





Dr. Cheryl Stroud



Dr. Laura Streichert

## AGENDA

# Synergizing One Health Collaborations

### **I. Welcome and Thank You for participating** - Cheryl Stroud, One Health Commission (3 min)

- A. This meeting is an 'ACTION' for true collaboration among those of us sharing a common vision.
- B. Dr. Laura Streichert, Co-Chair of the One Health Social Sciences Initiative, (<http://bit.ly/2GxZnqQ>) will help moderate, open microphones and be the keeper of the clock. A few logistics....
- C. Each participant will have a total of 6-7 minutes. If time allows we will take 1-2 questions at the end of each presentation.
- D. Content of all slides and email addresses will be combined into one document and shared after the October 24 meeting for follow up collaborations.

### **II. The purpose of this meeting** - George Lueddeke ( 3 min)

### **III. Organization Presentations** (see schedule below for October 17 and for October 24)

### **IV. Brief Discussions / Summary** – George Lueddeke



## One Health Opportunities Online Bulletin Board



[https://www.onehealthcommission.org/en/resources\\_\\_services/](https://www.onehealthcommission.org/en/resources__services/)

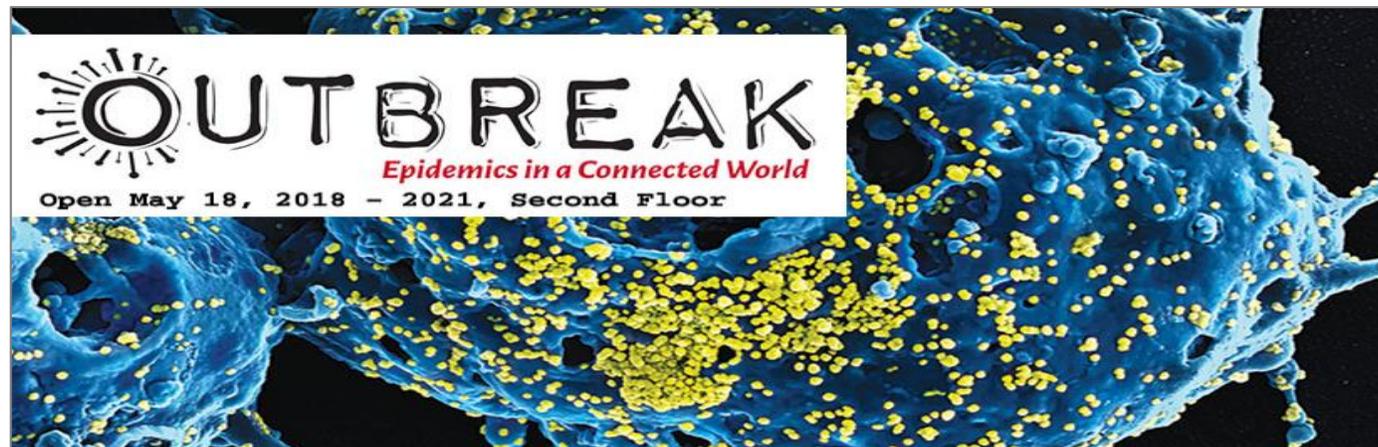
# One Health Happenings!



<https://www.onehealthcommission.org/en/news/>

Smithsonian Museum  
of Natural History Exhibit

<http://bit.ly/2HD3iYS>



**Synergizing One Health Collaborations**  
**Organization Presentations**

October 17, 2018

1.	U.S. Centers for Disease Control and Prevention	Dr. Casey Barton- <u>Behravesh</u>
2.	<u>EcoHealth Alliance</u> (and updates from APHA)	Dr. Catherine <u>Machalaba</u>
3.	Network for the Evaluation of One Health (NEOH)	Dr. Maurizio <u>Aragrande</u>
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8.	U Geneva Institute Global Health	Dr. Rafael Ruiz de Castaneda Blum
9.	United Nations Development Program (UNDP)	Dr. Douglas Webb
10.	U Pretoria Institute of Tropical Medicine	Dr. Tshepo <u>Matjila</u>
11.	World Bank Group	Dr. Franck Berthe





## II. The purpose of this meeting (3 min)

Dr. George Lueddeke  
Chair, One Health Education Task Force



Congratulations on George's new book:  
'Survival: One Health, One Planet, One Future'



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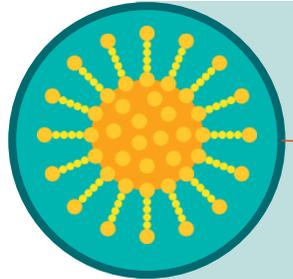
# One Health

## **One Health in Action at the CDC: Protecting Health in the United States and Around the World**

**CAPT Casey Barton Behravesh MS, DVM, DrPH, DACVPM**  
**Director, One Health Office**  
**National Center for Emerging and Zoonotic Infectious Diseases**  
**Centers for Disease Control and Prevention**  
[www.cdc.gov/onehealth](http://www.cdc.gov/onehealth)

# CDC's One Health Office – Key Focus Areas

*Achieving Optimal Health Outcomes for People and Animals*



**Zoonotic and Emerging  
Infectious Diseases**



**Global Health Security**



**Influenza and Pandemic  
Preparedness**



**Advancing One Health in  
the United States and  
Globally**



**One Health Issues and  
Emergencies at the Human-  
Animal-Environment Interface**



**Preventing Zoonoses  
Shared Between People  
and Pets**

# Highlights: One Health Activities in the United States

- **Provide** technical assistance, expertise, and policy input on One Health projects, emergencies, and issues
- **Coordinating** federal One Health Zoonotic Disease Prioritization activities in collaboration with DOI and USDA
- **Address** IHR core capacities from US Joint External Evaluation and US National Action Plan for Health Security
- **Lead** One Health Federal Interagency Network (**OH-FIN**)
- **Partner** with US government partners, industry, professional organizations, and others on zoonoses prevention



# Highlights: One Health Activities around the World

- **Provide** technical assistance to >20 countries **>20 Countries**
- **Partner** with key global organizations (**WHO**, others)
  - **Host** CDC Loaned Experts
    - Food and Agriculture Organization of the United Nations (**FAO**)
    - World Organization for Animal Health (**OIE**)
- **Serve** as head of OIE Collaborating Center for Emerging and Reemerging Zoonotic Diseases
- **Support** Global Health Security Agenda (GHSA) activities
- **Lead** CDC's One Health Zoonotic Disease Prioritization process and national One Health Strategic Planning workshops



# One Health Zoonotic Disease Prioritization

## One Health Zoonotic Disease Prioritization Workshop

One Health recognizes the connection between human, animal, and environmental health.

### What is the purpose of the One Health Zoonotic Disease Prioritization Workshop?

Effective mitigation of the impact of endemic and emerging zoonotic diseases of public health importance requires multisectoral collaboration and interdisciplinary partnerships.

- Conducting this workshop allows a country to
  - Bring together multisectoral, One Health representatives to connect human, animal (both livestock and wildlife), and environmental health sectors
  - Prioritize endemic and emerging zoonoses of greatest national concern using equal input from all represented sectors
  - Support the creation of One Health coordination mechanisms to improve health outcomes for humans and animals
  - Focus the use of limited resources to build capacity and reduce the impact of prioritized zoonoses



### Why conduct a One Health Zoonotic Disease Prioritization Workshop?

Workshop participation can help to strengthen multisectoral collaborations.

