

IUCN

The World Conservation Union

**Commission on
Environmental Law**



**Asia-Pacific Centre for
Environmental Law**



Pace Law School



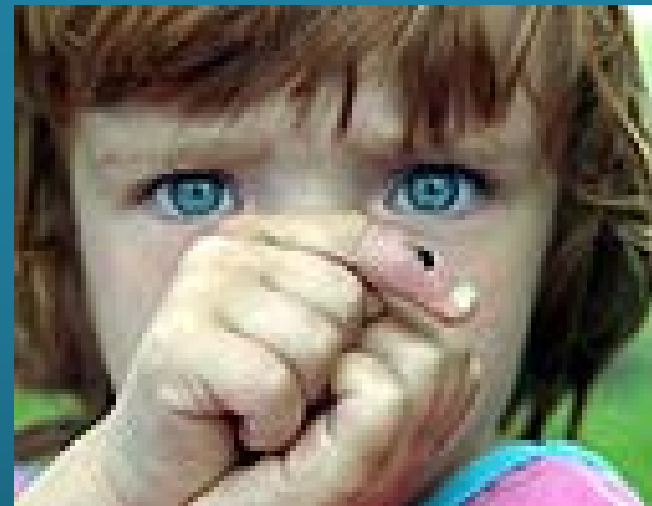
**CRITICAL ECOSYSTEM
PARTNERSHIP FUND**

TRAFFIC
NETWORK

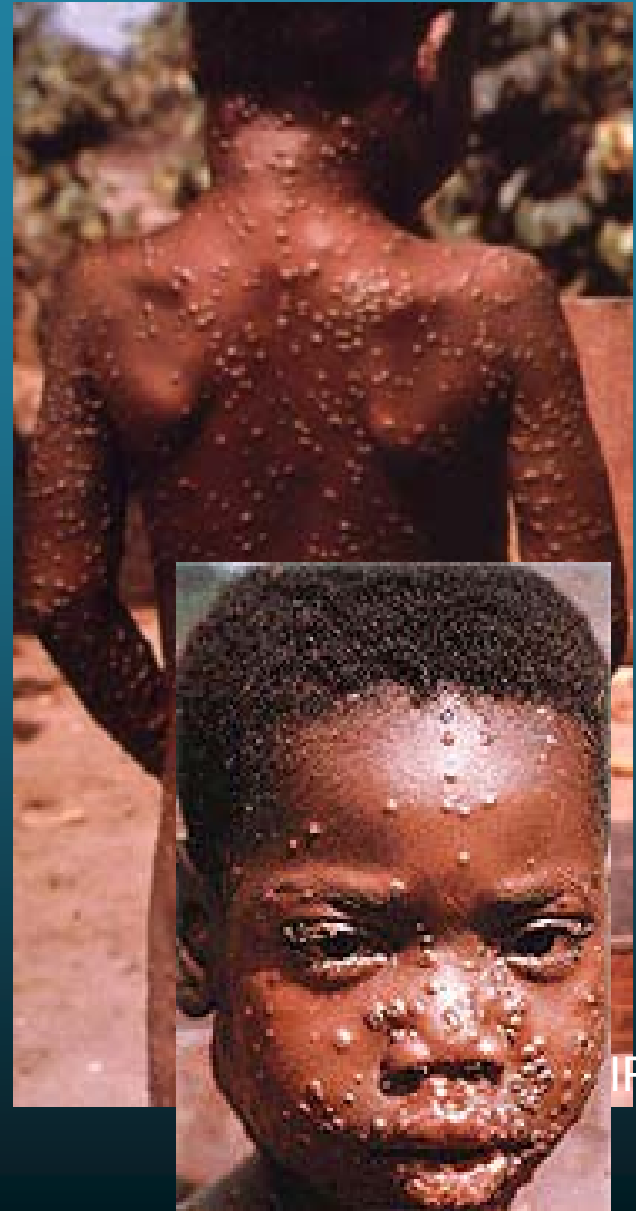


one world • one health



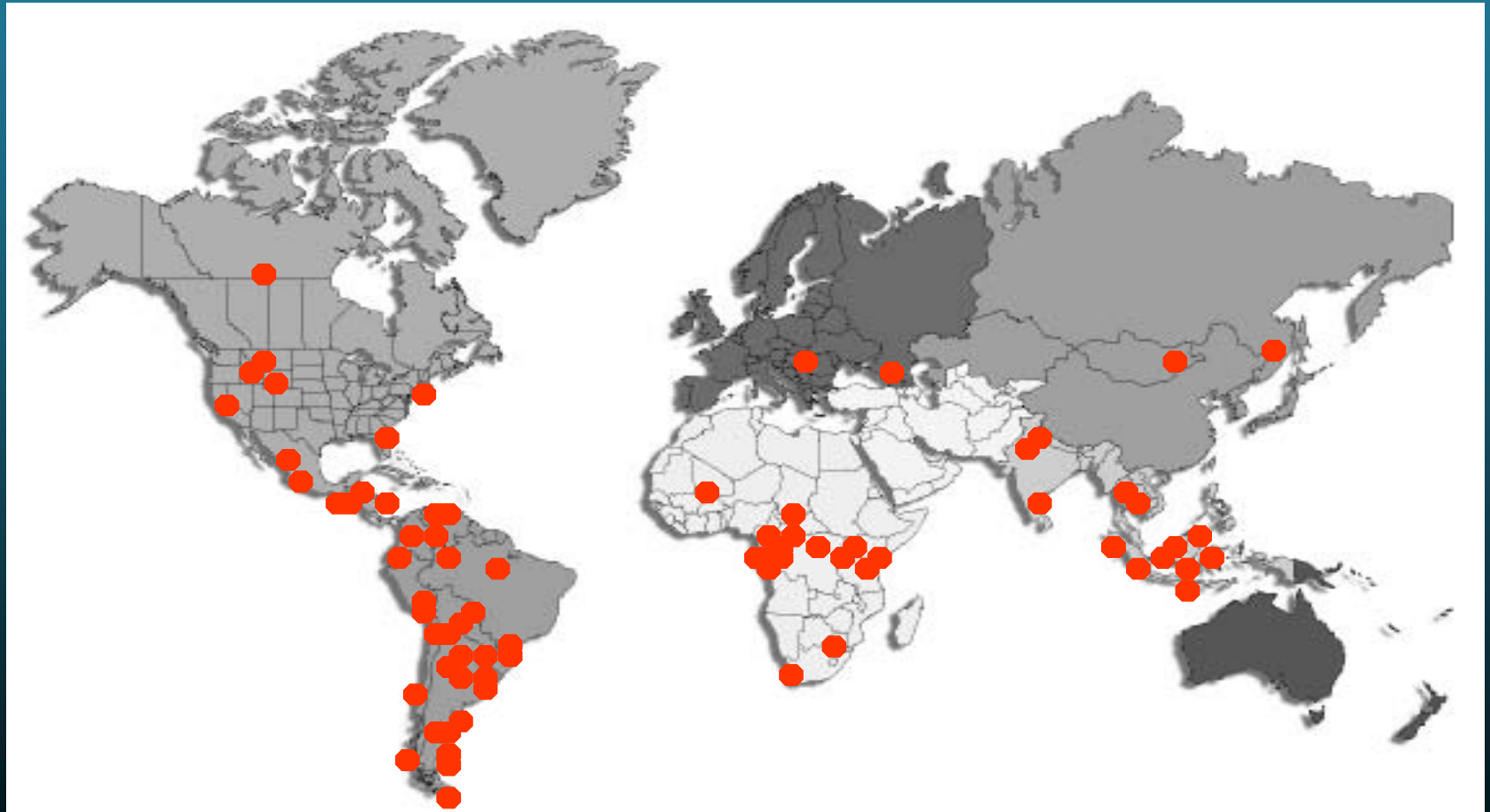








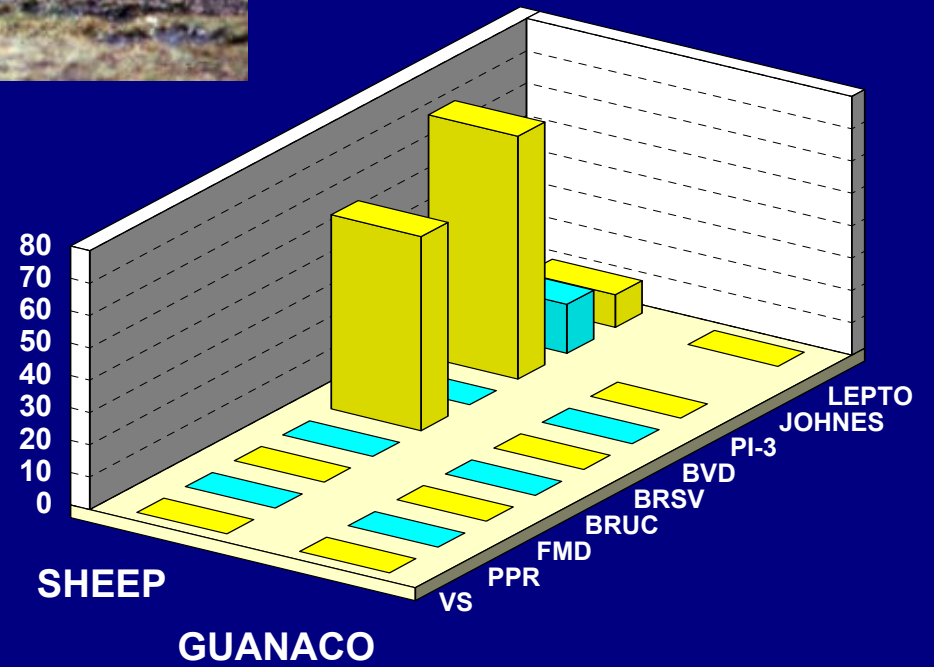
Health Programs



Connecting the Health of Wildlife, People and their Animals







