriculum. These scholarships empower recipients to champion One Health initiatives at the community level, offering them the chance to engage with real-world situations and effectively address challenges within the One Health realms. The following table shows the projects conducted by each recipient who received booster scholarships.

Recipient	Project Title
1. Dr. Edre Bin Mohammad Aidid	Community Medicine Outbreak Investigation
2. Dr. Mohd Hafiz Bin Jaafar	Community Health Engagement and Program Evaluation (CHEAP)
3. Assoc. Prof. Dr. Choong Siew Shean	Zoonoses And Antimicrobial Resistance Awareness Among Wildlife Workers and Farmers
4. Dr. Syamira Syazuana Binti Zaini	Rabies Simulation Assessment Day
5. Dr. Zulkhairi Naim Bin Sidek Ahmad	Enhancing One Health Competencies Through Transformative Field Exercise on Risk Assessment Related to Melioidosis via Community-Based One Health Education Program in Sabah
6. Dr. Shalinawati Ramli	Safe Food Today for a Healthy Tomorrow

OBJECTIVE 2

Fostering Workforce Capacity in Alignment with JEE Indicator D3.3

MyOHUN's National Coordinating Office (NCO) implemented an online dashboard, SOLVE, to allow the NCO to analyze performance data in real-time. This includes charts, graphs, and other visual representations of our performance data. This is a valuable tool for monitoring and enhancing the organization's performance and MyOHUN's influence in the regional One Health arena.

MyOHUN also participated in a Competency-Based Education (CBE) Workshop at the regional level in Cambodia in September 2023, with academicians as participants.

Our very own Dr. Farina Mustaffa Kamal from UPM served as a trainer for the two-day workshop held at Sunway Hotel, Cambodia.

MyOHUN has actively supported SEAOHUN with the One Health beneficiary survey and the pilot competency assessment conducted by the country liaison. Several programs, including the Field Epidemiology Training Program (FETP), One Health Table-Top Simulation Exercise for Postgraduate Students, STOP Rabies Campaign, and others were selected. We are optimistic that the data collected will contribute to enhancing capacity and faculty development.



Students from a primary school in Sekolah Kebangsaan Kuala Tahan are learning about how to properly wash their hands during the Community Health Engagement Program, led by Dr. Mohd Hafiz Bin Jaafar at USIM, Malaysia, on 16 August 2023. Photo credit: MyOHUN.

OBJECTIVE 3

Strengthening Human Resources to Align with JEE Indicator D3.3

On 23 February 2023, MyOHUN joined the Sustainability Virtual Community of Practice (VCoP) organized by the SEAOHUN Secretariat in collaboration with the global team. The VCoP shared effective strategies and best practices for offering fee-based courses as part of a sustainability strategy. On 14 August 2023, a follow-up session titled “Harnessing Artificial Intelligence for Resource Mobilization” introduced ways to utilize Artificial Intelligence (AI) like ChatGPT and Microsoft Bing Chat to support resource mobilization efforts. The training also provided a platform for OHUNs to exchange updates on their sustainability plans with one another.

From 19-21 February 2023, MyOHUN hosted a strategic planning meeting at the Holiday Inn in Melaka to provide updates on our Year 4 work plan. Participants engaged in open discussions to evaluate previous initiatives and identify opportunities for enhancement in upcoming projects.

MyOHUN continued to forge and enhance partnerships with Sandia National Laboratories (SNL) and the Defense Threat Reduction Agency (DTRA) by conducting several programs. The below programs, under separate funding from SNL and DTRA, benefitted the Malaysian researchers, academic staff, government officers, and students as they receive appropriate training focused on pathogenic organism safe handling:

1. Biological Threat Reduction Program (BTRP) U.S. Department of Defense (DOD) representatives' visit with MyOHUN
2. Biorisk Management Trainer Development workshop on 16 June 2023
3. Biorisk Management (BRM) Curriculum Modules Roadshow from 6-7 August 2023
4. Biorisk Management (BRM) Laboratory Self-Assessment workshop from 14-17 August 2023



Photo credit: MyOHUN



Dr. Lattifach Hassan, a MyOHUN Coordinator, discussing MyOHUN strategic plan during the Strategic Planning Meeting, 19 February 2023. Photo credit: MyOHUN

Lessons learned/ Good practices

Leveraging Corporate Partnerships with Boehringer Ingelheim and DTRA for a Stronger One Health Approach

MyOHUN encountered challenges in creating effective public awareness campaigns. These initiatives require broad-reaching efforts that are difficult to achieve independently. Collaborations and partnerships with pharmaceutical companies like Boehringer Ingelheim and private corporations like Chevron played an essential role in enhancing our capacity. Collaborating on the Angels Initiative and the Stop Rabies Campaign showed us that corporate partnerships can be mechanisms for reaching diverse communities. We plan to continue seeking such partnerships to boost our initiatives.

Tailoring Communication to the Specific Needs of the Indigenous Community Significantly Enhanced the Effectiveness of the Health Education Program

Initially, the program did not consider the indigenous community's unique cultural and educational backgrounds. This led to limited engagement and understanding. Incorporating local teachers into a health education program demonstrates a commitment to cultural competency and community-centred approaches. Their involvement can significantly enhance the effectiveness and sustainability of the program by tailoring it to the specific needs and context of the indigenous community. This lesson underscores the importance of engaging with the community's own resources and expertise to achieve meaningful and lasting outcomes.

Next steps

Leveraging Data Collection and Research

MyOHUN plans to initiate research projects in collaboration with academic institutions and public health organizations to collect data on zoonotic disease prevalence, environmental impact assessments, and the effectiveness of One Health interventions. Research outcomes will contribute to evidence-based decision-making, policy advocacy, and the development of targeted interventions to address specific health challenges in our focus regions within the country.

Partnership Expansion

We aim to establish new partnerships with pharmaceutical companies in Malaysia such as Pfizer, Johnson & Johnson, Abbott Laboratories, UG Healthcare Corp Ltd, as well as governmental health agencies and environmental organizations. By doing so, we seek to expand our network and resource base. These partnerships will not only facilitate resource mobilization but also encourage knowledge sharing and collaborative efforts. The goal is to implement effective One Health projects on a larger scale, leveraging the collective expertise and resources of our diverse network.

Continuing the Journey of Capacity Building

Our organization will continue offering training programs and workshops for healthcare professionals, veterinarians, educators, and community leaders to build capacity in One Health approaches. Strengthening the skills and knowledge of individuals will enable them to lead and sustain One Health initiatives in their respective regions, promoting long-term influence.



Photo credit: Dr Mohd Hafiz Jaafar, Universiti Sains Islam Malaysia (USIM) and MyOHUN

Success story

“Pet ownership and love come with responsibility. Getting my dog vaccinated against rabies is a must. It was a quick and easy process, and now I have peace of mind. I’m not just protecting my pet; I’m helping to keep our community safe. If you’re a dog owner here, get your dog vaccinated. It’s a small act that saves lives.”

Lim Chieng Jin, Dog Owner

“The high number of rabid dog bites heightens the urgency to combat rabies together with the community.”

Dr Nicholas Jenek, Deputy
Director Department of
Veterinary Services Sarawak
(DVSS)

“One Vaccination at a Time, Fight the Silent Threats”

Despite global efforts to curtail and eliminate rabies, it continues to pose [a deadly zoonotic threat in specific regions, including the state of Sarawak](#), Malaysia. Since its first reported case of human rabies in 2017, Sarawak has recorded 65 deaths. In the current year alone, Sarawak’s Deputy Premier, Datuk Seri Dr. Sim Kui Hian, revealed 17 human rabies cases in the state, resulting in 15 deaths between January and September 2023.

The Angels Initiative and Stop Rabies Campaign are collaborative efforts organized by Boehringer Ingelheim Malaysia in partnership with Chevron, SEAOHUN, MyOHUN, Universiti Putra Malaysia (UPM), Rhone Ma, and various local stakeholders, including the Department of Veterinary Services Sarawak (DVSS). Sponsored by Chevron, the two-day program provided an opportunity for undergraduate students from veterinary and human health to participate and enabled three UPM academics and one MyOHUN staff member to join the program.

