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Wildlife Services
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USDA/APHIS WILDLIFE SERVICES

National Wildlife Disease Program

WILDLIFE DISEASE SURVEILLANCE AND EMERGENCY RESPONSE SYSTEM

Safeguarding the health of animals, humans, and ecosystems

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Disease Surveillance & Management

Livestock vs. Wildlife

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APHIS Programs Work Together for National Animal Health

Wildlife Services

- **Wild Animals**
- **State Natural Resources & Agriculture Agencies**
- **Hunters**
- **Public Health Agencies**

Veterinary Services

- Domestic Animals
- State Agriculture Agencies
- Farmers and Ranchers

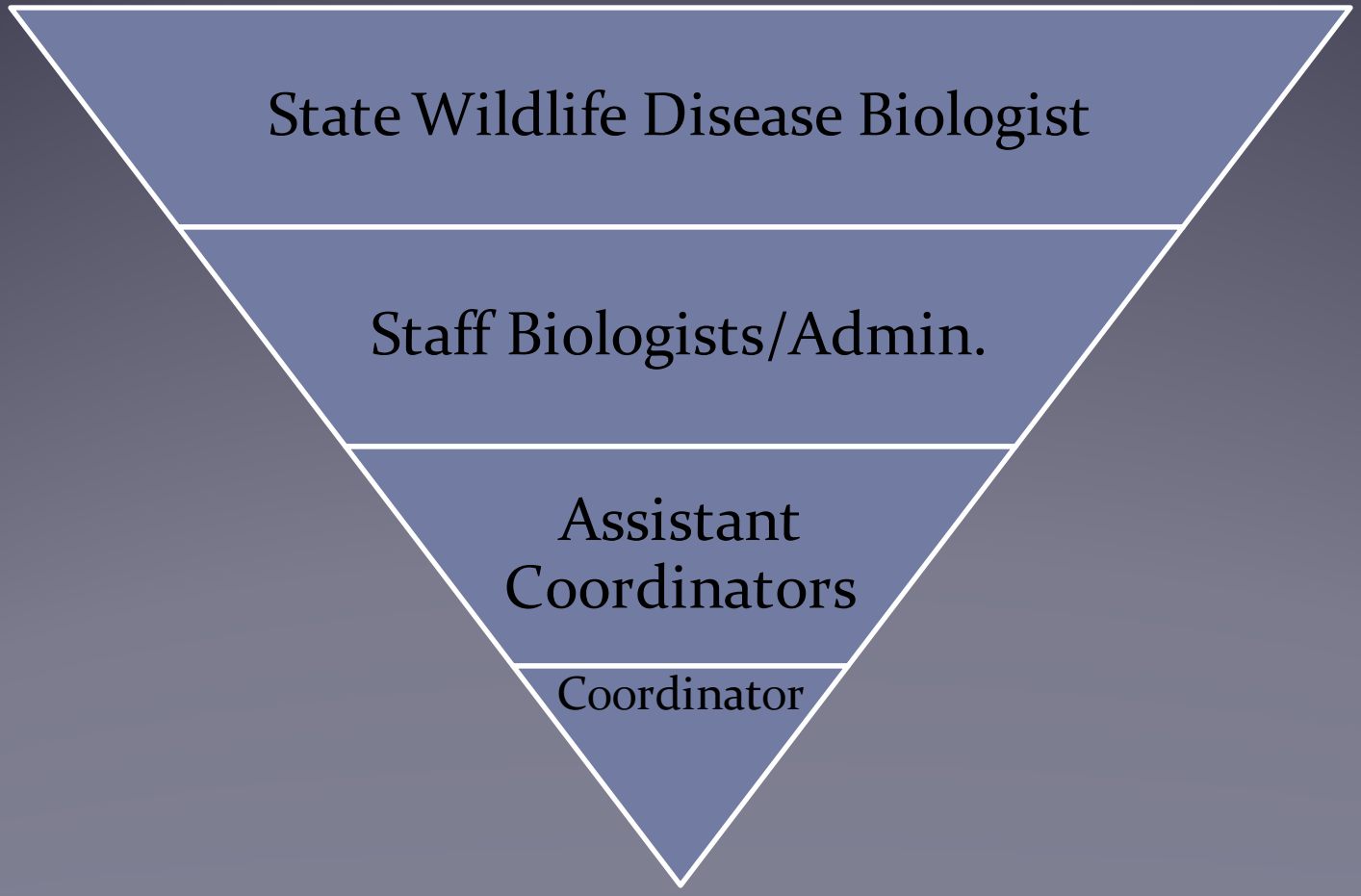
photo by Doug Wean

USDA/APHIS/WS
National Wildlife Disease Program

Goal

- To facilitate development and implementation of a nationally coordinated wildlife disease surveillance and emergency response system for the purpose of safeguarding
  - Wildlife populations
  - Agriculture
  - Human health and safety

