Emerging Diseases & Global Health Policies

The Ebolavirus outbreaks: From emergence to pandemic

How we learned a lot, but remember a little

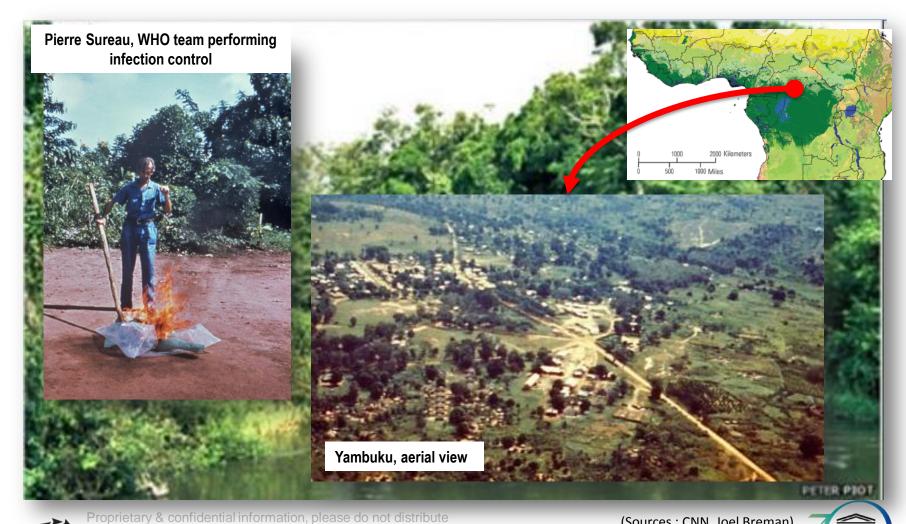
Jean Paul Gonzalez

Metabiota Inc., Senior Staff Scientist





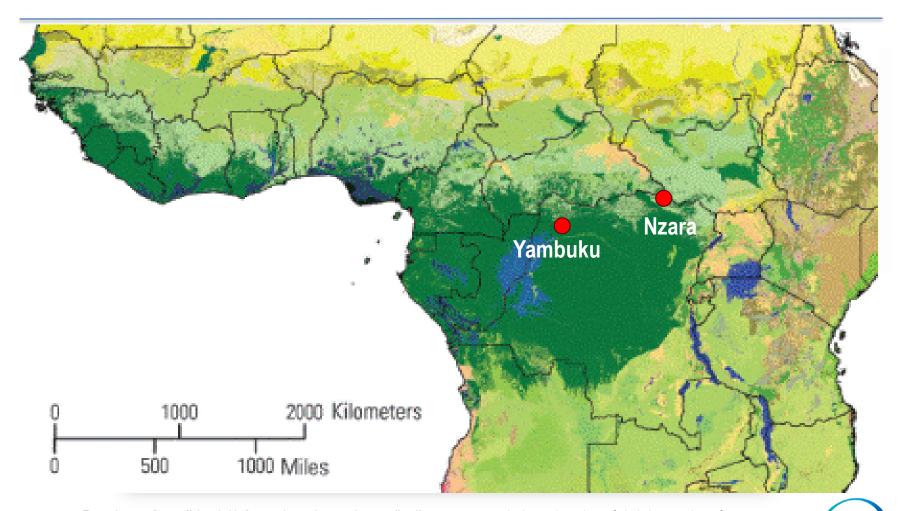
September 1st 1976, Yambuku, Zaire (*alias* DRC): the emergence and discovery of Ebolavirus in Central Africa.





(Sources: CNN, Joel Breman)