As part of the preparation, students were required to undergo online training via the Global Alliance for Rabies Control platform, obtain Rabies Educator Certification, and be fully vaccinated against rabies to ensure their competency and safety during on-site activities. The first part of the campaign took place on August 18, 2023, at the secondary school in Kebangsaan Kota Samarahan, focusing on empowering the young generation to advocate for rabies prevention in their community. More than 350 primary and secondary students from four schools in the district attended the half-day program. Activities included a short rabies awareness cartoon presentation, a rabies-focused poster competition, and art-based activities to encourage demonstration and reinforcement of the students’ rabies knowledge retention.

The second part of the program occurred on August 19, 2023, at Sekolah Jenis Kebangsaan (C) Chung Hua in Serian District, Sarawak. The program focused on increasing community rabies awareness, especially among dog and cat owners, and included pet vaccination campaigns. During the event, over 20 veterinarians, assisted by local university students, vaccinated approximately 250 pet dogs and cats. The program also offered free stroke risk screenings to the community, providing dual benefits of healthcare and rabies prevention. University students played a pivotal role as rabies educators.

The generous support from Chevron and SEAOHUN made these activities possible. MyOHUN continues to foster and enhance the application of the One Health concept among different stakeholders in Malaysia via sustainable and collaborative initiatives. This remarkable success story is a testament to the organization's unwavering commitment to creating a healthier future for humans and animals by safeguarding the well-being and health of Malaysia one public health threat at a time.

“Through this program, I’ve been provided with a platform for meaningful interaction between the participants as well as communities. I really enjoyed sharing the knowledge on rabies, which can have a huge impact on the rate of morbidity and mortality of rabies cases in the area.”

Mohd Khairudin, Medical student from Management and Science University (MSU)



Photo credit: MyOHUN

One Health Champion



“My involvement in One Health activities allows me to work with people from various backgrounds and disciplines, providing more insight and broadening my mind on One Health issues and the importance of working together to solve problems.”

MyOHUN

Dr. Syafinaz Amin-Nordin

Professor of Medical Microbiology,
Universiti Putra Malaysia (UPM), MyOHUN member

Dr. Syafinaz Amin-Nordin is a professor of Medical Microbiology at Universiti Putra Malaysia (UPM). She is also the Deputy Director (Clinical Support) and a Consultant Clinical Microbiologist at Hospital Sultan Abdul Aziz Shah (HSAAS), UPM. She led her department members in setting up the molecular laboratory at HSAAS to detect SARS-CoV-2 and conduct genomic sequencing.

Additionally, she advocated for international collaboration, serving as an expert contributor to a document for the Food and Agriculture Organization of the United Nations (FAO) on Group B Streptococcus in freshwater fish, and she initiated the interest group on zoonosis in the Malaysian Society of Chemotherapy and Infectious Diseases.

Dr. Syafinaz is a member of the Malaysia One Health University Network (MyOHUN) and often leads educational activities to strengthen the future One Health workforce. Her contributions include creating content for problem-based simulation activities, an online module for COVID-19 laboratory diagnosis, and facilitating a regional Training of Trainers (ToT) on problem-based learning.

Additionally, she is involved in community-based One Health education activities and applies gamification as a tool to engage youth on One Health topics. She earned her degree with a specialization in Pathology (Medical Microbiology) from the Universiti Kebangsaan Malaysia (UKM).

MMOHUN

MYANMAR ONE HEALTH UNIVERSITY NETWORK

Network Overview



3 Member Universities

7 Faculties

About us

- **Our mission:**
To develop a resilient and competent One Health workforce by leveraging education, research, and training excellence provided by member Universities.
- Formed in 2019.
- Visit our webpage at www.seaohun.org/mmohun.

Highlights

Leveraging Health Security Workforce and One Health Research Innovation in Myanmar

In Alignment with JEE Indicators D3.2 and RI.6: Enhancing Research Development and International Health Regulations (IHR)

- Completed a regional One Health Research and Training (OHRT) Award project titled, "Survival Analysis of Hospitalized COVID-19 Patients in New Yangon General Hospital by Prognostic Indicator," led by Dr. May Soe Aung, in December 2022.
- Completed two local One Health Research and Training (OHRT) Award projects titled, "Serological Investigation on Coxiella burnetii Infection (Q Fever) in Domestic Cattle and Goats in Nay Pyi Taw Area in Myanmar," and "Prevalence of Staphylococcus aureus and its antimicrobial resistance in food and non-food items in relation to food hygiene practices of food handlers from market food shops in Yangon, Myanmar," November to December 2022.

Activities

OBJECTIVE I

Leveraged Understanding of Neglected Zoonotic Diseases in Myanmar

Under the SEAOHUN OHRT Awards Program, Dr. Haling Hlaing Myint completed her cross-sectional study, "Serological Investigation on Coxiella burnetii Infection (Q Fever) in Domestic Cattle and Goats in the Nay Pyi Taw area," in December 2022. Dr. Myint and her four team members conducted serological tests on 920 serum samples (184 cattle, 736 goats) for Coxiella burnetii antibodies from three sites in the Nay Pyi Taw region. The team also engaged local farmers to educate them on neglected zoonotic diseases throughout Myanmar. According to Dr. Myint, this groundbreaking study is the first report of Coxiella burnetii circulation in these areas of Myanmar. They documented serological evidence of Q fever in domestic goats and took a significant step towards understanding this zoonotic disease better to improve mitigation efforts.

This research is directly relevant to JEE Indicator D3.2 and R1.6 as it enhances the capacity and competence of professionals in conducting this research related to Q Fever, equipping them with the necessary skills to effectively implement International Health Regulations (IHR) and contribute to the coordinated response within Myanmar.

Successful Completion of a Research Project on COVID-19 Patients at New Yangon General Hospital

Dr. Thant Syn Htoo, assistant lecturer in the Department of Medicine at the University of Medicine I, Yangon, received funding from the SEAOHUN OHRT Awards program to conduct, "Survival Analysis of Hospitalized COVID-19 Patients in New Yangon General Hospital by Prognostic Indicators." Dr. Htoo and his three team members completed the project in November 2022. Their project compared patient demographics and comorbidity profiles among hospitalized COVID-19 patients to identify prognostic indicators influencing mortality during the third wave of the pandemic in Myanmar.



Dr. Thant Syn Htoo and his team working on COVID-19 in-patients registers and records at New Yangon Hospital, Yangon, Myanmar.

This research is directly relevant to JEE Indicators D 3.2 and R 1.6 as it enhances the capacity and competence of professionals in conducting this research related to COVID-19, equipping them with the necessary skills to effectively contribute to the research development, and contribute to the coordinated response within Myanmar.

Completed Assessment on Food Hygiene Practices among Food Handlers in Yangon

Dr. May Soe Aung, associate Professor at the University of Medicine 1, received a regional SEAOHUN OHRT Award in Year 3 for her project, "Prevalence of *Staphylococcus aureus* and its antimicrobial resistance in food and non-food items in relation to food hygiene practices of food handlers from market food shops in Yangon, Myanmar." She completed her project in January 2023. The team assessed food hygiene practices of food handlers in the market food shops. They also tested food and non-food items for *Staphylococcus aureus* bacteria and characterized potential antibiotic resistance patterns of positive samples. The research findings underscored the need for regular checks on practices and requirements among food handlers selling their products at the wet markets in Yangon, Myanmar. This is essential for improving preventive measures and reducing the risk of disease outbreaks caused by foodborne infections. This activity is directly aligned with JEE technical areas RI.6 and P 4.5 as it enhances the skills of the OH professional to conduct innovative research on AMR and equips them to effectively respond to AMR related challenges within the country. Read more in [Success Story](#).



Dr. May Soe Aung and her team introducing food hygiene practices to food handlers at local food market, Yangon, Myanmar. Photo Credit: Dr. May Soe Aung.

OBJECTIVE 2

During the reporting period, beneficiaries of MMOHUN actively contributed to the regional-led One Health Beneficiaries (OHB) survey under Transition Award. This survey serves as a follow-up to the Year 2 alumni survey led by the Objective 2 team. Its primary objectives are to monitor the progress of participants, gain deeper insights into their engagement within the regional network, and lay the groundwork for future training curricula.

The OHB survey plays an important role in shaping future training initiatives, which will directly benefit professionals within the country. By contributing to the country's JEE technical area D.3.3, specifically focusing on workforce development, the survey aims to enhance the skills of One Health professionals.

OBJECTIVE 3

We originally intended to convene a strategic planning meeting among our member Universities in Myanmar. Unfortunately, we postponed the meeting due to unforeseen challenges in the country.

