



Conserving the Endangered Mountain Gorillas using the One Health approach: Work of Gorilla Doctors.

BY

Julius Nziza, DVM, MPH, PhD Candidate.

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WOAH , Arusha.



GORILLA DOCTORS™

Mountain Gorilla Veterinary Project & UC Davis Wildlife Health Center

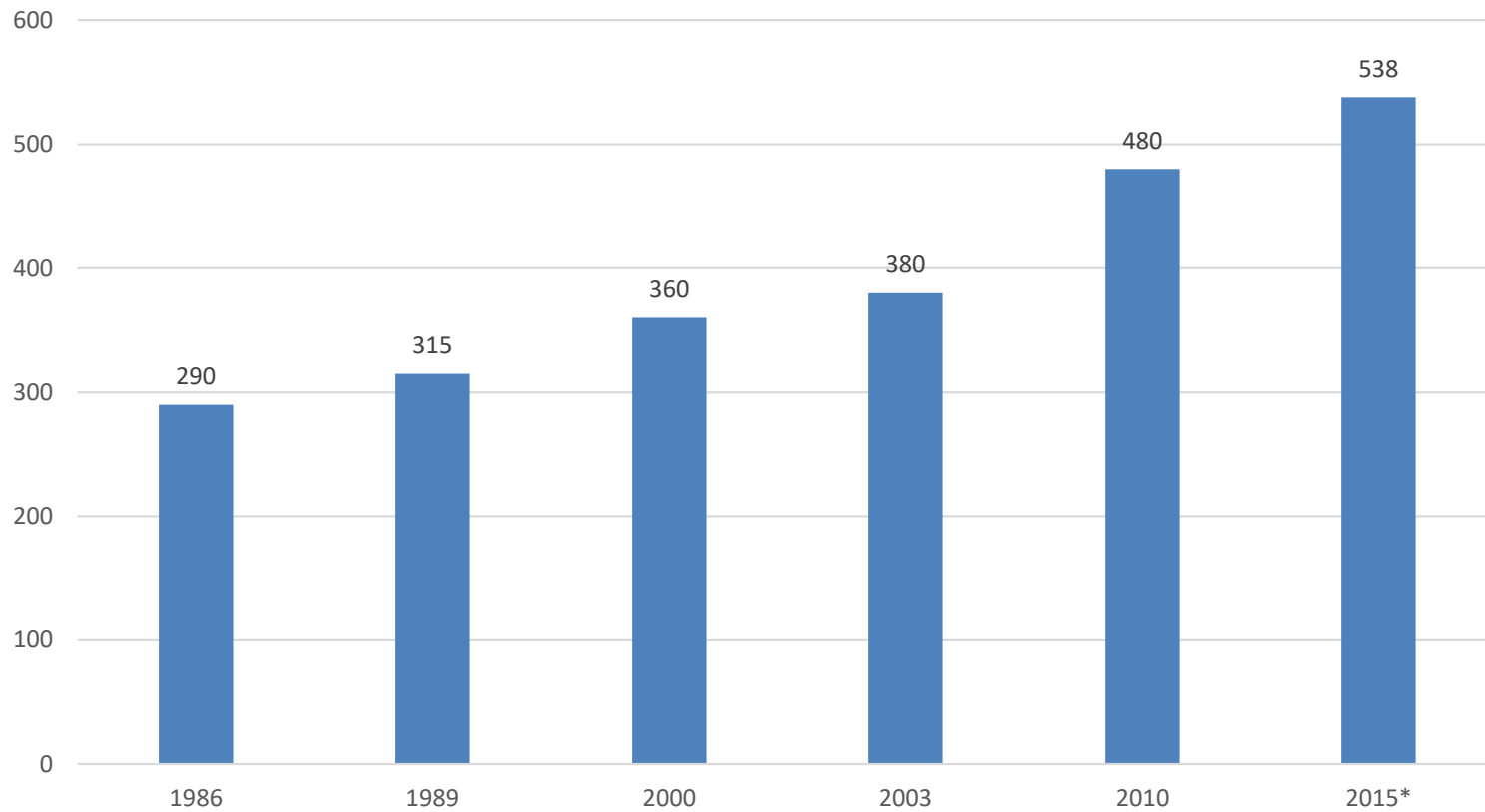
*Our Mission: To conserve wild eastern gorillas
through life-saving veterinary medicine and science using a
One Health approach*



IT'S WORKING!!

