



2023

ANNUAL REPORT

Produced by


Thailand One Health University Network

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Message from THOHUN Chairman

Assoc. Prof. Dr. Walasinee Sakcamduang

THOHUN Chairman,
Dean of Faculty of Veterinary Science, Mahidol University

Dear Members, Partners, Supporters, and Friends,

I am honored to address you in my capacity as the Chairman of the Thailand One Health University Network (THOHUN) as we reflect on the remarkable journey we've undertaken throughout the year 2023. This year has been a testament to our collective dedication to the vision of "Strong, recognized, and sustainable One Health University Network throughout Thailand with sustained engagement and partnerships, regional integration, and empowerment."

Our success stories serve as evidence of the effectiveness of our work. We have accomplished milestones that have transformed communities, enhanced animal and human health, and preserved our environment through dedicated effort. These achievements stand as beacons guiding us toward our capacity statement: THOHUN is the leading One Health network in Thailand, dedicated to the development of the One Health Workforce for the enhanced prevention, detection, control and response to emerging infectious diseases and health threats in Thailand and the region.

I am confident that the steps we have taken in 2023 have brought us closer to our vision. However, our journey is far from over. The challenges we face in One Health are ever-evolving, demanding innovative solutions and persistent determination. As we move forward, let us remain committed to our shared mission, harness the power of collaboration, and build on the successes of the past year to create an even brighter future.

In closing, I extend my deepest gratitude to every member, partner, and supporter who has been instrumental in our journey. Together, we have achieved remarkable feats, and together, we will continue to shape a future where One Health is not just a concept but a way of life.

Thank you for your unwavering commitment and dedication.

Warm Regards,

Together, we have achieved remarkable feats, and together, we will continue to shape a future where One Health is not just a concept but a way of life.



About us

The Thailand One Health University Network (THOHUN) is the leading One Health network, comprising **16 leading universities** in Thailand, dedicated to the development of the One Health Workforce for the enhanced prevention, detection, control and response to emerging infectious diseases and health threats in Thailand and the region.



Who we are

We Empower Thai One Health Workforce to Sustain Global Health Security

Our network comprises schools of public health, medicine, veterinary sciences, environmental sciences, agriculture and education working together to help Thai Government to address gaps in knowledge and skill within the One Health workforce and transform workforce capability to address complex health challenges through trans-disciplinary and multi-sectoral efforts in Thailand.



Vision

Strong, recognized, and sustainable One Health University Network throughout Thailand by 2025, with sustained engagement and partnerships, regional integration, and empowerment.



Mission



- Build, develop and expand the One Health University Network



- Support trans-disciplinary collaboration within and between universities and involved agencies



- Develop and exchange skilled One Health professionals between universities and involved agencies



- Promote research employing the One Health approach to promote the health of human, animals and environment



- Coordinate with other related One Health Networks in Southeast Asia

Our valued network

A network of multi-disciplinary professionals in the area of human health, animal health, environmental health, social sciences and humanities



Key achievements

Student education

Supported training of 486 students, ensuring next generation of professionals from medical sciences, public health, veterinary medicine, environmental science, and other disciplines have the skills, characteristics and mindset to apply the One Health approach at their researches and works.

New Curricula

Developed and strengthened One Health focused training curricula to enhance the education of professionals, Village Health Volunteers and community members across the country for years to come

Faculty development

Trained One Health trainers and developed a toolkit for planning, design and assessment of competency-based education/training for faculty members.

Student engagement

Established Student One Health Ambassadors for peer to peer training of students and community voluntary-based learning to foster innovation, advocacy, and learning for different types of learners across the country.

Covid-19 response

Developed platforms and educational programs for healthcare personnel and VHVs to increase capacity in multisectoral coordination and risk communication, and surveillance, prevention and response of rabies and COVID-19 in Thailand.