Lessons learned/ Good practices

Despite the unexpected challenges faced in Myanmar, MMOHUN remains steadfast in its collaboration with the SEAOHUN Secretariat and its country networks, working tirelessly to enhance the One Health Workforce in the region.

Next steps

MMOHUN remains committed to actively engaging with the One Health workforce by intensifying efforts to raise awareness of One Health within our communities. We will also extend our support to enable disease detection, surveillance, and research capabilities. Furthermore, MMOHUN is dedicated to fostering collaborative initiatives with local and regional networks to develop One Health activities in the region.



Dr. Thant Syn Htoo and his team working on COVID-19 in-patient registers and records at New Yangon Hospital, Yangon, Myanmar.

Success story

“[The] SEAOHUN program is very supportive for researchers to conduct large projects that can provide invaluable data and results important for regional health issues.”

“During presenting the project finding to YCDC, we suggested the responsible persons to provide more training for good hygiene practices for food handlers of markets food shops and provision of adequate water supply for cleansing purposes in markets. For the further, we are interested in the research related to Community Acquired Antimicrobial Resistant Infection conduct in Yangon and also in other regions of Myanmar.”

Dr. May Soe Aung,
Project Team leader

“Promoting Food Safety: Understanding *Staphylococcus aureus* and AMR in Yangon’s Markets”

In Yangon, Myanmar’s crowded urban city, the rising threat of antimicrobial resistance (AMR) foodborne illnesses caused by *Staphylococcus aureus* (*S. aureus*) are pressing public health concerns. Yangon has densely populated marketplaces, making it an intriguing focal point for studying the presence of *S. aureus*. While previous studies investigated *S. aureus* in food handlers in Myanmar, the contamination and AMR patterns of *S. aureus* in both food and non-food items within these market food shops remained relatively unexplored.

To address this gap in our understanding, Dr. May Soe Aung and her team conducted a cross-sectional study in 2022, supported by the SEAOHUN OHRT Awards program. They assessed the characteristics of *S. aureus* and its resistance to antimicrobials in both food and non-food items. The research also considered the hygiene practices of food handlers in the bustling market food shops of Yangon.



Dr. May Soe Aung marking food samples for research, Yangon, Myanmar

The project sampled 16 markets across six districts in the Yangon region. Researchers engaged 75 food handlers primarily responsible for preparing and selling ready-to-eat food, often featuring meat or fish. The team meticulously evaluated various aspects of their hygiene practices, including hand washing, utensil cleaning, safe food storage, waste disposal, personal hygiene, and the use of personal protective equipment (PPE) like masks, caps, gloves, and aprons.

This study shed light on the connection between food hygiene practices and *S. aureus* prevalence. They observed that food handlers with poor hygiene practices had a higher likelihood of having *S. aureus* present in both food and non-food items. Their findings provide essential baseline data on the widespread presence of *S. aureus* and its resistance to antibiotics in food and non-food items within the open markets accessible to the Yangon community. Detecting *S. aureus* in these settings, regardless of food handler hygiene practices, underscores the necessity for continuous monitoring of bacterial contamination in ready-to-eat foods sold in markets. This proactive approach is vital to prevent unpredicted food-related illnesses.

The team showcased their research by presenting a poster at the 51st Myanmar Health Research Congress, disseminated their findings through publication in the International Journal of Community Medicine and Public Health, and delivered a policy brief to key stakeholders, including the Ministry of Health, the Yangon Regional Health Department, and the Yangon City Development Committee (YCDC). This collaborative effort emphasizes the positive influence of research in creating a healthier environment for communities in Myanmar.

Moreover, these findings provide evidence for local authorities to address food-related illnesses and promote proper food handling practices within the country. This evidence serves as a valuable resource for health education initiatives and awareness-raising activities aimed at fostering a more informed community in Myanmar.



Dr. May Soe Aung and her team discussing food handling practices with food handlers, Yangon, Myanmar



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SEA OHUN
Southeast Asia One Health
University Network

PHILOHUN
Philippine One Health University Network

PhilOHUN

PHILIPPINE ONE HEALTH UNIVERSITY NETWORK

Network Overview



5 Completed Activities



11 Member Universities

15 Faculties

JEE Technical Areas

D3 Human Resources

5 Activities



28 Individuals Trained in
One Health Topics



11 New Partnerships
Developed

About us

- **Our Mission:** To build a strong and sustainable One Health university network that collaborates across sectors to improve health for all
- PhilOHUN was established in December 2019.
- Visit our webpage at <https://www.philohun.org/>.

Highlights

Strengthening Health Workforce in the Philippines

- Successfully organized PhilOHUN GHS kick-off meeting with a total of 69 multidisciplinary participants in Manila, 28-29 March 2023
- PhilOHUN actively engaged in two virtual Competency-Based Education (CBE) webinars facilitated by the Objective 2 team. The sessions covered 'Formative Assessment in CBE' on 17 March and 'Systems Thinking and CBE' on 21 April 2023.
- Conducted One Health student field trip in collaboration with Benguet State University (BSU), Pampanga State Agricultural University (PSAU), local Pampanga government agencies, and private organizations in Pampanga, 6-7 July 2023
- Conducted a series of webinars and in-person workshops on One Health awareness, August to September 2023
- Hosted a workshop on developing an Epidemiology training course in collaboration with the Department of Health, Epidemiology Bureau (DOH-EB), 26 September 2023
- PhilOHUN organized a two-day planning meeting with 30 participants, including representatives from member universities, stakeholders, implementers, and Mission representatives in Manila, 31 August - 1 September 2023.
- PhilOHUN updated the website, gained visibility and social media attention. This improved not only PhilOHUN's brand and communication strategy through visibility and transparency but also streamlined the organization's operations and communications.

Activities

OBJECTIVE I

PhilOHUN One Health Student Field Trip: Rabies Control Activities in Pampanga

From 6-7 July 2023, we collaborated with Benguet State University (BSU), Pampanga State Agricultural University (PSAU), local Pampanga government agencies, and private organizations to conduct our One Health student field trip. National rabies control and elimination experts led 28 students on an immersive field experience. Facilitators exposed the students to practical applications of One Health concepts and theories to demonstrate the key roles they play in community-based rabies initiatives. The students received lectures on the status of rabies prevalence, preventative efforts, treatments, and diagnostic advancements. They also visited a local animal shelter and participated in spay and neutering campaigns. This student field trip is directly relevant to JEE indicator D3.3 as it contributes to workforce training by equipping young students with a foundational understanding of the One Health approach.



Students from Benguet State University (BSU) and Pampanga State Agricultural University (PSAU) participating in rabies control activities during the field trip in Pampanga, the Philippines, 6-7 July 2023. Photo credit: PhilOHUN

Raising Awareness on One Health Across Universities

These initiatives to raise awareness are aligned with JEE indicator D3.3, as it plays a role in training the workforce. It achieves this by imparting young students with a fundamental comprehension of the One Health approach, a crucial aspect for nurturing a skilled and ready workforce capable of tackling intricate health challenges in the Philippines.

1. The webinar, "Health Risks Prevention in Coastal and Upland Communities through One Health Awareness," is a three-hour webinar organized by PhilOHUN and Partido State University (ParSU). The webinar's objective is to disseminate One Health knowledge and its application to mitigating health risks in the coastal and upland communities; this is an important local issue for ParSU.
2. PhilOHUN conducted a One Health awareness seminar for students and faculty of West Visayas State University (WVSU) themed, "Health for ALL." A combination of lectures and workshops allowed 173 participants to learn about the One Health approach to improve human, animal, and environmental health.
3. The activity, "Building Bridges through One Health Approach," was a full day seminar organized by PhilOHUN and Central Mindanao University (CMU). The seminar promoted One Health awareness and its role in addressing public health security. The topics focused on teaching all 177 participants how the One Health approach can help combat emerging and reemerging infectious diseases.



One of the students from Benguet State University receiving his certificate of participation in the One Health Student Field Trip in Pampanga and Tarlac last, 7 July 2023. Photo credit: PhilOHUN

Development of an Intermediate Epidemiology Training Course

On 26 September 2023, PhilOHUN organized, “Integration of One Health to the Intermediate Epidemiology Course of the Department of Health,” with the Department of Health, Epidemiology Bureau (DOH-EB). A total of 30 participants utilized One Health concepts and fundamental principles to redevelop the DOH-EB Intermediate Epidemiology Course (IC) modules for their FETP fellows. Additionally, they identified One Health competencies to incorporate into the FETP IC. Staying true to the One Health spirit, the cohort consisted of multisector and multidiscipline One Health professionals from throughout the Philippines. This training is directly relevant to JEE indicator D3.3 as it enhances workforce capacity by equipping in-service health professionals with the necessary skills in One Health competencies to address complex health challenges in the country.