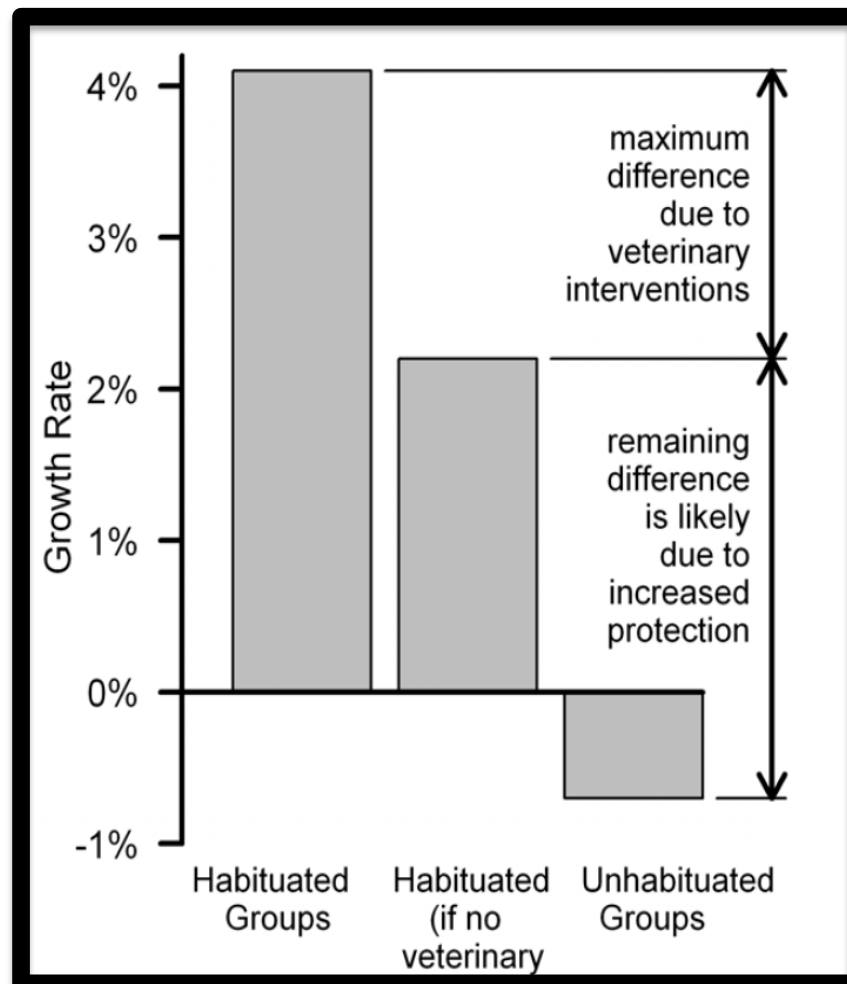
The only great ape population on the rise

