



# One Health in Practice

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# One Health

The collaborative effort of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals and our environment.



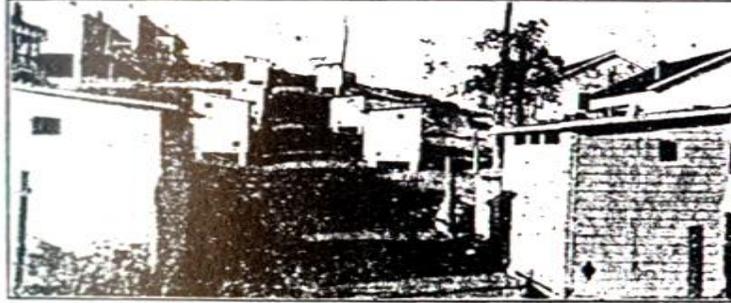
# *The Hippocratic Oath*

I swear by Apollo Physician and Asclepius and Hygeia and Panacea and all the gods and goddesses, making them my witness, that I will fulfill according to my ability and judgment this oath and this covenant



(To Be Tacked Inside of the Privy and NOT Torn Down.)

# Sanitary Privies Are Cheaper Than Coffins



For Health's Sake let's keep this Privy CLEAN. Bad privies (and no privies at all) are our greatest cause of Disease. Clean people or families will help us keep this place clean. It should be kept as clean as the house because it spreads more diseases.

*The User Must Keep  
It Clean Inside. Wash  
the Seat Occasionally*

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## *How to Keep a Safe Privy:*

- 1. Have the back perfectly screened against flies and animals.*
- 2. Have a hinged door over the seat and keep it CLOSED when not in use.*
- 3. Have a bucket beneath to catch the Excreta.*
- 4. VENTILATE THE VAULT.*
- 5. See that the privy is kept clean inside and out, or take the blame on yourself if some member of your family dies of Typhoid Fever.*

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## Some of the Diseases Spread by Filthy Privies:

Typhoid Fever, Bowel Troubles of Children, Dysenteries, Hookworms, Cholera, some Tuberculosis.

The Flies that You See in the Privy Will Soon Be in the Dining Room.

# Walker County Board of Health

# *The Veterinary Oath*

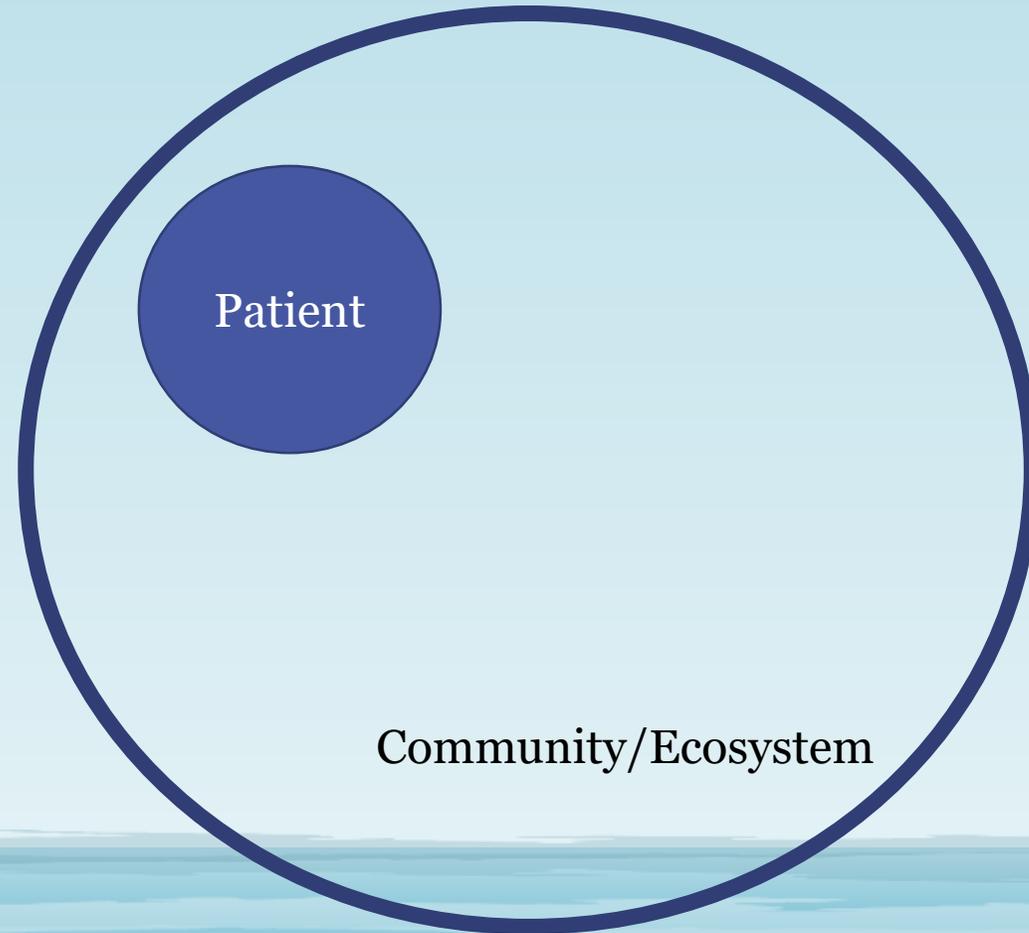
I solemnly swear to use my scientific knowledge and skills for the benefit of society through the protection of animal health, the relief of animal suffering, the conservation of animal resources, **the promotion of public health**, and the advancement of medical knowledge.