THOHUN Steering Committee



Assoc. Prof. Dr. Walasinee Sakcamduang

Mahidol University

Chairman



Assoc. Prof. Pratap Singhasivanon

Mahidol University

Consultant



Prof. Chitlada Areesantichia

Chulalongkorn University

Vice Chairman



Assoc. Prof. Dr. Saengduen Moonsom

Mahidol University

Coordinator



Asst. Prof. Thanee Kaewthummanukul

Faculty of Nursing,
Chiang Mai University



Prof. Dr. Sanipa Suradhat

Faculty of Veterinary Science,
Chulalongkorn University



Asst. Prof. Dr. Khongsak Thiangtum

Faculty of Veterinary Medicine,
Kasetsart University



Assoc. Prof. Dr. Pattamawadee Lehmongkol

Faculty of Education,
Kasetsart University



Assoc. Prof. Dr. Bundit Tengjaroenkul

Faculty of Veterinary Medicine,
Khon Kaen University



Assoc. Prof. Dr. Tanit Chalermyanont

Faculty of Environmental Management,
Prince of Songkla University



Assoc. Prof. Sasitorn Taptagaporn

Faculty of Public Health,
Thammasart University



Assoc. Prof. Dr. Sumathana Klangkarn

Faculty of Public Health,
Maharakham University

THOHUN Ambassadors



Mr. Yuttana Homket
Prince of Songkla Univeristy



Ms. Pornpun Phimol
Prince of Songkla Univeristy



Dr. Ekarat Sombatsawat
Thammasat University



Mr. Nopphadol Jan-Eaim
Srinakharinwirot University



Mr. Nattawut Kitkuan
Kasetsart University



Ms. Chatthasuda Suntisuk
Mahidol University



Ms. Papussorn Rakkitkanrn
Chulaphorn Royal Academy

THOHUN Trainers

Chiang Mai University



Prof. Dr. Nongyao Kasatpibal
Faculty of Nursing



Asst. Prof. Dr. Warangkhana Chaisowwong
Faculty of Veterinary Medicine



Dr. Kriangkrai Thongkorn
Faculty of Veterinary Medicine

Khon Kaen University



Assoc. Prof. Dr. Somboon Sangmaneeedet
Faculty of Veterinary Medicine



Asst. Prof. Dr. Sirikachorn Tangkawattana
Faculty of Veterinary Medicine



Assoc. Prof. Dr. Sunpetch Angkititrakul
Faculty of Veterinary Medicine



Asst. Prof. Dr. Weerapol Taweeanan
Faculty of Veterinary Medicine

Kasetsart University



Asst. Prof. Dr. Waraphon Phimprapai
Faculty of Veterinary Medicine



Assoc. Prof. Dr. Patamabhorn Amavisit
Faculty of Veterinary Medicine



Dr. Suppada Kananub
Faculty of Veterinary Medicine



Asst. Prof. Dr. Ouaypon Tungthongchai
Faculty of Education

THOHUN Trainers

Mahidol University



Asst. Prof. Dr. Ronald Enrique Morales Vargas
Faculty of Tropical Medicine



Asst. Prof. Dr. Saengduen Moonsom
Faculty of Tropical Medicine



Dr. Pannamas Maneekarn
Faculty of Tropical Medicine



Assoc. Prof. Dr. Athit Phetrak
Faculty of Tropical Medicine



Assoc. Prof. Dr. Walasinee Moonarmart
Faculty of Veterinary Science



Asst. Prof. Dr. Sivapong Sungpradit
Faculty of Veterinary Science



Dr. Khuanwalai Maklon
Faculty of Veterinary Science



Dr. Metawee Thongdee
Faculty of Veterinary Science



Asst. Prof. Dr. Jongdee To-im
Faculty of Environment and Resource Studies



Asst. Prof. Dr. Preeyaporn Koedrith
Faculty of Environment and Resource Studies



Dr. Kamalaporn Kanongdech
Faculty of Environment and Resource Studies

Prince of Songkla University



Asst. Prof. Dr. Dudsadee Muenhor
Faculty of Environmental Management



Asst. Prof. Dr. Karnsunaphat Balthip
Faculty of Nursing



Asst. Prof. Dr. Umaporn Boonyasopun
Faculty of Nursing

THOHUN Trainers

Chulalongkorn University



**Assoc. Prof. Nutta
Taneepanichskul**
College of Public Health
Sciences

Maharakham University



**Asst. Prof. Dr. Wichanat
Tiwasing**
Faculty of Architecture, Urban
Design and Creative Arts

Thammasat University



**Asst. Prof. Adisak
Bhumiratana**
Faculty of Public Health



Mr. Pisate Virangkabutra
School of Global Studies

Walailak University



**Asst. Prof. Dr. Udomsak
Saengow**
Research Institute for Health
Sciences (RIHS)



**Asst. Prof. Dr. Tuempong
Wongtawan**
Akkharachakumari Veterinary
College



Highlight activities





1 Student One Health clubs to integrate One Health implementation into student-centered activities

THOHUN seamlessly integrates One Health Core Competencies (OHCC) development with engaging volunteer activities, empowering 65 multidisciplinary students from 10 Thai universities to apply their discipline-based knowledge to address community issues related to humans, animals, and the environment.

Guided by 7 student Ambassadors and a faculty trainer, the program included ice-breaking sessions, a presentation on the health situation in Mueang district, OHCC training stations, beach cleanup, and community solution design. This initiative not only improved students' OHCCs in areas such as Collaboration & Partnership, Leadership, Communication & Informatics, Planning & Management, and One Health Knowledge, but it also allowed them to practice social responsibility and expand their network by connecting with peers from THOHUN member and non-member institutions.

