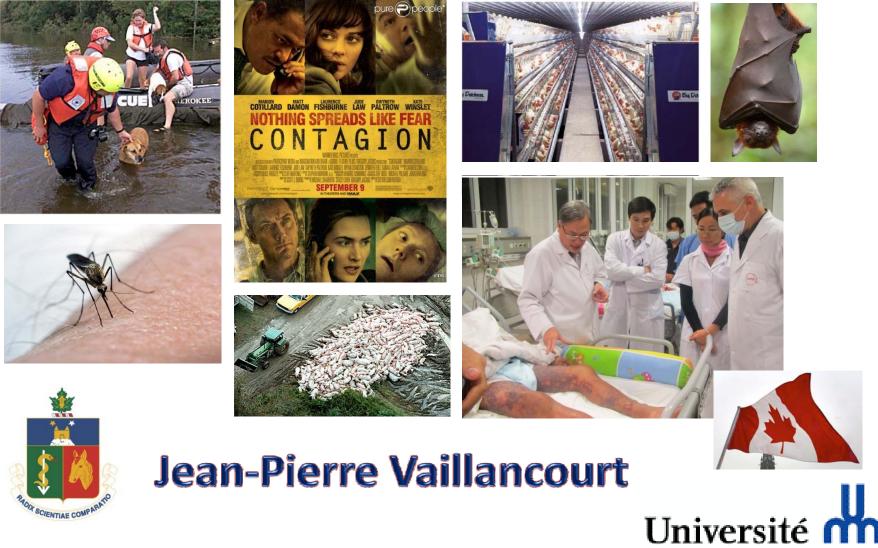
# Facing Today's World: Is "One Health" the Solution or Just a Virtuous Concept?



de Montréal

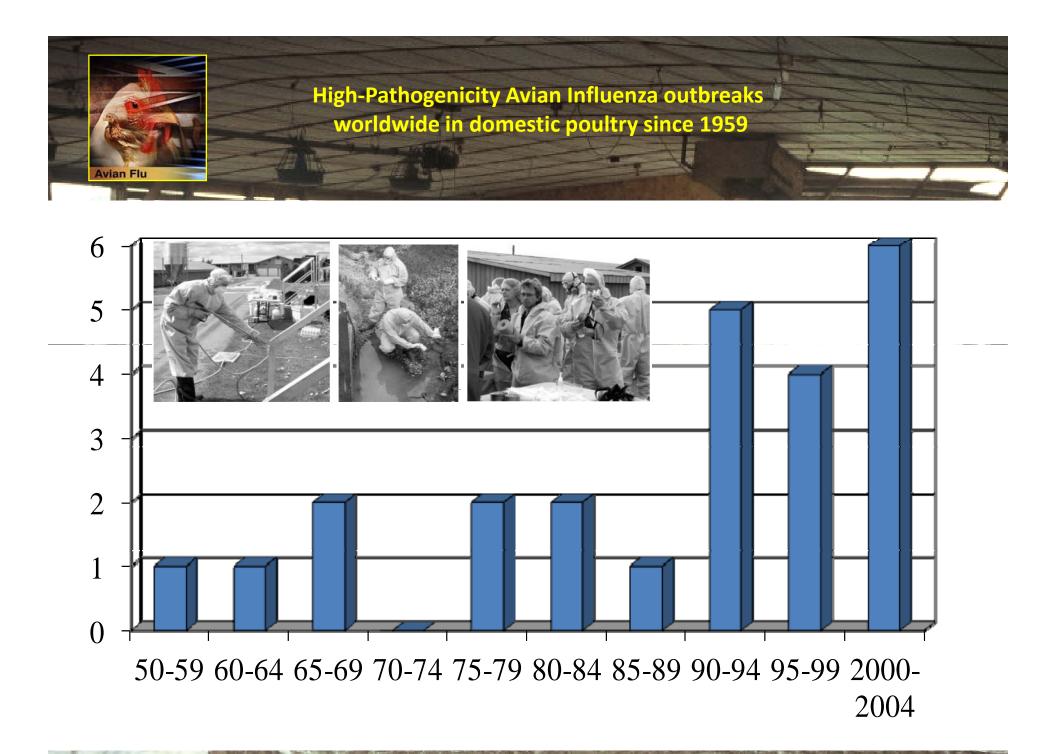


Poultry diseases forecasted for 2028 (adapted from Barnes and Vaillancourt, 2003)