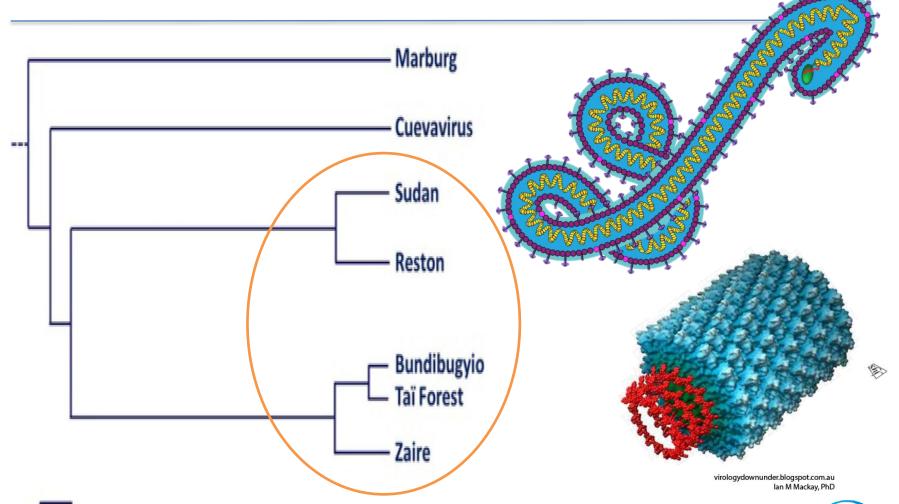
Yambuku to Nzara



Proprietary & confidential information, please do not distribute Breman et al. The epidemiology of Ebola haemorrhagic fecer in Zaire, 1976

Ebolavirus biodiversity and structure

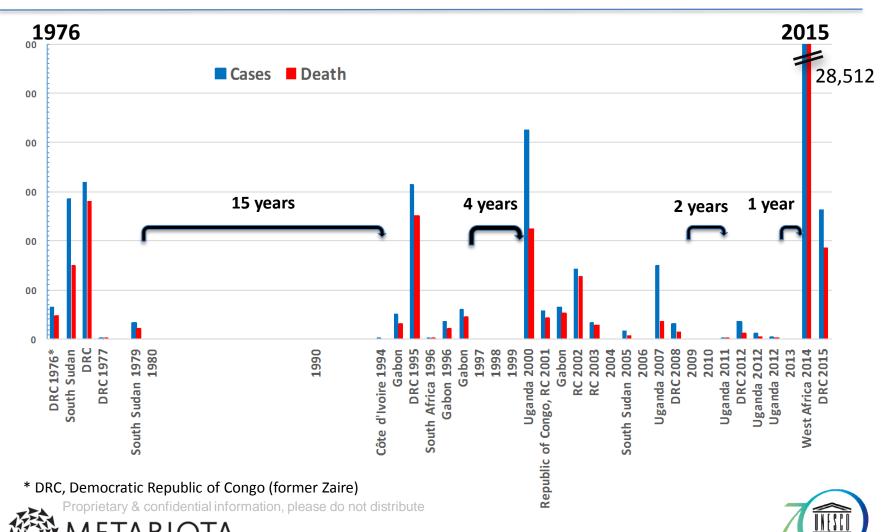
Filovirus (lat. filo = filamentous)