- Prioritized zoonoses can focus limited financial and personnel resources to
  - Build laboratory capacity
  - Conduct efficient and effective surveillance in humans and animals
  - Develop joint outbreak response plans
  - Create prevention and control strategies for both human and animal health
- Zoonotic diseases can be prioritized even in the absence of reliable prevalence data
- Provide outcomes in a timely manner so that participants may give immediate feedback and capitalize on collaborations built during the prioritization process

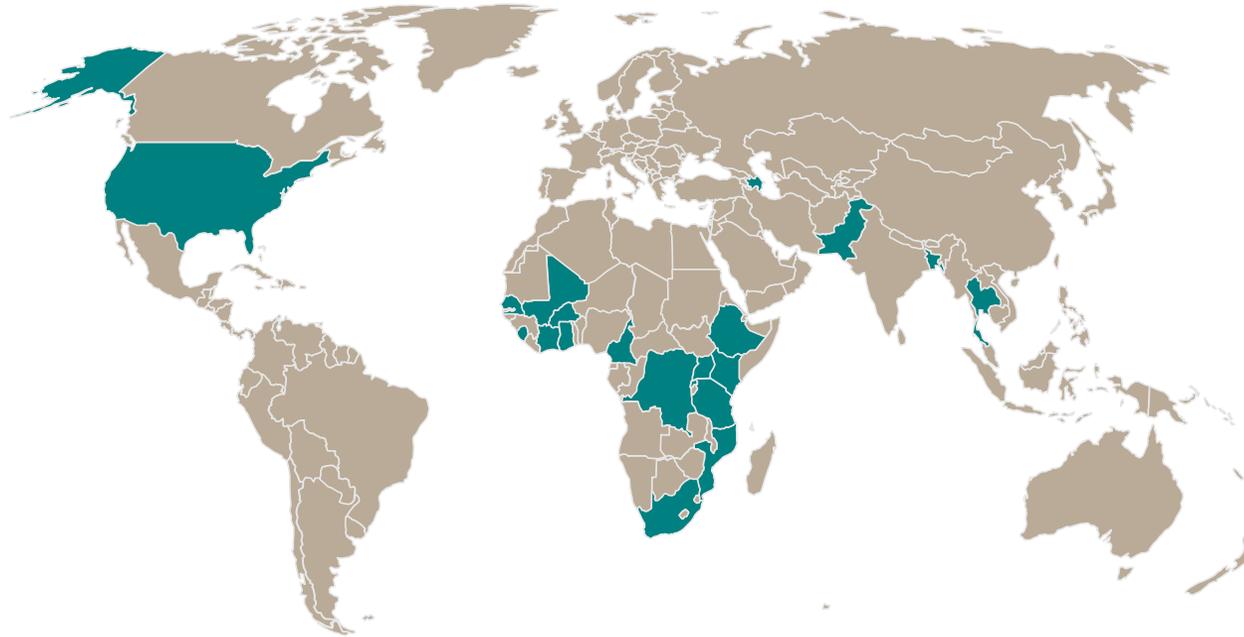
### Who are the recommended workshop participants?

Creating an interdisciplinary response requires contributions from all sectors and identification of common priorities.

- Two core voting members representing each of the following sectors (typically 8 to 12 stakeholders)
  - Ministry of Health
  - Ministry of Agriculture, Livestock, and Fisheries (or similar agency)
  - Ministry of Wildlife (or similar agency)
  - Ministry of Environment (or similar agency)
  - Other government agencies active in zoonotic disease work
- Observers representing CDC, WHO, FAO, USAID, key academic partners, and non-governmental institutions working in the area of zoonotic diseases (typically 10 to 15 observers)

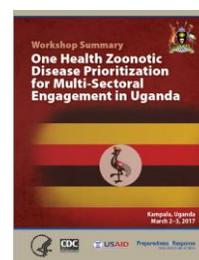
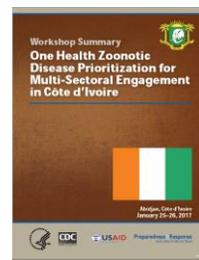
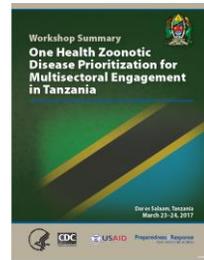


Centers for Disease Control and Prevention  
National Center for Emerging and Zoonotic Infectious Diseases



## **Most commonly prioritized zoonoses:**

1. Rabies
2. Zoonotic Influenza viruses
3. Viral Hemorrhagic Fevers
4. Brucellosis
5. Anthrax



For more information, visit:  
[www.cdc.gov/onehealth/global-activities/prioritization.html](http://www.cdc.gov/onehealth/global-activities/prioritization.html)

# Healthy Pets, Healthy People

[www.cdc.gov/healthypets](http://www.cdc.gov/healthypets)

## ADOPT THESE HEALTHY PET HABITS

Pets can be good for our health, but they can also carry germs that make people sick. Pets can carry germs even if they look clean and healthy. Learn how to enjoy pets while staying healthy!

**PICK THE RIGHT PET!**

- Do your homework before getting a new pet.
- Some pets aren't safe for kids under 5, older adults, people with weakened immune systems, or pregnant women.

**KEEP IT CLEAN!**

- Wash hands after touching, feeding, or caring for your pets.
- Scoop the poop: clean up after pets in your house, yard, and in public places.

**PLAY SAFELY!**

- Don't kiss your pets or let them lick your face.
- Take care to avoid bites and scratches.
- Always supervise young children around pets.

**TAKE YOUR PET TO THE VET!**

- Regular veterinary visits help keep pets healthy, which helps keep you healthy.
- Take your pet to the vet if you think it might be sick.

Remember, healthy pets = healthy people!

## Healthy Pets Healthy People



### Keeping Pets Healthy Keeps People Healthy Too!

Studies have shown that the bond between people and their pets can increase fitness, lower stress, and bring happiness to their owners. But there's something else you should know.

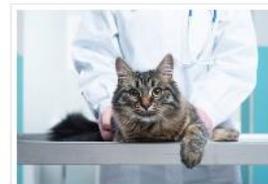
Pets sometimes carry germs that can make people sick. The diseases people get from animals are known as zoonotic (zoe-oh-NOT-ic) diseases. [Learn more about the benefits and risks of having pets.](#)



ABOUT PETS & PEOPLE



PETS & OTHER ANIMALS



DISEASES SPREAD BY ANIMALS



ANIMAL TALES & FEATURES



### Outbreaks

- [Salmonella Infections Linked to Pet Guinea Pigs](#)
- [Campylobacter Infections Linked to Pet Store Puppies](#)
- [Salmonella Infections Linked to Pet Turtles](#)
- [Salmonella Infections Linked to Live Poultry in Backyard Flocks](#)
- [Multi-state Outbreak of Seoul Virus Linked to Rats](#)

### New & Noteworthy

- [Outbreak Advisory: Salmonella Infections Linked to Pet Guinea Pigs](#) - Tuesday, March 06, 2018
- [Video - The Trouble with Tiny Turtles](#) - Monday, February 12, 2018
- [Definition & Core Principles of Antimicrobial Stewardship in Veterinary Medicine \(AVMA\)](#) - Wednesday, January 17, 2018
- [Compendium of Measures to Prevent Disease Associated with Animals in Public Settings, 2017](#) - Thursday, November 23, 2017
- [Pets & Antibiotic Resistance](#) - Monday, November 13, 2017