# *PEOPLE/ANIMALS/ENVIRONMENT*

How expansive is your circle?

Decisions for one, a few, or for many?



# One Health Practitioner

- Prevent and treat disease
- Educate
  
- Participate in policy decisions
- Reduce hazards for high risk people
- *Identify sentinel animal abuse*
- *Mental health collaborator*

**IF IT DOESN'T CHALLENGE YOU,  
IT DOESN'T CHANGE YOU**

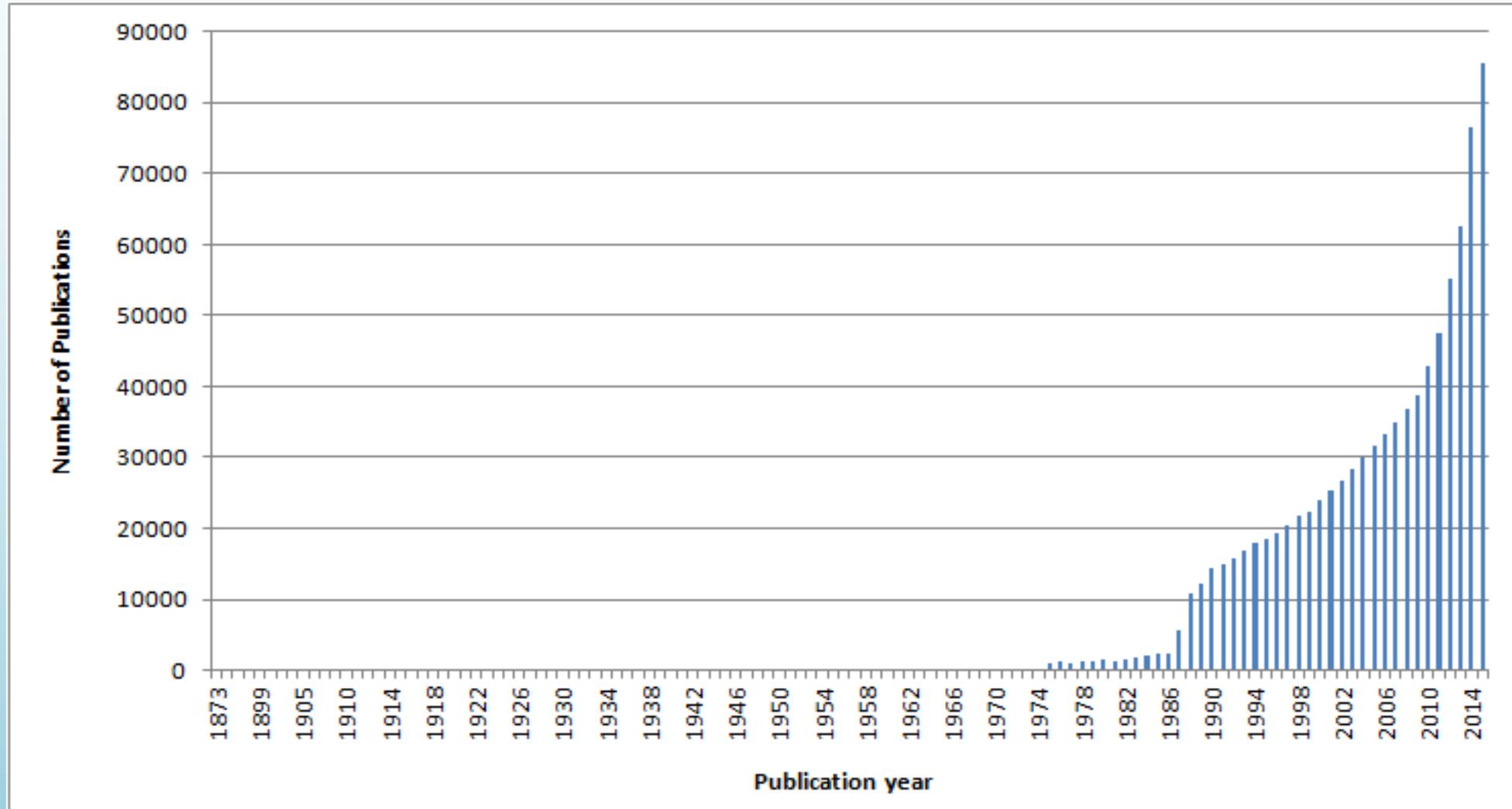
# Environmental Health

- 1. Food and Water Safety**
- 2. Zoonoses and Vectorborne Disease Prevention and Control**
- 3. Safe and Healthy Places**