USDA/APHIS/WS
National Wildlife Disease Program

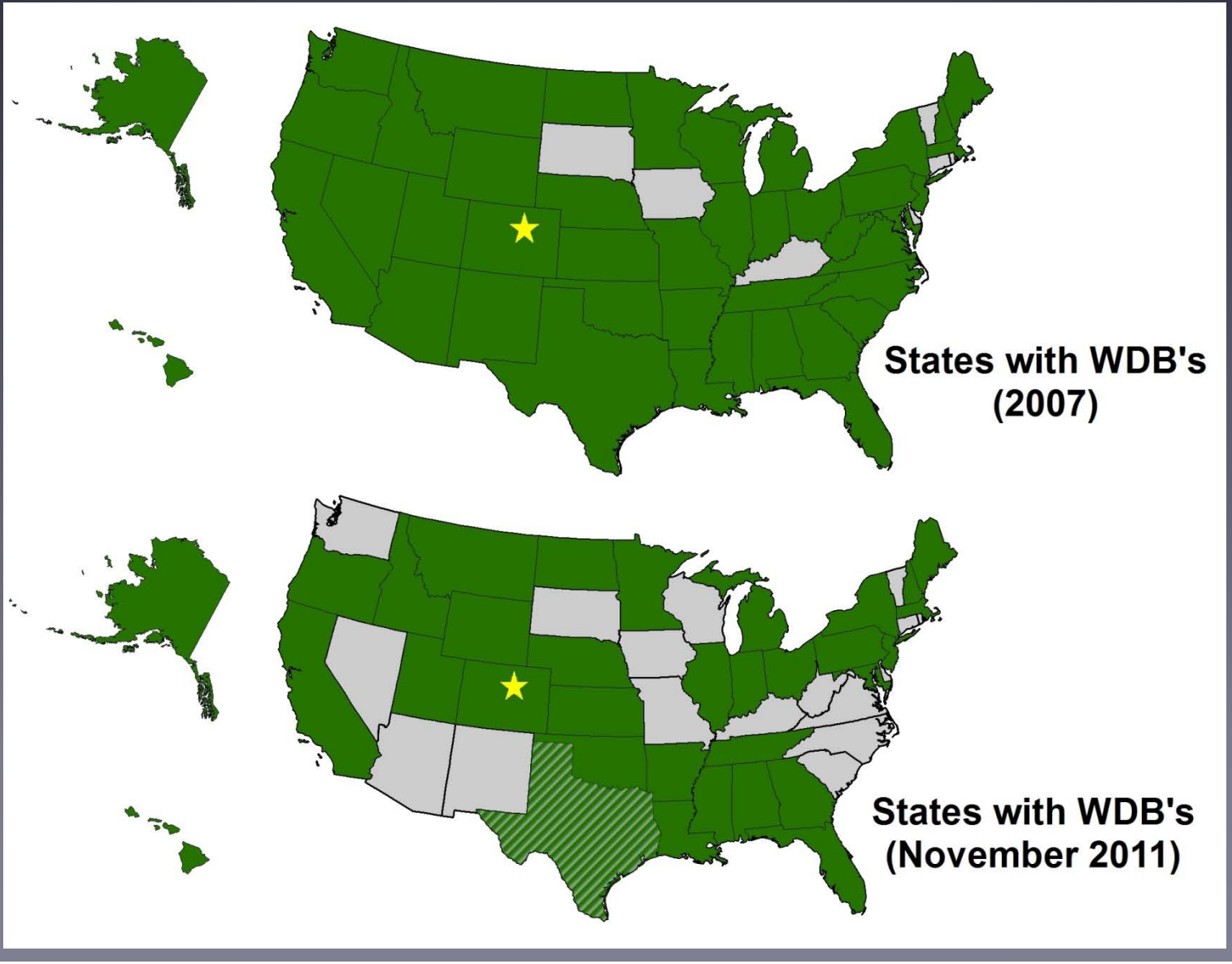


National Wildlife Disease Program

Wildlife Disease Biologist

- **Liaison with:**
  - **Veterinary Services**
  - **State Natural Resources, Agriculture, and Health**
  - **Other State, Tribal, and Federal agencies**
- **Assist these agencies in accomplishing disease surveillance and control objectives**
- **Conduct National level disease surveillance programs**
- **Respond to disease outbreaks and other emergencies**