# Zoonoses & One Health Updates

CONNECTING HUMAN, ANIMAL and ENVIRONMENTAL HEALTH

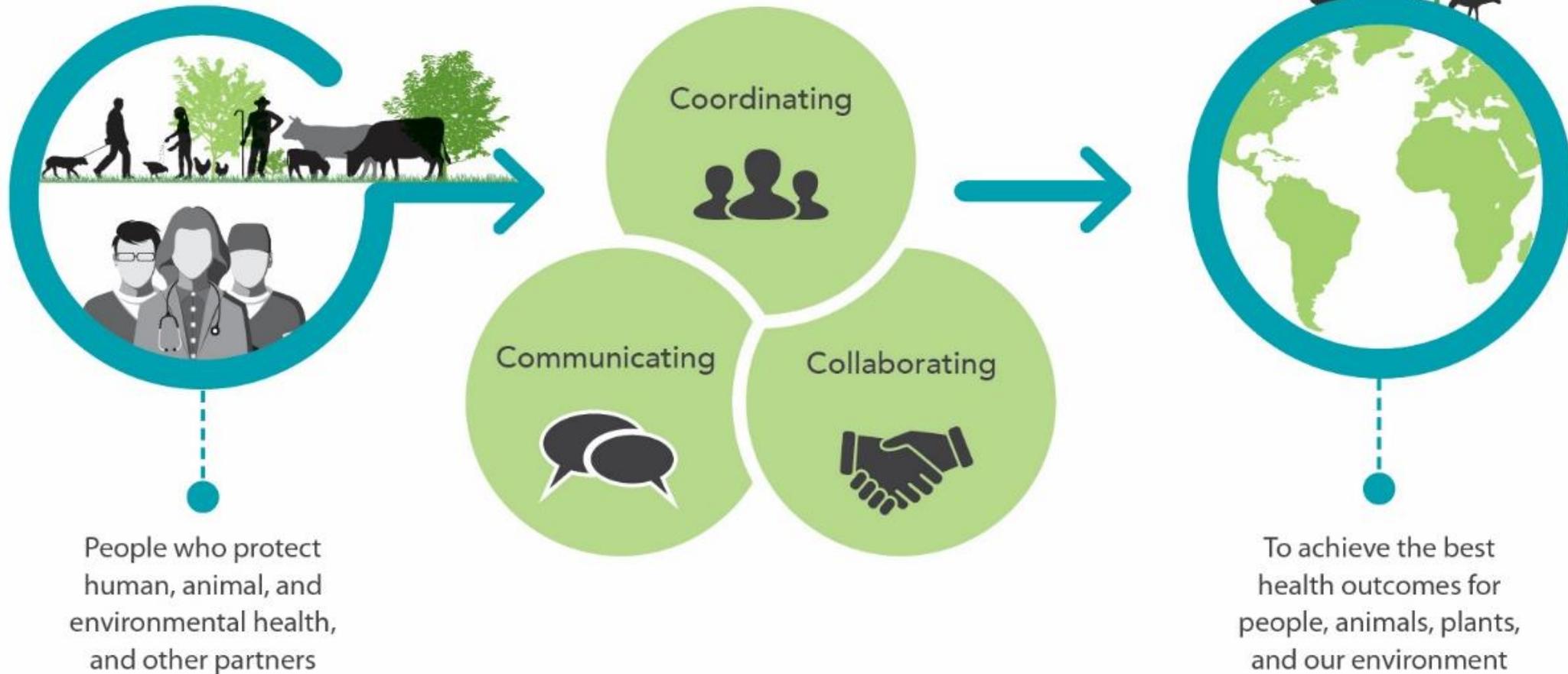


Centers for Disease Control and Prevention | National Center for Emerging and Zoonotic Infectious Diseases | One Health Office

- **1<sup>st</sup> Wednesday of month, 2pm ET**
- **NEW: Free Continuing Education**
- **>8,000 invitees from local, state, & federal human and animal health departments, organizations, academics, and many other partners**
- **Call topics include timely updates on**
  - Companion animals, livestock, and wildlife zoonoses
  - Emerging infectious diseases
  - Vector-borne, foodborne, and waterborne diseases
  - Updates on recent outbreak investigations
  - Environmental health issues
  - Prevention programs, guidance, and resources
  - Upcoming public health events and activities
- **To subscribe visit, <https://www.cdc.gov/onehealth/zohu/>**
- **To suggest topics, contact [ZOHUCall@cdc.gov](mailto:ZOHUCall@cdc.gov)**



# One Health



**One Health** is the collaborative effort of multiple disciplines and sectors – working locally, nationally, regionally, and globally – with the goal of achieving optimal health outcomes recognizing the interconnection between people, animals, plants, and our shared environment





**Synergizing One Health Collaborations**  
**Organization Presentations**

October 17, 2018

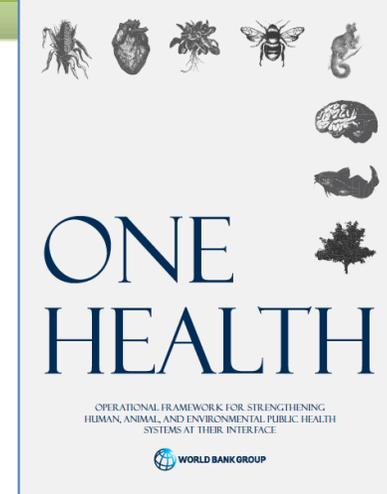
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# Ongoing One Health Initiatives with Partners

Dr. Catherine Machalaba presenting

- *Institutionalizing One Health: from Assessment to Action*
- *Role of environment in health security*
  - *CBD COP14: biodiversity mainstreaming for health*
  - *Country Assessment of Environmental Health Services*
- *One Health Economics*



REGISTER NOW DECEMBER 3 & 4, 2018

## APPLICATION OF THE ONE HEALTH APPROACH TO GLOBAL HEALTH CENTERS

ALBERT EINSTEIN COLLEGE OF MEDICINE  
PRICE CENTER • 1301 MORRIS PARK AVENUE  
Bronx, NY 10461

HUMAN HEALTH  
SYSTEMS

ENVIRONMENTAL HEALTH  
& MANAGEMENT

ANIMAL HEALTH  
SYSTEMS

ONE HEALTH

One Health recognizes that the health of people is connected to the health of animals and the environment. It is an approach to designing and executing programs and research in which a number of sectors communicate and work together to achieve better public health outcomes.

To register go to [www.eeds.com/live/418145](http://www.eeds.com/live/418145)

For information about agenda and hotel, etc go to:  
[einstein.yu.edu/centers/global-health/events/one-health-approach.aspx](http://einstein.yu.edu/centers/global-health/events/one-health-approach.aspx)

For more information email [jill.raufman@einstein.yu.edu](mailto:jill.raufman@einstein.yu.edu)

**Intended Audience:** Infectious Diseases, internal medicine physicians and Veterinary medicine, environmental health, Public health

**ACCME Statement:** Albert Einstein College of Medicine of is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

**AMA Statement:** Albert Einstein College of Medicine designates this live activity for a maximum of 10.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



[Register here!](#)

# Veterinary Public Health Group



- **One Health policy statement** adopted November 2017 (<https://www.apha.org/policies-and-advocacy/public-health-policy-statements/policy-database/2018/01/18/advancing-a-one-health-approach>)
  
- **Annual Meeting:** 11-14 November (San Diego); CE credit for veterinarians and vet. technicians (15 hours)
  - Connecting the human-animal bond and health benefits across the economy
  - Driving Global Climate Change Action to Protect Health: Health Sector Leadership, Organizing and Engagement (Inter-Sectional session)
  - One Health: Addressing threats, impacts, and opportunities at the human-animal-ecosystem interface as a result of human health equity
  - Emerging infectious diseases and the One Health perspective
  - Health disparities across Humans, Animals, and the Environment
  
- **Newsletter and social media** outreach (@APHAVPH)
  
- **Proposed Annual Meeting 2020 theme:** *Creating the Healthiest Nation: Promotion of Public Health through a “One Health” Approach*

For more information, please visit: <https://www.apha.org/apha-communities/spigs/veterinary-public-health>  
Contact: machalaba@ecohealthalliance.org

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# Network for the Evaluation of One Health (NEOH)

Dr. Maurizio Aragrande

On line presentation for:

**One Health Education Task Force**

Synergizing One Health Collaborations Group  
Update meeting

October 17, 2018



# About NEOH



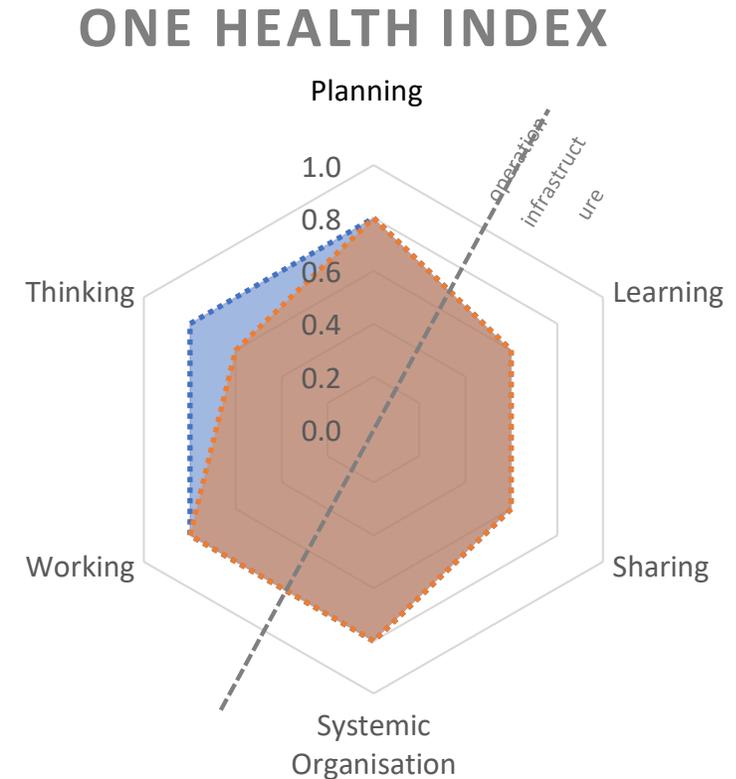
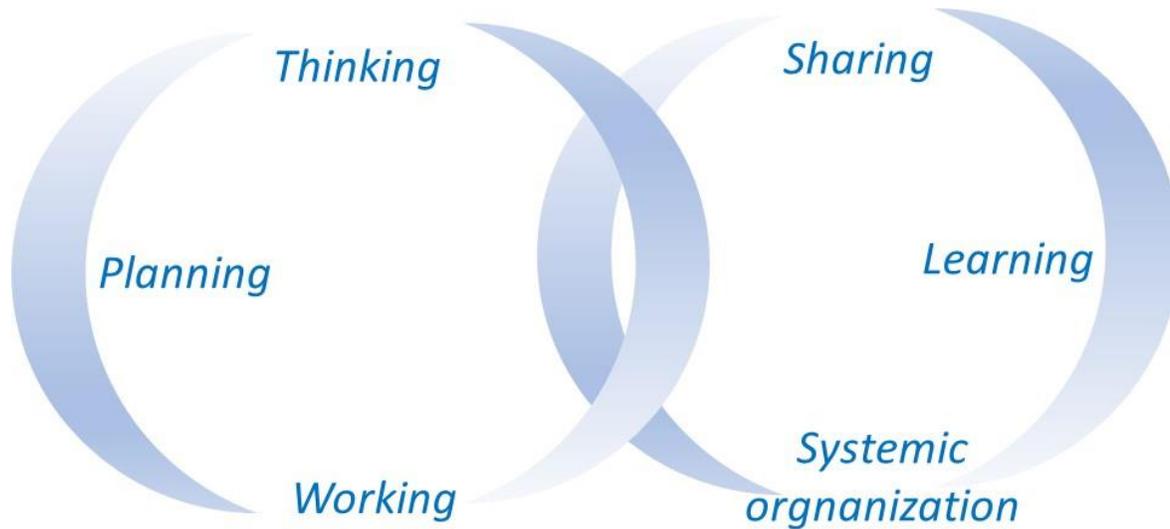
- Objectives
  - To investigate the added value of OH initiatives
  - Evaluate systemic outcomes in society, economy and ecosystems
- Method
  - System thinking, interdisciplinarity, transdisciplinarity

