



Malaysia One Health University Network (MyOHUN) Achievements & Success Stories An Overview

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One Health

- The complexity of human-animal-environment relationships partly as an impact from man-made changes to the host, agent, environment, ecosystems and nature illustrates that our future will be characterized by a new interdependence, and true progress on the prevention and control of diseases can only be achieved through One Health
- A multi/trans-disciplinary collaborative approach to improving the health of humans, animals and the environment; a new global strategy of cooperation to provide solution
- It encourages the collaborative efforts of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals and the environment and create a world safe and secure from global health threats posed by infectious and zoonotic diseases











One Health

One health is a multi/trans-disciplinary collaborative approach to provide solution

Physicians **Economists One Health** Veterinarians Anthropologists Pathologists Nurses **Ecologists** Microbiologists Viral infe Comparative Metabolic disorders in **Bacterial** humans and animals medicine / Vector-borne Parasite Antimicrohia infections Translational Zoologists **Epidemiologists** infection resistance Joint and skeletal medicine diseases in humans **Bio threats** Zoonotic infections Cancer and and animals cardiovascular disease Global Food safety in humans and health uman - anie **Politicians** Entomologist animals hand Surveillance terrention Environmenta Vaccines and hazards exposure to lemine boe to **Sociologists** ONE HEALTH SWEDEN etc

> To respond, predict, prevent and identify infectious and zoonotic disease threats (OHW)







One Heath Workforce

- Coordination and collaboration across all levels of the human and animal health sectors are essential to meet the Global Health Security Agenda (GHSA) vision for a world safe and secure from global health threats posed by infectious diseases
- Achieving this goal will require a shift in our workforce culture and regulatory framework
- Government ministries, universities, industries and NGO must work together to achieve a stronger and more effective public health system, from the first responders on the front line to the policy makers implementing change