### **Issues between now and in 2028**

- $\checkmark$  Emerging and reemerging diseases
- ✓ Well-known classical diseases in unusual situations
- Production diseases
- ✓ Polymicrobial diseases
- $\checkmark$  Diseases that 'jump' from another species
- ✓ Foodborne illness and other zoonotic diseases
- ✓ 'Political' diseases





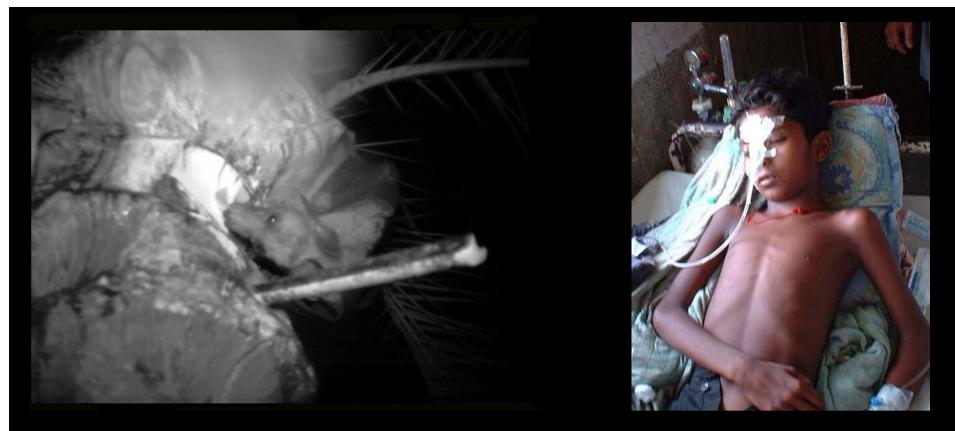
#### United States Animal Health Association annual meeting - October 2007

**H2N3** 



- ✓ Avian origin
- ✓ Pneumonia, mortality
- ✓ 2 Missouri swine farms 10 km apart
- ✓ Epidemiological link: ponds as water source
- Cause diseases in other mammalians
- $\checkmark$  <u>H2</u>N2 influenza associated with 1957 human pandemic
- ✓ Found later in 2 commercial poultry farms

