



Canadian Food
Inspection Agency

Agence canadienne
d'inspection des aliments

Canadian Food Inspection Agency



Science and regulation...

working together for Canadians

**Beyond the Madness: An Integrated
Approach to Protecting Animal, Public
and Ecosystem Health in a Global Threat
Environment**

**June 19, 2007
San Antonio, Texas**

Canada

Presentation Overview

- **The New Global Reality**
- **The Evolution of International Standards**
- **Public Private Partnerships**

The New Global Reality

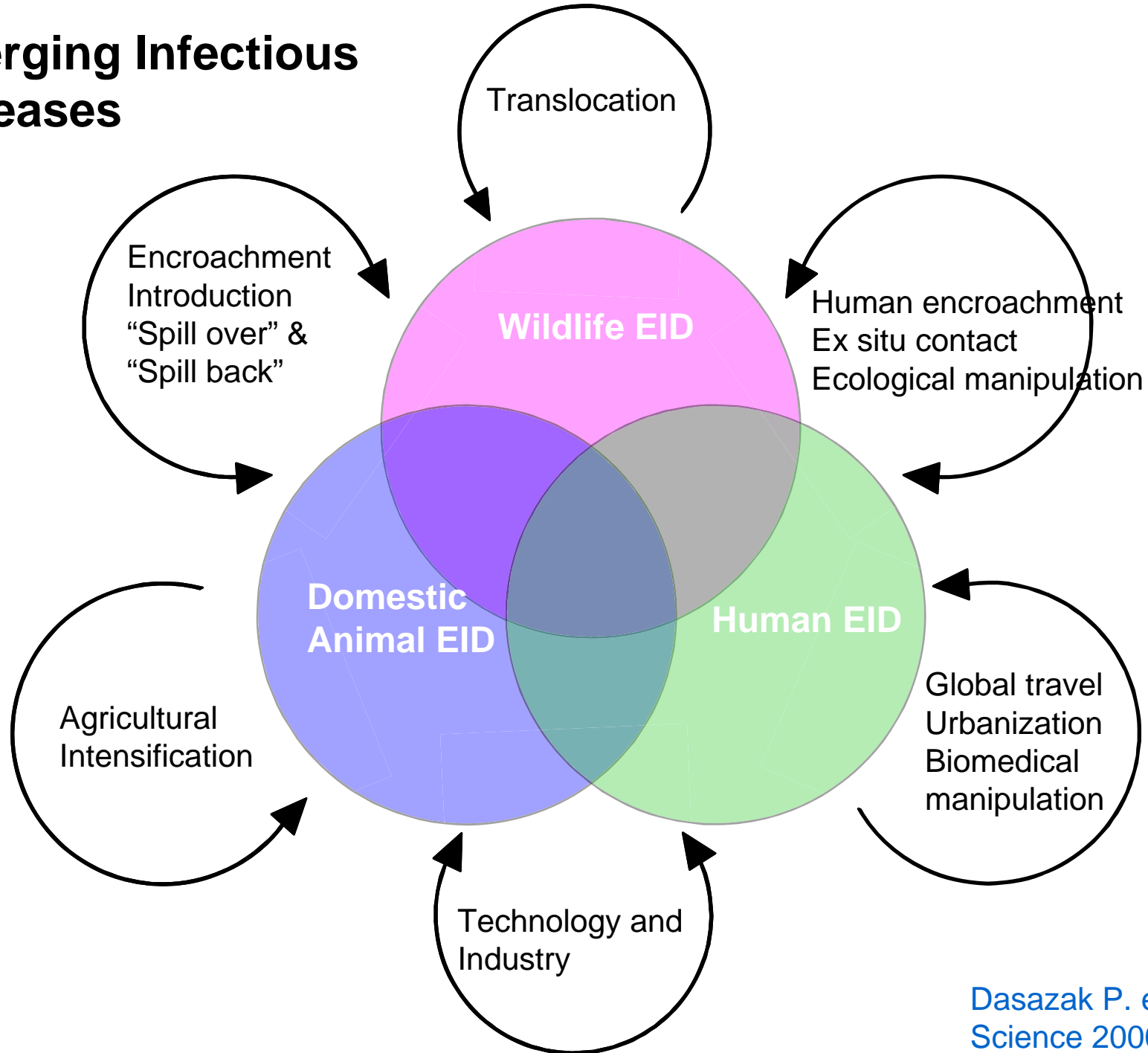
The convergence of a number of factors contribute to a dynamic threat to the international environment:

- epidemiological globalization
- climate change
- animal and human population demographics