Location of Wildlife Disease Biologists



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Surveillance and Monitoring Projects

Avian Influenza	CSF, ASF, FMD
vNDV	B. suis, PRV
Plague	PRRS, PCV-2
Tularemia	SIV
CWD	Hepatitis E
bTB	Trichinella
BT/EHD	Toxoplasmosis
JE/CHKU	E. Coli O157 h7
Leptospirosis	Avian Bornavirus

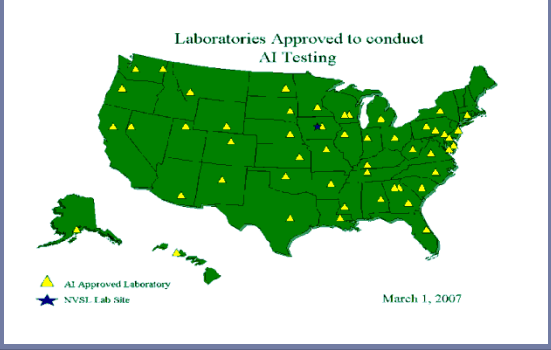
- Agricultural Concern
- Food Safety Concern
- Wildlife

- Zoonotic
- Emerging/FAD

Surveillance through Collaboration and Communication

Veterinary Services and National Animal Laboratory Health Network

- Allows for consistent standardized diagnostics
- Large scale sample analysis
- Reporting of results

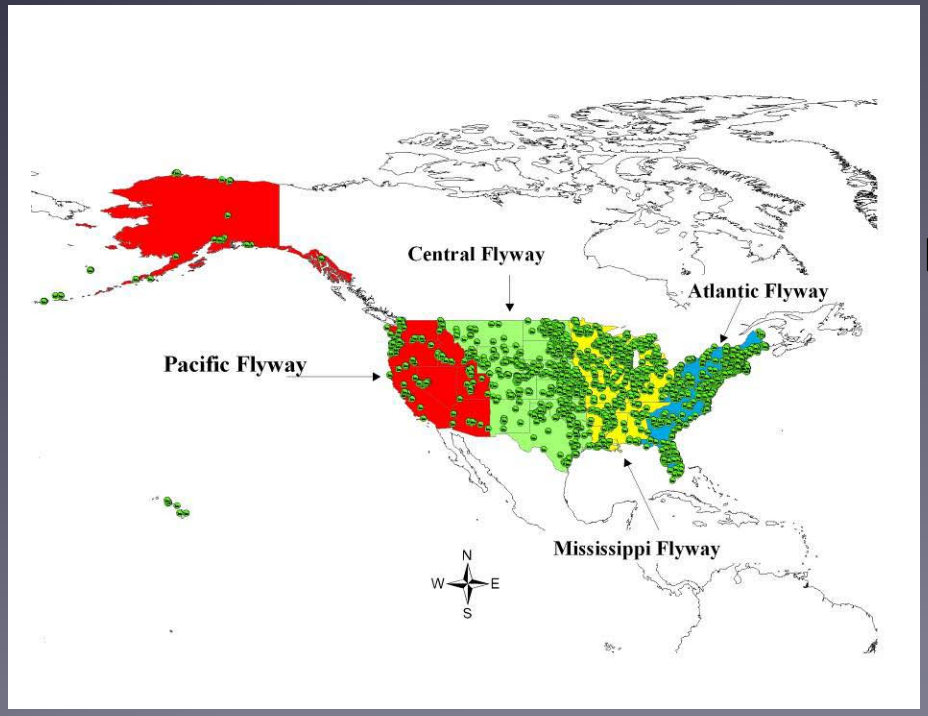


National Wildlife Health Center and Southeastern Cooperative Wildlife Disease Study