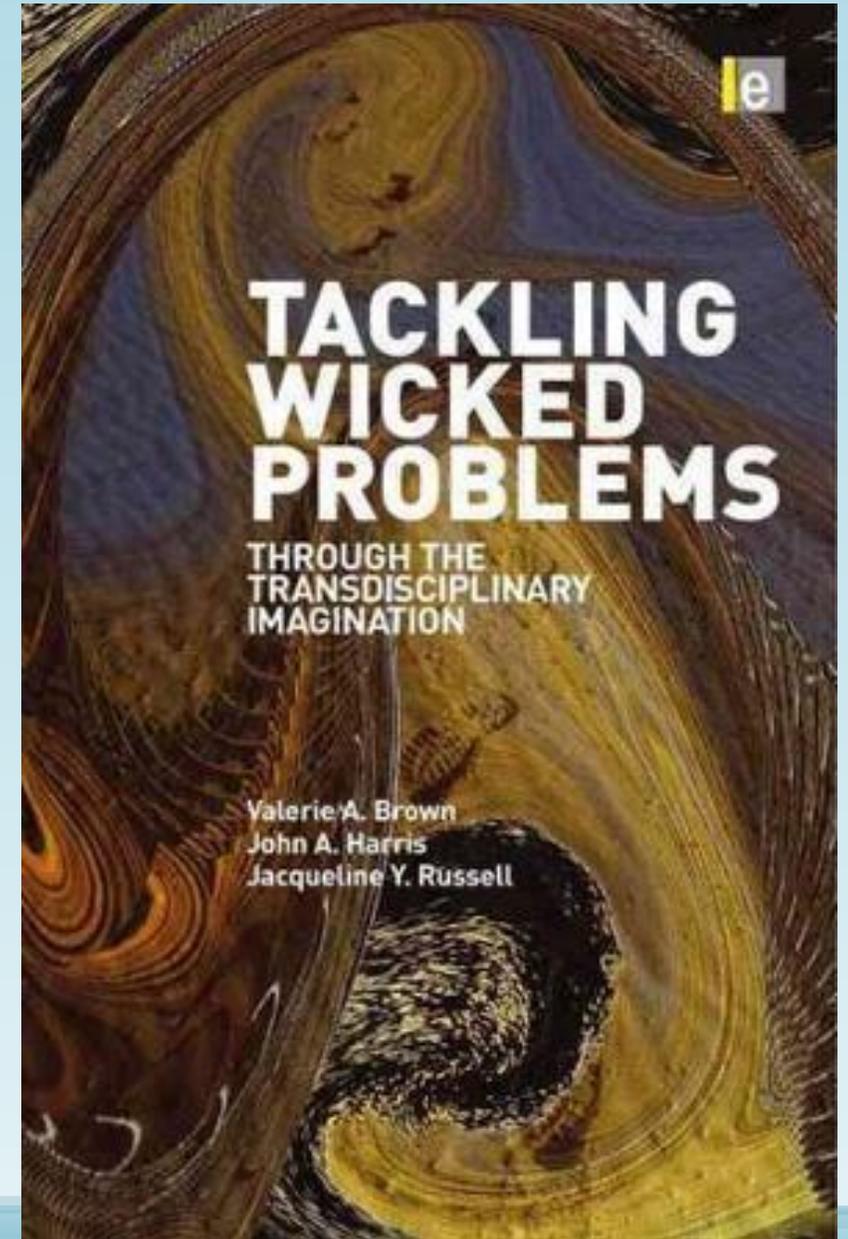


Microbes, chemicals, radiation and other hazards

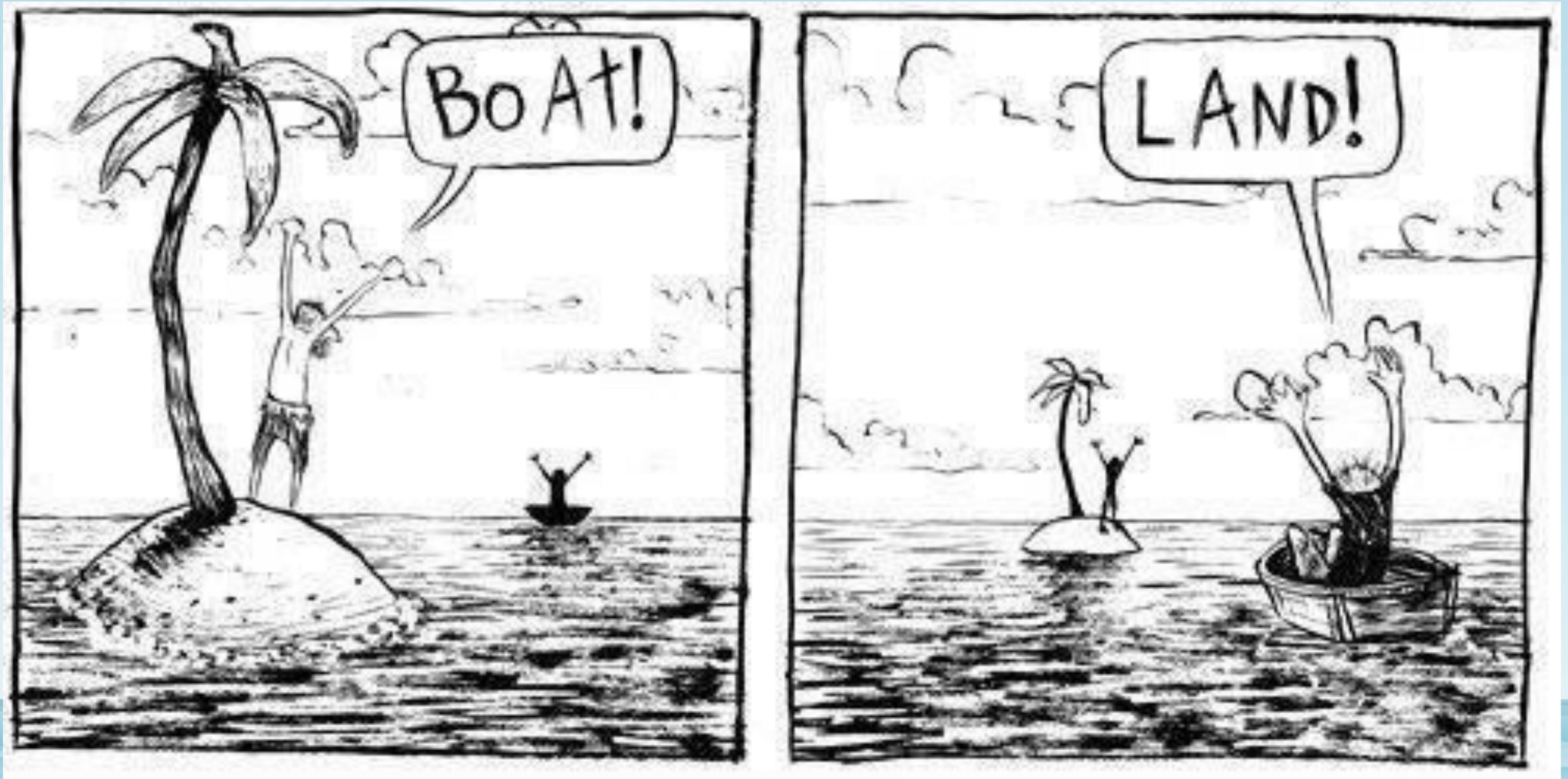
# Number of papers published per year identified with the search terms “one health” or “one medicine” in Pubmed (1873-2015)