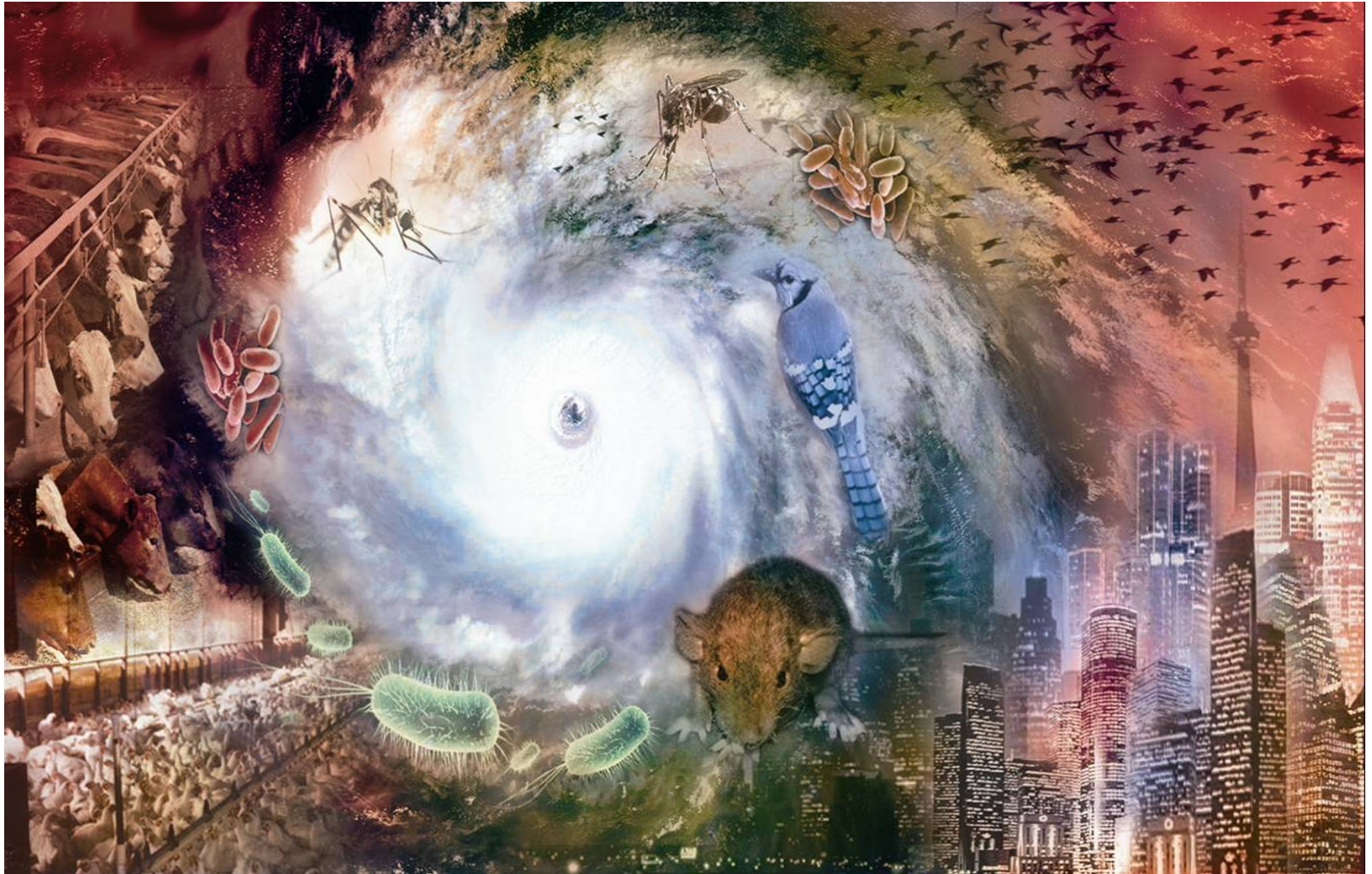
The New Global Reality

- changes in production and husbandry practices
- pathogen adaptation
- accidental, incidental and deliberate threats

Emerging Infectious Diseases



The Perfect Storm



The New Global Reality

Affects of New Global Reality:

- frequent emergence/re-emergence of animal diseases
 - social impacts
 - economic impacts

- consumer fears
 - food safety compromised
 - zoonotic diseases
 - drug resistance

The New Global Reality

- new and emerging technologies
- international community
 - change in societal values
 - change in perceptions and expectations
- science is not static
- success is dependent on trans-disciplinary approaches with a community of competencies and effective risk communication

The New Global Reality

- **A number of Sciences are a factor at borders:**
 - Biological science
 - Political science
 - Economic science

- **Legal challenges involving:**
 - Social science
 - Pseudo science

The Evolution of International Standards

- **Animal health and veterinary medicine as a global public good**
- **Protection of animal, public and eco-system health and facilitating safe trade**
- **Security and prosperity are not incompatible**

The Evolution of International Standards

- **Shift to recognition and reward for investments in surveillance, reporting and appropriate mitigation measures**

- **Fundamental change in disease reporting obligations**

- **Report based on epidemiological significance:**
 - first occurrence of disease in jurisdiction
 - reoccurrence of disease following declaration of eradication
 - first occurrence of new strain of pathogen
 - sudden or unexpected increase in the distribution, incidence, morbidity or mortality of an indigenous disease
 - zoonotic potential
 - change in species susceptibility

Public Private Partnerships

- **Bio-security at the production level**
- **Animal identification and traceability**
- **Sentinel practices for active surveillance and integration of data for real time modelling across wildlife, domestic animal and human population continuum**
- **Sectoral interdependence recognition**

Public Private Partnerships

➤ **Herd level certification programs**

- meet public confidence needs with respect to protection of animal, human and eco-system health

➤ **International standards development**

- inclusive involvement of public and private sector interests
- cohesion between international standard setting bodies (WHO/OIE/CODEX) and between national leads to the respective standard setting bodies

The Final Word

Science may determine what is safe, but society will decide what is acceptable