

# Biodiversity Mainstreaming for Health Security

#### Catherine Machalaba





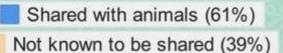


# **Human-Animal Health Links**

Most known human infectious diseases are shared with animals

EcoHealth Alliance

Rabies, Influenza A, Ebola, SARS, Q Fever, Toxoplasmosis, Salmonella, Brucellosis, Hendra, Echinococcosis, Anthrax, Tunanosomir, Nipah, Psittacos, Prumremir, Plague, Bas Congo, Monkeypox, Rift Valley, Leptospirosis, Schistosomiasis, Leishmaniasis, Chagas disease, Hantavirus, Japanese B encephalitis.....

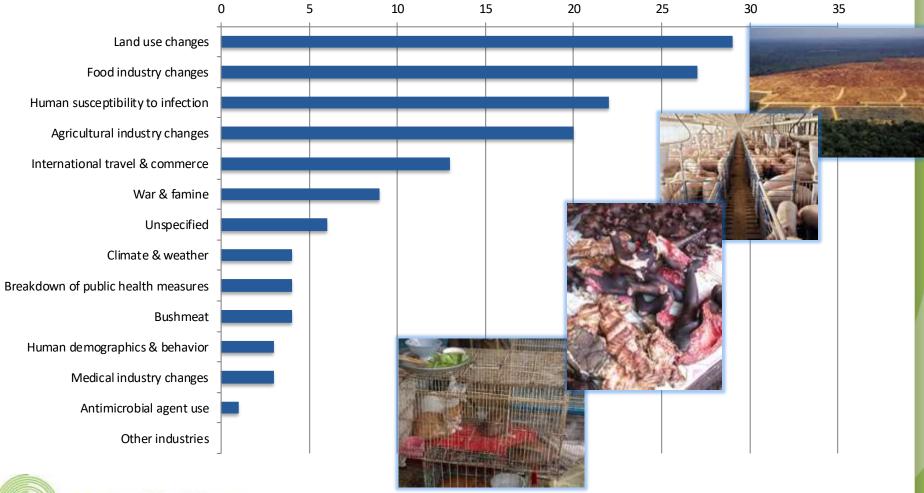


Resulting in over 1,000,000,000 human cases every year

Machalabaand Karesh, Huffington Post

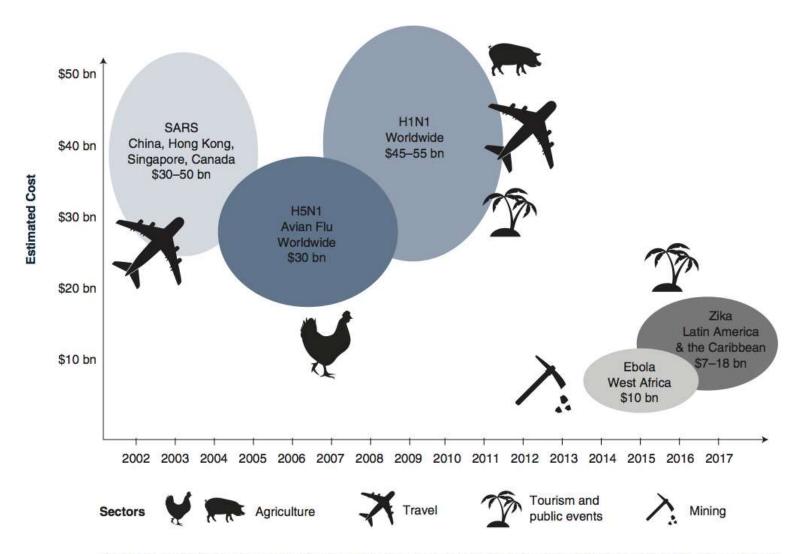


#### Shared Drivers: Biodiversity Loss and Recent EIDs from Wildlife



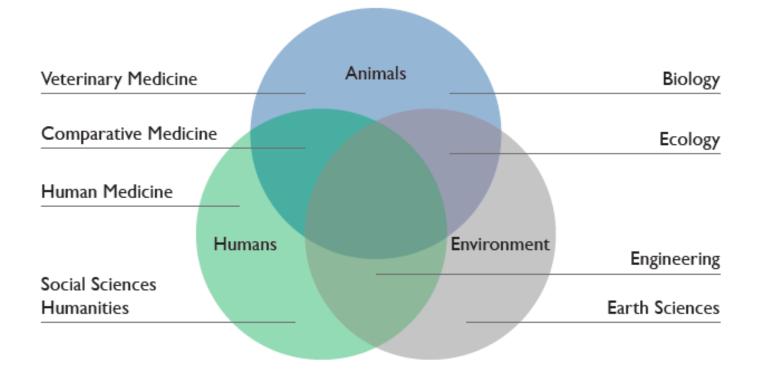


EcoHealth Alliance/Loh et al. VBZD, Jones et al. 2008 Nature

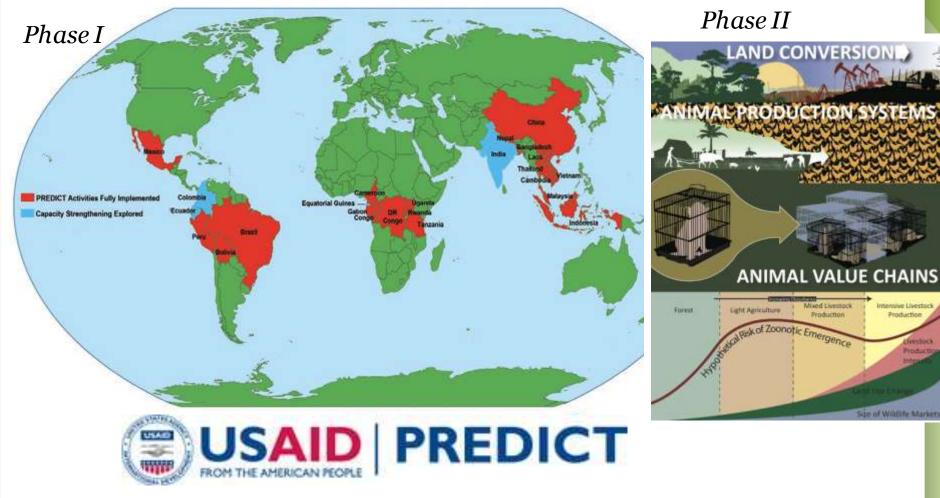