# Why One Health?



# Perspectives



# Collaboration

No one—not rock stars,  
not professional  
athletes, not software  
billionaires, and not  
even geniuses—ever makes  
it alone.

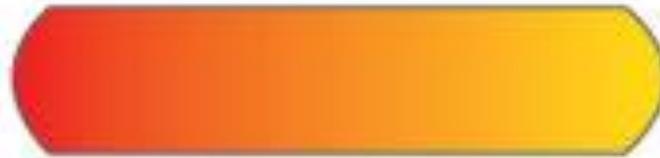
*Malcolm Gladwell*



## Problem Difficulty

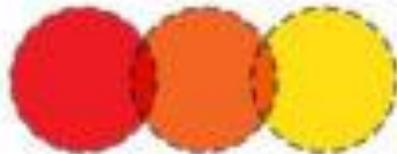
## Research Approaches

Complex



Transdisciplinary

Complicated



Interdisciplinary



Multidisciplinary

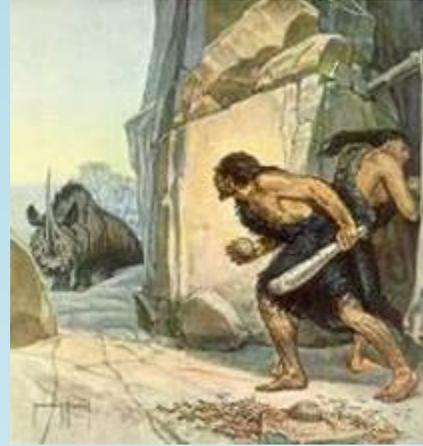
Simple



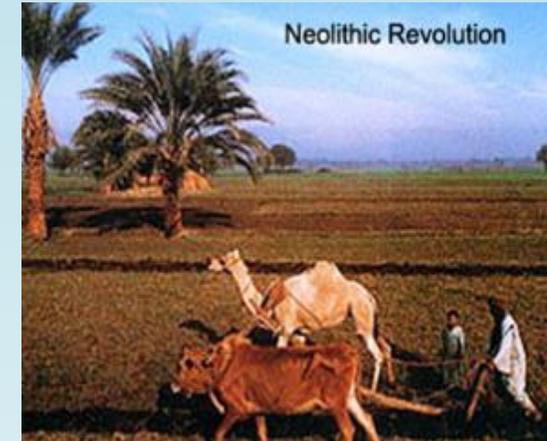
Disciplinary

# A Brief History of Shared Experiences

- Paleolithic society  
Hunting



- Neolithic Society  
+ Farming, transportation, protection



- Modern Society  
+ Companionship, sport, research



# The Human-Animal Connection

- 57% US homes have pets<sup>1</sup>
- More households with pets than children (46%)<sup>2</sup>
- 93% of pet owners would risk their life for their pet<sup>3</sup>
- 50% of pet owners would choose their pet as their single companion if stranded on a deserted island<sup>3</sup>

