



Let's Unite to Stop Future Pandemics: the Role of Universities

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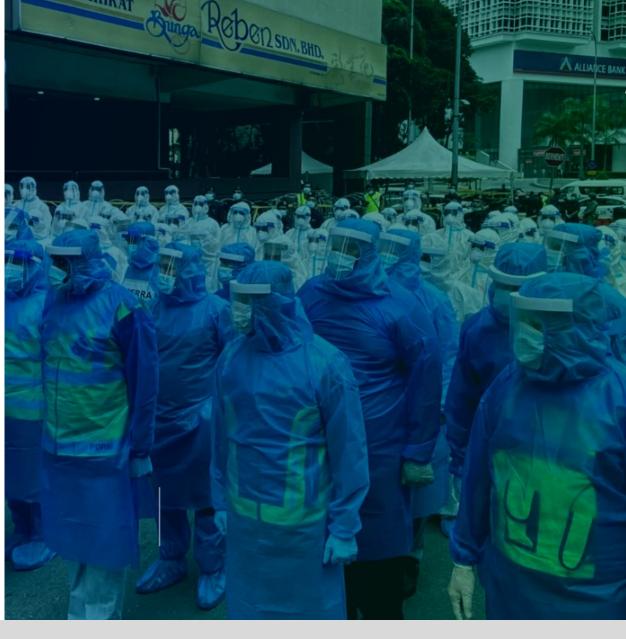
Berkeley



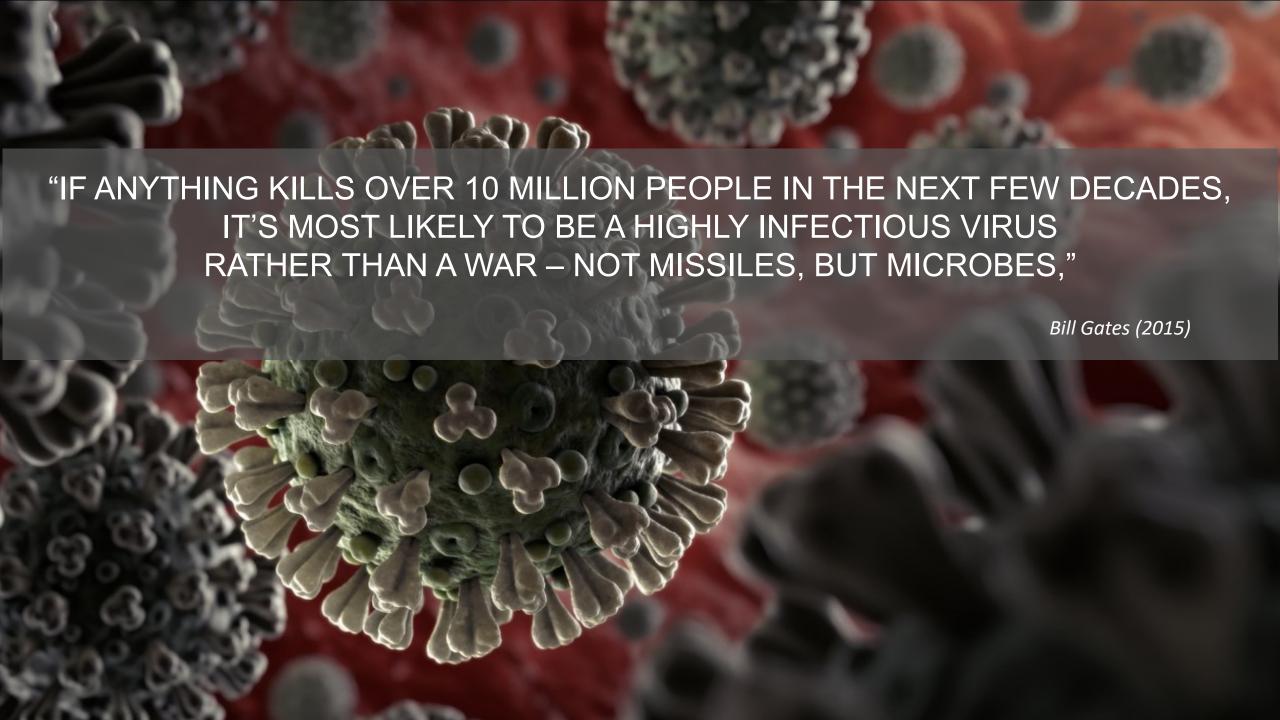


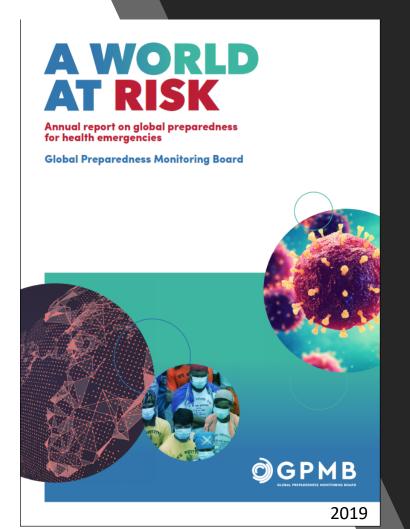






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A yearly investment of US\$ 1.9–3.4 billion to strengthen animal and human health systems would yield an estimated global public benefit of more than US\$ 30 billion annually,

a ROI of 10 to 1 or higher!