Figures are estimates and are presented as relative size. Based upon BioEra, World Bank, and UNDP data. Chart updated by EcoHealth Alliance.

# **One Health**



#### **PREDICT Countries**









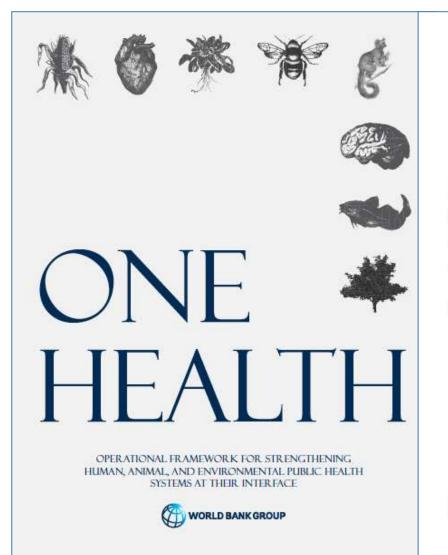


ntensive Livestock

Production

Size of Wildlife Markets

iveslock Product



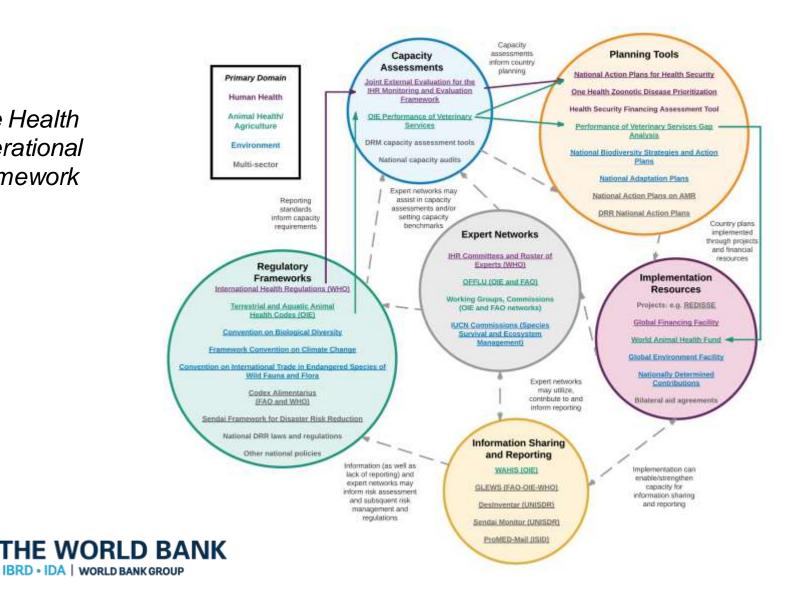
Operational Framework for Strengthening Human, Animal, and Environmental Public Health Systems at their Interface

http://documents.worldbank.org/curated/en/703711517234402168/Operational-framework-for-strengtheninghuman-animal-and-environmental-public-health-systems-at-their-interface

WORLD BANK GROUP

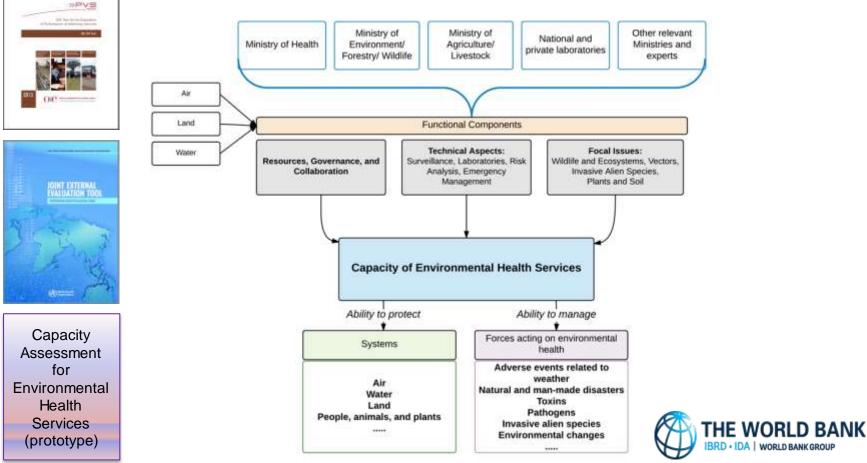
#### Landscape of One Health Tools (examples)

One Health Operational Framework



## Environmental Health Services Capacity Assessment Tool

Components and capacities to help reduce risk and promote resilience







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