1. AVMA Market Research Statistics; 2007

2. US Census

3. Amer Animal Hosp Assoc "Pet Owner Survey"; 2004







HELP PROTECT OUR FOOD SUPPLY AND NATURAL RESOURCES

**When you travel...**  
**Don't pack a pest**

**Declare  
agricultural  
items**



U.S. Customs and  
Border Protection



Florida Department of  
Agriculture and Consumer Services

[www.dontpackapest.com](http://www.dontpackapest.com)



# Giant African Land Snails (*GALS*)

## *Lissachatina fulica*





Listed as one of the top 100 invasive species in the world

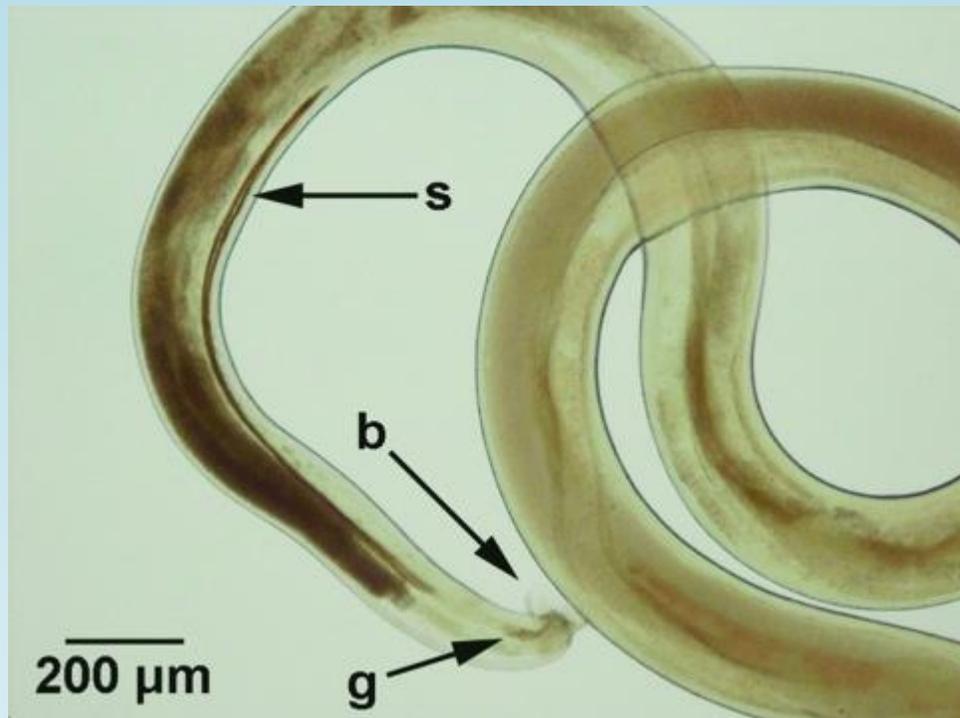
- **Major landscape/agricultural pest**
- **Eats stucco**
- **Reproduces rapidly**
- **No natural enemies**