Considering the benefits to economic growth (not counting the enormous cost to human life), investing in health systems to implement the IHR (2005) would yield a positive return on investment in all plausible scenarios.



Global economy could lose over \$4 trillion due to COVID-19 impact on tourism

30 June 2021

Economic losses are mounting in developing countries due to the absence of widespread COVID-19 vaccinations.



@ Fahien



Last Updated at (M/D/YYYY)
11/26/2021, 2:22 PM

260,092,573

Total Cases

Total Deaths

5,182,579

Total Vaccine Doses Administered

7,527,195,943

Cases | Deaths by Country/Region/Sovereignty

US 28-Day: 2,275,673 | 31,061 Totals: 48,126,574 | 775,797

Germany 28-Day: **1,116,509** | **4,958** Totals: **5,670,253** | **100,480**

United Kingdom 28-Day: **1,097,673 | 4,248** Totals: **10,076,116 | 144,876**

Russia 28-Day: 1,043,706 | 33,148 Totals: 9,303,751 | 263,934

Turkey 28-Day: **717,104 | 5,842** Totals: **8,678,609 | 75,840**

Ukraine 28-Day: **564,386 | 18,189** Totals: **3,548,842 | 88,664**

Poland 28-Day: 435,381 | 5,413 Totals: 3,434,272 | 82,186

Netherlands 28-Day: **426,789 | 797** Totals: **2,575,172 | 19,607** 28-Day Cases

14,098,812

28-Day Deaths **199,826**

28-Day Vaccine Doses Administered 818,144,377









A LEADING REGIONAL NETWORK
OF UNIVERSITIES
ON ONE HEALTH
CAPACITY BUILDING









92 UNIVERSITIES IN 8
COUNTRIES





OUR MISSION: To develop a resilient and competent One Health workforce to effectively prevent, detect and respond to infectious disease threats by leveraging education, research, and training excellence provided by member universities.

SEAOHUN advocates the role of universities to ...



Provide the capacity building

of professionals across sectors to solve complex One Health issues



Do research that matter

support policymakers with evidence-based information for decision making



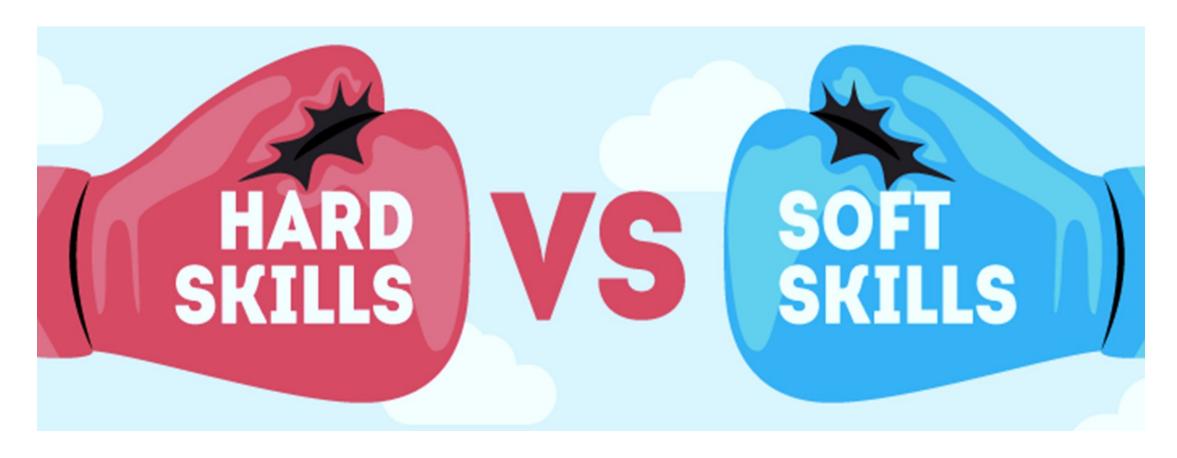
Support public health surge capacity e.g., diagnostic testing, outbreak investigation

What to do when there is no data system?

- MOH noticed that rates of infant and maternal mortality were high
- No data available to allocate limited resources, not even any data on mortality rates by district
- Low literacy
- Lacking electricity and cell phone coverage

CAN A SURVEILLANCE SYSTEM BE ESTABLISHED?





Don't focus solely on technical (hard) skills when teaching One Health, let's transform students from passive to active learners by applying learner-centered activities and having multidisciplinary students learning together in their journey to become One Health leaders.



You don't hire for skills, you hire for attitude. You can always teach skills.