OBJECTIVE 2

PhilOHUN took part in the Objective 2-led training on Competency-Based Education (CBE), which was conducted through two virtual sessions. The first session, held on 17 March, focused on “Formative Assessment in CBE,” while the second session on 21 April covered “Systems Thinking and CBE.” Participants were equipped with a CBE framework designed for local settings. This activity is directly relevant to JEE indicator D3.3 as it contributes to workforce training by equipping the individuals with necessary skills in One Health education.



Dr. Ernesto Bontuyan Jr., Project Management Specialist from USAID Philippines, providing speech during PhilOHUN planning meeting at Rizal Park Hotel, Manila, 31 August 2023. Photo credit: PhilOHUN.

OBJECTIVE 3

PhilOHUN GHS Project Kick-off Meeting

From 28-29 March 2023, PhilOHUN conducted GHS kick-off meeting with a total of 69 multidisciplinary participants in Manila. The representatives from PhilOHUN member universities, development partners, national government agencies, and the academia attended the meeting. During the first day, speakers introduced PhilOHUN, presented SEAOHUN and USAID’s GHS project, discussed the 2018 IHR JEE findings, and planned priority actions. On the second day, participants mapped resources for IHR human resource development and opportunities for PhilOHUN to emerge as a GHS leader in the Philippines. This activity is directly aligned with JEE indicator D3.1, Multi-workforce strategy.

PhilOHUN Planning Meeting

PhilOHUN organized a two-day planning meeting with 30 participants from 31 August to 1 September 2023, in Manila. During the meeting, PhilOHUN presented the OHW-NG Year 5 work plan and invited member universities, stakeholders, implementers, and representatives from USAID Philippines. On the first day, the Country Coordinator presented the OHW-NG Year 5 work plan.

On the second day, the focus shifted to PhilOHUN's Board Meeting, opened by Dr. Vipat Kuruchittham, Executive Director of the SEAOHUN Secretariat. Dr. Vipat underscored the importance of enhancing organizational capacity to effectively manage direct funding from USAID, a strategic move that PhilOHUN may adopt in its journey towards sustainability and independence.

This meeting provided PhilOHUN with a platform to collectively chart its course, fostering a sense of shared direction. Moreover, it instilled a profound sense of ownership and accountability among stakeholders regarding the management and future development of the organization. This meeting is directly aligned with JEE indicator D3.1, as it promotes effective coordination in responding to One Health activities and implementation through a diverse multisectoral workforce.

Maximizing Visibility: Harnessing the Power of Websites and Social Media

PhilOHUN invested significant resources into updating our social media platform. There was a significant increase in website viewership, from 52 to 734 in Year 4, reflecting the growth of its visibility. This substantial increase was attributed to the effective strategies implemented by our network, such as regular updates and promotional activities.

The consistent advertising of the website during various events has evidently contributed to the remarkable surge in both viewership and media traffic. This positive trend underscores the success of the organization's efforts in engaging the audience and highlights the importance of continued efforts to maintain and build upon this growth in the future.



Dr. Michael Tee, Vice Chancellor of the University of the Philippines Manila (UPM) and Chairperson of PhilOHUN, discussing about OHW-NG Year 5 workplan activities at The Bayleaf Intramuros, Manila on 26 September 2023. Photo credit: PhilOHUN



PhilOHUN GHS Year 2 planning meeting at Rizal Park Hotel, Manila, 1 September 2023. Photo credit: PhilOHUN.

Lessons learned/Good practices

Conducting One Health Student Field Trips across the Philippines

Exposing our students to experiential learning via field trips showed great value. Coupling the field exposure with theoretical didactics enhanced the overall learning experience. Students from traditional and non-traditional One Health disciplines gained valuable knowledge and skills pertinent to One Health and rabies prevention. We plan to model this approach moving forward to address other national public health threats and demonstrate the importance of each student's role in contributing to these initiatives. We believe this is fundamental to strengthening the future One Health workforce.

Raising Awareness on One Health Series in Other Member Universities

This nationally relevant and timely series allowed the student, faculty, and community participants to grasp the importance of each discipline in ensuring health security for all. Most importantly, we learned that it ignited the students' passion to establish their One Health Student Club, which could be the student-led PhilOHUN element promoting and implementing future One Health activities. Conducting activities that capture students' attention and promote ownership of the One Health approach can be an integral part of PhilOHUN's path forward.

Enhanced Collaboration and Coordination

PhilOHUN recognized the importance of sustained collaboration and coordination. Our partnership with the SEAOHUN Secretariat stands as a cornerstone in the successful execution of our initiatives across the Philippines. The SEAOHUN Secretariat, serving as an invaluable resource, plays an important role in enhancing the efficiency of our project implementation.

In our commitment to operational excellence, we have taken a proactive step by implementing an innovative activity dashboard tailored for PhilOHUN and its Executive Board. This technological solution serves as a dynamic tool, facilitating progress tracking effectively and fostering efficient time management. By providing a comprehensive overview of ongoing activities, milestones achieved, and potential bottlenecks, the activity dashboard allows decision-makers to make informed choices, thereby maximizing our collective efforts. Continuous collaboration with the SEAOHUN Secretariat, coupled with the implementation of our activity dashboard, exemplifies our dedication to ensuring a harmonized and streamlined approach to our initiatives.

Next steps

Expanding partnerships and collaboration play a crucial role in the network's efforts to cultivate growth. Through the diverse activities implemented in OHW-NG Year 4, PhilOHUN strategically expanded its network and engaged in preliminary discussions with partners. These initial conversations paved the way for subsequent meetings aimed at delineating potential collaborations between PhilOHUN and its development partners. Looking ahead, several meetings with various implementers of development projects are scheduled for the last quarter of 2023. PhilOHUN views these engagements as opportunities to explore collaborative efforts and to develop proposals for potential funding post the OHW-NG Project.

To achieve this, PhilOHUN plans to leverage its pool of One Health experts and leaders, mobilizing their support to secure alternative funding sources. This proactive approach indicates PhilOHUN's heightened involvement in mobilizing its member universities to collaboratively undertake projects across different awards. This concerted effort is intended not only to contribute to the sustainability of the organization but also to actively participate in generating the grant proposals for funding beyond the OHW-NG Project.

PhilOHUN will continue developing our internal operational systems. Looking forward, we plan to source additional funding streams to expand our goals and objectives. The network will also develop a sustainability plan with support from SEAOHUN and direction from its Executive Board. The sustainability plan will serve as a guide to ensure the continuity of our network's projects and operational capabilities in our unrelenting pursuit of strengthening the Philippines' global health security infrastructure.



Participants from different government agencies and partner institutions attending the Integration of One Health to the Intermediate Epidemiology Course of the Department of Health at The Bayleaf Intramuros, Manila on 26 September 2023. Photo credit: PhilOHUN

Success story

“Advancing One Health in the Philippines through Public Service Initiatives”

As a PhilOHUN member university, the University of the Philippines Los Banos (UPLB) spearheads programs and initiatives contributing to the advancement of One Health in the Philippines. In 2021, UPLB created the UPLB Program for Zoonotic Diseases (UPLB PZD) to enhance capacities on zoonotic disease detection, prevention, and response. The Program aims to be a leading zoonotic disease research and knowledge center in Asia, contributing to the application of One Health in disease prevention and management.

UPLB PZD operates in three areas: research, development, and public service. While it is not surprising that UPLB PZD focuses on research and development, its proactive role in conducting public service activities is worth highlighting. Since 2021, UPLB PZD conducted key public service activities on raising public awareness, disseminating research results, providing technical support to government agencies, and training One Health workers to address zoonotic diseases. This year, the Program also successfully organized a workshop for an inter-agency committee, a symposium on zoonotic diseases, and training on One Health parasitology.

“Philippine Inter-agency Committee on Zoonoses Planning and Review Workshop”

In the fight against zoonotic diseases in the Philippines, UPLB PZD has emerged as a prominent force of change. Their commitment to fostering collaboration among different stakeholders and advancing knowledge on zoonoses is exemplified through a series of remarkable initiatives.

