

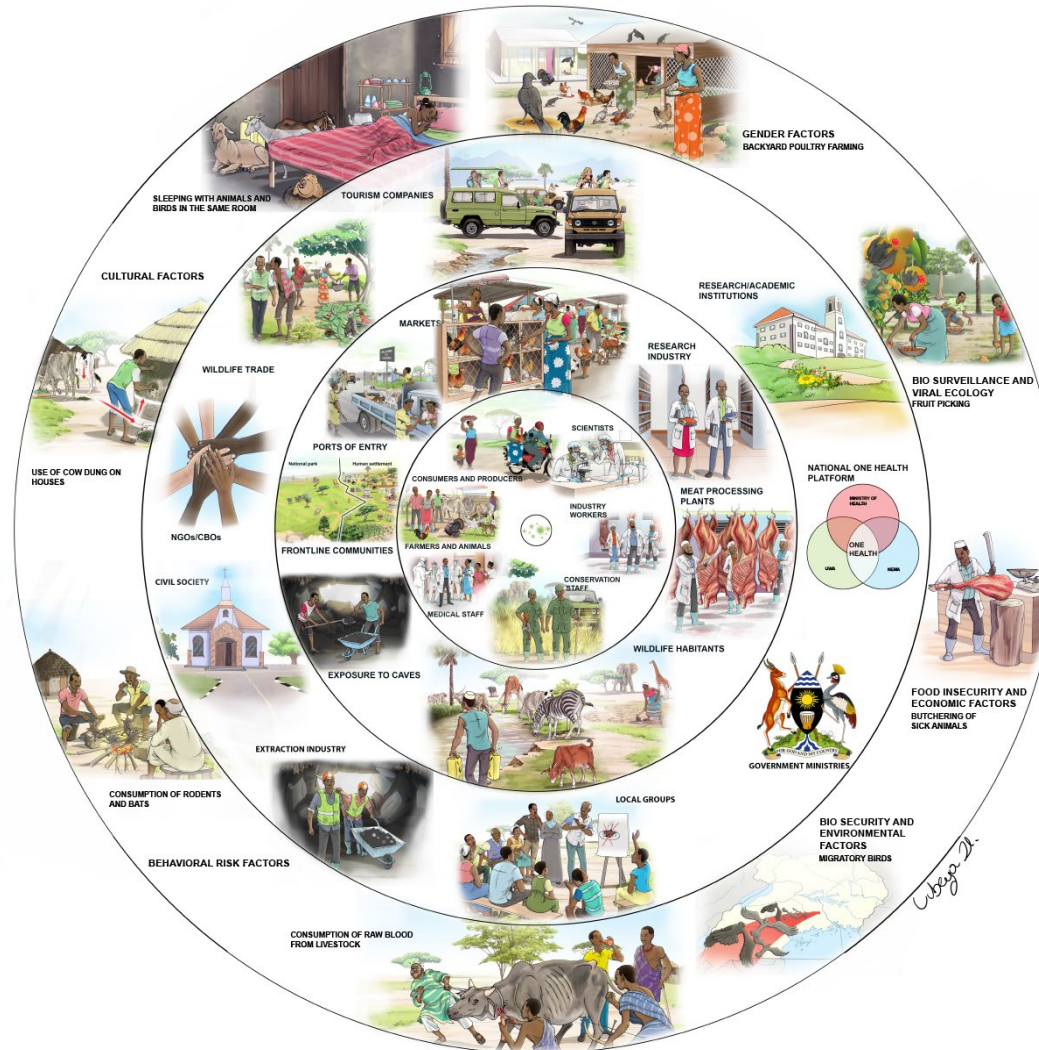


## **Illustrations of Factors and Actors in the Spillover Ecosystem in Bundibugyo District, Uganda**

**By Micheal Lubega**  
**June 2023**

During Uganda's outcome mapping sessions, Micheal Lubega served as a visual notetaker by illustrating the spillover ecosystem. His illustrations depict the range of factors and actors that make up the spillover ecosystem.

## Spillover Ecosystem Map



This graphic maps the spillover ecosystem in Uganda. It includes socioeconomic, cultural, gender, biosurveillance, viral ecology, food insecurity, economic, biosecurity, and environmental factors, and related actors from frontline communities to government ministries.