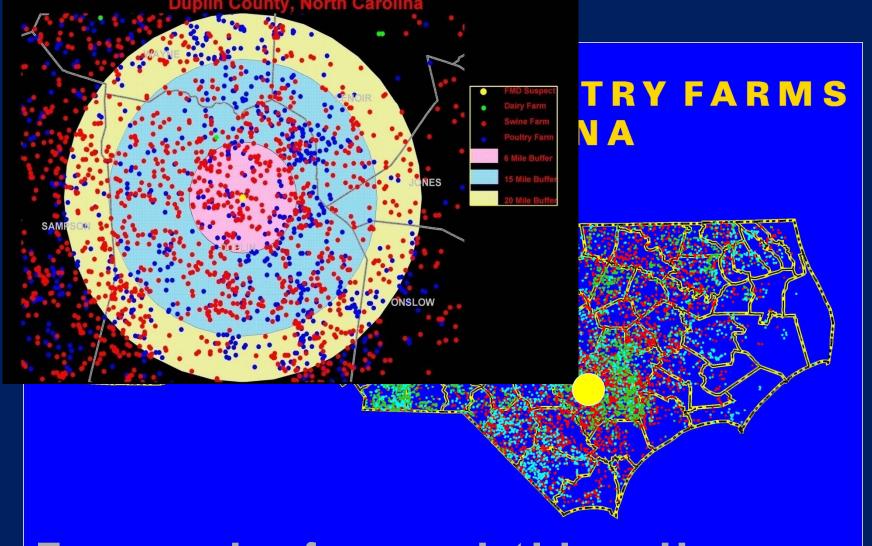




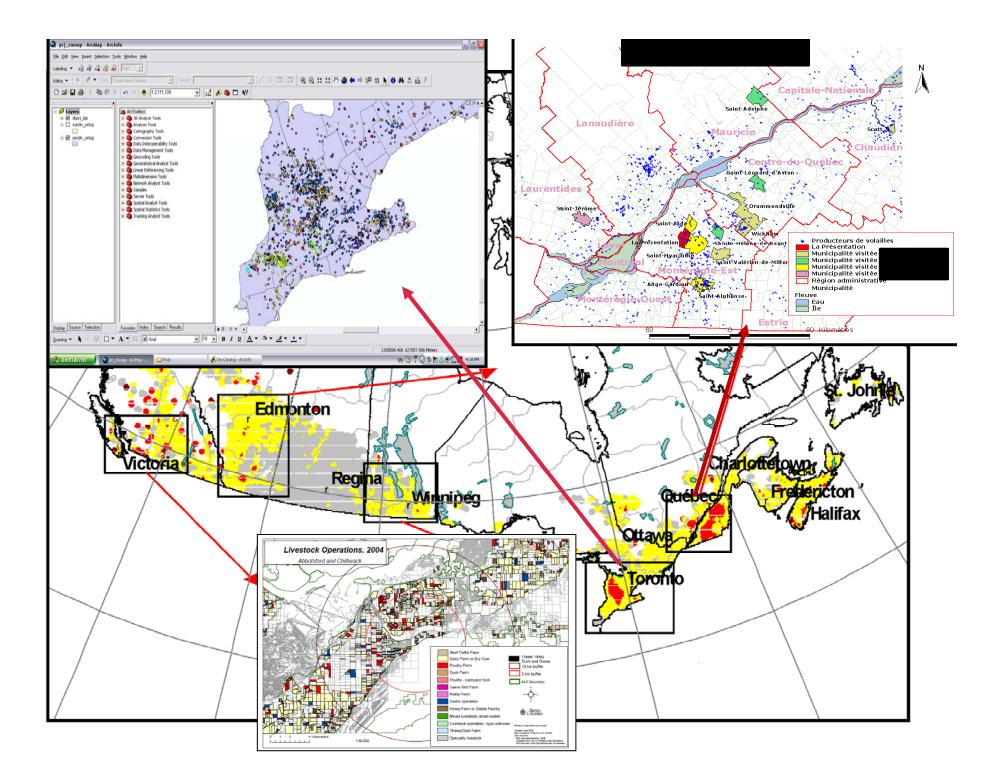


# NIPAH VIRUS





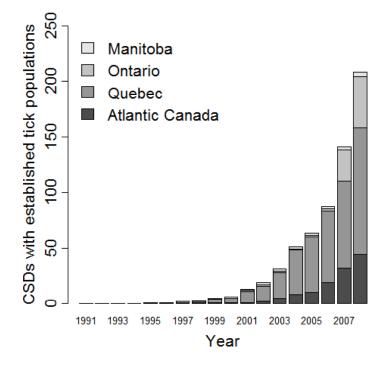
### Too-much-of-a-good-thing-diseases

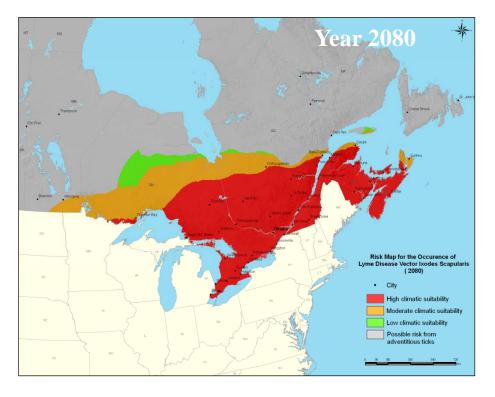










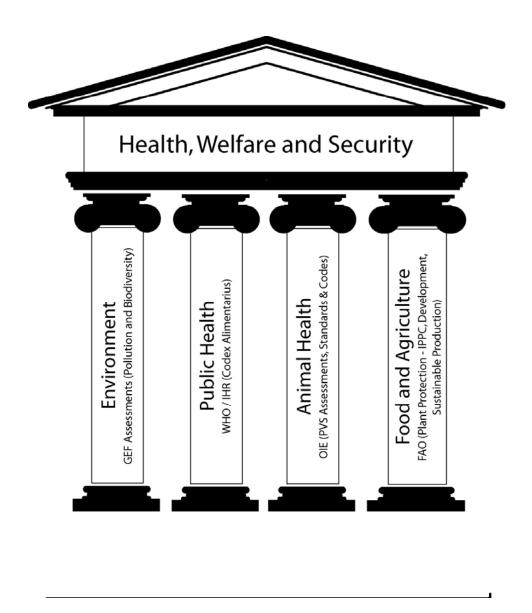




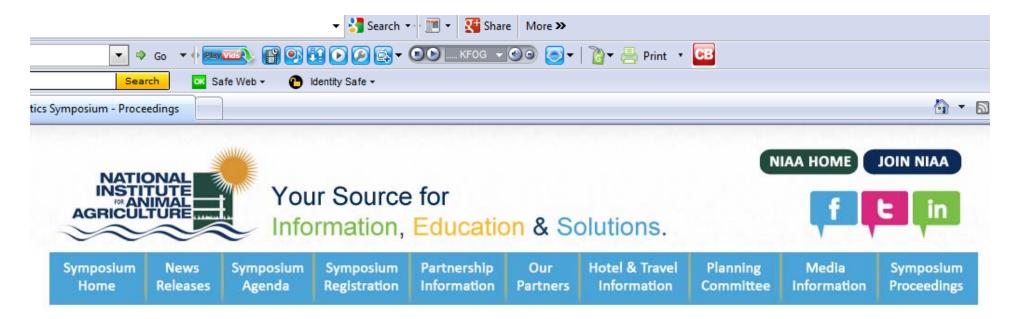
 Low risk
Risk of birdborne ticks

Ogden et al., Int J Health Geogr 2008

Leighton et al., J App Ecol 2012



"Implementing One Health" Craig Stephen DVM PhD



#### A One Health Approach to Antimicrobial Use & Resistance: A Dialogue for a Common Purpose

Animal Use? Human Use? Plant Use? Plant

Nov. 13-15, 2012 📕 Hilton Polaris Hotel, Columbus, Ohio

**Our Partners** 

#### Symposium Proceedings

Thank You to our Partners

## **One Health**

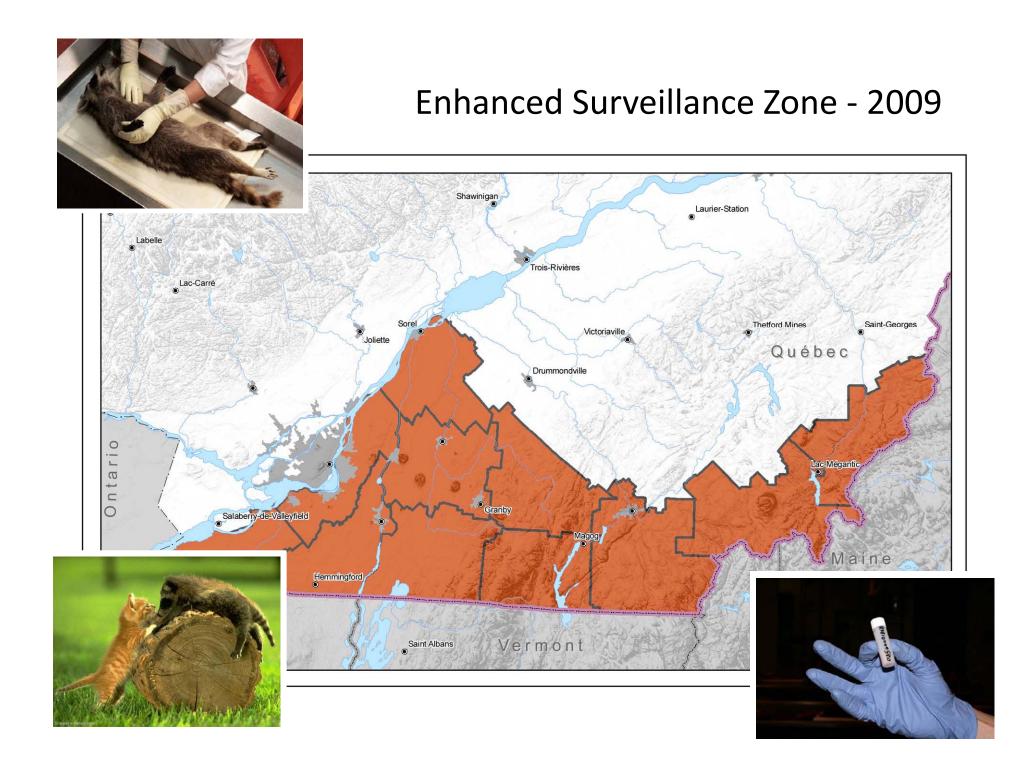
Our necessity encourages

Humans eco-systems and animals living together harmoniously



By Dr. Brian Evans, Chief Veterinary Officer/ Chief Food Safety Officer for Canada, CFIA, 2011