Participants



Male
14 Persons



Female
55 Persons



Other
1 Person

Total 69 Persons



2 Training of Village Health Volunteers on advocacy & responseto emerging disease Outbreaks

THOHUN together with Ranong Provincial Public Health Office organized a pilot training “Training of Village Health Volunteers on Advocacy & Response to Emerging Disease Outbreaks” with 58 of expert-level VHVs and 8 of local public health personnel from Ranong, Chum Phon and Surat Thani provinces. These health personnel had an opportunity to practice at Muang district, Ranong province in observing abnormal public health events that have a potential to cause a disease outbreak, community problem analysis, development of basic operating plans and risk communication. The trained personnel are expected to services to people in the following areas;

18,784 persons

in Kapoe District, Ranong Province

48,302 persons

in Kra Buri District, Ranong Province

14,378 persons

in Suk Samran District, Ranong Province

68,448 persons

in Mueang District, Ranong Province

143,767 persons

in Muang District, Chumphon Province

Total 293,679 persons

Participants



Male

11 Persons



Female

55 Persons

Total 66 Persons



3 Development of a web-based toolkit for planning, design and assessment of Competency-based Education/Training

Competency-Based Education (CBE) is an approach that focuses on aligning teaching, learning activities, and assessments to achieve specific learner outcomes. Effective CBE involves backward curriculum design to create a supportive learning environment. The THOHUN workshop aimed to develop a web-based toolkit to help member faculties assess their readiness for CBE, develop competencies at various skill levels, and design assessments. This toolkit will also define teaching strategies conducive to competency achievement. The workshop's success lay in identifying appropriate action verbs for different learner groups and readiness indicators across various dimensions. Engineers and IT experts from MahidolUniversity will incorporate this information into the web-based platform, ultimately benefiting THOHUN members in enhancing competency-based education and services.

Participants



Male
11 Persons



Female
55 Persons

Total 66 Persons





4 THOHUN Sustainability Committee meeting

To kick off event of THOHUN to foster the network sustainability. Sixteen of the representatives from THOHUN member universities, governmental ministries, international organizations, private sectors, NGOs, and private and vocational school (See roster for full list) were accepted and engaged during the event on October 20, 2022. The meeting included a brief presentation of THOHUN profile, previous performance, strategies, and One Health education/trainings, research service areas that are available for collaboration with partners. After the showcase presentation, the delegates had actively contributed in brainstorming on potential areas for joint/collaboration between THOHUN and their organization and how to sustain 1) Financial Sustainability 2) Research and services 3) Networking. 15 of these participants were also accepted to be Sustainability Committee of THOHUN. The obtained ideas in 1) Finance 2) Research and services 3) Networking Sustainability will be used as guideline for business-plan and milestone development for THOHUN sustainability in Y4-Y5 and after the end of OHW-NG project in the next workshop of THOHUN Sustainability Committees.

Participants



Male
7 Persons



Female
11 Persons

Total 18 Persons



5 Educating and training services of the International Short Course on Ecosystem Health, THOHUN-ELI

In 2023, it was held in Nakhon Pathom province, a major raw-milk producer with around 850 dairy farmers, primarily small and conventional farms. These farmers faced issues such as emerging animal diseases, reduced milk production, and increased animal feed costs. The course focused on three main groups: Human Intestinal Parasitic Infection and Risk Factors, Animal Parasitic Infection, Water Quality, and Waste Management in Dairy Farms, and Animal Feed Value Addition and Vector Surveillance, all of which were identified as

One Health issues in the Rang Phikun sub-districts of Kamphaeng Saen district, Nakhon Pathom province. The training was tailored to address these local health challenges, empowering students to define and prioritize issues using participatory methods and questionnaire surveys on knowledge, attitudes, and practices (KAPs). The course facilitated community engagement and hands-on experiences, including water sampling, mosquito surveys, laboratory parasite detection, and risk communication strategies. The success of the course was evident in pre- and post-test scores, participant feedback, and documented project outcomes, showcasing its contribution to enhancing One Health knowledge and capacity at the community level. Furthermore, the involvement of THOHUN-ELI alumni and Student Ambassadors as Facilitator Assistants has not only lightened the facilitators' workload but also provided valuable experience in advanced One Health education, training, and course management. This initiative serves as an internship program for managing advanced One Health education and training.