***Humanity is currently plagued
by 1709 known pathogens....***

49% of those are zoonotic

***Zoonoses are 3x more likely
to be emerging diseases than
non-zoonotic diseases***

Dr. Mark Woolhouse

Infectious Disease	Affects Wildlife	Affects Domestic Animals	Affects Humans Directly	Affects Human Livelihoods Indirectly
Brucellosis	X	X	X	X
Canine Parvovirus	X	X		
Chagas	X	X	X	
Distemper	X	X		
Foot and Mouth Disease	X	X		X
Leishmania	X		X	
Leptospirosis	X	X	X	
Rabies	X	X	X	X
Scabies	X	X	X	
Toxoplasmosis	X	X	X	

Gorilla and Human Health





Salmonella

Viral Diarrhea

Polio

Animals  **Colds**  **People**

Flu

Measles

Tuberculosis



Capacity building



Serology - Negatives

Lab test results

Polio

Measles

Ebola

Dengue Fever

Monkey Pox

Reovirus

Parvovirus

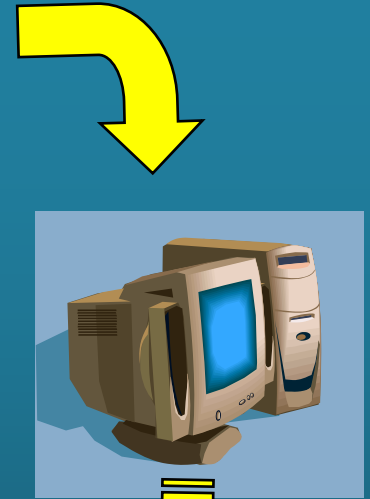
Data suggest animals have **NOT** been exposed
and have **NO** immunity



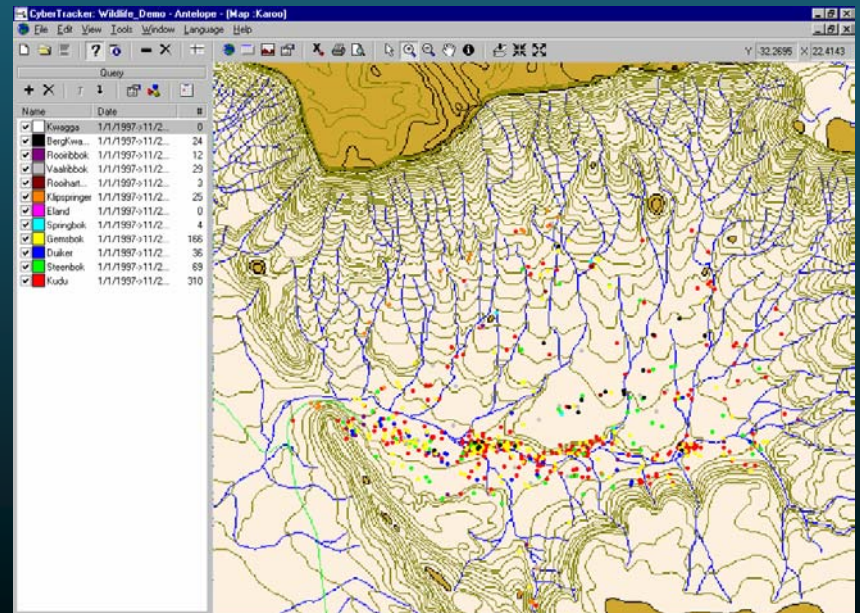
**Disease outbreak
Investigations &
Post-mortem exams**