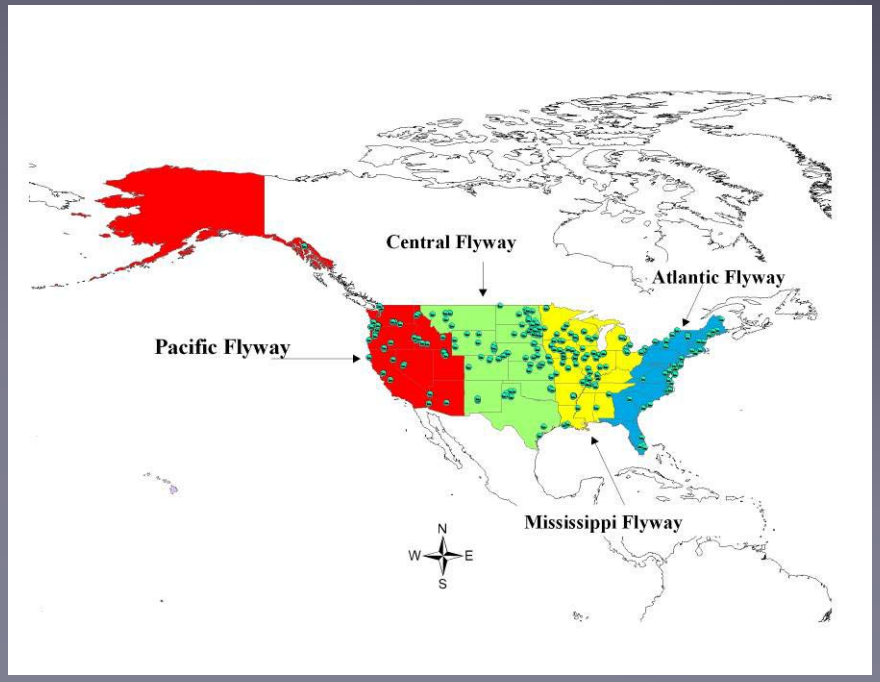
- Able to analyze mortalities of unknown origin with clinical pathology
- Expertise in identifying wildlife diseases
- Research