Participants



Male
7 Persons



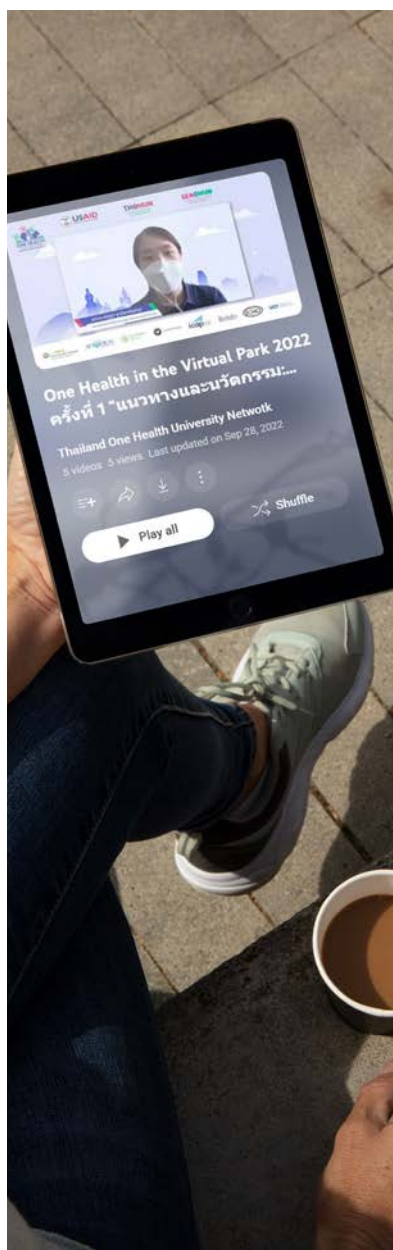
Female
11 Persons

Total 18 Persons



6 One Health in the virtual park: A platform to increase One Health knowledge and awareness of the general public

The One Health approach is a collaborative effort involving various disciplines and sectors, designed to tackle issues related to human, animal, and environmental health, and combat antibiotic resistance. THOHUN has been instrumental in building strong connections with the Thai community and society through regular events known as “One Health in the Park.” These events aim to promote One Health advocacy and facilitate risk communication on health topics of interest to Thai society.



In response to the challenges posed by the COVID-19 pandemic, “One Health in the Park” made a successful transition from physical gatherings to a virtual talk show format. This virtual adaptation involved expert debates, influential speakers, and stakeholder participation, all live-streamed on various social media platforms. This shift allowed for effective audience engagement, with interactive Q&A sessions enhancing the overall experience. To ensure that the valuable information discussed during these events is accessible to a wider audience, THOHUN created post-event contents. These contents include short videos and articles that distill key insights and findings from the discussions. These resources are readily available for viewing at any time via the official THOHUN Facebook page and various online news websites.



Thailand One Health University Network



Thailand One Health University Network



WWW.THOHUN.ORG

The kickoff event in 2022, entitled **“Solutions and Innovation: Coping with PM2.5 pollution,”** was a testament to the success of this initiative. It reached an impressive audience of 3,934 in February 2022. Feedback from participants highlighted the convenience of online engagement and their newfound knowledge about PM2.5 pollution, its effects, and protective measures. The growth in the number of followers on the THOHUN Facebook fan page, the increasing size of the audience, and the rising number of questions posed by participants all reflect the effectiveness of “One Health in the Park” as a two-way platform for risk communication and public engagement. This is particularly relevant for healthcare providers, public health administrators, and the general public, especially during the pandemic of emerging infectious diseases.



Publication of these post-event articles serves a dual purpose. It not only advocates for One Health principles but also inspires those who couldn't attend the event to participate in future sessions. This approach encourages wider community engagement and a broader understanding of the critical health issues discussed.

7 Simulation of multi-sectoral coordination and risk communication for rabies outbreak response

Rabies is a vaccine-preventable viral disease that poses a threat in more than 150 countries and territories. While the situation of human rabies has improved in Thailand over the past few years, non-reported animal rabies still occurs in certain areas. Achieving sustainable rabies control and prevention necessitates a One Health collaboration involving government, academic, and community sectors. Simulation exercises play a crucial role in enhancing public health preparedness and response plans, procedures, and systems, ensuring effective coordination among relevant organizations in the event of a real disease outbreak.



Alignment with the COVID-19 scenario:

In 2021, multi-sectoral coordination plans were adjusted to align with a rabies outbreak scenario combined with the challenges posed by the COVID-19 pandemic.

Exercises and onsite simulation:

In 2022, these plans underwent review and revision, driven by table-top exercises, which helped identify areas for improvement. The revised plans were then used as a guideline for onsite simulations.



Thailand One Health University Network (THOHUN) partnered with local health and governing organizations in Muang Phon sub-district, Phon district, Khon Kean province. This partnership leveraged the local organization's excellent rabies surveillance and response capabilities. The simulation exercise centered around the scenario of five students being bitten by a rabies-suspected dog in a school, with one of the bitten students being a high-risk COVID-19 case.

Simulation exercise highlights:

The simulation exercises closely aligned with the operational plans developed, involving participants and multiple agencies across responsible and accountable sectors. A checklist was used to assess the completeness and alignment of the actual activities during the simulation with the operational plans. Most of the simulation activities and practices closely followed the plan.



Enhancing operational plans:

The lessons learned, feedback, and identified operational gaps were instrumental in modifying the operational plans for rabies response across multiple sectors. As a result, in the workshop's final day, two key operational plans were notably enhanced:

- ✓ 1. Patient transfer and human rabies management in a hospital.
- ✓ 2. Prevention and control of animal rabies in the community.

Future plans:

THOHUN National Coordinating Office (NCO) is committed to further refinement and consolidation of the evidence-based plans for:

- 1. Outbreak management, including the Emergency Operating Center.**
- 2. Vaccine and medical device supply management.**
- 3. Public Relations and risk communication.**

These comprehensive and evidence-based plans will be submitted to relevant authorities and contributing sectors for further implementation. The Coordinating Unit of the Thai One Health Network will oversee national implementation, ensuring Thailand's readiness and ability to effectively respond to rabies outbreaks and related public health emergencies.