Gorilla health data

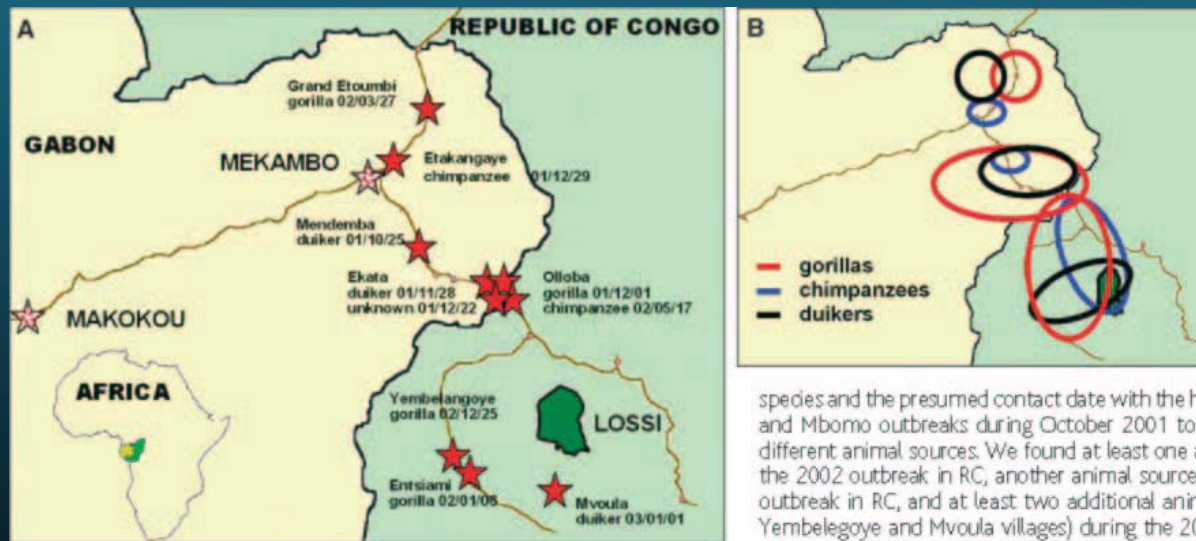


Human health data



Multiple Ebola Virus Transmission Events and Rapid Decline of Central African Wildlife