<http://neoh.onehealthglobal.net/>



**Network  
for Evaluation  
of One Health**

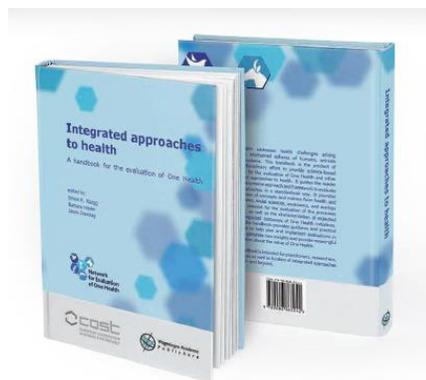
# Evaluation concept



## Concepts and experiences in framing, integration and evaluation of One Health and EcoHealth



<https://www.frontiersin.org/research-topics/5479/>



## Integrated approaches to health. A handbook for the evaluation of OneHealth

<http://www.wageningenacademic.com/neh>

## Dissemination activities

<http://neoh.onehealthglobal.net/final-action-conference>

## Creating impact for One Health and EcoHealth

advancements in implementation, evaluation, and governance

EU Cost Action TA 1404, Network for the Evaluation of One Health (NEOH)

Final Conference and Workshop

Department of Agricultural and Food Sciences, University of Bologna  
Viale Giuseppe Fanin 44, Bologna (Italy) - 10-12 September 2018



# Intangible outcomes



- Development of human capital in NEOH practice
  - Interdisciplinary team working
  - Inclusive environment
  - Mutual learning

# Need for education and training

- Needs for the continuation of NEOH activity
  - *Training in interdisciplinary and transdisciplinary approaches for OH-EH initiatives*
- Young researchers needs
  - *A place where new opinions are encouraged and a change of mind is praised*
  - *Welcoming to free-wheeling, out-of-the-box, fresh thinking*
  - *Speak in plain language*
  - *Overcome professional territorialism*
  - *Create one united movement and language around EH/OH*
  - *A problem shared is a problem halved*



Thank you for your attention!

Maurizio Aragrande  
NEOH Vice-Chair  
University of Bologna, Italy



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
DIPARTIMENTO DI SCIENZE E TECNOLOGIE  
AGRO-ALIMENTARI

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# ONE HEALTH CENTRAL AND EASTERN AFRICA (OHCEA)

**Synergizing One Health Collaborations Online - Meeting**

***Irene Naigaga***  
***OHCEA Regional Program Manager***  
***Kampala, Uganda: [www.ohcea.org](http://www.ohcea.org)***

**17<sup>th</sup> October, 2018**



Dr. Irene Nagaiga  
presenting

# OHCEA Strategic Framework 2019-2024 (Draft)

*Vision: A Global one health leader championing sustainable health for humans, animals & environment*

**Mission:** To drive transformational change for continuous improvement of health and well-being of *humans, animals, and environment through OH principles and approach* to research, training and community service

**Pillar 1:**  
EDUCATION AND  
CAPACITY BUILDING

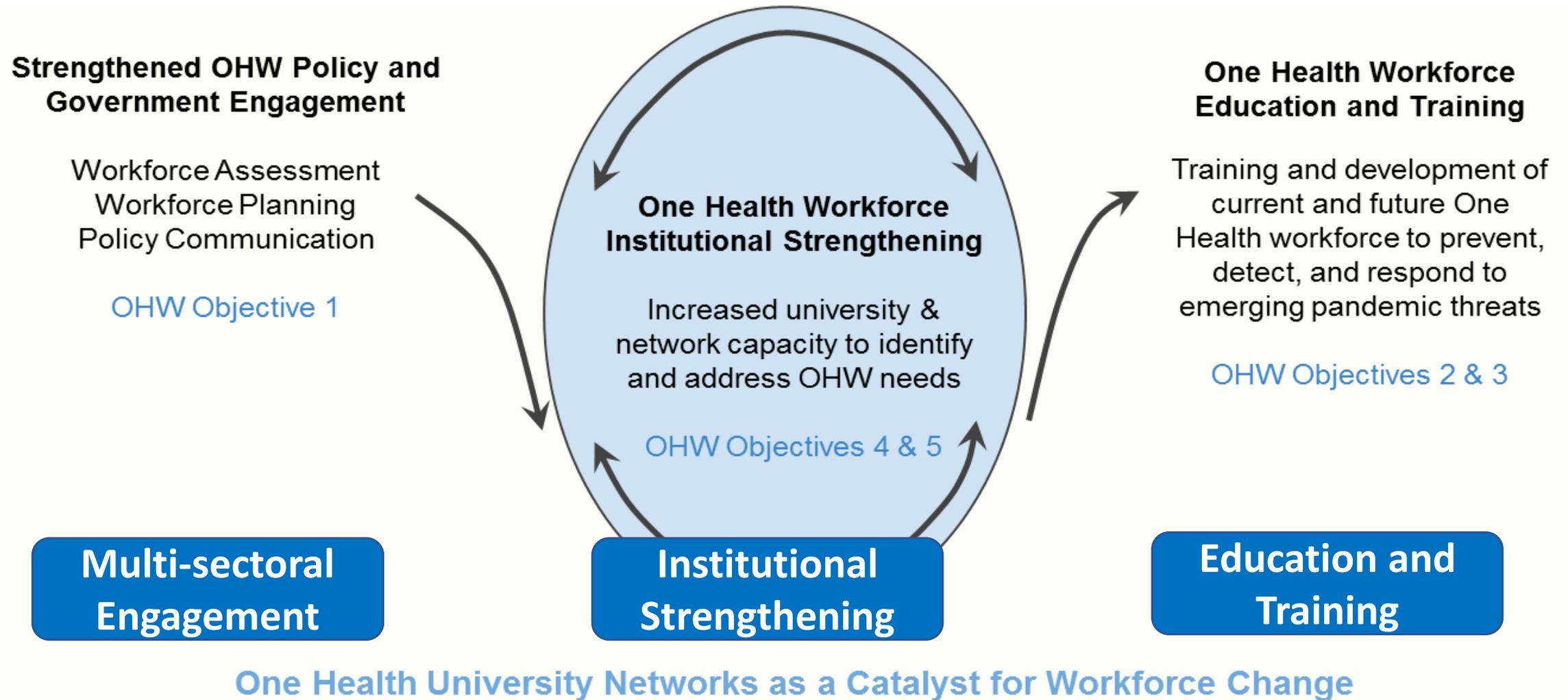
**Pillar 2:**  
RESEARCH,  
INNOVATIONS AND  
COMMUNITY SERVICE