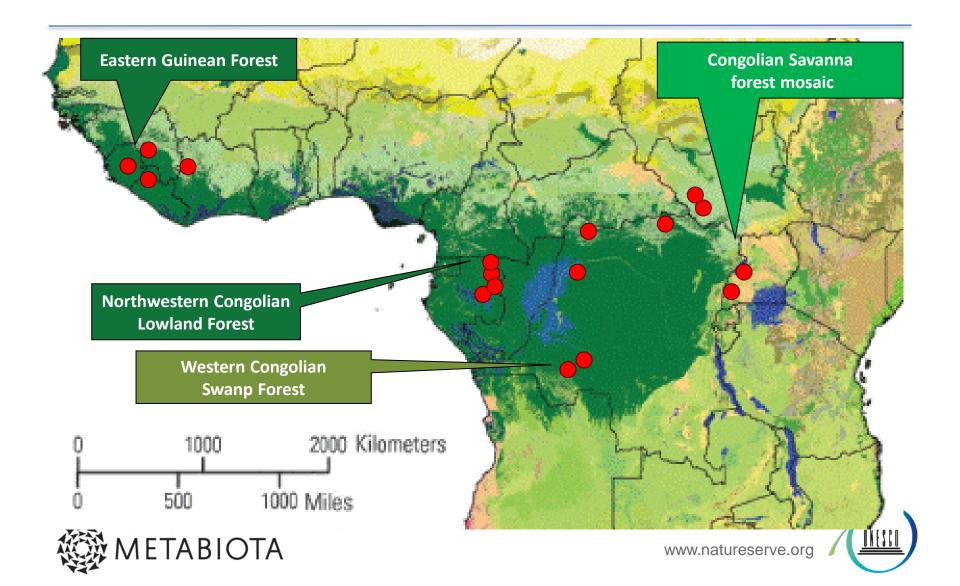




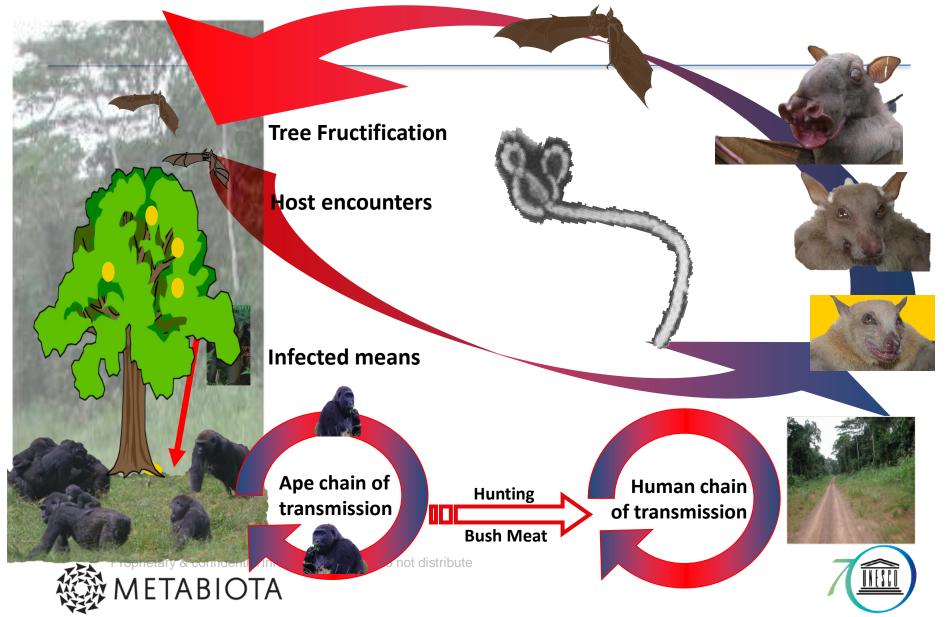
Timeline of the Ebola fever outbreaks and emerging events in Africa



Territorial Eco-regions of Ebola virus emergence: The Tropical moist broadleaf forest



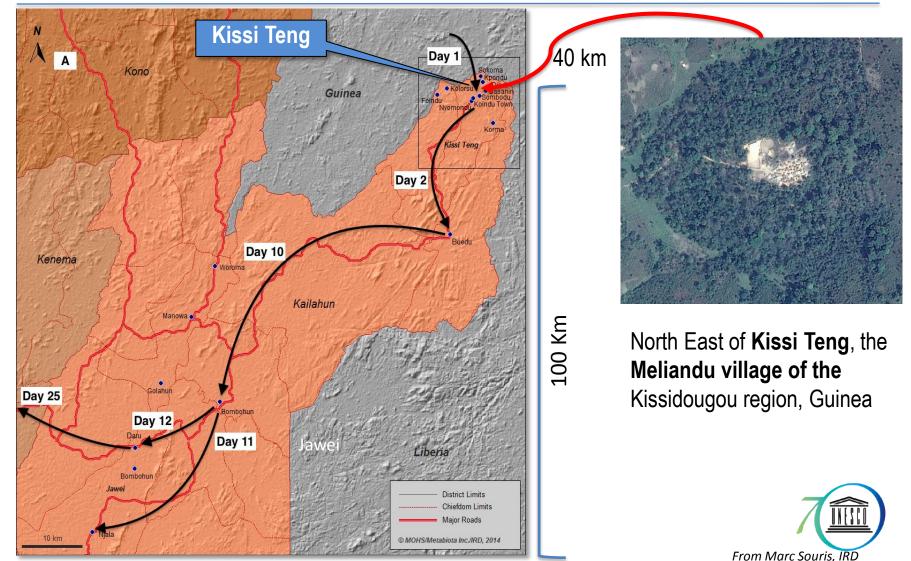
Ebolavirus natural history: Frugivorous bat as a natural host of Ebola virus in Gabon



Initial foot prints of EVD in Sierra Leone

2. March 2014: First imported case in Sierra Loene

1. December 2013 Index case in Guinea



Learning from Mistakes

1. Exausted funding

- 2. Community deny
- 3. Late warning
- 4. Inadequate

Response

- Emergency funding, budget reallocation,
 Insurance
- 2. Counseling, educating, history & culture
- 3. Capacity-building, early responder teams
- Extended synergistic international response with local health authorities





Peparedness for the next pandemic

For the Community

Understanding, Compliance & Altruism

Capacity Building

Early Warning & Biosurveillance

Funding

Immediate, accurately allocated