SCIENCE, Jan. 16, 2004



Brucellosis



Typhoid Fever

Salmonella



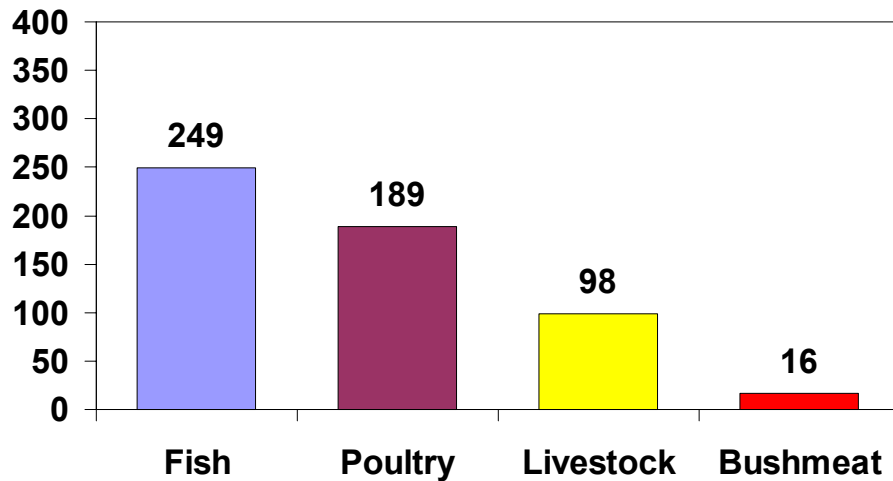
Information

Not Fear

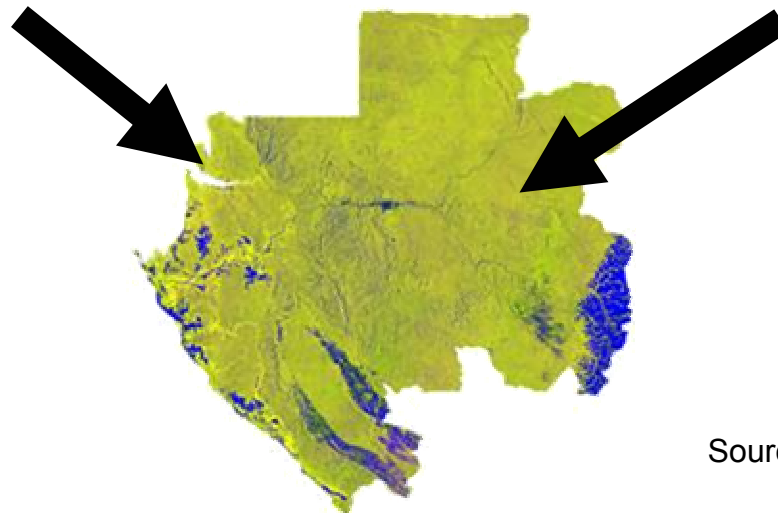
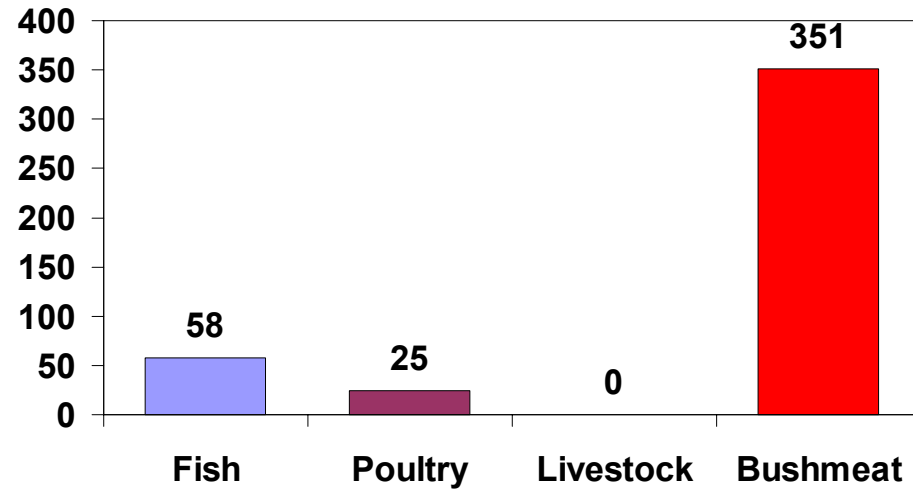


Who eats wildlife?