From 8-10 May 2023, UPLB PZD facilitated the planning and review workshop of the Philippine Inter-Agency Committee on Zoonoses (PhilCZ), in Quezon City. This demonstrated UPLB PZD's key role in fighting zoonotic diseases in the Philippines. PhilCZ agencies, alongside local and international One Health organizations attended the event to review the draft National Strategic Plan on Zoonoses, including the challenges encountered and the best practices on how these challenges are overcome by the implementing agencies and organizations. As a result, priorities and strategies for updating the National

Strategic Plan on Zoonotic Diseases were determined, and collaborative efforts to enhance the One Health approach were identified during the workshop.

On 28 July 2023, UPLB PZD organized their first in-person symposium at New College of Arts and Sciences (NCAS) Auditorium, University of the Philippines Los Banos. This was opened to the public, “PAGSUMAHIN: An Interdisciplinary Discussion on Addressing Zoonotic Diseases in the Philippines,” in Los Banos, Laguna. The activity gathered a total of 57 professionals, researchers, enthusiasts, and students to celebrate World Zoonoses Day. During the symposium, experts from different fields presented their current work on zoonotic diseases and spoke on various topics.

UPLB PZD collaborated with the Institute of Biological Sciences, UPLB, and the Philippine Society for Parasitology, Inc. to conduct a quantitative and spatial parasitology course from 14-17 August 2023, in Los Banos, Laguna. The course provided a total of 20 professionals, researchers, and students with knowledge and skills on the spatial dimensions of parasitology and its application to ecology from a One Health perspective.

UPLB PZD's efforts to foster interdisciplinary collaboration, raise awareness, and impart expertise are making a significant impact in the fight against zoonotic diseases, setting an example for the country. Through their strategic initiatives, they are paving the way for a healthier and safer Philippines for One Health.

“The creation of the Program was just an initial step since we are aiming to establish a National Zoonoses Center. Given that the Program is composed of experts from different sectors of One Health, UPLB PZD will take the lead in the advancement of One Health in the Philippines to mitigate zoonotic diseases.”

Dr. Remil, UPLB PZD





PAGSUMAHIN: An Interdisciplinary Discussion on Addressing Zoonotic Diseases in the Philippines at New College of Arts and Sciences (NCAS) Auditorium, University of the Philippines Los Banos, 23 July 2023. Photo credit: PhilOHUN



Quantitative and spatial parasitology course from 14-17 August 2023, in Los Banos, Laguna. Photo credit: PhilOHUN

One Health Champion



“My message of encouragement to the One Health community in the Philippines is to continue their unwavering dedication and tireless efforts towards promoting and understanding the interconnectedness and interfaces of human, animal, and environmental health. By working together and fostering collaboration among professionals across disciplines and among practitioners from different sectors, we have the power to make a significant impact on public health, environmental protection, biodiversity conservation, and food security.”

PhilOHUN

Dr. Yusuf Sucol

Affiliate Assistant Professor,
the University of the Philippines, Los Banos
School of Environmental Science and Management
(UPLB – SESAM)

Dr. Yusuf Sucol is a passionate One Health practitioner. He is a University Researcher and Affiliate Assistant Professor at the University of the Philippines Los Banos – School of Environmental Science and Management (UPLB – SESAM). He also serves as a co-chair and university coordinator of the UPLB Climate and Disaster Risks Studies Center (UPLB – CDRSC). He focuses on climate change adaptation and disaster risk reduction, environmental and health impact assessments, livestock and poultry production, transboundary zoonotic diseases, Halal science and technology ecosystem, and food safety.

He started his One Health journey as the first Filipino SEAHOHUN Fellow in 2021. Dr. Sucol worked with the Philippine Department of Agriculture – Bureau of Animal Industry (DA – BAI). He assisted DA – BAI in reviewing national policies and programs on major livestock and poultry diseases and transboundary animal health issues. Dr. Sucol produced the IHEALTH (Human-Environment-Animal Linkage for Total Health) Project proposal from his fellowship. This project received funding and is currently underway.

Dr. Sucol believes the Philippine One Health community will continue promoting and understanding the interconnectedness of human, animal, and environmental health. Fostering collaboration across sectors and disciplines is key to effecting positive change on public health, environmental protection, biodiversity conservation, and food security. He earned his Master of Science in Veterinary Medicine from the University of the Philippines Los Banos.



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SEA OHUN
Southeast Asia One Health
University Network

THOHUN
Thailand One Health
University Network

THOHUN

THAILAND ONE HEALTH UNIVERSITY NETWORK

Network Overview



10 Completed Activities



16 Member Universities

86 Faculties

JEE Technical Areas

D3 Human Resources

8 Activities

R5 Risk Communication and
Community Engagement

2 Activities



158 Individuals Trained in
One Health Topics



2 One Health
Student Clubs



30 Informational Resources
and Products



1 New Partnership
Developed

About us

- **Our Mission:** To support trans-disciplinary collaboration among universities and partner agencies to develop skilled One Health professionals and to conduct research employing the One Health approach to promote healthy populations of humans, animals and our shared environments.
- Established in August 2012.
- Visit our website at <https://thohun.org/>.

Highlights

Strengthening Health Workforce in Thailand

In Alignment with JEE Technical Area D3: Enhancing Workforce Development

- Successfully delivered the international short course on Ecosystem Health (THOHUN-ELI) using a combination of basic e-learning, intermediate and blended methods, and advanced experiential learning techniques.
- Integrated existing e-learning courses and training platforms into the THOHUN Learning Management System and the One Health Smart Lane on the THOHUN website.
- Designed a web-based toolkit to assess readiness and a competency-based education (CBE) assessment tool to assist member universities in designing their CBE programs
- Developed e-learning courses during the COVID-19 pandemic, integrated into the One Health Smart Lane
- Successfully trained 66 village health volunteers (VHV) in stakeholders' analysis, problem solving skills, and effective risk communication using technology like the LINE application to respond to emerging disease outbreaks in Ranong, Surat Thani, and Chumphon, 9-10 March 2023.
- Conducted a One Health Student Club activity with a total of 65 students on proper waste management to address community health issues at Bang Sean Beach, Chonburi Province, 3-4 April 2023
- THOHUN Steering Committees approved the establishment of THOHUN Sustainability Taskforce to develop platforms and strategic activities for THOHUN Sustainability plans, 22 February 2023
- Successfully developed strategies, action plans, and milestone as guides for THOHUN's self-reliance and sustainability

Activities

OBJECTIVE I

Integrating E-Learning Courses into Interactive Platform (THOHUN-ELI)

THOHUN developed an interactive platform for One Health education and skill development for different proficiency levels. We integrated the e-learning courses like basic THOHUN-ELI, Advocacy and Outbreak Response for VHVs, and Risk Communication for Public Health Personnel into the One Health Smart Lane (THOHUN's LMS). During the reporting period, we piloted the e-learning modules of THOHUN-ELI and discovered that the modules support competency development and promote learner engagement very well, based on user feedback. These platforms can be a way for THOHUN to generate revenue for self-reliance in the future.

This activity is directly relevant to JEE indicator 3.3 as it enhances workforce training by developing e-learning platforms for health professionals to address public health challenges within Thailand.

Leveraging Workforce Capacity through One Health Student Clubs (OHSCs) in Thailand

From 3-4 April 2023, One Health Student Club (OHSC) leads and THOHUN alumni conducted the activity, "Beach cleanup," at Bang Saen beach in Chonburi province. The 65 THOHUN member university and non-member university students assessed community health problems and proposed innovative solutions as a multi-disciplinary team. This activity strengthened their core One Health competencies integral to the future Thai One Health workforce, which is directly relevant to JEE indicator 3.3, workforce training development.

During the reporting period, we developed four training modules on advocacy and response to emerging disease outbreaks via an e-learning platform blended with field-based practicum for expert-level VHVs.

The piloted training modules equipped 58 VHVs and 8 local public health personnel from Ranong, Chum Phon, and Surat Thani provinces to respond to public health emergencies more effectively. These provinces' community health workforce members are particularly strong in promoting public health throughout Thailand. The trainees showed increased capacity in applying One Health concepts, One Health information literacy, community health problem assessment, and risk communication skills to address their communities' challenges.

This activity is directly relevant to JEE indicator D3.3 as it enhances workforce capacity by equipping the health professionals and volunteers with essential skills to address public health issues in Thailand.