Avian Influenza Surveillance

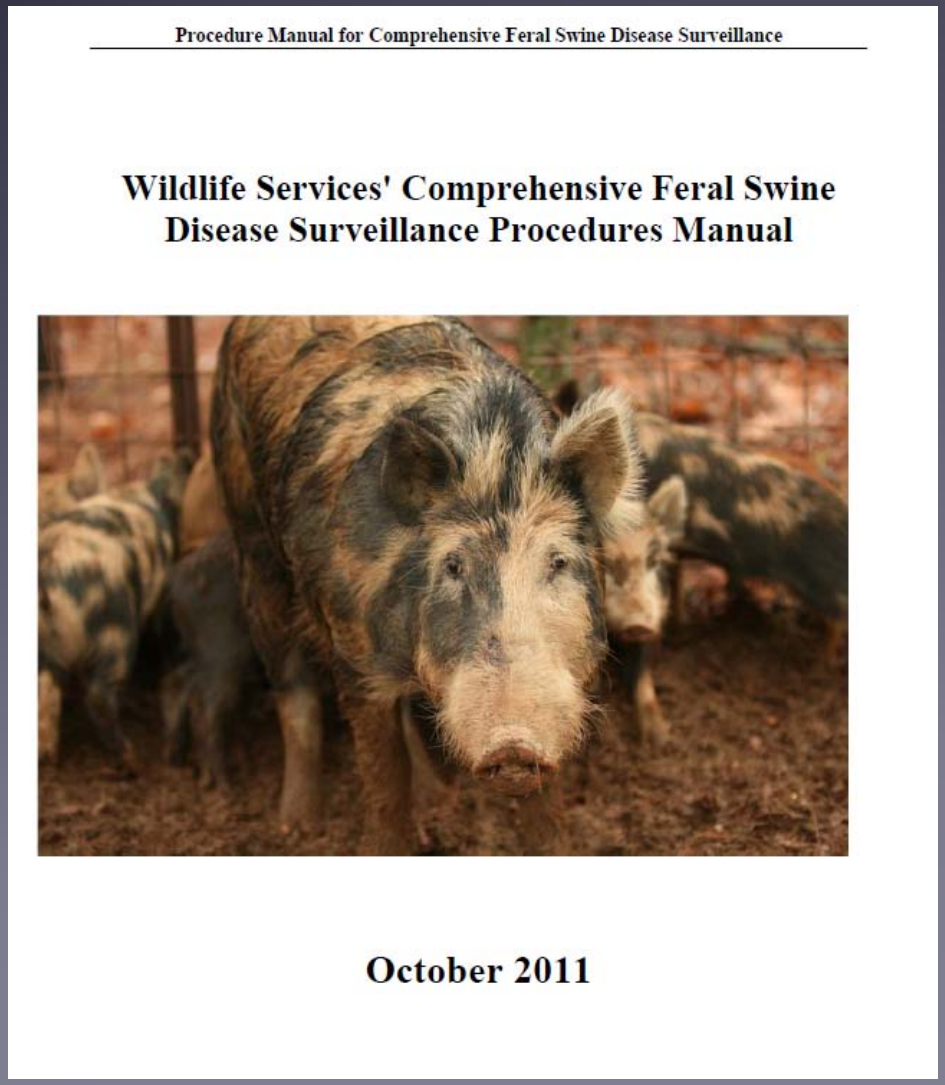
Locations where wild birds were sampled



Locations where H5+ birds were sampled



Feral Swine Disease Surveillance



- Classical Swine Fever
- Pseudorabies
- Brucellosis
- Porcine Reproductive & Respiratory Syndrome
- Swine Influenza
- Hepatitis E Virus
- Trichinella
- Toxoplasma
- Foot and Mouth Disease
- African Swine Fever
- Leptospirosis
- E. coli 0157 h7

Emergency Response

- Requires:
  - dedicated personnel and equipment
  - training
  - interagency communication and cooperation
  - Flexibility
  - Coordination

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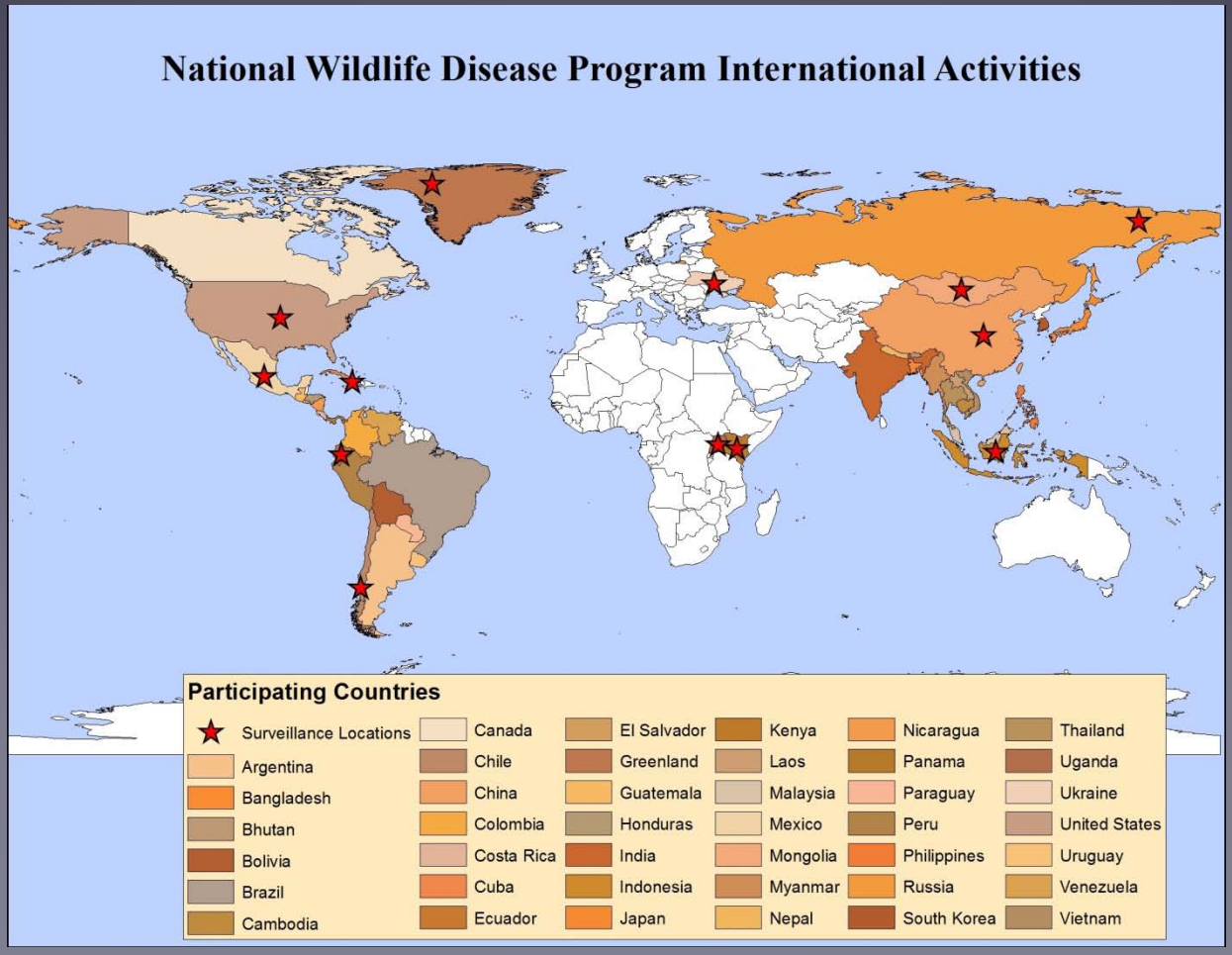
International Capacity Building