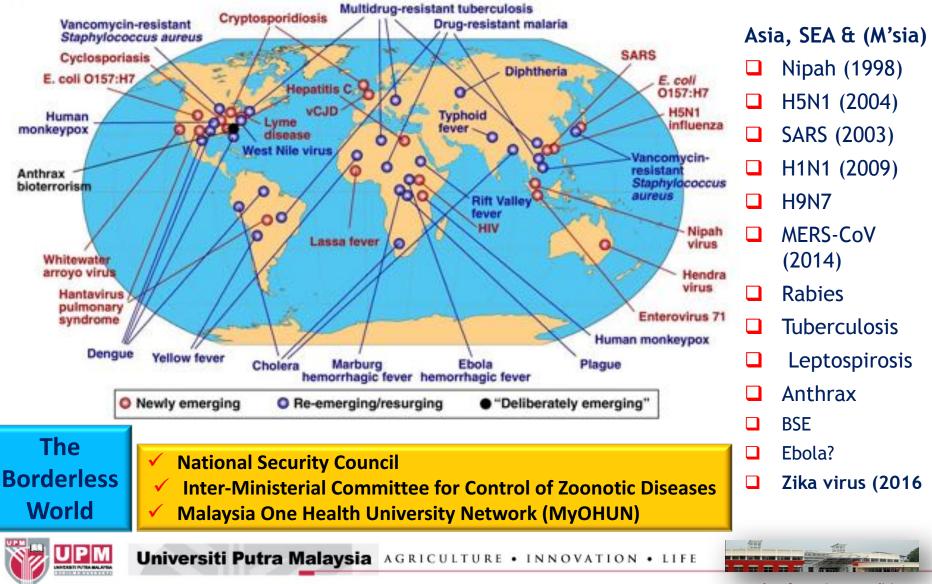






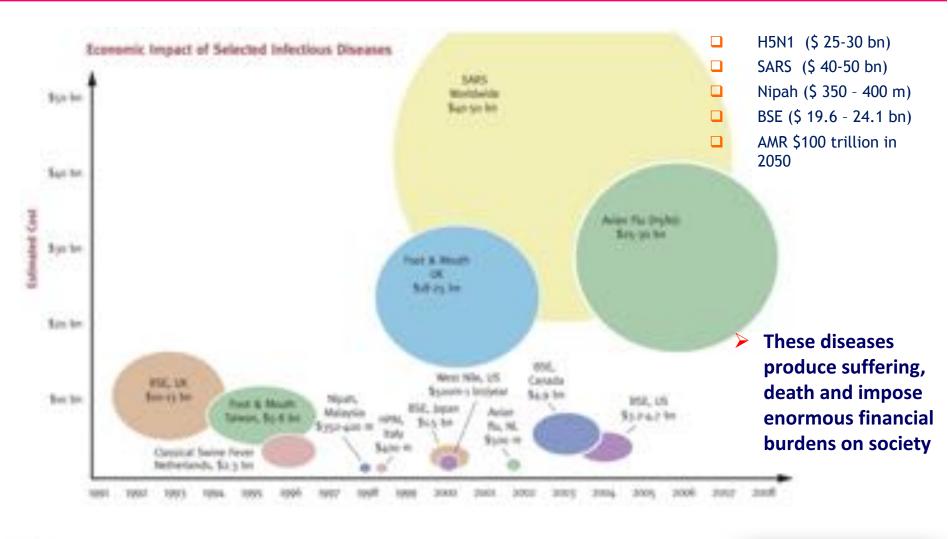


Global Examples of Emerging & Re-emerging Infectious and Zoonotic Diseases



Faculty of Veterinary Medicine

Economic Impacts of Infectious Diseases





Universiti Putra Malaysia AGRICULTURE • INNOVATION • LIFE

Faculty of Veterinary Medicine

One Health University Network

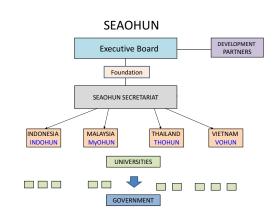
- In December 2011, the Southeast Asia One Health University Network (SEAOHUN) and the country-level One Health University Networks namely INDOHUN, MyOHUN, THOHUN and VOHUN was established (NCO – Sept. 2013)
- In 2014, SEAOHUN is participated in transformation of One Health Workforce (OHW) in the region and dedicated in building the capacity of the global health workforce to prevent, detect and respond to emerging infectious diseases with the financial support from USAID and in collaboration with the University of Minnesota and Tuft University, USA
- All activities of SEAOHUN are consistent with 5 strategic objectives and outcomes of the Emerging Pandemic Threats 2 (EPT-2) (2015-2019) and to support implementation of the Global Health Security Agenda (GHSA)

OHCEA (6): Ethiopia, Democratic Republic of Congo, Kenya, Rwanda, Tanzania & Uganda