Students participating in role play session on the topic of “One Health Core Competencies in system thinking, planning, collaboration and communication” during OHSC activity at Bang Saen beach, Chonburi Province, April 2023. Photo credit:THOHUN



(From the left) Assoc. Prof. Dr. Saengduen Moomsom (THOHUN Coordinator), Asst. Prof. Prapa Nunthawarasilp (Burapha University) and Mr. Chatri Kanpan (Director of Public Health and Environment Division of Sansuk Subdistrict Municipality) with his team participating in the launching ceremony for the OHSC activity at Bang Saen beach, Chonburi Province. Photo credit: THOHUN



Assoc. Prof. Dr. Saengduen Moomsom, THOHUN Coordinator, presenting the Year 4 activity performance at the annual THOHUN steering committee meeting at Novotel Bangkok on Siam Square in Bangkok, 22 February 2023. Photo credit: THOHUN



Representatives from membered universities actively participating in developing the web-based toolkits for Competencies Based Education (CBE) workshop, 27-28 February 2023. Photo credit:THOHUN

OBJECTIVE 2

On 27-28 February 2023, multidisciplinary experts from academic institutes and government agencies organized a workshop to establish assessment criteria for program readiness, step-wise guidance, and a platform to help design CBE curriculum. THOHUN integrated the experts' criteria into a web-based toolkit with support from the Faculty of Engineering, Mahidol University. This newly developed toolkit will be trialed for planning, designing, and assessing THOHUN's CBE curriculum in Year 5. This activity is directly relevant to JEE indicator 3.3 as it enhances workforce development by equipping necessary skills to health professionals in addressing One Health issues within the country.

THOHUN actively contributed in the regional-led One Health Beneficiaries (OHB) survey under the Transition Award. The OHB survey is a follow-up to the Year 2 alumni survey led by the Objective 2 team. The survey aimed to monitor their progress, gain deeper insights into their regional network engagement, and will serve as an initial step in designing future training curricula.

OBJECTIVE 3

Strengthening THOHUN's Credibility and Sustainability through Strategic Partnerships

THOHUN collaborated with Innovance Partners to craft internal strategies, action plans, and milestones. Together, we created capability activity profiles, resource mobilization plans, and organizational structures, enhancing THOHUN's credibility and sustainability.

Additionally, we identified key focus areas and potential funders and collaborators to engage within the first quarter of Year 5.

Lessons learned/ Good practices

Taking One Health Student Clubs to the next level

THOHUN alumni, in collaboration with One Health ambassadors from two OHSCs, have effectively orchestrated a series of activities centered around zoonotic concerns, encompassing the prevention of rabies and dengue, as well as public services like proper waste management along the beach throughout the reporting period. The platform adeptly tackled current problems, serving as an exemplar of employing a multidisciplinary approach to address complex issues. This involved fostering collaboration among multisectoral agencies, both public and private, to collectively devise optimal solutions.

The dedicated efforts of One Health ambassadors and alumni have played a crucial role in bridging the gap, ensuring the transmission of ideas and practices to the younger generation. Their commitment extends to implementing and expanding the One Health concept, shedding light on the harmonious coexistence of human, animal, and environmental health to achieve sustainable development goals.

Despite the success in engaging students through this platform, a significant challenge for THOHUN lies in seamlessly integrating these initiatives into the conventional teaching and learning systems of future member universities.

Next steps

Moving Forward: THOHUN's Plans for a Sustainable Future

THOHUN plans to implement several activities from its sustainability plan developed this year. THOHUN engaged a large private-sector company, organizing activities that meet their needs, using expertise across One Health disciplines and member universities. An extensive library of One Health-related curricula and training materials will be expanded to new One Health topics, to promote One Health development and capacity building in Thailand, while engaging new donors for local sustainability. THOHUN will assess the potential cost effectiveness and other benefits from sustainable projects and review our ability to engage new funding for sustainment. Resources will be evaluated based on project needs. One of THOHUN's strengths is connecting their member universities with external funding and government sectors. We will leverage this to potentially create a coordinating body for funding and multisectoral collaboration in the future. THOHUN also anticipates the network will start receiving external funding in Year 5.

Continuing efforts in THOHUN's long journey toward sustainability

Income generation, financial security, and maintaining continuing activities and organizational functions are the grand challenges for sustainability of most organizations and networks. In Year 5, THOHUN will develop conceptual notes and proposals for various focus areas. THOHUN will prioritize and match these prioritized project proposals with potential granting agencies, funders, and collaborators at national and international levels to get external grants or funding to support management and activities of THOHUN. THOHUN is expected to get at least one national funding engagement before the end of Year 5 of OHW-NG.



Photo credit: THOHUN

Success story

“One Health Student Club Activities: Cultivating One Health Communities Among Thai Students”

The Thailand One Health University Network (THOHUN) formed two One Health Student Clubs in Year 2 of the One Health Workforce – Next Generation Project (OHW-NG). These clubs are operated by student members of the OHSCs, THOHUN alumni, and faculty of non-THOHUN member universities. This is a continued effort from the “Student One Health Camp” and “One Health Student Ambassadors” training platforms established in Year 2. Students who were previously trained as One Health Ambassadors serve as activity leaders and facilitators for the OHSCs. These are valuable experiential opportunities for students to learn how to address One Health issues in their community.



Students propose innovative solutions to address the garbage problem of Bang Saen beach: a deliverable of Thai OHSC.

In 2023, THOHUN promoted coastal ecosystem protection with a beach cleanup at the popular Bang Saen beach area, in Chonburi province. Sixty-five students from THOHUN member and non-member universities learned about the health status of Mueang district, Chonburi province, from the Director of the Division of Public Health and Environment of Saensuk Municipal Office. The multi-disciplinary student group also collaborated to address community-specific human, animal, and environmental health issues.

The students applied their knowledge and strengthened their core competencies of collaboration, partnership, leadership, communication, informatics, planning, management, One Health knowledge, systems thinking, and critical thinking. These skills are essential for the future Thai One Health workforce. The beach cleanup allowed students to practice their social responsibility and observe the community health problems firsthand. They analyzed and prioritized health problems of the Bang Saen beach and then proposed innovative solutions. Working on diverse teams is a wonderful opportunity for the students to broaden their knowledge, build their peer network, and develop their soft skills that extend beyond the classroom.

“This camp is amazing. It has various talented people, both facilitators and friends from other universities. Thank you for organizing such a good activity. What I have received, both experience and knowledge in various fields, I consider to be a lot in such a short period of time. All the seniors and lecturers are very kind. If there is a chance, I would like to participate in a good camp like this again. Thank you.”

Student club member



“You can do it,” the campaign proposed by a student group as an innovative idea to raise public awareness toward the garbage problem on Bang Saen beach, 3-4 April 2023. Image Credit: THOHUN

One Health Champion



“Solutions of all problems are visible with the One Health perspective.”

THOHUN

Sirikachorn Tangkawattana, DVM, MSc, PhD, DTBVP

Associate Professor
Faculty of Veterinary Medicine
Khon Kaen University, Khon Kaen, Thailand

Dr. Sirikachorn Tangkawattana is an associate professor at Khon Kaen University’s Faculty of Veterinary Medicine, and a leading researcher in One Health. Her research centers on liver flukes (*Opisthorchis viverrine*) and cholangiocarcinoma at the WHO Collaborating Centre for Research and Control of Opisthorchiasis. Her primary focus is understanding the animal reservoirs and pathogenesis of the liver fluke in animal models.

Her One Health research focus is exemplified by her work on the “Lawa Model,” an interdisciplinary initiative merging insights from biology, medicine, public health, and veterinary medicine. This model emphasizes the necessity of comprehensive One Health knowledge, particularly ecological factors, for opisthorchiasis elimination. The “Lawa Model” gained recognition as a primary care strategy for opisthorchiasis control under the National Health Policy, aiming to eliminate the disease within a decade. The WHO also endorsed it as a recommended model for disease prevention.

From 2021 to 2023, Dr. Tangkawattana served as the President of the Thai Board of Veterinary Pathology (DTBVP). Recently, she was a project co-leader for the development of the Lawa Online Course for healthcare professionals. This project emphasized One Health applications to address local health issues and applied lessons from the ‘Lawa Model’ to educate a wider audience. She earned her PhD in Biomedical Science from the Graduate School at Khon Kaen University, Thailand.