THOHUN One Health leader

Dr. Pahurat Kongmuang Taisuwan

*Director, Secretariat Office of the Royal
Development Projects Committee, Department
of Disease Control, Ministry of Public Health*

Dr. Pahurat Kongmuang Taisuwan is a Director of Secretariat Office of the Royal Development Projects Committee, Department of Disease Control, Ministry of Public Health, Thailand. Since 1993, she worked for the Department of Disease Control, her duties were preparing and responding to emerging infectious diseases. In 2013, Dr. Pahurat did a lateral move to Bureau of Risk Communication in same department. Dr. Pahurat was encouraged and established several training tools, procedures and guidelines regarding diseases crisis risk communication, risk communication to protect public health including One Health diseases crisis.

In 2018, Dr. Pahurat supported Thailand One Health University Network (THOHUN) and South-East Asia One Health University Network (SEAOHUN) as a THOHUN trainer who is content expert in crisis risk communication regarding One Health-matter such as rabies, COVID-19, leptospirosis, etc. She has successfully collaborated and developed the training tools, procedures, and guidelines for One Health workforce development in Thailand. For example, Infodemics Risk Reduction and Decision-Making Tools for Proactive Communication and Engagement for Decision Makers and Educators, THOHUN International Short Course on Ecosystem Health (THOHUN-TELI), Student One-Health Camp for Rabies Control, including training for village healthvolunteers' engagement and training technique as well.



One Health and risk communication issues are making me passionate, both are collaborative, multisectoral, complex cross-disciplinary, multi-levels at the local, regional, national, and global levels. In addition, risk communication purpose is to enable people at risk to make informed decisions to mitigate the effects of a threat (hazard) – such as a disease outbreak – and take protective and preventive measures. Thus, if working together between OH and RC we will achieve the goal of optimal health outcomes, human, animal and environment health as well.





THOHUN One Health champion

Ms. Chatthasuda Suntisuk

*Master of Engineering
(Biomedical Engineering),
Mahidol University, Thailand.*

Chatthasuda Suntisuk is a medical technologist who is interested in studying a relationship between human, animal and environment. In 4th year of her bachelor's degree, she had an opportunity to attend "Training of One Health Ambassadors for Rabies Control" of THOHUN. After that, she participated in the International Short Course on Ecosystem Health (THOHUN-ELI) in 2019, where she involved in the capstone project on water-borne diseases with villagers in Sri Sawat district, Kanchanaburi, Thailand. At that time, she, as a Medical Technologist, was responsible for stool examination for parasites and bacteria cultivation for water quality assessment from water samples collected from the studied village. When laboratory results turned out to have coliform bacteria contaminated in the water samples, she had a chance to propose the solutions together with multidisciplinary participants to improve quality the water for the villagers. In 2020 and 2022, she was selected as OH Ambassador and THOHUN-ELI alumni to Facilitator Assistant in THOHUN-ELI to advise and assist the participants to complete their training and capstone projects.



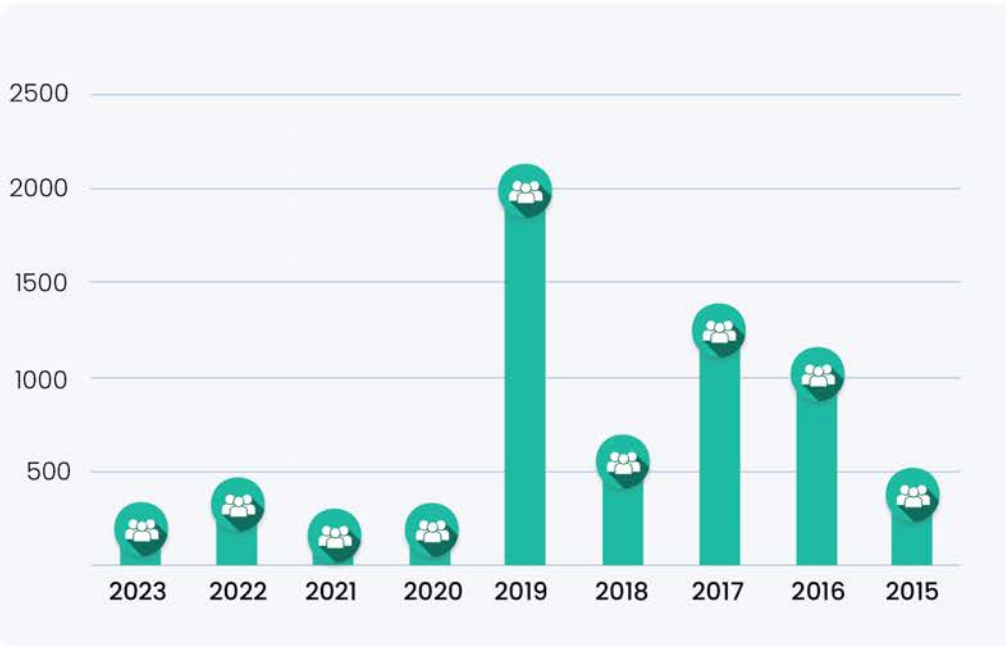


“The One Health Core Competencies empower me to proud to be myself as an One Health worker and who will make the world better.”