**Pillar 3:**  
RESOURCE  
MOBILISATION &  
PARTNERSHIPS

**Pillar 4:**  
ORGANISATIONAL  
& NETWORK  
STRENGTHENING

**OHCEA's APPROACH: ONE HEALTH IS AN APPROACH AND NOT ANOTHER DISCIPLINE**

# One Health Workforce Development Strategy



**Partnerships & Collaboration**

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# OIE One Health Activities

Dr. Julie Sinclair presenting

- 2<sup>nd</sup> OIE Global Conference on Antimicrobial Resistance and the Prudent Use of Antimicrobials in Animals
  - Marrakesh, Morocco 29-31 October 2018
  - <http://www.oie.int/amr2018/en/>
- World Antibiotic Awareness Week
  - 13-19 November 2017
  - <http://www.oie.int/index.php?id=2413&L=3>
- Rabies Elimination
  - <https://mailchi.mp/oie.int/oie-is-taking-the-bite-out-of-rabies?e=83c92c7310>
  - World Rabies Day
    - 28 September 2018
  - Efforts to
    - achieve commitments for national prioritisation from countries in Phase 1 of Global Strategy
    - work towards an Official Recognition of national control programmes for dog mediated rabies

# OIE One Health Activities

- High Path Avian Influenza Global Situation Report
  - [http://www.oie.int/fileadmin/Home/eng/Animal\\_Health\\_in\\_the\\_World/docs/pdf/OIE\\_AI\\_situation\\_report/OIE\\_SituationReport\\_AI\\_June2018.pdf](http://www.oie.int/fileadmin/Home/eng/Animal_Health_in_the_World/docs/pdf/OIE_AI_situation_report/OIE_SituationReport_AI_June2018.pdf)
  - <http://www.oie.int/en/scientific-expertise/offlu-the-animal-influenzas-network/>
- Health Services Strengthening activities <http://www.oie.int/en/solidarity/>
  - PVS Pathway
  - IHR-PVS National Bridging Workshops
  - JEE participation
- EBO-SURSY Programme – implementation 2<sup>nd</sup> year
  - [http://www.rr-africa.oie.int/projects/EBOSURSY/en\\_index.html](http://www.rr-africa.oie.int/projects/EBOSURSY/en_index.html)
- Other activities
  - Taking a Multisectoral, One Health Approach: A Tripartite Guide to Addressing Zoonotic Diseases in Countries (TZG 2018) and Operational Tools

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11.	World Bank Group	Dr. Franck Berthe





# The South African Medical Association (SAMA) & One Health

Current and Future Activities

17 October 2018

Dr. Selaelo Mametja presenting



[www.samedical.org](http://www.samedical.org)



- SAMA is a member of the World Medical Association (WMA) and subscribes to the ***WMA Resolution On Collaboration Between Human & Veterinary Medicine', 2008***
- SAMA, in view of rising zoonoses, recognises the reality of climate change and its link to the domains of human and veterinary science. The general neglect of zoonotic diseases in South Africa is cause for concern.
- As such, SAMA established a sub-committee on Environmental & Climate Change issues and recently (2018) established a bilateral MoU with the Public Health Association of South Africa (PHASA). A similar MoU with the SA Veterinary Association (SAVA) is likely.
- SAMA made the first contact meeting with the South African Veterinary Association (SAVA) in 2016 to explore possible collaboration. Subsequent to that meeting, SAMA in the interim engaged academia (University of Pretoria) on the subject, which precipitated the idea of a multi-stakeholder meeting; hence the SAMA national stakeholder meeting on 25 June 2018.
- SAMA continues to expand its network globally, through our working relationship with Dr George Lueddeke of the global One Health Commission.
- SAMA is currently brainstorming on how to commemorate One Health Day 2018.





- SAMA held its first One Health meeting involving key national stakeholders on 25 June 2018, which generated the following targets:
  1. Awareness on One Health is still low among professional groups and other organisations in SA and needs to be boosted. There is need to strengthen existing One Health networks (e.g. the One Health Forum in South Africa) instead of re-inventing the wheel.
  2. One Health needs to be integrated into the medical curricular. There is need to change the way health professionals are taught: emphasis must be placed on **joint** teaching of professionals rather than in isolation.
  3. We will leverage on the Forum of Statutory Health Professional Councils (South Africa) to engage at the level of the Director General of Health.
  4. We can influence the Public Health Association of South Africa to introduce a Special Interest Group on One Health.
  5. We must jointly lobby for One Health to find expression in the ongoing Universal Health Coverage and Sustainable Development Goals agendas.
  6. There is need for joint research by stakeholders represented in the meeting, to identify research gaps, to assess teaching methods in medical / vet schools, to find out if teaching is structured in a way that incorporates the different dimensions of One Health.





# Thank you / Questions

THE SOUTH AFRICAN MEDICAL ASSOCIATION

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Block F | Castle Walk Office Park | Nossob Street | Erasmuskloof | Ext 3 | Pretoria | 0183  
PO Box 74789 | Lynnwood Ridge | 0040  
Reg No 1927/000136/08: NPC

[www.samedical.org](http://www.samedical.org)

**Synergizing One Health Collaborations**  
**Organization Presentations**

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Dr. Vipat Kuruchittham  
presenting

A consortium of universities that are collaborating to build One Health capacity and academic partnerships with government, national and regional stakeholders in the Southeast Asian region.



OneHealth  
WORKFORCE



SEAOHUN  
South East Asia One Health  
University Network

Southeast Asia  
One Health University Network

Established in 2011



20 universities,  
34 schools/faculties



17 universities,  
23 schools/faculties



10 universities,  
42 schools/faculties



20 universities,  
21 schools/faculties

IN APRIL 2018, 67 UNIVERSITIES, 120 SCHOOLS/FACULTIES

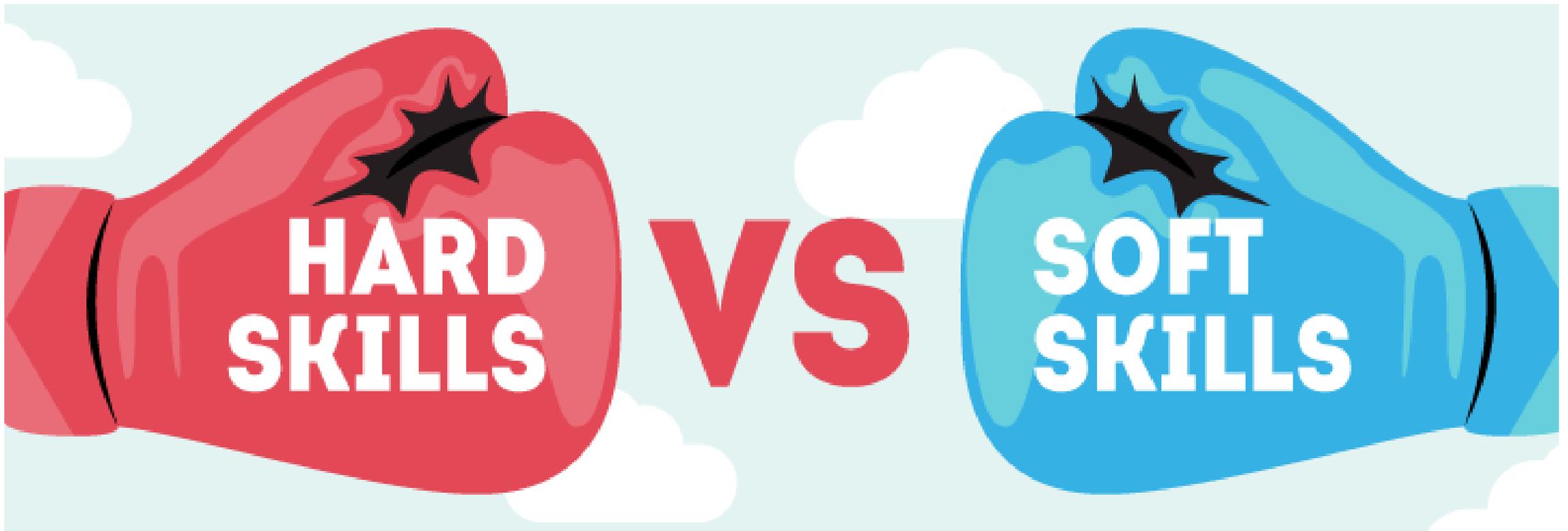


Conduct OH activities in Cambodia, Myanmar, and Lao PDR but with no formal network.