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Southeast Asia One Health
University Network



VOHUN

VIETNAM ONE HEALTH UNIVERSITY NETWORK

Network Overview



13 Completed Activities



27 Member Universities

33 Faculties

JEE Technical Areas

D3 Human Resources



13 Activities



336 Individuals Trained in
One Health Topics



19 One Health Student Clubs



24 Informational Resources
and Products

About us

- **Our mission:** To leverage the training, education, and research capacities of the university Network to build the skills, knowledge, and attitude base for OH leaders.
- Established in November 2011.
- Visit our website at www.vohun.org

Highlights

Strengthening Human Resources in Viet Nam: Reinforcing Workforce Capacities in One Health

- VOHUN extended its support to 15 One Health Student Clubs (OHSCs) from 13 member universities, offering both technical and financial assistance to conduct 17 activities such as contests, seminars and workshop in strengthening OH capacities to address OH emergencies in Vietnam.
- Established two new One Health Sites in Nam Truc district, Nam Dinh province and Binh Luc district, Ha Nam Province
- Conducted field-based training courses covering diverse topics such as the assessment of animal-to-human transmission risk and animal waste risk, a one-week rabies vaccination campaign and biorisk assessment in the community for 153 undergraduate students.
- Conducted a One Health training course on joint risk assessment for human health and animal health professionals, 16-17 March 2023
- Conducted training for in-service health professionals on One Health Core Competencies, 30-31 March 2023
- Organized a ToT course on Competency- Based Education (CBE) for Faculty members, Staff and Ministry Officials, 28-29 June 2023
- Provided scholarships for four Vietnamese students enrolled in the International Master's of Public Health program with a One Health focus at the Hanoi Medical University
- VOHUN launched an online survey and distributed it to 1,460 respondents to assess our sustainability, based on partnership health indicators, 18 November 2022.
- VOHUN conducted a case study on OH poultry farming in Thai Nguyen province in partnership with International Livestock Research Institute (ILRI) and Veterinarians Without Borders (VWB). We developed a Knowledge, Attitudes, and Practices (KAP) assessment report and created case studies.
- Developed two training videos on gender assessment for the One Health Workforce Academy platform
- Hosted VOHUN's Year 5 activity planning meeting in Hanoi. Leaders and focal points of 27 VOHUN member universities attended the meeting to discuss new activities in Year 5, 5-6 July 2023
- Hosted VOHUN's virtual annual meeting with 132 participants, 20-21 September 2023

Activities

OBJECTIVE I

Empowering One Health Professionals

In Alignment with JEE Indicator D3.3: Enhancing Workforce Development in One Health to Address Health Challenges

In Year 4, VOHUN provided technical and financial support for 15 One Health Student Clubs (OHSCs) with the participation of 1,214 students from 13 member universities to initiate 17 activities. The activities included contests, effective communication, seminars, workshops and community engagement.

From 16-17 March 2023, VOHUN conducted the training course, "Joint Risk Assessment for Human Health and Animal Health Professionals," in Can Tho for 34 human health and animal health staff working at One Health Sites (OHS). Participants from the human health sector shared their knowledge of risk assessment with personnel from the animal health

sector and engaged in group discussions to exchange ideas regarding joint risk assessment tools.

VOHUN arranged a two-day course for 37 One Health in-service professions at One Health Sites in Can Tho from 30-31 March 2023. The participants worked in the Can Tho and Long An CDC, DAH, sub-DAH, district health centers, animal health stations, Department of Agriculture, and regional universities. The training focused on the One Health approach, One Health core competencies, identifying priority One Health problems, and facilitating students' development at OHS.



Launching ceremony of OHSC at Dong An University. Photo credit: VOHUN

From 17-18 August 2023, VOHUN organized a ToT training course in Ho Chi Minh City. The program taught One Health Core Competencies (OHCC) to 25 lecturers from three new member universities (Dong A University, University of Natural Resources and Environment, and Vietnam-German University). Participants gained a better understanding of the One Health approach, One Health core competencies, implementing One Health core competencies in training programs, and applying One Health core competencies as a teaching strategy for students.

From January to June 2023, VOHUN collaborated with three subject matter experts from human, animal and environmental health fields to develop a field-based training manual tailored for students at One Health Sites (OHS). Before finalizing the manual, we convened a virtual workshop on 10 May 2023 with 63 participants. During the workshop, the experts shared their drafts and sought input from 57 university educators. This training material will serve as a shared resource for all VOHUN member universities.

OBJECTIVE 2

Enhancing Health Security Workforce

In Alignment with JEE Indicator D3.3: Workforce Training

The VOHUN NCO conducted an alumni tracking survey on Kobo toolbox, tailored for Public Health graduate students with a One Health focus for the international master's degree program at the Institute of Preventive Medicine and Public Health (IPMPH-HMU). We collected valuable insights regarding the status and post-graduation experiences of our alumni. Out of 120 alumni who received the questionnaire, 74 participants completed the online survey. We gathered the primary data from 28 July to 15 August 2023.



Launching ceremony of OHSC at Dong An University. Photo credit: VOHUN

The findings showed that most alumni, predominantly employed in stable positions, are notably prevalent in government, non-government organizations and the private sector with a significant number of securing roles in donor agencies or United Nations bodies. Graduates highlight key benefits of the IMPH program including the cultivation of One Health knowledge and skills, leading to full-time employment and career advancement. This activity is directly relevant to JEE indicator D3.3 as it promotes workforce development by assessing their competencies in One Health.

From 28-29 June 2023, VOHUN conducted a ToT course on competency-based education (CBE) for faculty staff and ministry officials. Lecturers from 27 member universities and technical officers from the Ministries of Health (MOH) and Agriculture and Rural Development (MARD) attended, with 83 participants. During the training course, we introduced the One Health Competency-Based Assessment Toolkit, the framework for CBE, and adult pedagogy and teaching methods to the participants. They also had the chance to discuss their plans for developing CBE modules and implementing them in their organizations.

VOHUN conducted a case study on OH poultry farming in Thai Nguyen province in partnership with International Livestock Research Institute (ILRI) and Veterinarians Without Borders (VWB). We developed a Knowledge, Attitudes, and Practices (KAP) assessment report and this will be used as a case study. The students will use what they have learned in class to assess scenarios and propose solutions to tackle problems based on the case study scenario.

OBJECTIVE 3

Five members from VOHUN participated in a four-day workshop on organizational development workshop, organized by SEAOHUN in collaboration with the Global Team in December 2022. This workshop improved the participants' knowledge on organizational sustainability, and VOHUN shared ideas on resource mobilization beyond the OHW-NG project.

VOHUN organized Year 5 activity planning meeting from 5-6 July 2023 in Hanoi with 66 participants, including USAID officials, internal staff, rectors, vice-rectors, dean, vice-dean and senior lecturers from 27 member universities. During the meeting, VOHUN presented their proposed activities prior to small group discussions among member university representatives.

From 20-21 September 2023, We hosted our annual VOHUN meeting virtually and 132 representatives from 27 member universities and other partners attended. The meeting offered an opportunity to brief VOHUN members on the Year 5 work plan, and participants shared their experiences, successes, and lessons learned from Year 4.

On 18 November 2023, VOHUN completed the sustainability assessment, engaging 1,460 participants through partnership health indicators. The survey garnered responses from 201 participants, revealing an impressive 91.5 percent satisfaction rate with VOHUN's initiatives. The respondents provided positive feedback on VOHUN's adeptness in managing conflicts of interest.



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HỘI THẢO

Mục tiêu 1

Hoạt động	Thứ tự ưu tiên		
	1	2	3
... khu vực đánh giá gói... ... KRS cho CB Y+T, TY... ... ở khu vực DBSCL.	20		
... năng lực cho các... ... SK thực hành MSK... ... cũng tham gia lúc... ... động MSK sau khi... ... P.	19		
... in cho eb các Viện... ... về MSK và các NCC.	6		

Mục tiêu 1 (tiếp)

Mã HĐ	Tên hoạt động	Thứ tự ưu tiên		
		1	2	3
1.4	Tập huấn về sơ... phòng ngừa và... ô dịch cho nhân... môi trường, kiến... xả vùng núi/vùng	24		
1.5	Hỗ trợ... Thực s... quốc	13		
1.6	Hỗ trợ... ở các tỉnh ph	13		

Mục tiêu 2

Mã HĐ	Tên hoạt động	Thứ tự	
		1	2
2.1	Đánh giá nhu cầu nhua... xét nghiệm các trường... sốt và ung pho với các... nhấn và bình lậ trực... nhân viên	2	
2.2	Xây dựng và thử nghiệm... hướng dẫn sử dụng công... đánh giá cơ chế chuy... ngành Một số khác	1	
2.3	Đánh giá khối lượng công... của các bộ dịch tế tạo TT... dịch bệnh (CDC) và chỉ... chọn mức độ y (S-DLAI)... tính toán như các năng... ... (USD)	1	

Lessons learned/ Good practices

The VOHUN NCO seized the opportunity to initiate projects and strategize for Year 4 while we waited for the Ministry of Health's (MOH) work plan approvals. Specifically, we completed the VOHUN Sustainability Assessment in early October 2022, one month after securing MOH's approval due to our proactive approach.