Virunga Population growth since Gorilla Doctors commenced



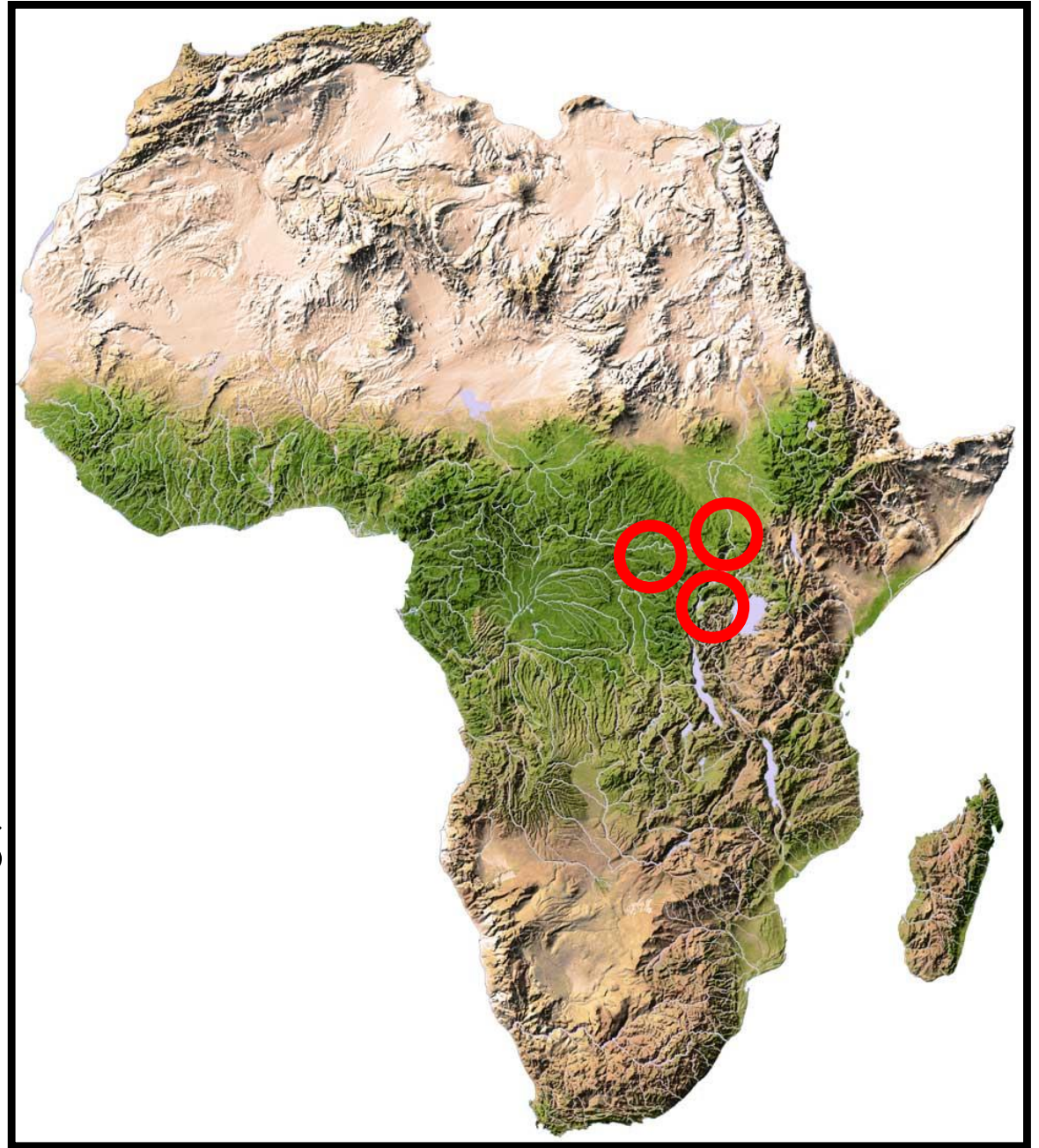
* Estimation census occurring

- * Mountain Gorilla Population growing at 4% per year
- * Parallels human population growth world wide
- * Peer reviewed publication “Extreme Conservation” states that Vet care responsible for 50% of that increase



Our Footprint

- * 3 Countries
- * 7 Facilities
- * 14 Veterinarians
- * Both subspecies of Eastern Gorillas
- * 36 Year History



Our Partners

*RDB, UWA, ICCN,
GVTC

* IGCP, DFGFi, GO

*Several Regional
and International
Universities

*Houston Zoo, Columbus Zoo with along
with many others

* USAID, UN,(GRASP) CDC.



Mountain Gorilla Veterinary Project: The Beginning



Our Goals

- **Restore the Gorilla Population**
- **Lead the Scientific Community**
- **Promote One Health**



Restore Gorilla Populations



Monitoring & Evaluation



Medical Care



Only When Life-Threatening or Human-Induced

Medical Care



Medical Care



Pathology



Saving Orphans



Lead the Scientific Community

A close-up photograph of a chimpanzee's face, looking directly at the camera. The chimpanzee has dark, textured fur and large, expressive brown eyes. The background is a soft-focus green, suggesting a natural habitat with foliage. The text is overlaid in white, bold font.

- **Provide Data and high quality samples**
- **Improve Care of both wild and Captive Animals**
- **Laboratory and Diagnostics**

Data and High quality samples



Veterinary Care for Wild Gorillas



Veterinary Care for Orphans



Laboratory and Diagnostics



Promote One Health

• It's All Related



Mountain Gorillas



Grauer gorillas



People



Image Copyright - www.travellingforfun.com

People



People



Public Health Interventions: Conservation Employee Health Program



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Hygiene and Sanitation Program