The background of the page is a complex abstract graphic. It features a light blue grid pattern overlaid on a darker blue background. A prominent feature is a glowing white circle with a crosshair, positioned in the upper left quadrant. Below and to the right of this circle, there are several vertical bars of varying heights, resembling a bar chart. A white line graph with two circular markers is also visible, extending from the lower left towards the center. The overall aesthetic is clean, modern, and data-oriented.

Featured statistics

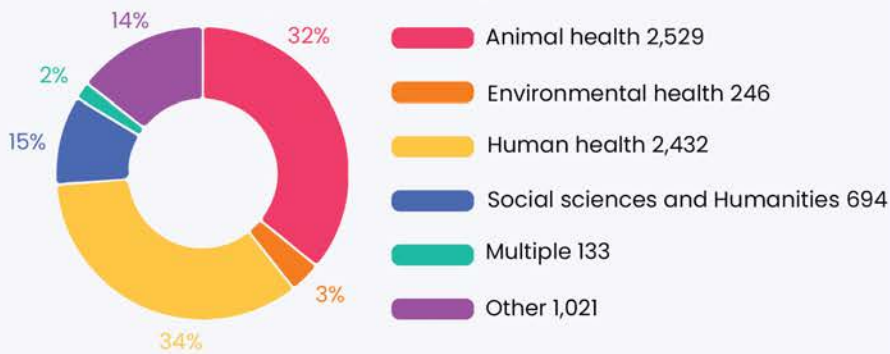
Participants 2015-2023



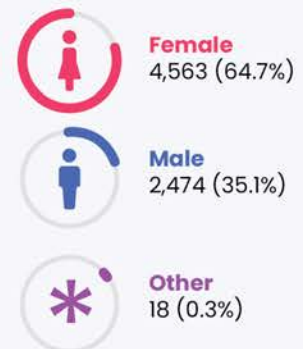
Total **7,055** Persons

- 2023: 326
- 2022: 451
- 2021: 192
- 2020: 268
- 2019: 2,093
- 2018: 681
- 2017: 1,374
- 2016: 1,160
- 2015: 510