Next steps

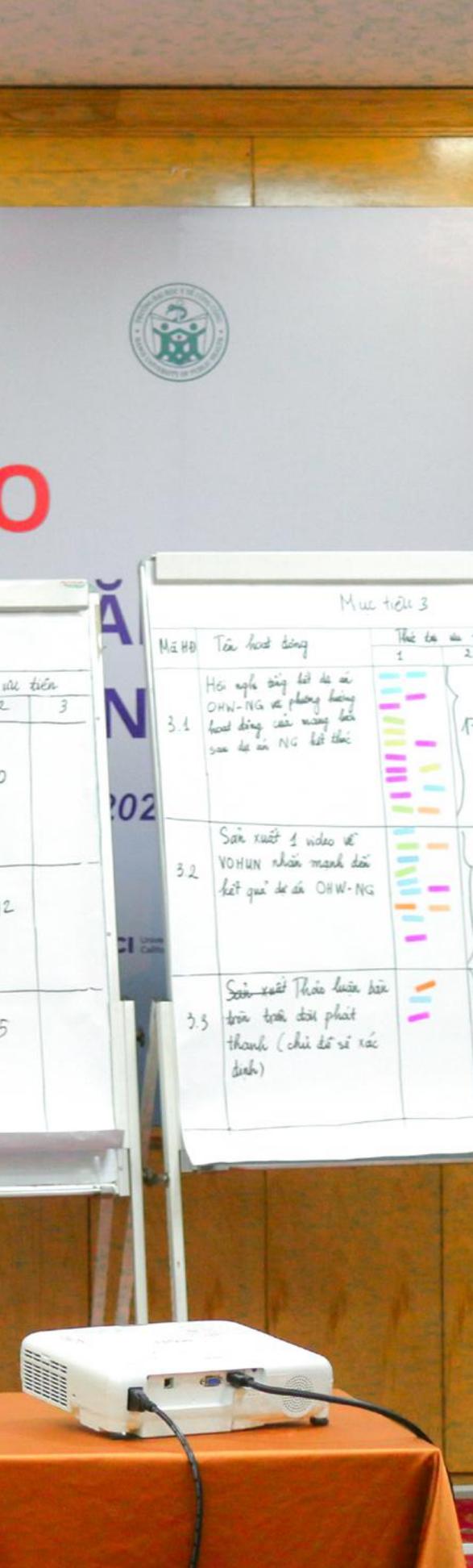
Fostering Collaboration with Different Stakeholders for Future Sustainability

VOHUN is committed to fostering collaborations with a diverse range of partners, including global consortiums, government and non-governmental organizations, private organizations, and communities to advance One Health in Vietnam and our region. VOHUN will also develop a long-term strategic sustainability plan to enhance the organization's future sustainability.

Our ongoing commitment involves maintaining a strong rapport with provincial authorities and empowering the capacity of the OHS communities. We aim to equip these communities with the skills and resources needed to effectively detect, prevent, and respond to infectious disease threats through the development of a proficient and coordinated workforce. By collaborating closely with the Vietnam One Health Partnership and the departments overseeing these efforts, VOHUN will enhance inter-ministerial cooperation at the highest levels.

VOHUN's Commitment to Empowering One Health Student Clubs (OHSCs)

VOHUN remains steadfast in its support of One Health Student Clubs (OHSCs), facilitating their efforts to implement activities that allow students to put their newly acquired skills into practical use.



GIẢI KHUYẾN KHÍCH



Photo credit: VOHUN

Success story

“Creating Safer Communities: The 2023 Rabies Vaccination Program”

Vietnam recorded 23 rabies-related fatalities in 2023, and Long An province reported two dog rabies cases in 2022. Duc Hue district of Long An is a known rabies hotspot. Some communities still neglect rabies prevention in domesticated dogs and cats despite the elevated risk. To raise awareness, Nong Lam University (NLU), the University of Medicine and Pharmacy in Ho Chi Minh City (UMP), the Long An Department of Agriculture and Rural Development, and the Duc Hue People's Committee collaborated to conduct the 3rd annual, "Rabies Vaccination for Community," program in 11 communes from 15-22 April 2023.

The “Rabies Vaccination for Community” program received funding from Boehringer Ingelheim to sponsor 6,569 dog and cat vaccinations, human and animal health screenings, and community engagement with support from local authorities and VOHUN. The community engagement included rabies education activities for over 400 students at several local secondary schools, and a survey on pet owners’ knowledge, attitudes, and practices related to rabies prevention. The Youth Union of Duc Hue district, Boehringer Ingelheim employees, students, and VOHUN staff also planted 200 trees together in Binh Hoa Bac commune. Thanks to the 106 lecturers, students, and local staff, the program was a wonderful success. The team distributed 3,000 rabies prevention leaflets, 11 books on infectious diseases, and medically screened 90 elderly and underprivileged individuals, as well as 30 local pets free of charge.

The program continues to have a positive influence on community rabies awareness, and vaccinations increase every year. Locals are now actively seeking out rabies prevention support. This is the first year that almost 92 percent of the animal population received a rabies vaccine. In recognition of the program’s contributions, the Long An Department of Agriculture and Rural Development awarded the certificate of merit from the Chairman of the Provincial People's Committee to UMP, NLU, and Boehringer Ingelheim. The Long An People's Committee also expressed their desire to support the program for another five years.

https://moh.gov.vn/web/phong-chong-tai-nan-thuong-tich/tin-noi-bat/-/asset_publisher/iinMRn208Zol/content/tang-cuong-bien-phap-cap-bach-phong-chong-benh-dai

“This is the best way to practice our specialized skills alongside studies at university, to become socially-minded individuals at every stage in life. Moreover, we all learned important soft skills that we need to improve, such as patience, empathy, understanding and communication skills through working with people from diverse backgrounds”

A student involved in the vaccination event

“The vaccination campaign has a positive impact, reducing fatalities caused by rabies in dogs and cats and contributing to protecting the health and lives of local people”

A community member



Students learning examination and rabies vaccination for dogs and cats in Duc Hue, Long An. Photo credit: VOHUN

One Health Champion



“Human health, animal health, and environmental health - Let them be the forces behind balance and sustainability- ONE HEALTH. My dedication is fueled by my deep love for humanity, animals, and the environment, propelling me to make a positive impact.”

VOHUN

Mai Van Phong

VOHUN University member (President of Phenikaa University One Health Club)

Faculty of Biotechnology, Chemistry and Environmental Engineering, Phenikaa University, Viet Nam

Mai Van Phong is a Biotechnology major at Phenikaa University and a passionate champion for One Health. He served as the Phenikaa University One Health Club president from 2021–2023. Phong demonstrates unwavering commitment to promoting integration among human health, animal welfare, and environmental sustainability disciplines. In just 10 months, he earned three scholarships and secured third place in the ‘Global Project-Based Learning on the Internet of Things (IoT) competition, demonstrating exceptional intellect and creativity. This competition was intricately linked to environmental health monitoring, involving the detection of heavy metal concentrations in soils through specialized sensors. Additionally, it delved into disease control in animal farming, implementing practical applications to enhance disease control measures for animals. The scope also included data collection for analyzing health-related parameters in One Health approaches.

In addition, Phong participated in a short-term exchange program in Tokyo, Japan where he engaged in pioneering research on microorganisms and their role in wastewater detoxification. His work ethic attracted the attention and respect of his professors. Phong also secured a SEAHOHUN scholarship providing him another opportunity to acquire invaluable knowledge, hone crucial life skills, and deepen his understanding of the interconnectedness of human, animal, and environmental health.

Beyond his academic endeavors, Phong serves as a role model, embodying the core values of One Health within the VOHUN network and his broader community. His love for humanity, animals, and the environment serves as the driving force behind all his actions, and he inspires those around him to join in this noble cause.



**STRENGTHENING
WORK FOR HEALTH
FORCE**
United To Stop Future Pandemics

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