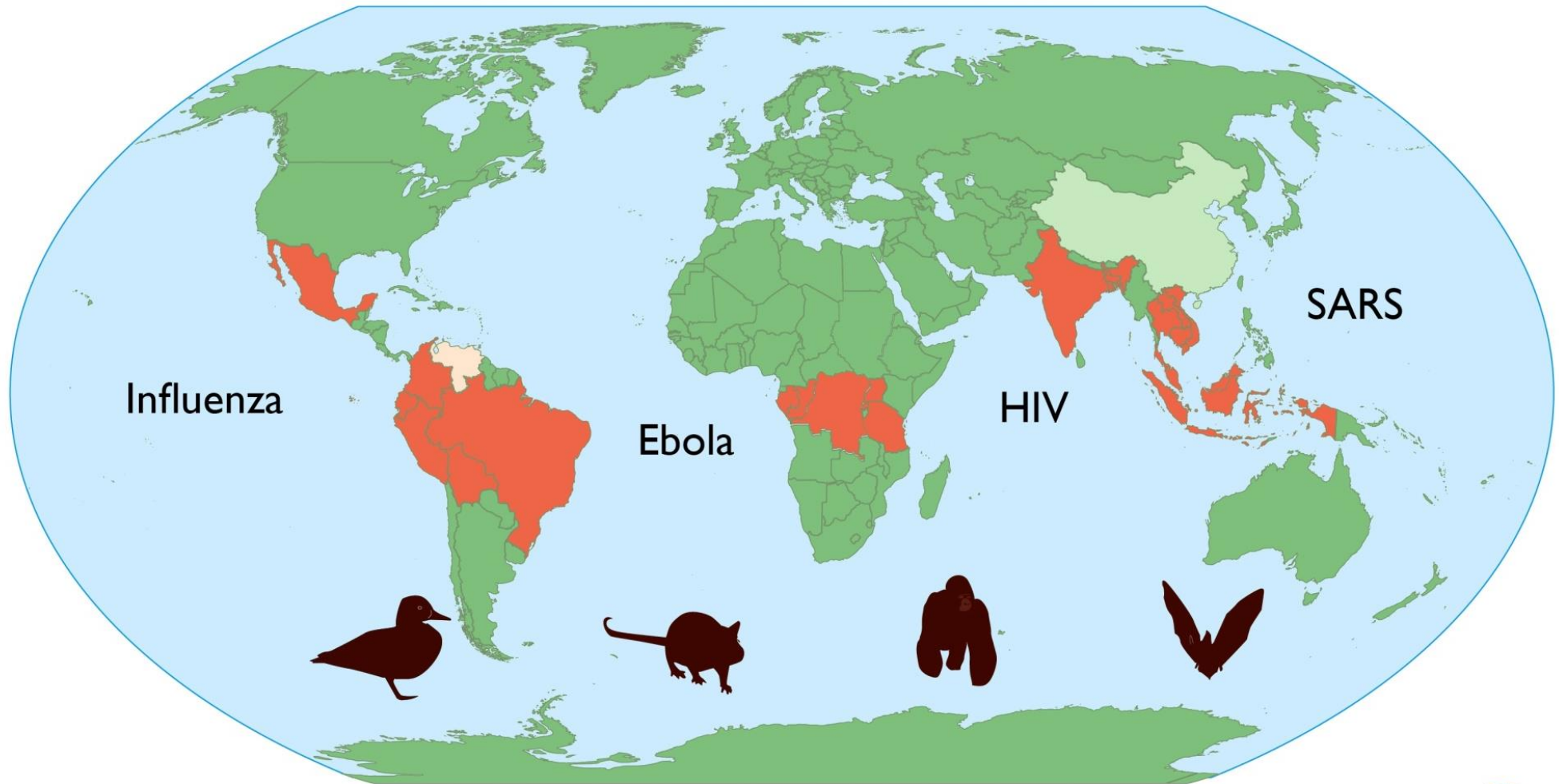


Domestic Animals



PREDICT

PREDICT: Building a global early warning system for emerging diseases that move between wildlife and people