Libreville

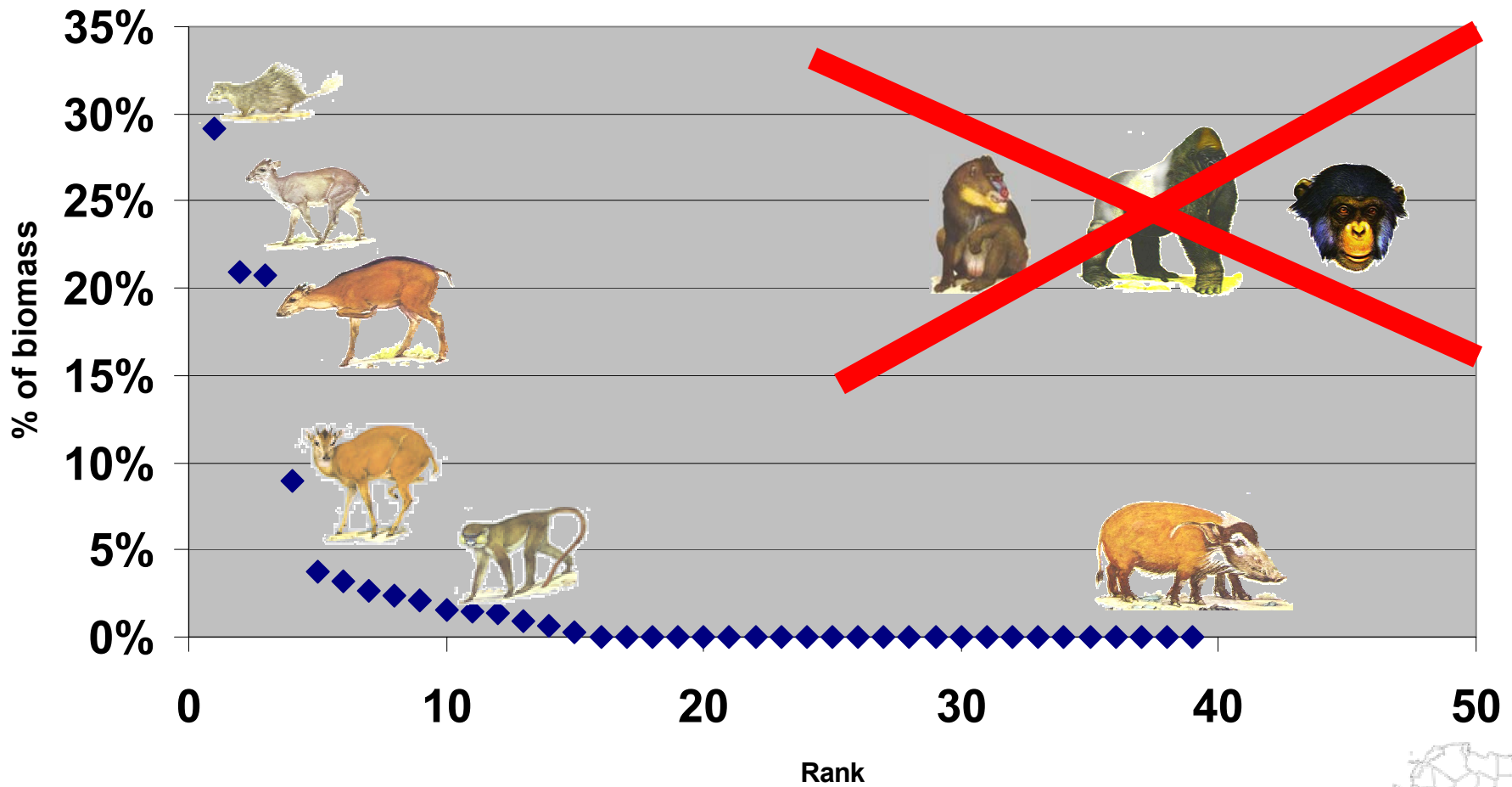


Villages



Source: Abernethy et al, Gabon, National Bushmeat Survey 2/2000-11/2002

Village level hunting



168 households
3,870 sample days

Source: Starkey, in prep



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Tuberculosis

Is SARS from outer space?

By Lauren Compton

CNN

Friday, May 23, 2003

LONDON, England (CNN) –

The SARS virus might have originated in outer space, according to a scientist in Britain.

In a letter to **The Lancet** medical journal, professor Chandra Wickramasinghe of Cardiff University suggests the virus was introduced to Earth on a comet or meteorite.







12,500 Km

2000 Km

2700 Km

3200 Km

4900 Km

Hangzhou



**WCS – Asia
Program &
TRAFFIC**

Pre-SARS outbreak

- Millions of Kg of wild animals traded annually without control

Post-SARS outbreak 2003

- Over 9000 law enforcement cases
- 930,000 non-domestic animals confiscated
- 40,000 were “protected” species

Avian Influenza



Evidence points to migratory wild birds as victims not vectors



The main current threat to wild birds is not from the virus itself but persecution by poorly informed decisions and members of the public





Economic

Environmental

Social – Cultural

Security – Stability

INTER-SECTORIAL GAPS