ne Health





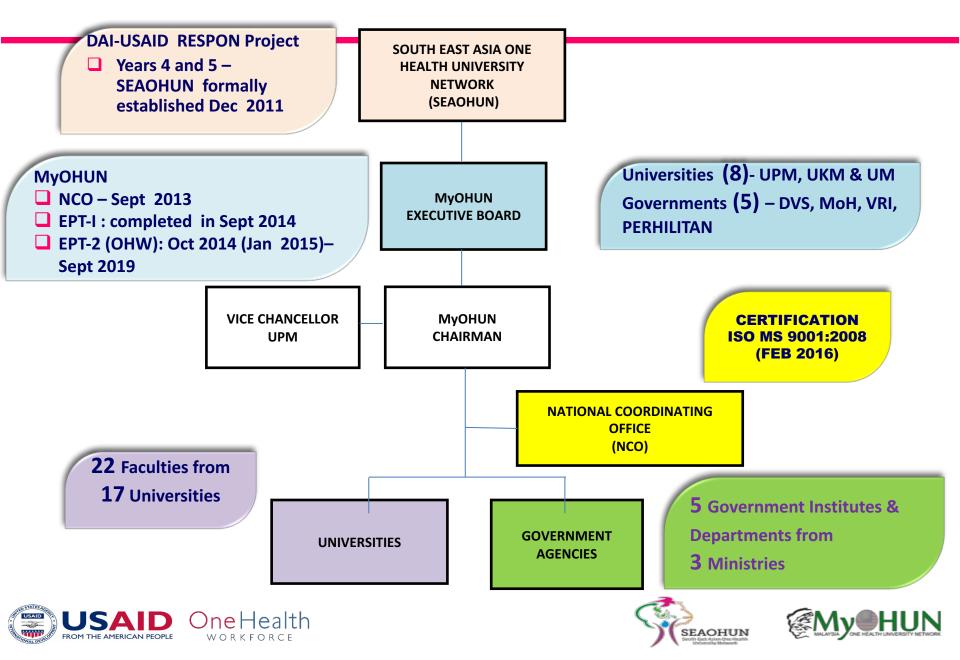








MyOHUN



Executive Board Members

Chairman

1. Prof. Dr. Mohd Hair Bejo, Dean (UPM)

Members

- 1. Prof. Dr. Noor Hassim Ismail (UKM)
- 2. Dato' Dr. Quaza Nizamuddin bin Hassan Nizam, DG (DVS)
- 3. Dato' Abdul Kadir bin Abu Hashim , DG (PERHILITAN)
- 4. Dato' Dr. Chong Chee Kheong (MOH)
- 5. Prof. Dr. Sazaly bin Abu Bakar (UM)
- 6. Prof. Dr. Bariah Mohd Ali, Dean (UKM)
- 7. Prof. Dr. Abd Rahman Omar (UPM)
- 8. Prof. Dr. Mohd Rizal Abd Manaf (UKM)
- 9. Prof. Dr. Latiffah Hassan (UPM)
- 10.Dr. Sohayati Abdul Rahman (VRI, DVS)
- 11.Dr. Rohani Jahis (MOH)
- 12. Prof. Dr. Hidayatulfathi Othman (UKM)