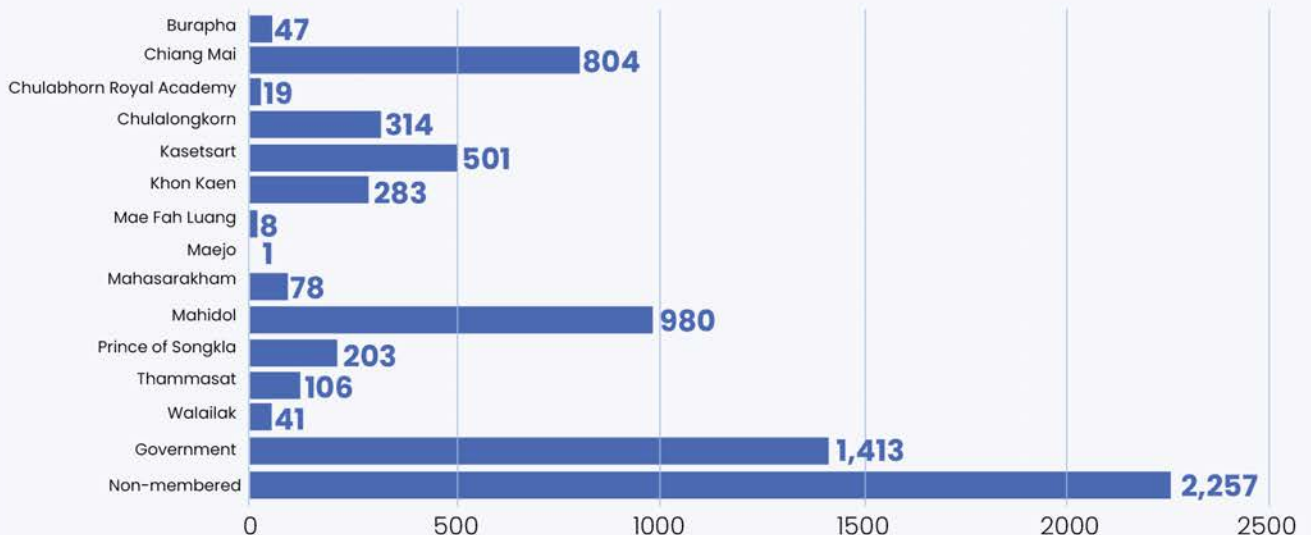
Disciplines



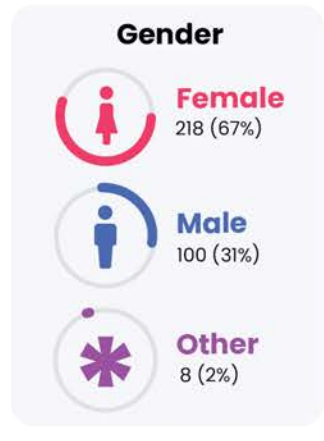
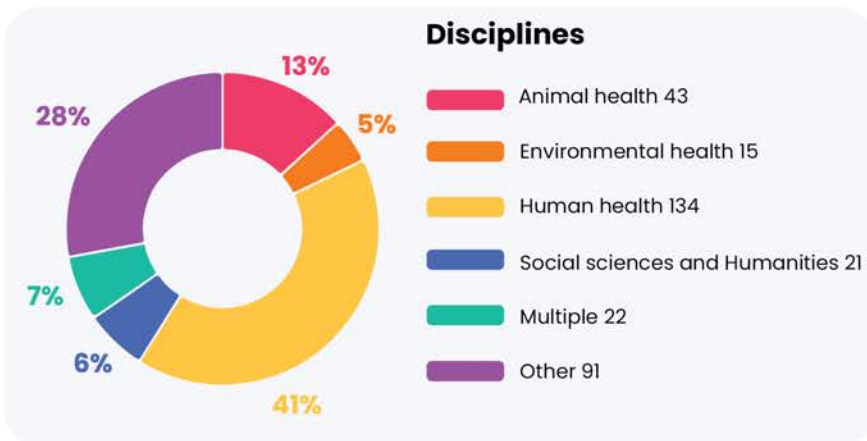
Gender