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Canadian Food Inspection Agency www.inspection.gc.ca		
FrançaisHomeContact UsHelpSearchcanada.gc.caHome > Animals > CVO Statements > One Health		
One Health is about managing problems at the interface between eco-system health, animal health and human health.		
Food Animals Aquatic Animals Biohazard Containment and Safety Feeds Terrestrial Animals	an opportune time to ruminate on how the profession respon- and into the future. It is perhaps serendipitous that 2011 also saw the formal dec of rinderpest. For most in North America, the achievement we radar, given that the disease was never introduced here. Kuc vigilance of veterinarians and the stewardship of the livestoc maintained Canada free of the disease.	claration of the eradication ould fall far below the dos are in order for the ck producers who
Terrestrial Animals Veterinary Biologics Plants Proactive Disclosure	As an interesting footnote, some of the first vaccines agains in Canada as part of a strategy to defend against the potent the virus in warfare to disrupt the nation's food supply. Canada never experienced the enormous impact of rinderpest the resulting human starvation that ravaged many countries dating back to the first reports in 367 BC.	tial deliberate deployment of t on animal production and





"Implementing One Health" Craig Stephen DVM PhD

### **Horizontal Management**

« Essentially, horizontality occurs when one or several managers, from one or several organizations, tackle an issue no longer exclusively from the perspective of their own specific position and responsibilities, but instead from a broader angle that seeks to include the interests, resources, and constraints of other participants involved in the same field.»

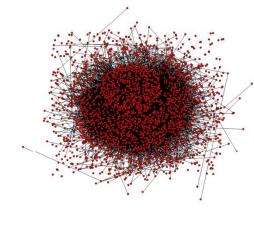
Bourgault, J., Lapierre, R. (2000)

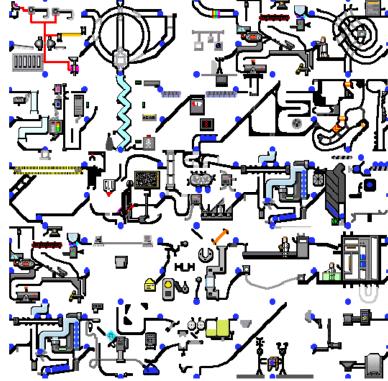
#### Leadership Without Ownership





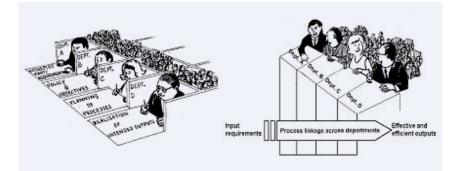
The future of health and of the health care system in Canada will depend on the capacity of current and future leaders to work in complex systems....