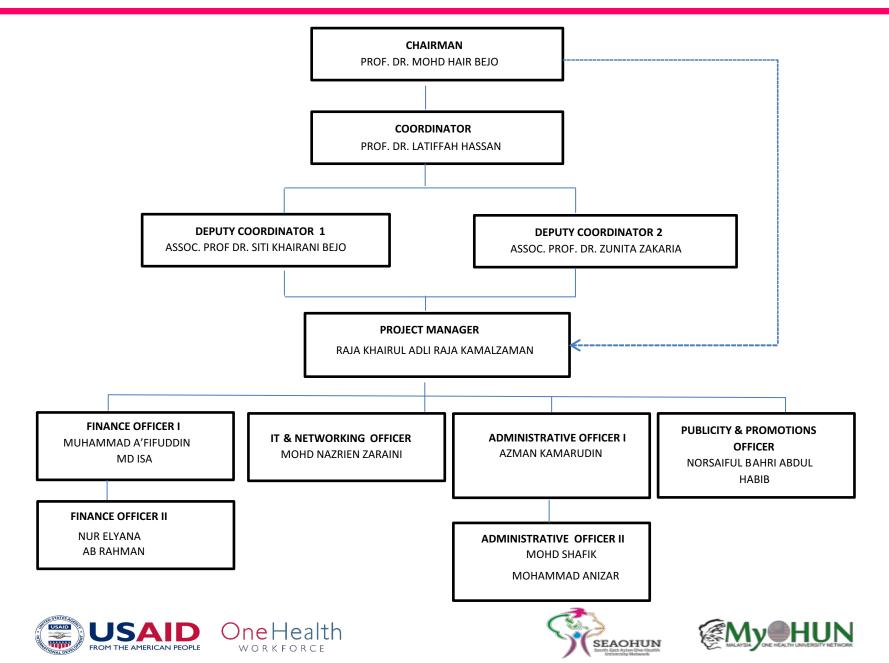


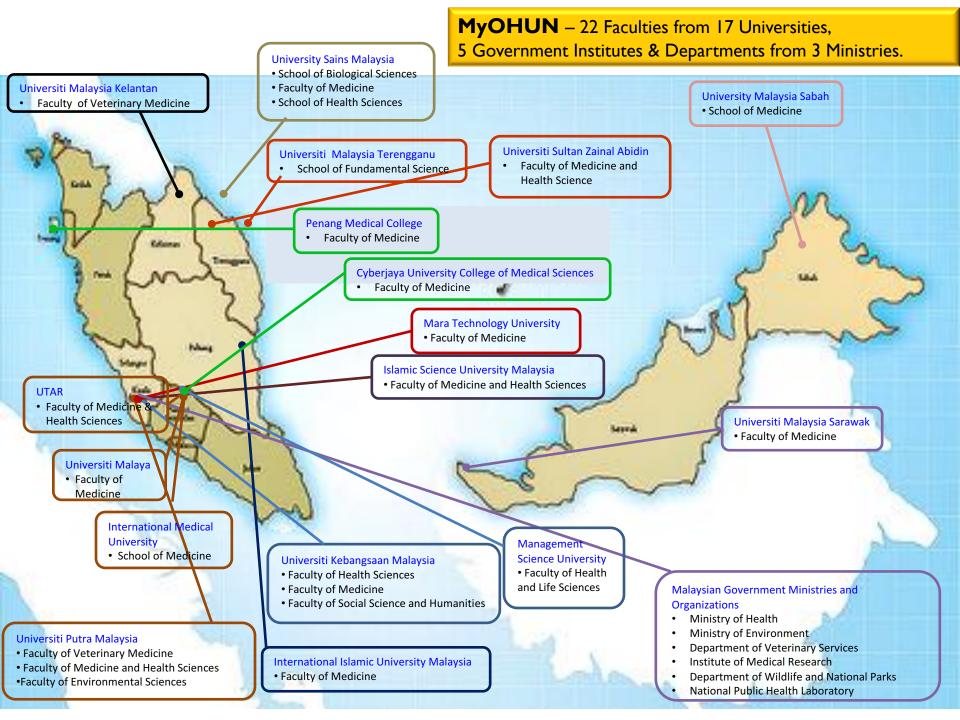






Organization Structure of NCO





Members of MyOHUN

- 1. Faculty of Veterinary Medicine, UPM
- 2. Faculty of Medicine and Health Sciences, UPM
- 3. Faculty of Medicine, UKM
- 4. Faculty of Health Sciences, UKM
- 5. Faculty of Medicine, UiTM
- 6. Faculty of Veterinary Medicine, UMK
- 7. Faculty of Medicine, PMC
- 8. School of Medical Sciences, USM
- 9. School of Health Sciences, USM
- 10. Faculty of Medicine, IIUM
- 11. Faculty of Medicine, UNIZA
- 12. Faculty of Medicine, UIMAS
- 13. School of Medicine, UMS
- 14. School of Fundamental Science, UMT
- 15. Faculty of Medicine, CUCMS
- 16. Faculty of Medicine and Health Sciences, UNITAR
- 17. Faculty of Medicine, UM
- 18. School of Medicine, IMU
- 19. Faculty of Medicine and Health Sciences, USIM
- 20. Faculty of Health and Life Sciences, MSU
- 21. Faculty of Environmental Sciences, UPM
- 22. Faculty of Social Science and Humanities