USAID
FROM THE AMERICAN PEOPLE



UC DAVIS
VETERINARY MEDICINE
Wildlife Health Center



EcoHealth Alliance

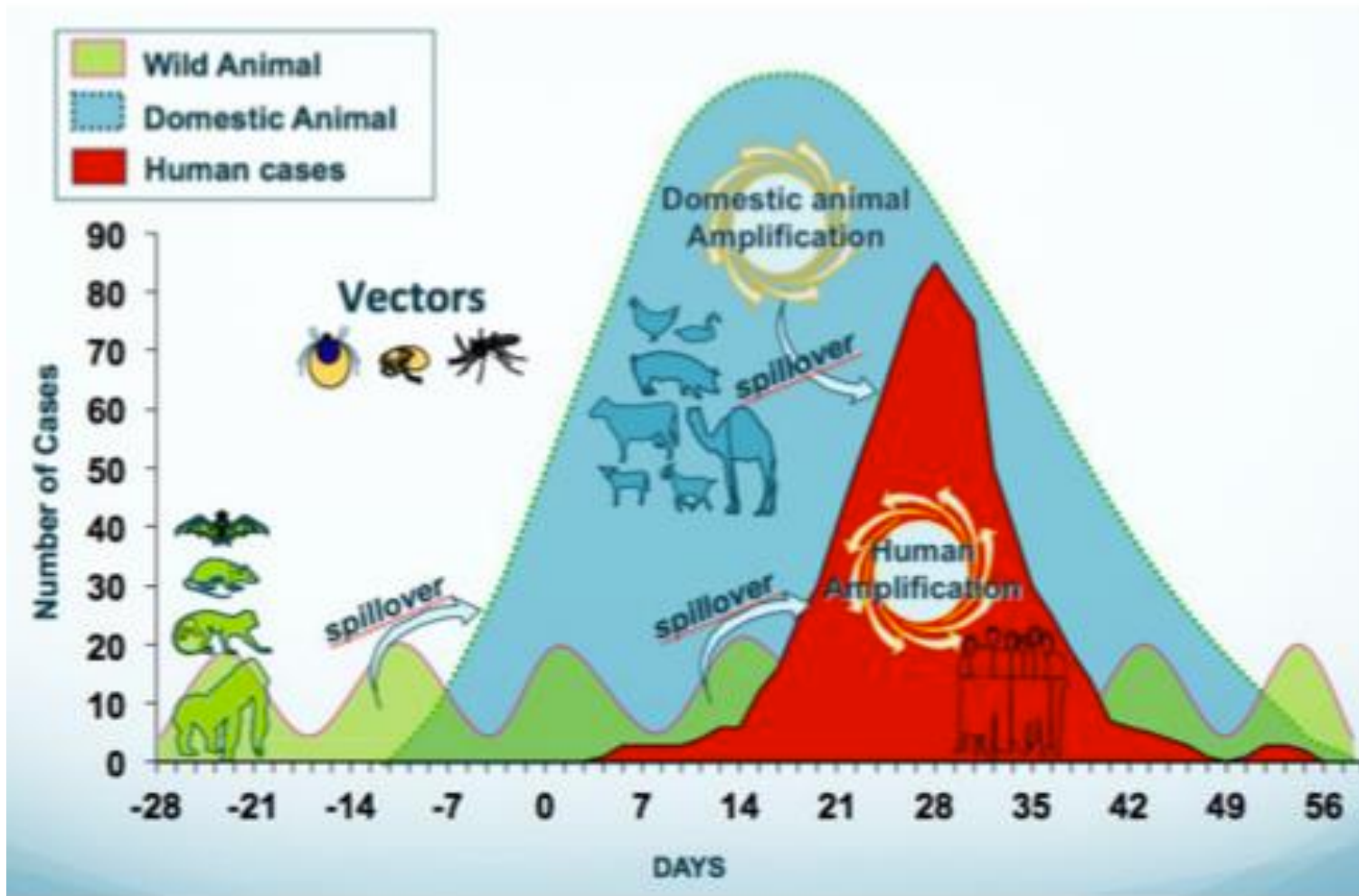
GVFI

Global Viral Forecasting Initiative



Smithsonian
Institution

PREDICT



Source: Karesh et al. 2012. The Lancet & WHO



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PREDICT

Taxonomic Animal Groups for surveillance



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REGIONAL AND NATIONAL ONE HEALTH COLLABORATION



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SAFER PLANET, PROSPEROUS COMMUNITIES



OUT PUT:- Samples and Data



Selected Publications

*Tierra Smiley Evans, Linda J. Lowenstine, Kirsten V. Gilardi, Peter A. Barry, Benard J. Ssebide, Jean Felix Kinani, Fred Nizeyimana, Jean Bosco Noheri, Michael R. Cranfield, Antoine Mudakikwa, Tracey Goldstein, Jonna A. K. Mazet, Christine Kreuder Johnson. **Mountain gorilla lymphocryptovirus has Epstein-Barr virus-like epidemiology and pathology in infants.** Scientific Reports, 2017; 7 (1)*