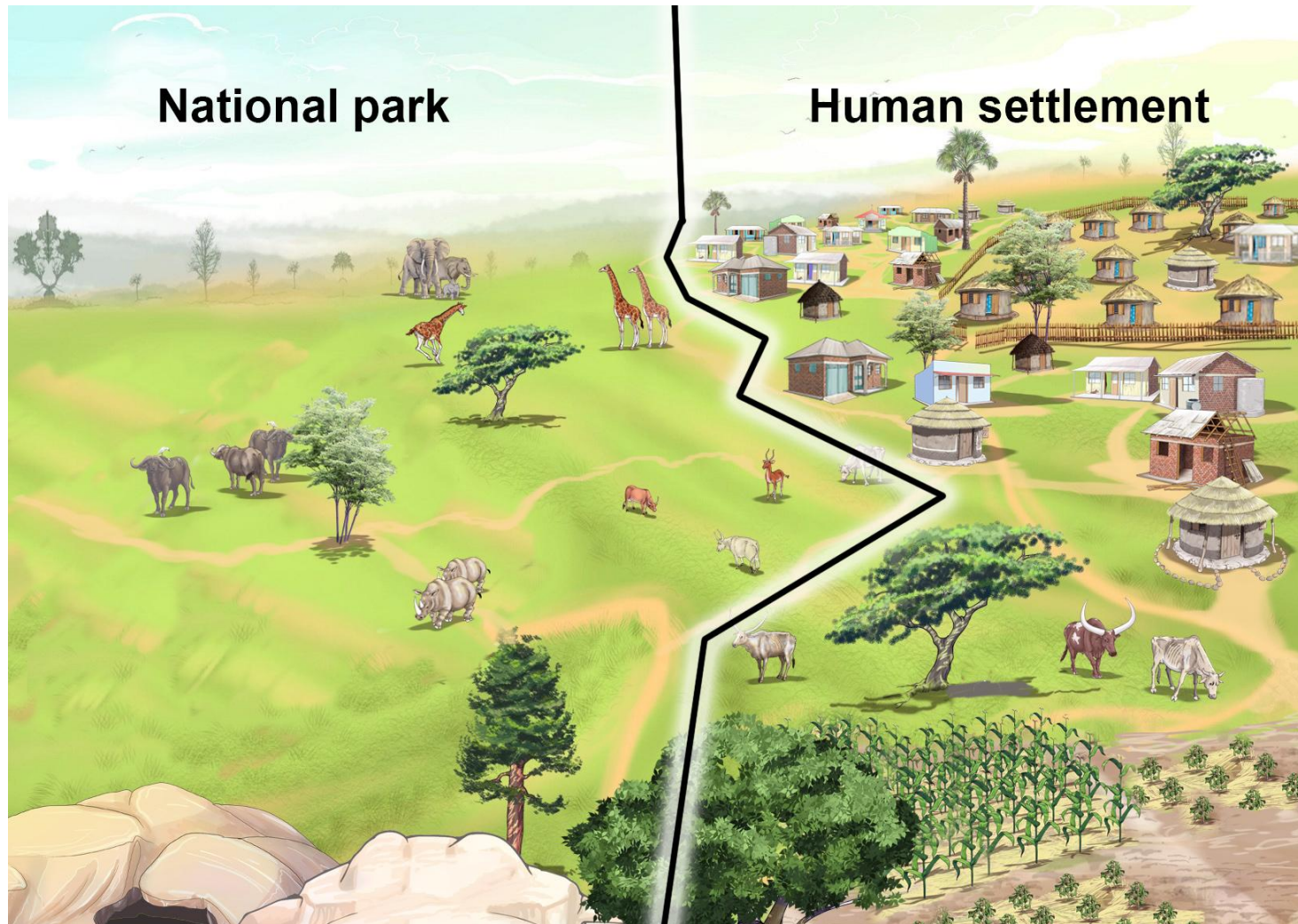
## Doctors, Nurses, and Other Healthcare Staff



A wide range of healthcare staff (from community health workers to clinicians) serves as pivotal actors in the larger spillover ecosystem as they help reduce the risk of spillover (e.g., through effective prevention) and address health issues that occur.



## Frontline Communities



Frontline communities located near critical interfaces of human-animal interaction (e.g., national parks) are often the groups most likely to be affected by spillover risks.



## Fruit Pickers



Fruit pickers come into direct contact with potential hosts of spillover pathogens such as various species of bats.

## Park Rangers



Park rangers are key actors in helping to reduce the risk of spillover through activities to protect and conserve critical wildlife and ecology, mitigate human-wildlife interaction and potential conflict, protect livestock and farmed wild animals from disease, and promote community outreach and awareness about spillover-related topics.



## Bat Guano Farmers



Bat guano has long been recognized worldwide as a source of fertilizer. Collecting bat manure from caves is practiced in Bundibugyo and other districts in Uganda.