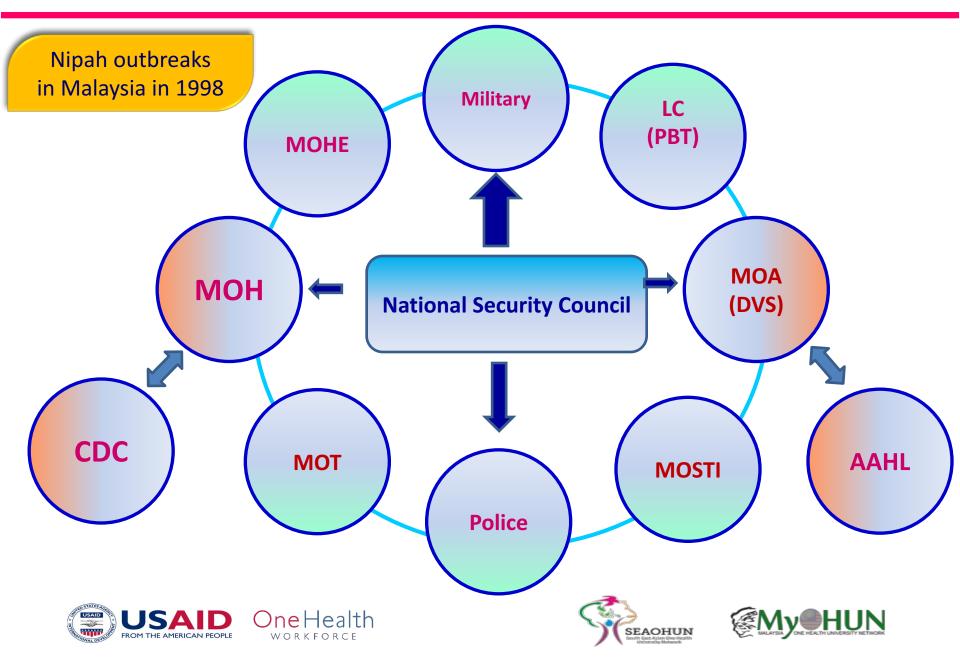


- Ministry of Health Malaysia
- 23. Institute of Medical Research
- 24. National Public Health Laborarory
- Minister of Agricultural and Agro-based Industry Malaysia
- 25. Department of Veterinary Services
- 26. Veterinary Research Institute
- Ministry of National Resources
- and Environment
- 27. Department of Wildlife and Natural Park
 - ✓ 22 Faculties (17 universities)
 - ✓ 05 Government Institutes & Departments (3 Ministries)