*Smiley Evans, T, Gilardi, KVK, Barry, PA, Ssebide, BJ, Kinani, JF, Nizeyimana, F, Noheri, JB, Byarugaba, DK, Mudakikwa, A, Cranfield, MR, Mazet, JAK & Johnson, CK 2016, '**Detection of viruses using discarded plants from wild mountain gorillas and golden monkeys**' American Journal of Primatology.*

*Palacios, G., Lowenstine, L.J., Cranfield, M.R., Gilardi, K.V., Spelman, L., Lukasik-Braum, M., Kinani, J.F., Mudakikwa, A., Nyirakaragire, E., Bussetti, A.V. and Savji, N., 2011. **Human metapneumovirus infection in wild mountain gorillas, Rwanda.** Emerging infectious diseases, 17(4), p.711.*

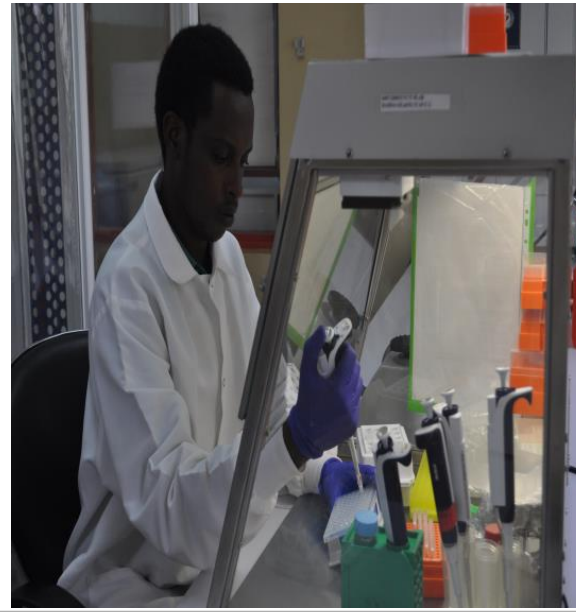
*Nziza, J., Goldstein, T., Cranfield, M., Webala, P., Nsengimana, O., Nyatanyi, T., Mudakikwa, A., Tremeau-Bravard, A., Byarugaba, D., Tumushime, J.C. and Mwikarago, I.E., 2020. **Coronaviruses detected in bats in close contact with humans in Rwanda.** Ecohealth, 17(1), pp.152-159.*