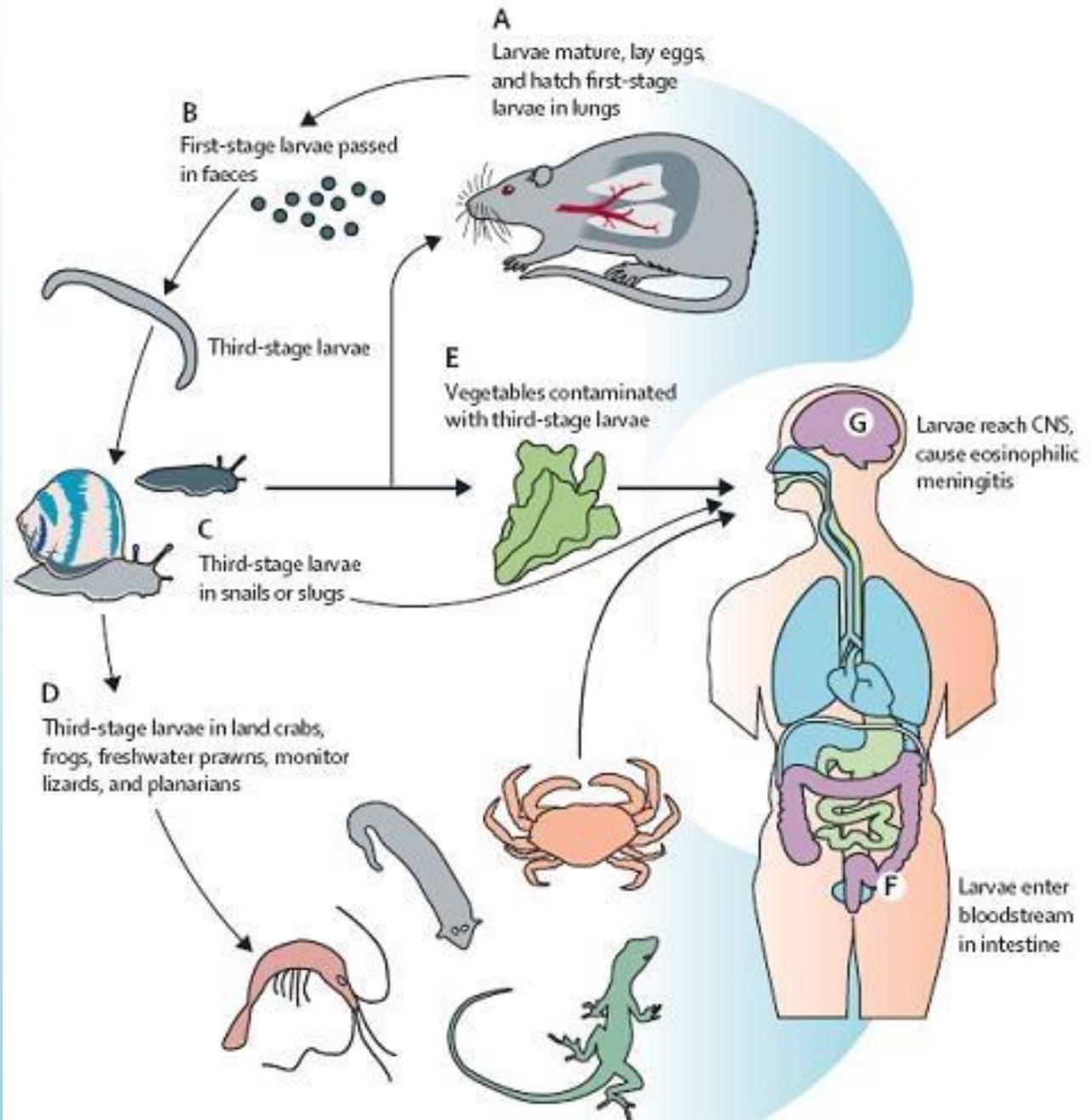






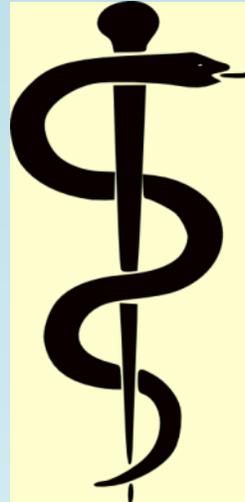
# Rat Lungworm

*Angiostrongylus cantonensis*





# Collaborators

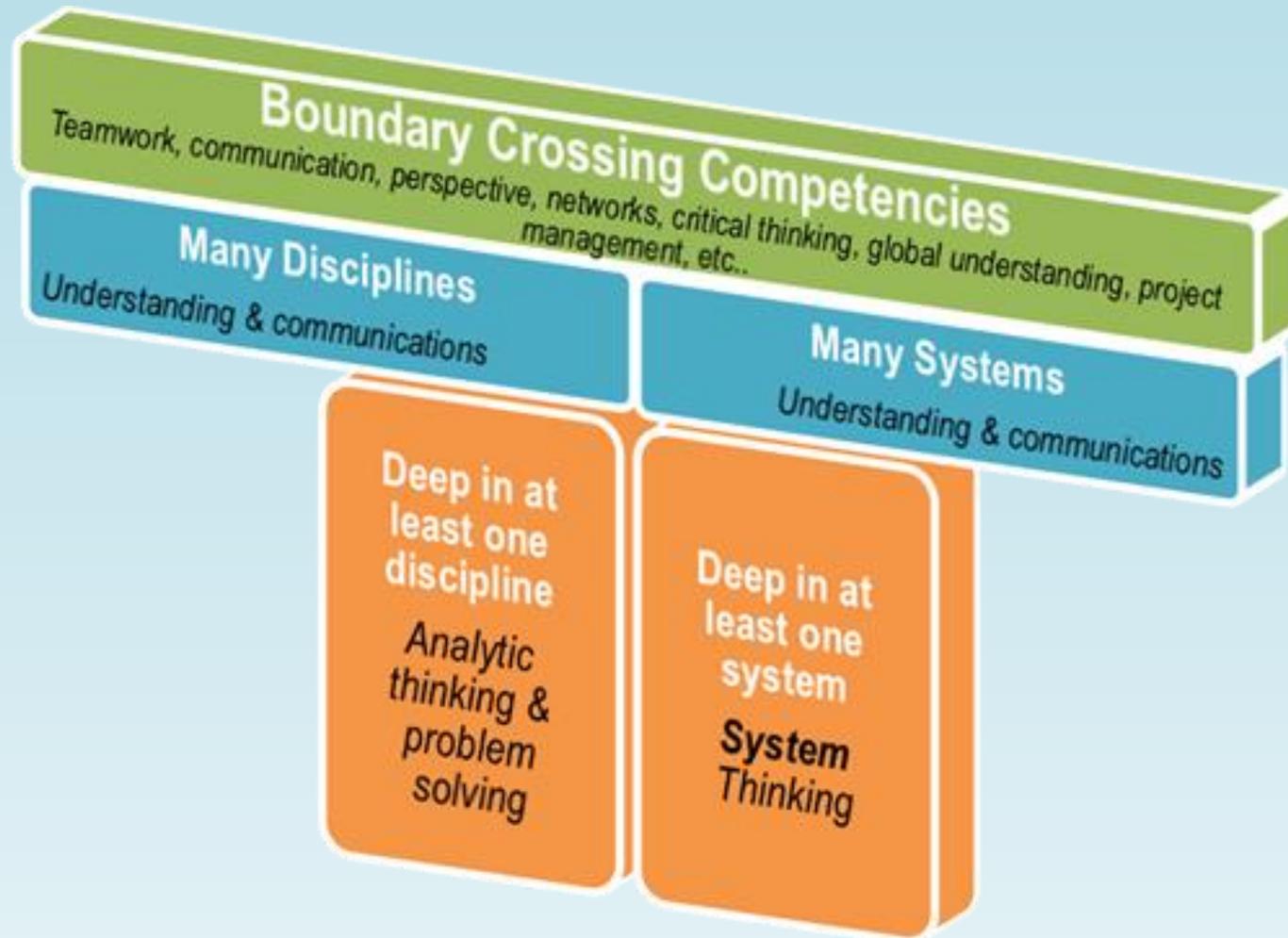


**FLORIDA GALS SCIENCE SYMPOSIUM**



Acquire latest scientific information to ensure successful and timely eradication of GALS

# T-Shaped Transformation



# TAKE HOME MESSAGES



- One Health approach increasingly important as:
  - population increases
  - our agriculture intensifies
  - habitat destruction worsens
- 21<sup>st</sup> century demands we reassess our institutions, priorities, and policies.
- One Health approach considerations:
  - Education Logistics
  - Infrastructure – who's in charge/leadership
  - Funding/resources

# Opportunities for One Health





<http://www.onehealthinitiative.com/>

# Thank you!