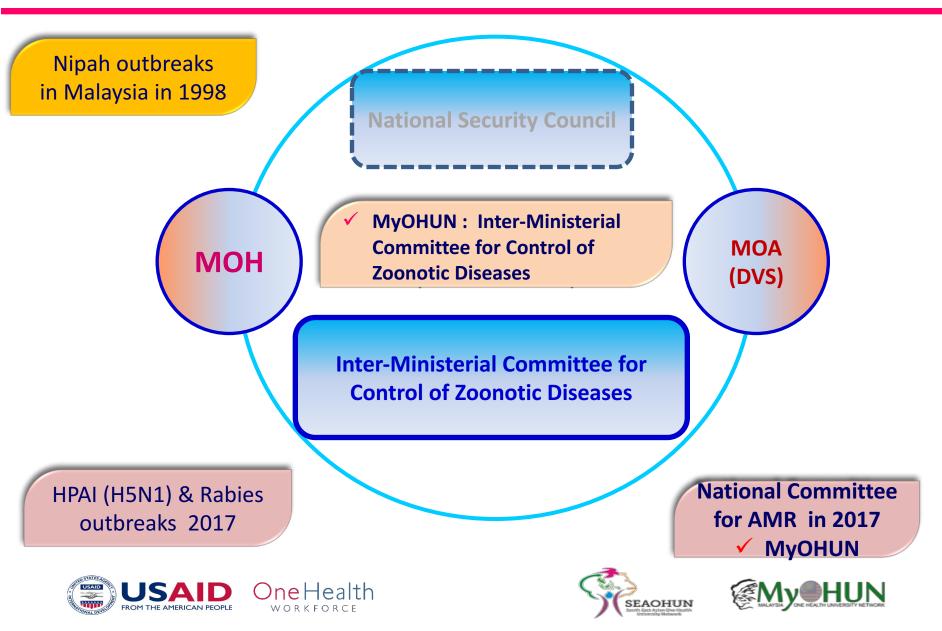


National Security Council – One Health Approach

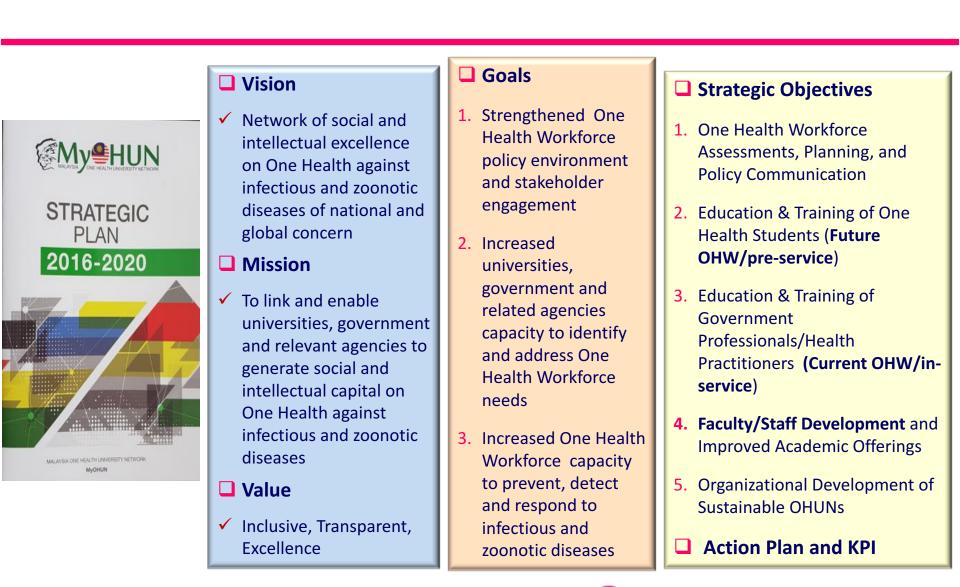


One Health Approach

Inter-Ministerial Committee for Control of Zoonotic Diseases



Vision, Mission, Value, Goals, Strategic Objectives, Action Plan & KPI (2016-2020)





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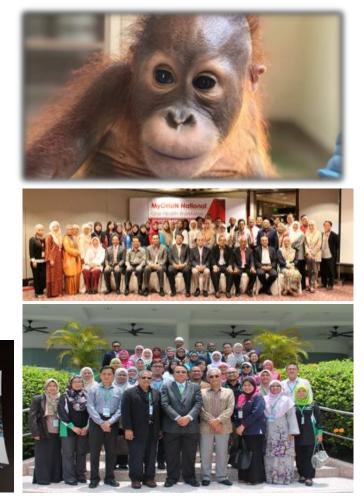


MyOHUN Achievements & Success Stories

MyOHUN activities

- 23 activities in year 1 (2015)
- ✓ 46 activities in year 2 (2016)
- ✓ 34 activities in year 3 (2017)
- ✓ 31 activities year 4 (2018)
- ✓ 28 +++ activities in year 5 (2019)

to meet its 5 strategic objectives and outcomes (KPI)











MyOHUN Achievements & Success Stories

- **1.** Problem Based Learning
- 2. Curriculum Mapping & Review
- **3.** Development of Modules
- 4. Simulation of Disease Outbreaks
- 5. Wildlife Zoonosis & Ecosystem Health
- 6. One Health Student Clubs
- 7. One Health Young Leaders and Communicators
- 8. One Health Programmes to Community
- 9. Research
- **10.** Colloquium, Seminars & Workshops
- **11.** Antimicrobial Resistance
- **12.** One Health Disaster Frontliners
- **13.** Roadmap for National OHW
- **14.** Sustainable One Health University Network













Problem Based Learning

- Publication of One Health PBL Book I
- Training on One Health PBL for **Academicians**
- Training of Trainers (Facilitators) for One \checkmark Health PBL

WORKFORCE

- In-situ One Health PBL
- Piloting PBL Book II







EDITORS

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Curriculum Mapping & Review

- Mapping One Health Implementation in Curriculum
- One Health Core Competency (OHCC) Centric Teaching
- Curriculum Review: Incorporating OH Core Competency in Postgraduate Programs
- Implementation in OH in New Curriculum













Development of Manuals

- **Development of One Health** Manual for Diagnosis of Leptospirosis
- Development of One Health Manual on Handling Disease **Outbreaks**