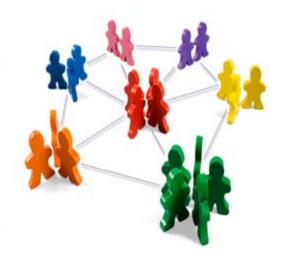


## **Horizontal Management**

- > Managing horizontally is managing differently
- The main issues to consider may be regrouped in three broad categories:
  - $\checkmark$  Legislative and strategic
  - ✓ Processes
  - ✓ People and organizations



Jacques Bourgault Séminaire en gestion publique, Moncton 2001.

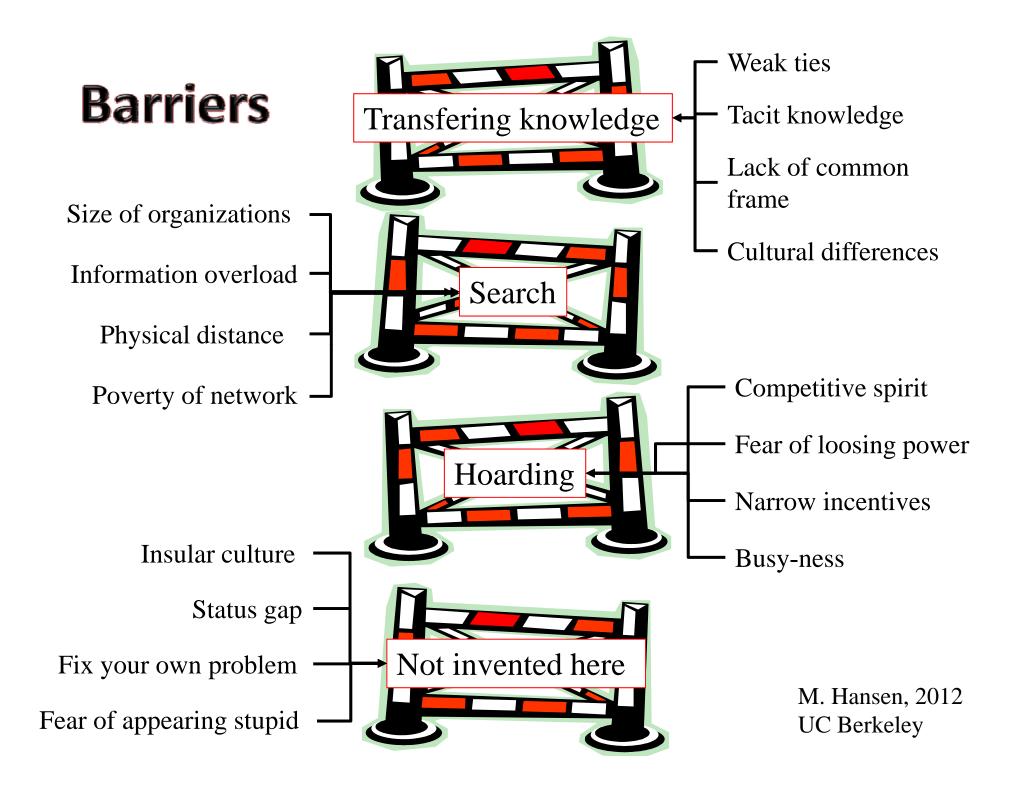


# Collaboration

✓ Evaluate opportunities for collaboration
✓ Spot barriers to collaboration
✓ Tailor collaboration solutions



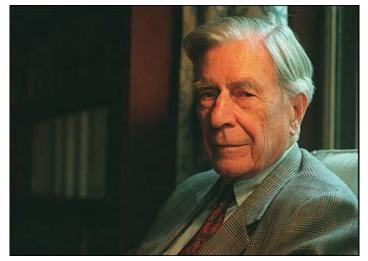
M. Hansen, 2012 UC Berkeley



"Faced with the choice between changing one's mind and proving that there is no need to do so, almost everyone gets busy on the proof."



~John Kenneth Galbraith



#### WE NEED TO DESIGN A COLLABORATIVE APPROACH WITH THE INHERRENT ABILITY TO CHANGE

# Any questions?