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Capacity Building



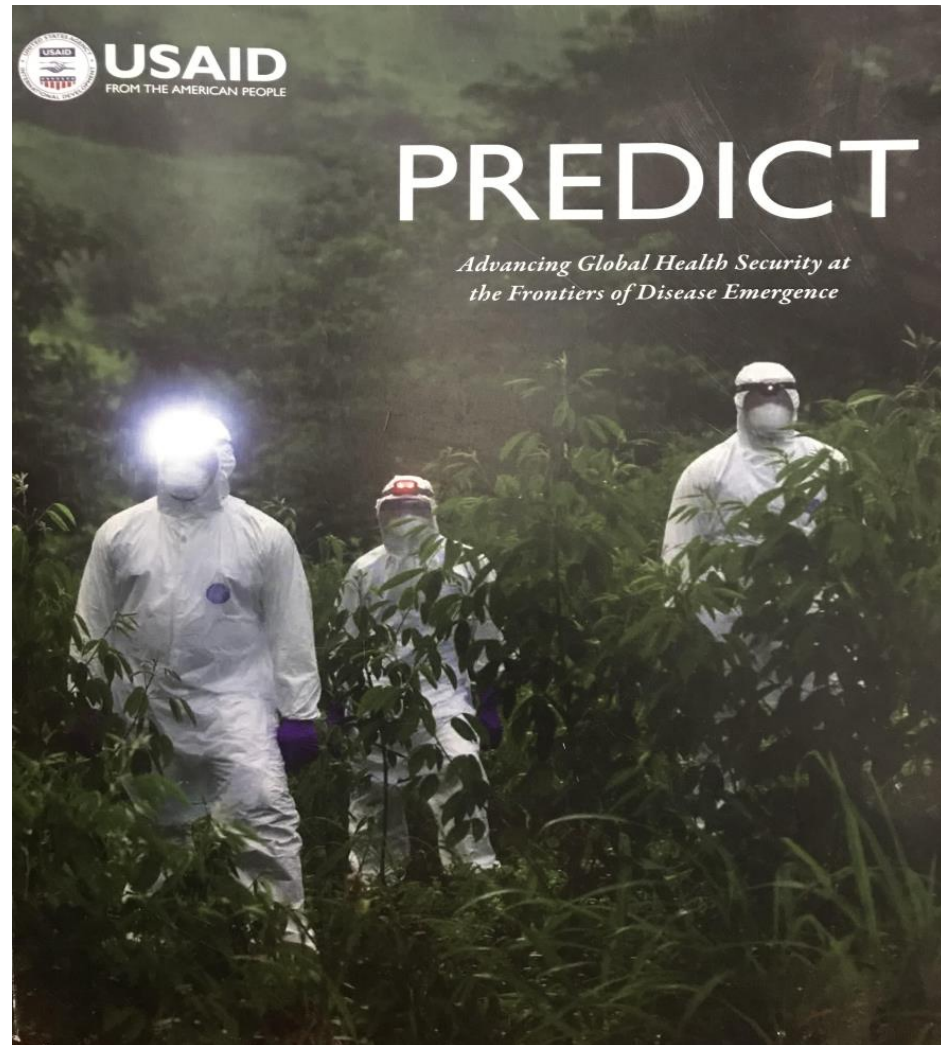
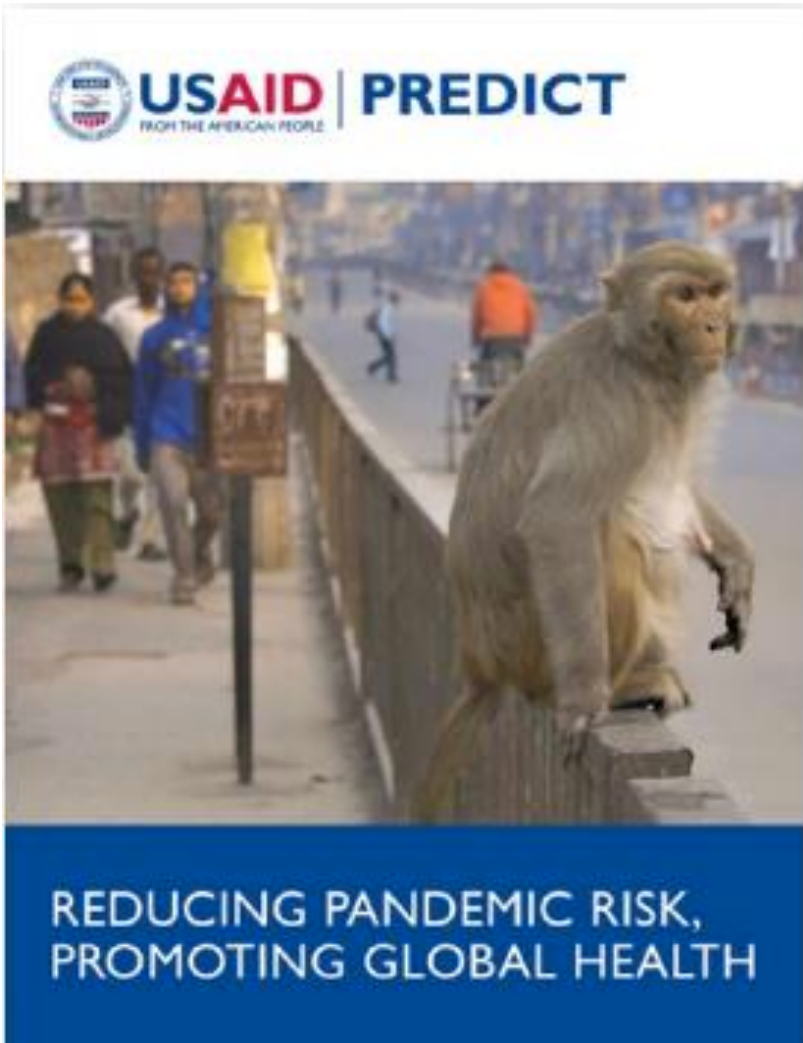
Messaging & Outreach



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USAID's Emerging Pandemic Threats Program



www.vetmed.ucdavis.edu/ohi/predict



www.gorilladoctors.org

THANK YOU



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