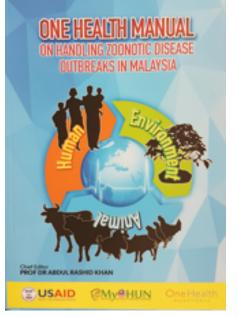
(Common Manuals to all agencies)























Simulation of Disease Outbreaks and Trainings

- Field Simulation Training on Handling Disease Outbreak
 Avian Influenza (AI)
- One Health Table Top Simulation Exercise Field Training on Rabies Outbreak
- ✓ One Health Field Epidemiology Training
- Development of Table Top and Field Simulation Teaching Module
- ✓ Training of Trainers on Integrated Surveillance System
- One Health Field Training for Emerging Zoonoses











Wildlife Zoonosis & Ecosystem Health

- Training on Wildlife Disease Risk Analysis
- Training of Wildlife Zoonoses and Ecosystem Health
- Seminar on Wildlife Zoonoses









One Health Student Clubs

- 8 OH Student Clubs from 8 Universities
- One Health Initiative
- One Health Medical Pioneer Programmme
- ✓ One Health Young Leaders













One Health Young Leaders and Communicators

- To enhance capabilities of the young leaders
- To enhance One Health knowledge among the young leaders
- To establish sustainable networking for future One Health Workforce













One Health Programmes to Community

Community Education

- One Health Program to Local Community
- Community Education and Field Training on Disease Transmission Among the Indigenous People (Orang Asli) in Peninsular Malaysia











Antimicrobial Resistance

- One Health Antimicrobial Resistance (AMR)
 Seminar & Launching of Malaysian Action
 Plan on AMR (MyAP-AMR: 2017-2021)
- One Health Antimicrobial Resistance Surveillance
- One Health Integrated Antimicrobial (AMR) Seminar and Workshops
- AMR and Antibiotics Awareness Creative Contents Video Development













One Health Disaster Front-liners

- Natural Disaster Management Agency (NADMA)
- Development Comprehensive Module for Front-liners
- Case Scenario for Zoonotic Disaster
 Simulation
- Training of Trainers on One Health Disaster Front-liner Modules











Research

- 17 Community-based Extension Project
 Successfully Completed
- Training of Current OHW on Research Grant Opportunities and Writing Effective Research Proposal on One Health Projects
- Seed Funding for One Health Project
- Teaching Grants for One Health Competencies













Colloquium, Seminars & Workshops

- International Congress on One Health & AAVS-<u>MyOHUN</u>-WPSA (Malaysia) Meeting 2019
- Emerging & Zoonotic Disease
 Investigation Colloquium
- Seminar on Infectious Disease Management
- Seminar on Threats to Tropical Ecosystem Health
- Iintegrating One Health Concept
 Among Public Health Personnel
- Infectious Disease Management
- Grant to Participate in National and International Conferences / Workshop / Seminars









Sustainable MyOHUN & SEAOHUN

- Memberships: multi / trans disciplinary 22 Faculties from 17 Universities, 3 Government Ministries (5 Government Departments) – to invite more
- 2. Executive Board & Members: Universities and Governments agencies to invite private & NGO
- 3. National Coordinating Office, MyOHUN is certified with ISO ISO 9001:2008 & to upgrade to 2015
- 4. MyOHUN Strategic Plan 2016-2020: Vision, Mission, Values, Goals, Strategic Objectives, Action Plans and KPIs
- Partnership and Engaging Intergovernmental Organization (EIO) & EPT Programmes: OiE, WHO, FAO and WTO, P&R & PREDICT, US Defense Threat Reduction Agency's (DTRA) Cooperative Biological Engagement Program (CBEP), JICA, GHSA-IHR-PVS-JEE Initiatives, JICA, TWN.
- 6. Regional champion (eg. PBL, QMS and Leptospirosis)
- Actively involves on issues and challenges of infectious and zoonotic diseases, AMR, biosecurity & biosafety, bioterrorism & agroterrorism through OH approach (OHW)







Thank You



MyOHUN Executive Board Meeting

2nd Working Group Meeting, 10-11 October, 2011, Kuala Lumpur Malaysia