Information and Technology Exchange to Better Understand Wildlife Diseases Globally



Future Challenges

Being Prepared for the Next Disease de jour

- Foreign Animal Diseases
  - Foot and Mouth
  - African Swine fever
  - Classical Swine Fever
  - Influenza
  - Blue Tongue
- Domestic Diseases
  - Johne's
  - Plague and Tularemia
  - E. coli, Salmonella, Hep E
  - EHD/Blue Tongue

Future Challenges

Political

- Agency Turf
  - Within APHIS
  - State Agencies
- Budgets
  - Influenza
    - HPAI, H1N1
  - Tuberculosis
  - Comprehensive Feral Swine
    - CSF, PRV, SB, FMD, E. coli, Toxoplasma, Trichinela

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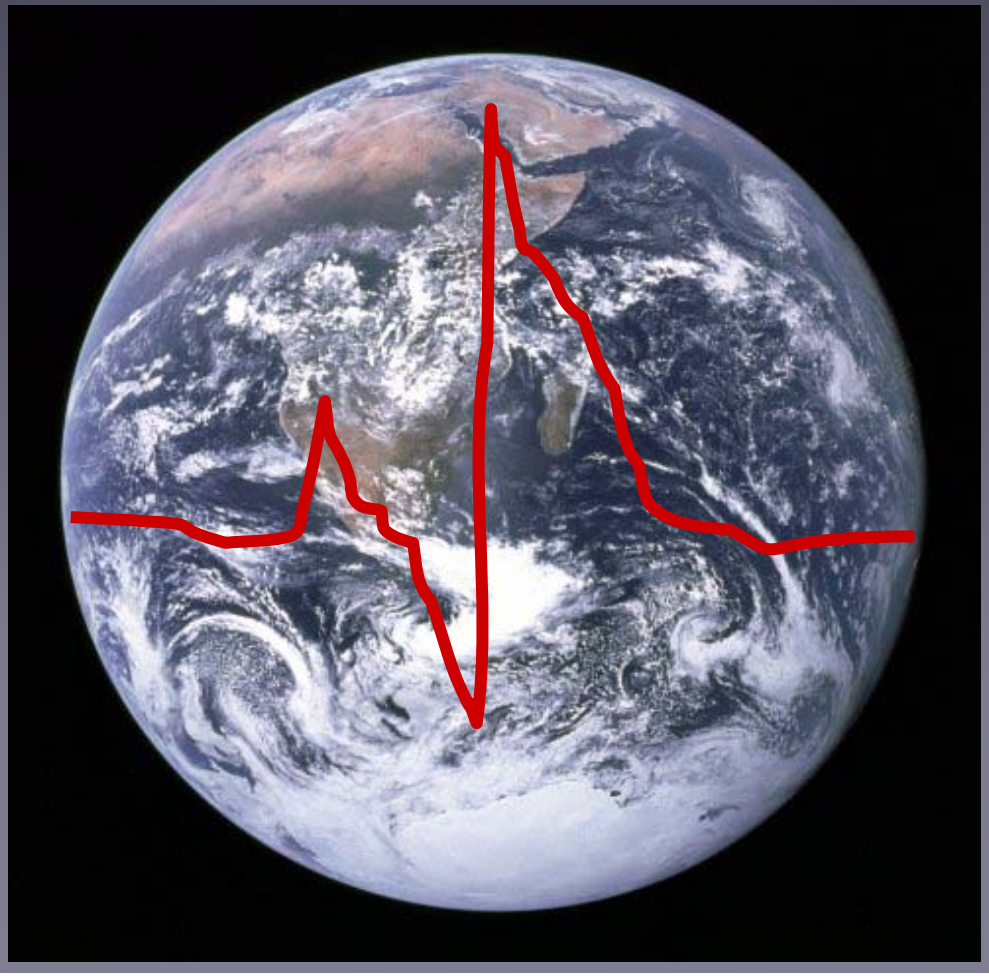
"One Health"

Merging Animal Health and Public Health



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Questions?