- Simon Sinek



Do research that matter, support policymakers with evidence-based information



Public Health Surge Capacity





USAID ONE HEALTH WORKFORCE – NEXT GENERATION (OHW-NG) PROJECT

The five-year project (October 2019 – September 2024)

To empower One Health university networks to sustainably develop and deliver world-leading model programs for equipping professionals with transdisciplinary skills to address complex global health issues.



















USAID STRATEGIES TO PREVENT SPILLOVER (STOP SPILLOVER) PROJECT

- The five-year project (October 2020 September 2025)
- To understand and address the threats posed by zoonotic viral diseases and reduce the risk of viral spillover and spread.
- Led by Tufts University, SEAOHUN coordinates and manages the STOP Spillover implementation in Southeast Asia in collaboration with its 12 consortium partners.



- Monitor, analyze, and characterize the risk of priority zoonotic viruses spilling over from animals to people.
- Develop, test, and implement interventions and policies to reduce the risk of priority viral zoonotic spillover.
- Mitigate the amplification and spread of priority zoonotic viral diseases if spillover occurs.





CHEVRON STRENGTHENING ONE HEALTH EDUCATION IN SOUTHEAST ASIA PROJECT

To increase knowledge and practice of One Health to better prepare the Southeast Asia region to combat infectious disease outbreaks originating from animals.

The two-year project (January 2021 – December 2022), led and managed by SEAOHUN, strengthens One Health education from school-aged children and their teachers, university students and their professors, to practicing health professionals who are solving complex health issues in their communities.













- United States of Agency for International Development (USAID)
- Chevron
- Korea International Cooperation Agency (KOICA)
- United States Department of State (U.S. DOS)
- Pfizer
- Food and Agriculture Organization of the United Nations Regional Office for Asia and the Pacific (FAO RAP)
- World Organization for Animal Health Sub-Regional Representation for Southeast Asia (OIE SRR-SEA)
- ASEAN Plus Three Field Epidemiology Training Network (ASEAN+3 FETN)
- Regional Field Epidemiology Training Program for Veterinarians (R-FETPV)
- Southeast Asian Ministers of Education Organization Tropical Medicine and Public Health Network (SEAMEO TROPMED)
- SEAMEO Regional Centre for STEM Education (SEAMEO STEM-ED)
- Eijkman Institute for Molecular Biology, Indonesia
- IPB Primate Research Center, Indonesia
- · Agricultural Research for Development (CIRAD), Thailand
- Chulalongkorn University Veterinary Antimicrobial Resistance Cluster, Thailand
- Thai Coordinating Unit for One Health (Thai CUOH), Ministry of Public Health, Thailand
- Tropical Disease Research Center (TDRC) of Khon Kaen University, Thailand
- Bureau of Animal Industry, Department of Agriculture, the Philippines
- International Livestock Research Institute (ILRI), Vietnam
- Wildlife Conservation Society (WCS), Vietnam
- University of California Davis and its One Health Workforce Next Generation Consortium
- Tufts University and its Strategies to Prevent Spillover Consortium





GHSA action packages



Workforce **Development**



National Laboratory Systems



Zoonotic **D**isease

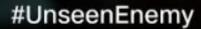


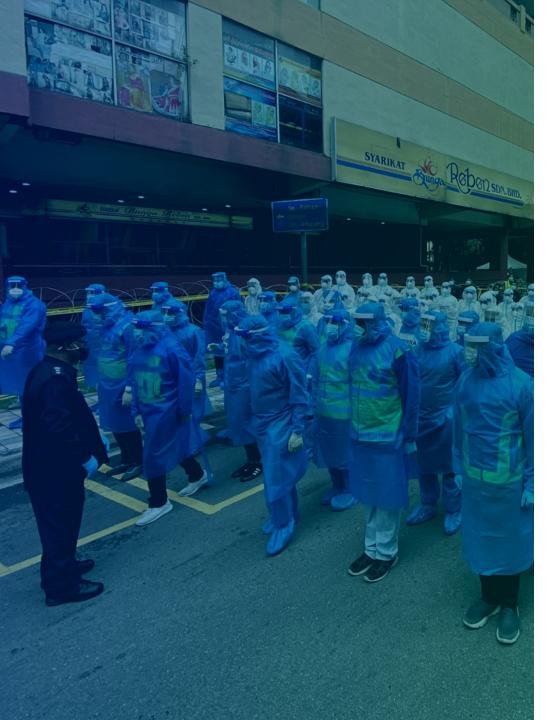
GHSA Leadership Meeting, 19 November 2021, Phuket



"Outbreaks are inevitable. Pandemics are optional. We have the chance to stop something that could be horrific."

Dr. Larry Brilliant





Let's collaborate among ministries,
UNIVERSITIES and the private sector in
developing One Health workforce,
generating evidence-based information
for policymakers, and maintaining public
health surge capacity.

We Must Be United to Stop Future Pandemics.



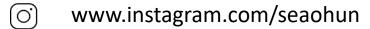


Build Immunity for Humanity

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