**Future Workforce**  
Pre-Service Students

**Current Workforce**  
In-Service Professionals

**Faculty/ Institutions**  
Faculty Members & Institutions



### Technical Competency

e.g., Public Health, Infectious diseases, Epidemiology  
Risk analysis, One Health concept  
**Should not be the only primary focus**

### Core Competency

e.g., Communication, Coordination, Collaboration  
Leadership, Management, Systems Thinking

**Incorporate One Health Core Competencies (OHCCs)  
into the development of technical skills  
of One Health workforce**

# Sharing of learner-centered activities when teaching One Health

Case Studies

Field  
observations  
and experiences

Games

Group projects

Problem-based  
learning  
exercises

Role plays and  
simulations

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*Synergizing One Health Collaborations*

## From Geneva to Kakuma: Opportunities for One Health Innovation in the Digital Age

Dr. Rafael Ruiz de Castañeda, PhD  
Dr. Isabelle Bolon, DVM PhD



17th October 2018, Geneva



Source: [Jacques Van Niekirk](#)

**FACULTY OF MEDICINE**  
Institute of Global Health



**UNIVERSITÉ  
DE GENÈVE**

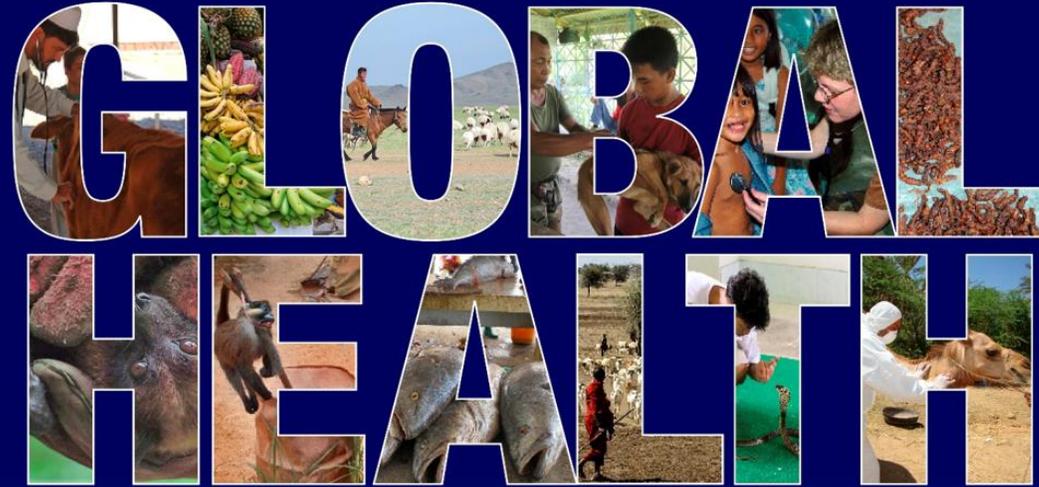
## Our approach to One Health education:

- **Trans-disciplinary:** Academia, international organizations, NGOs, citizen science approach etc.
- **International and global:** *International Geneva*
- **Humanitarian:** Poverty related diseases, zoonotic EIDs and NTDs, snakebite, refugee camps etc.
- **Innovation:** MOOCs, digital epidemiology, AI etc.
- **Youth:** Students in Geneva, in refugee camps, online etc.



## Global Health at the Human-Animal-Ecosystem Interface

- Launched March 2017
- 37 experts from 20 institutions
- 3,000 enrolments
- English, French, Chinese
- One Health: Risks and benefits at the human-animal-ecosystem interface



at the Human, Animal, Ecosystem Interface





## UNIGE's MSc in Global Health:

- Following **MOOC** together:  
Learn by teaching
- **Project-based learning**  
with focus on One Health  
challenges
- Triangle of students:  
**Geneva-Nairobi-Kakuma**
- Building **research capacity** to  
understand and tackle health  
issues at the human-animal-  
ecosystem interface

# Thank you!



**Dr. Rafael Ruiz de Castañeda, PhD**

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# UNDP's work on health-environment nexus

Dr. Douglas Webb presenting



Empowered lives.  
Resilient nations.

## Key partnerships

- ▶ WHO, UNEP, Convention on Biological Diversity, GAHP, Health Care Without Harm, civil society groups (e.g. Climate Action Network), Planetary Health Alliance, academic partners and more

## Current priority thematic areas

- ▶ **Solar for Health:** Currently implemented in 7 countries (over 700 health facilities), ongoing negotiations with additional governments
- ▶ **Climate change adaptation in the health sector:** e.g. UNDP/WHO GEF project in 6 Asian LDCs: Bangladesh, Cambodia, Lao PDR, Myanmar, Nepal and Timor-Leste to increase the adaptive capacity of national/subnational health systems and institutions to respond to and manage long-term climate-sensitive health risks
- ▶ **Climate change mitigation and health:** Discussing ways to bring health components to Nationally Determined Contribution planning processes and civil society advocacy
- ▶ **Indoor/outdoor air pollution and links to NCD agenda**



# Strategic opportunities

## Key ongoing processes

- ▶ Operationalizing UNDP-WHO MoU
- ▶ Portfolio building: The Wellcome Trust, Pure Earth/GAHP, DFID/EU
- ▶ InterAction Council/Planetary Health Secretariat
- ▶ Scaling up actions in high-burden countries (India etc.)
- ▶ Emerging work on AMR (e.g. Vietnam)
- ▶ Health emergency preparedness

## Examples of recent engagements

- ▶ Planetary Health Alliance conferences
- ▶ Health Forum at the Global Climate Action Summit (convened by HCWH, Global Climate and Health Alliance, University of California, US Climate and Health Alliance)
- ▶ Upcoming: WHO First Global Conference on Air Pollution and Health; UNFCCC COP-24

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UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