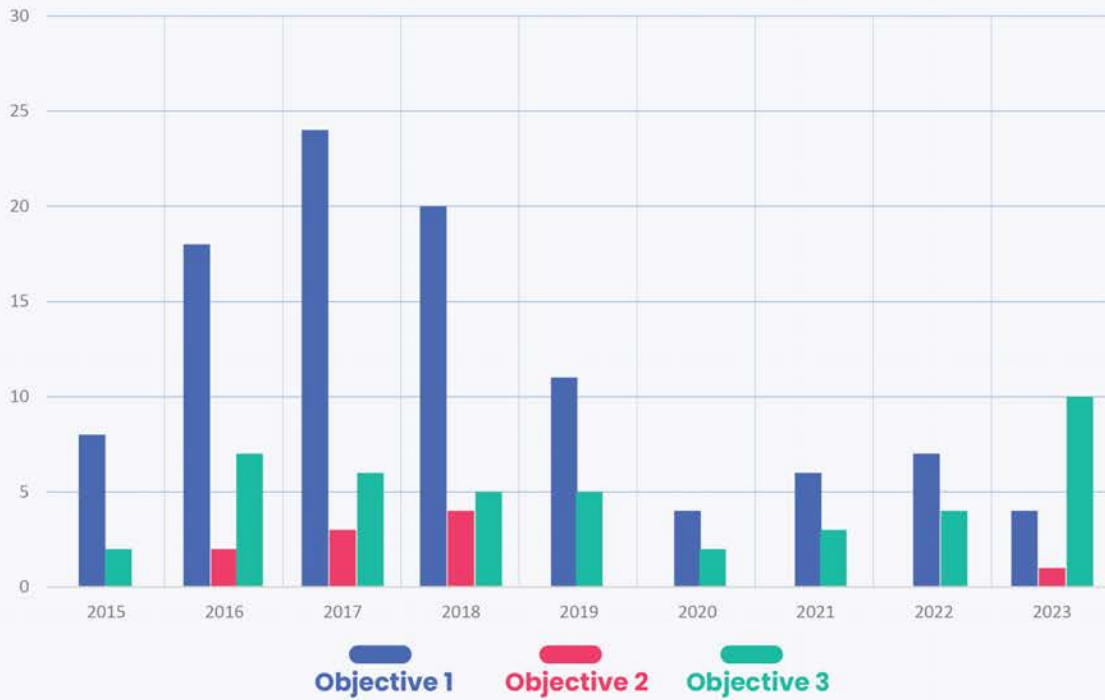
Member University



THOHUN Performance of year 2023



Yearly No. of activities by objectives



Objective 1

One Health training and empowerment

Objective 2

One Health workforce assessment and tracking

Objective 3

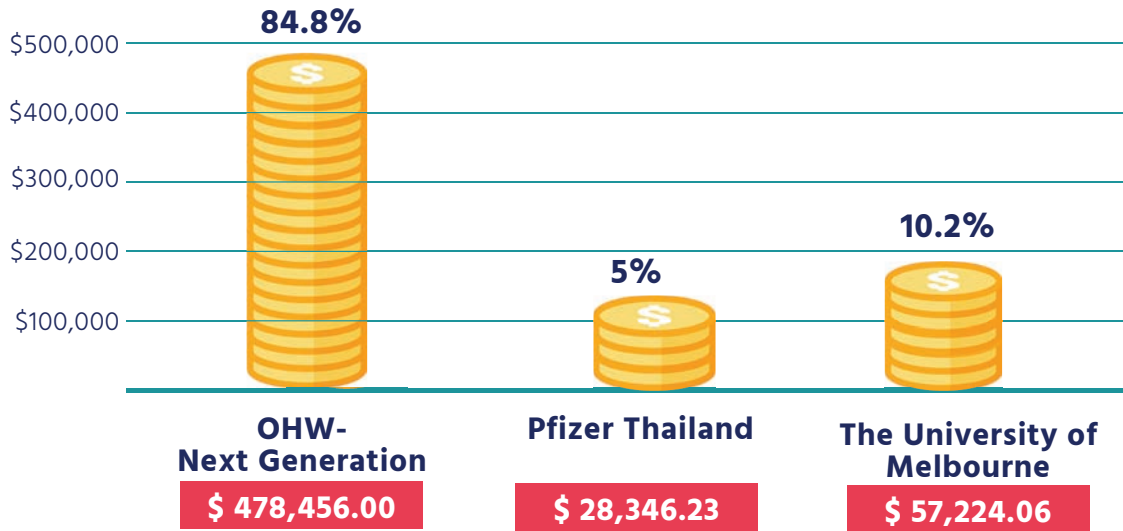
Organizational sustainability

| Year | Objective 1 | Objective 2 | Objective 3 |
|------|-------------|-------------|-------------|
| 2015 | 8 | 0 | 2 |
| 2016 | 18 | 2 | 7 |
| 2017 | 24 | 3 | 6 |
| 2018 | 20 | 4 | 5 |
| 2019 | 11 | 0 | 5 |
| 2020 | 4 | 0 | 2 |
| 2021 | 6 | 0 | 3 |
| 2022 | 7 | 0 | 4 |
| 2023 | 4 | 1 | 10 |

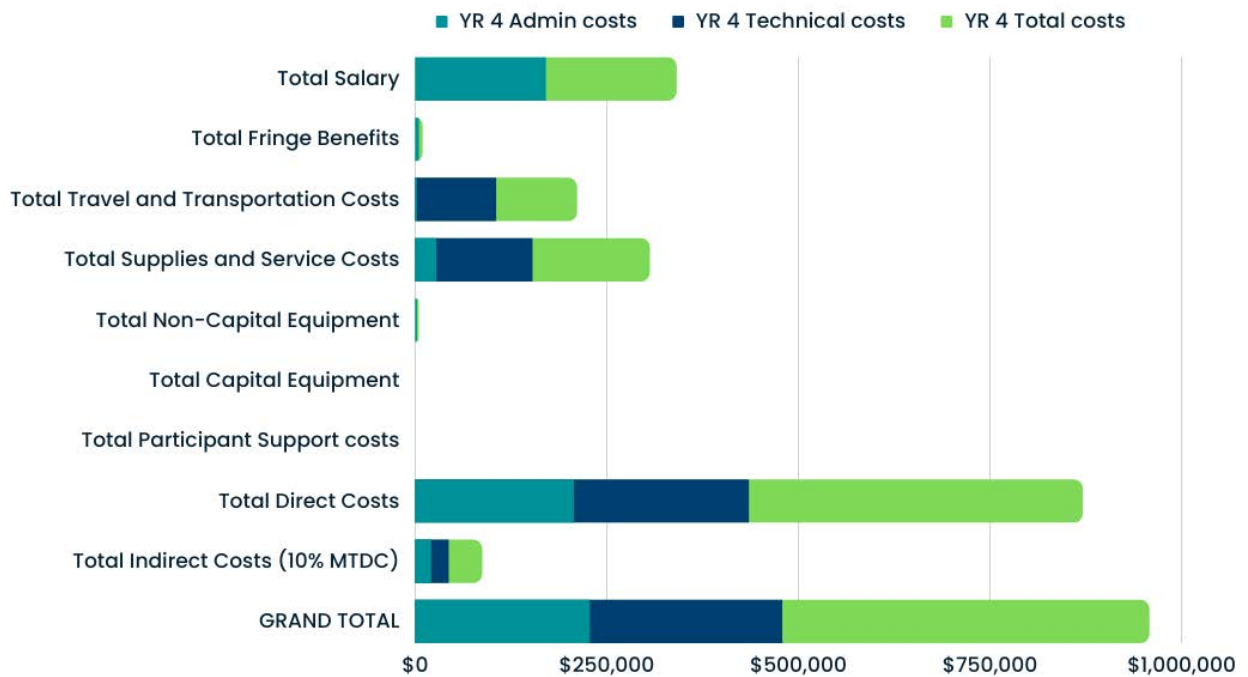


Financial figures

Funding sources



Year 2023 - Budget categories



Total 478,456.00

42 Annual Report



Multimedia Showcase 2020-2023

Newsletters



Newsletter of Year 2020 on International Short Course on Ecosystem Health (THOHUN TELI)



Newsletter Vol.1/2021 on THOHUN Strengthens health personnel capacity to be ready for responding to the COVID-19 pandemic

Newsletters



Newsletter Vol.2/2021: Manual for preventing COVID-19 and health threats during the rainy season



Newsletter of 2022: Fostering of One Health concept through One Health Voluntary activities of Thai Student One Health Innovative Clubs

Newsletters



Newsletter of 2023: Strengthening healthcare-personnel capacity

Corporate posters



Roles of THOHUN



THOHUN capabilities



Highlights of THOHUN

Corporate brochure



Fact Sheet of THOHUN 2023

Operating manual for Village Health Volunteers



Role and responsibilities of Village Health Volunteers



Operating manual of Village Health Volunteers

THOHUN exhibition



International and cross-border collaboration to foster cross-border cooperation action plans for disease prevention and control in migrant workers







THOHUN

Thailand One Health
University Network

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