## Faculty of Veterinary Science

Fakuliteit Veeartsenykunde  
Lefapha la Disease tša Bongakadiruiwa

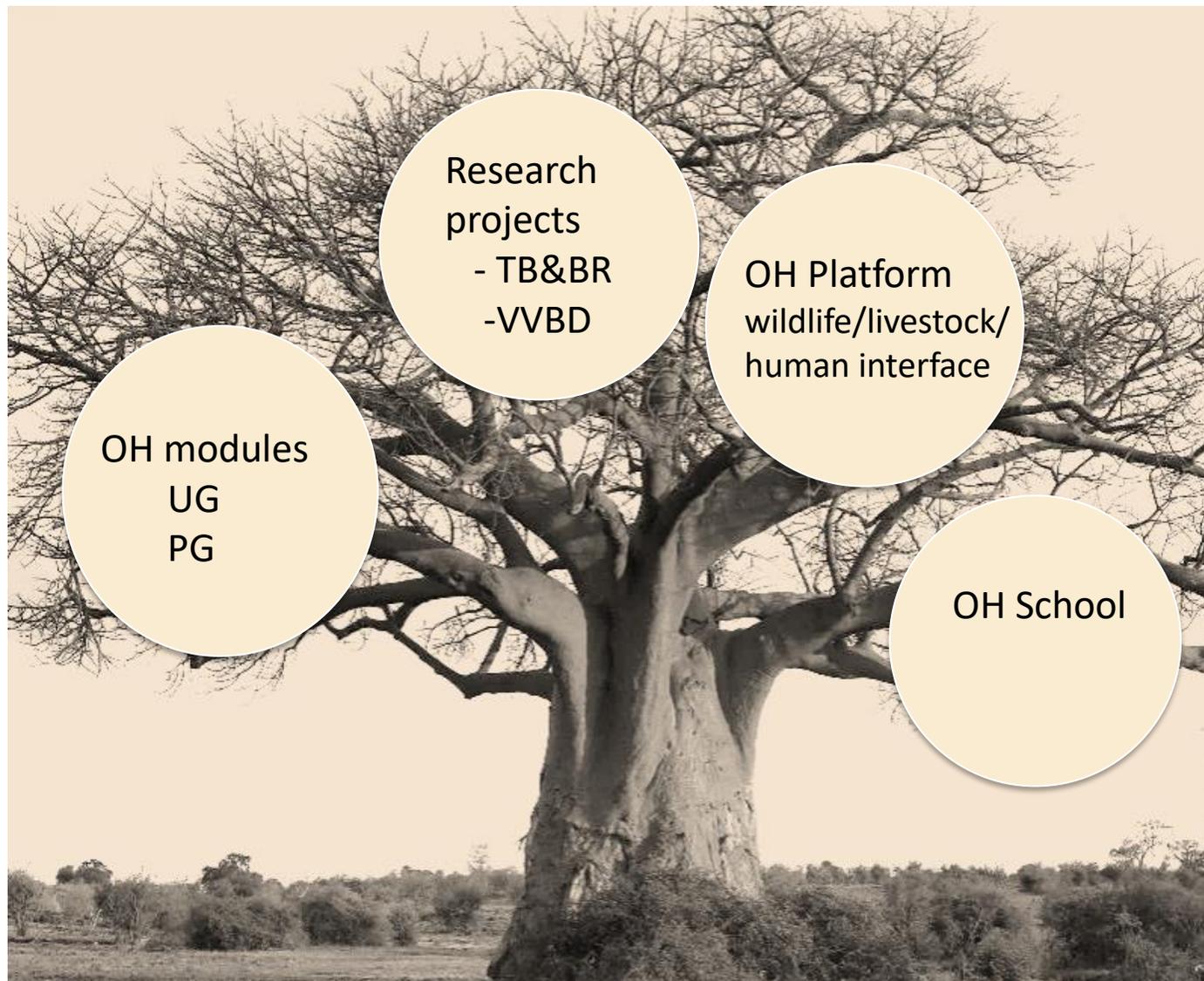


# One Health related teaching and research activities in the Department Veterinary Tropical Diseases

Tshepo Matjila  
presenting



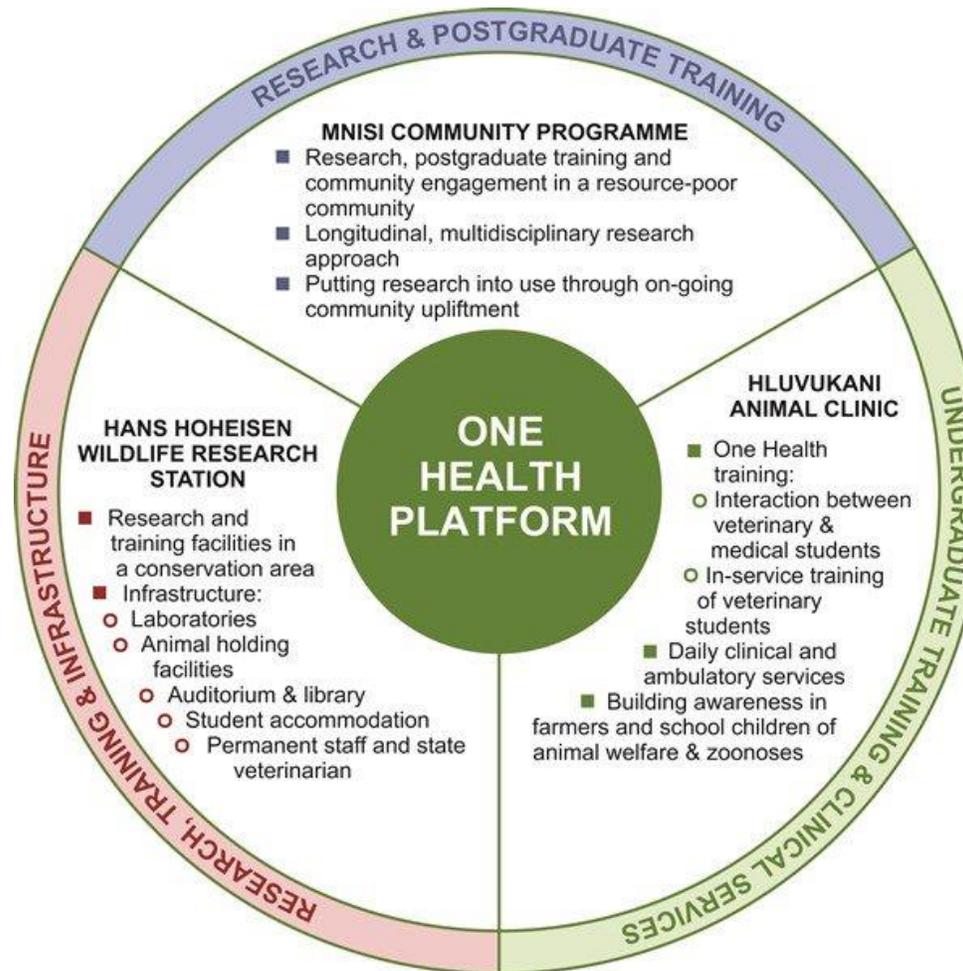
# DVTD and One Health



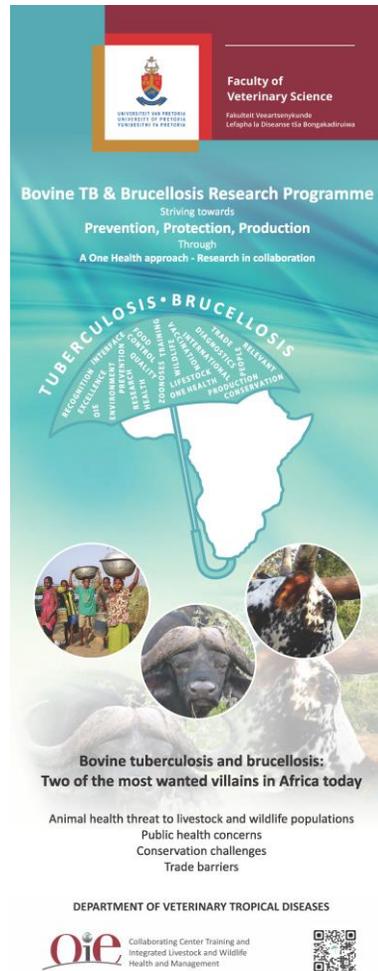
# One Health Platform



# ONE HEALTH PLATFORM



# Department of Veterinary Tropical Diseases (2)



Faculty of Veterinary Science  
Fakulteit Veterinêre Wetenskappe  
Lefapha la Dikotsoa tsa Bongakadimela

**Bovine TB & Brucellosis Research Programme**  
Striving towards  
**Prevention, Protection, Production**  
Through  
A One Health approach - Research in collaboration

**TUBERCULOSIS • BRUCELLOSIS**

ACQUISITION, INHERITANCE, ENVIRONMENT, PREVENTION, CONTROL, HEALTH, ZOOLOGICAL, DIAGNOSIS, TREATMENT, RELIEF, PRODUCTION, CONSERVATION, LIVESTOCK, ONE HEALTH, PRODUCTION, CONSERVATION

**Bovine tuberculosis and brucellosis:  
Two of the most wanted villains in Africa today**

Animal health threat to livestock and wildlife populations  
Public health concerns  
Conservation challenges  
Trade barriers

DEPARTMENT OF VETERINARY TROPICAL DISEASES

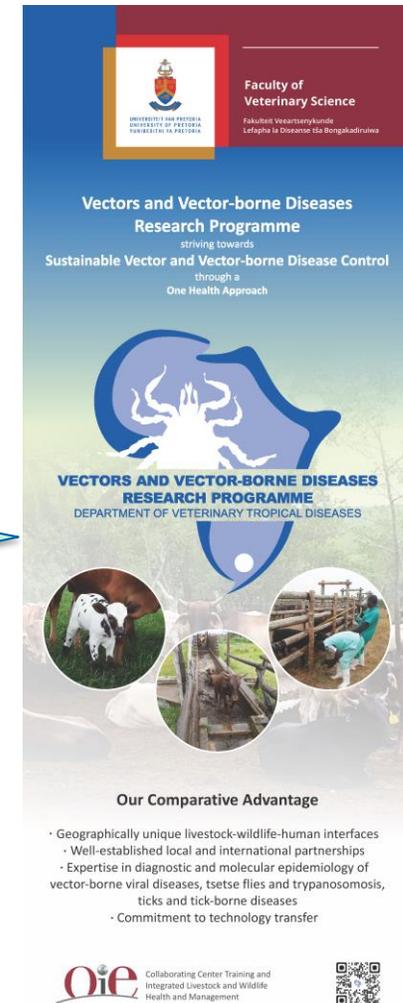
**Oie** Collaborating Center Training and Integrated Livestock and Wildlife Health and Management



## 2 Research Programmes

Tuberculosis and Brucellosis

Vectors and vector-borne Diseases



Faculty of Veterinary Science  
Fakulteit Veterinêre Wetenskappe  
Lefapha la Dikotsoa tsa Bongakadimela

**Vectors and Vector-borne Diseases  
Research Programme**  
striving towards  
**Sustainable Vector and Vector-borne Disease Control**  
through a  
One Health Approach

**VECTORS AND VECTOR-BORNE DISEASES  
RESEARCH PROGRAMME**  
DEPARTMENT OF VETERINARY TROPICAL DISEASES

**Our Comparative Advantage**

- Geographically unique livestock-wildlife-human interfaces
- Well-established local and international partnerships
- Expertise in diagnostic and molecular epidemiology of vector-borne viral diseases, tsetse flies and trypanosomiasis, ticks and tick-borne diseases
- Commitment to technology transfer

**Oie** Collaborating Center Training and Integrated Livestock and Wildlife Health and Management



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# World Bank and One Health

Dr. Franck Berthe presenting

The Onchocerciasis Control Program (OCP)

The African Program for Onchocerciasis Control (APOC)

The Global Program for Avian Influenza Control and Human Pandemic Preparedness and Response (GPAI)

The Regional Disease Surveillance Systems Enhancement Series of Projects (REDISSE)



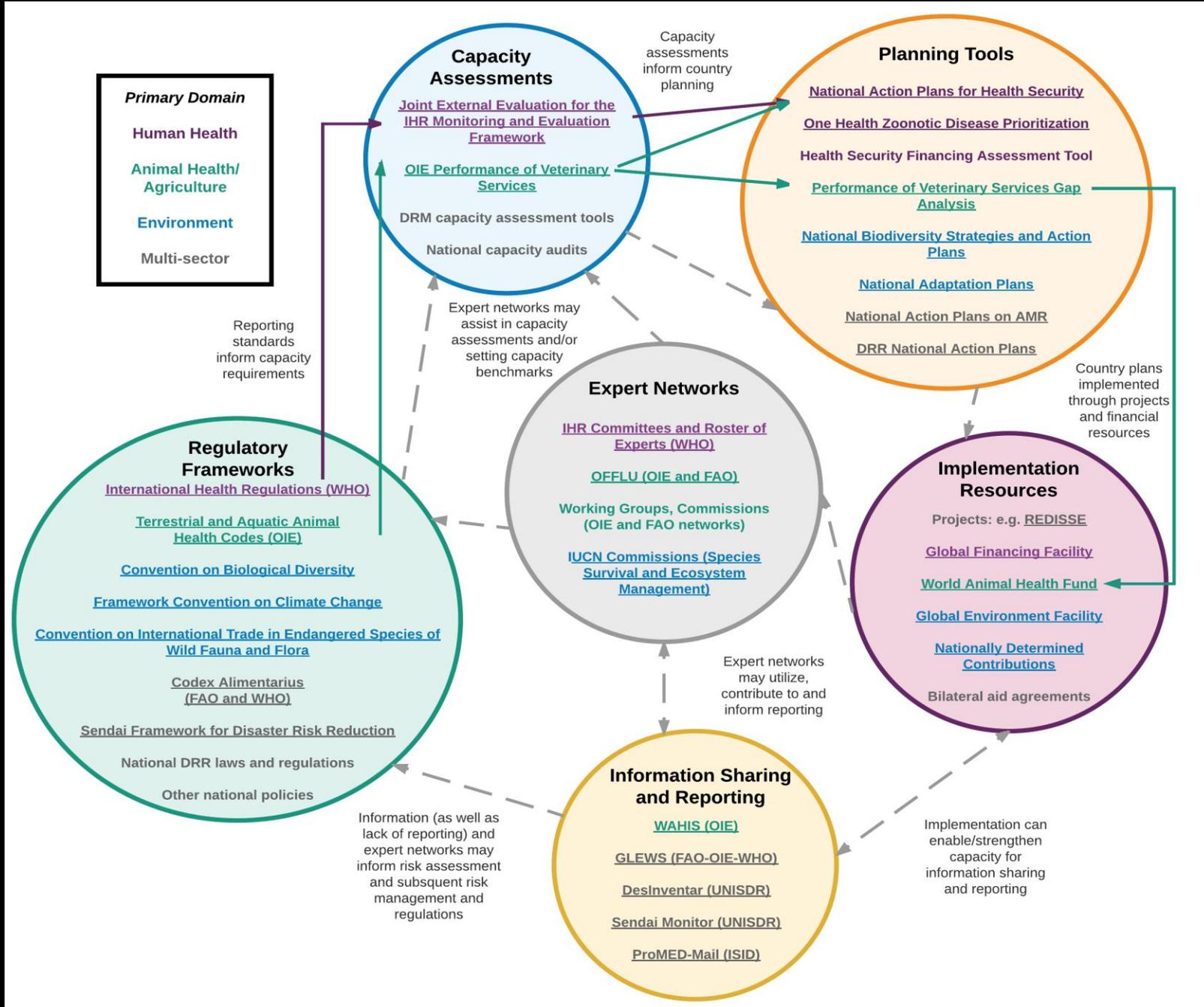
*Strong, environmentally considerate, public health systems are needed to prevent, reduce and manage risks to humans, animals and the environment and are critical to achieving the World Bank twin goals of ending extreme poverty and boosting shared prosperity*

# ***Operational Framework for Strengthening Human, Animal and Environmental Public Health Systems at their Interface (“One Health Operational Framework”)***

## **Content**

1. Strategic Context and Rationale
2. Value of Investing in One Health
3. Policy, Technical & Institutional Aspects: an Inventory of Tools
4. One Health Entry Points
5. Building Blocks to Operationalizing One Health
6. Monitoring and Upscaling
7. Annexes: lessons, examples, expanded library of tools, and safeguards

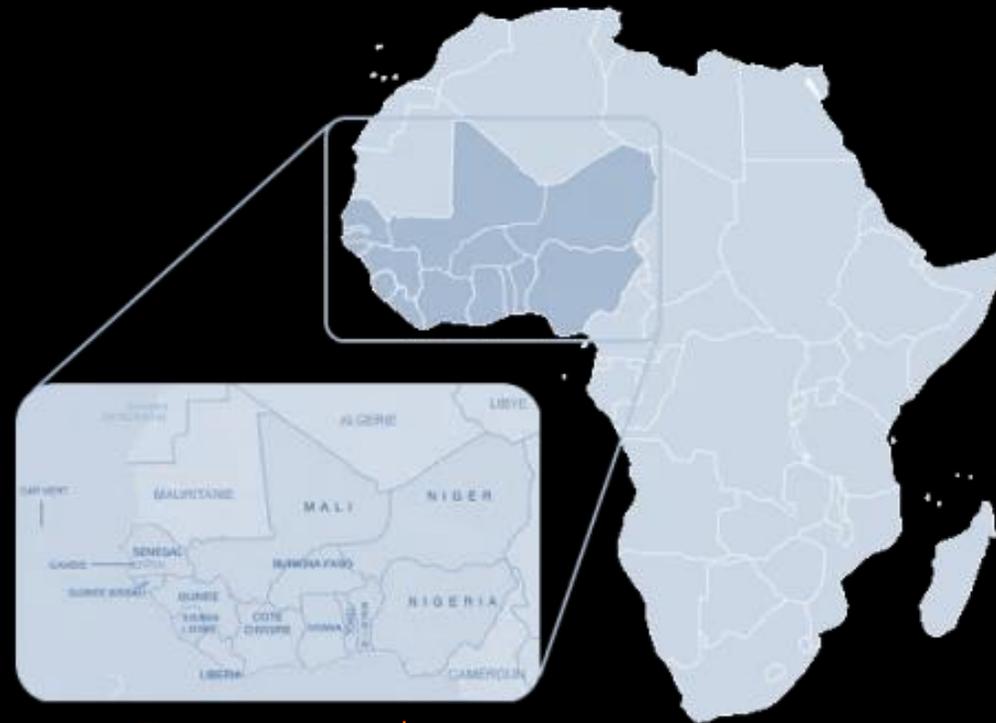
*Close collaboration with **EcoHealth Alliance**, and Extensive peer review (WHO, PAHO, FAO, OIE, UNISDR, CBD, UNEP, U.S. CDC, USAID, WRI, and OSU)*



Landscape of One Health Tools (examples)

# REDISSE: Regional Disease Surveillance Systems Enhancement

The program is structured to contribute to four of the key action packages: **i)** surveillance and reporting; **ii)** laboratory capacity; **iii)** health workforce; and **iv)** epidemic preparedness and response



Ecowas region



George Lueddeke, PhD  
Chair, One Health Education Task Force

## **IV. Brief Discussions / Summary**

## **V. Any Follow-up meetings needed?**

Thank You for participating in this  
'Synergizing One Health Collaborations' Discussion

Please join us again next week, Wednesday, October 24, if you can.

