



# LAIKIPIA RABIES VACCINATION CAMPAIGN





















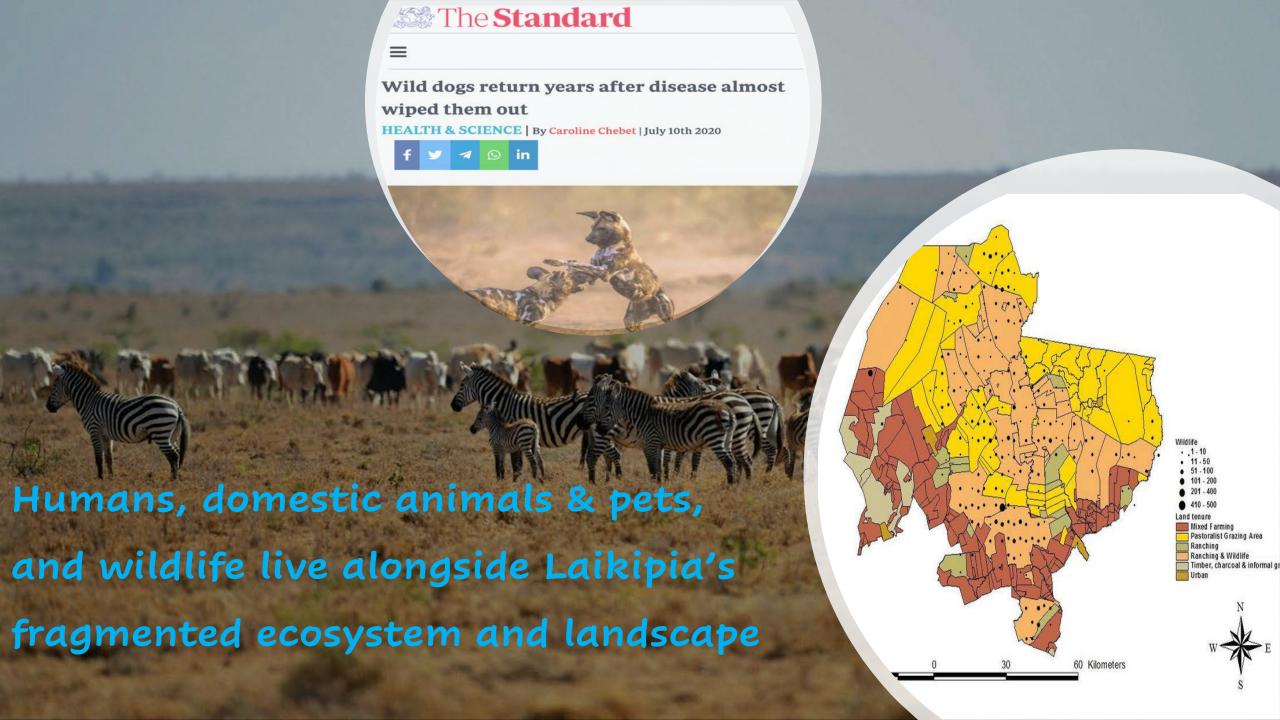








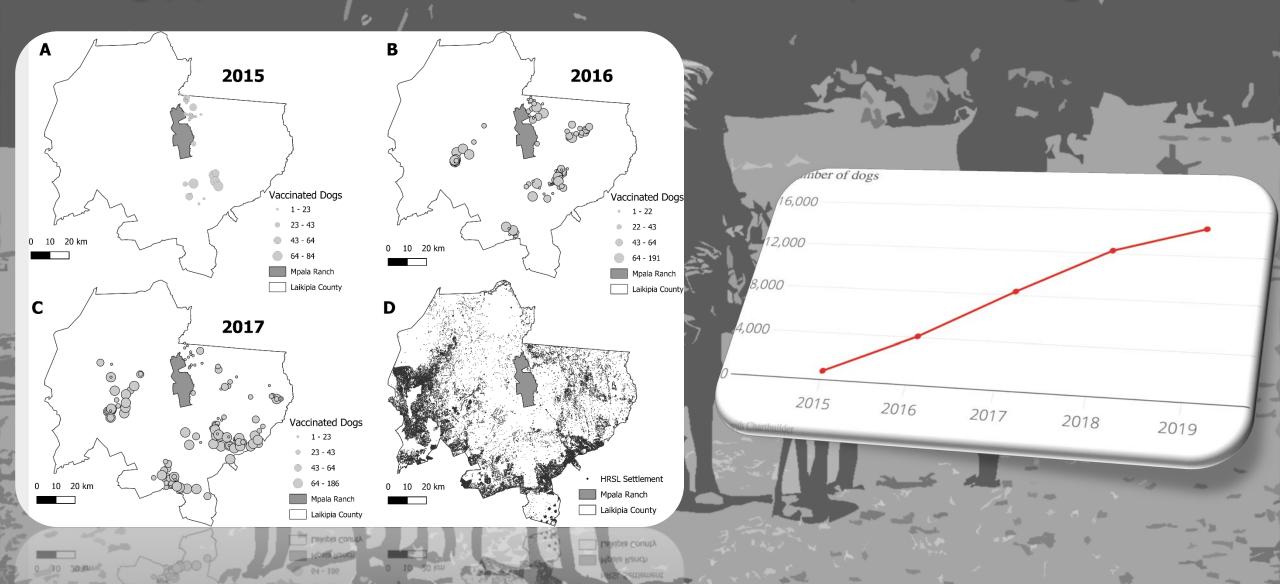




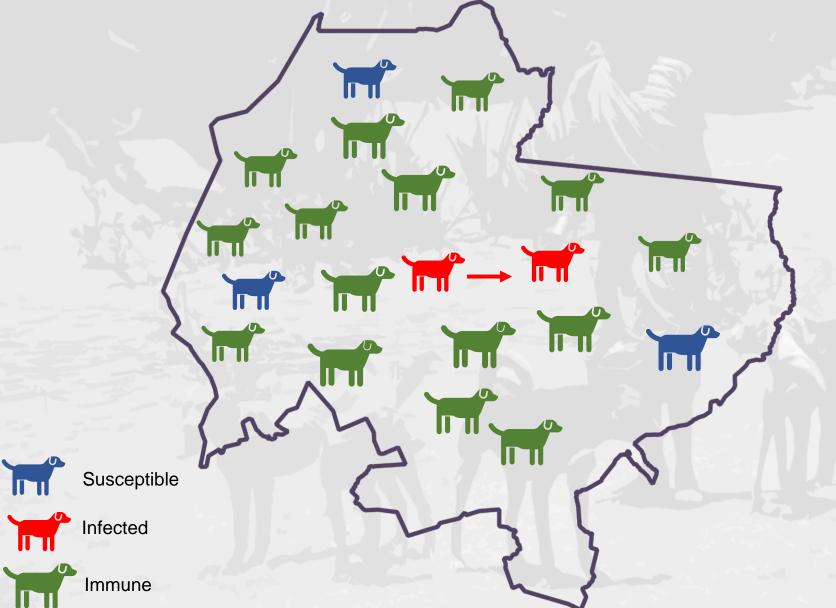


- Target communities along the urban-rural, nomadic/pastoral-small holder continuum
- Central point vaccination stations & door-door
- Mark-resight surveys & household surveys for vaccination coverage estimation

### Finding (1): slow and stead rise of numbers and spatial coverage



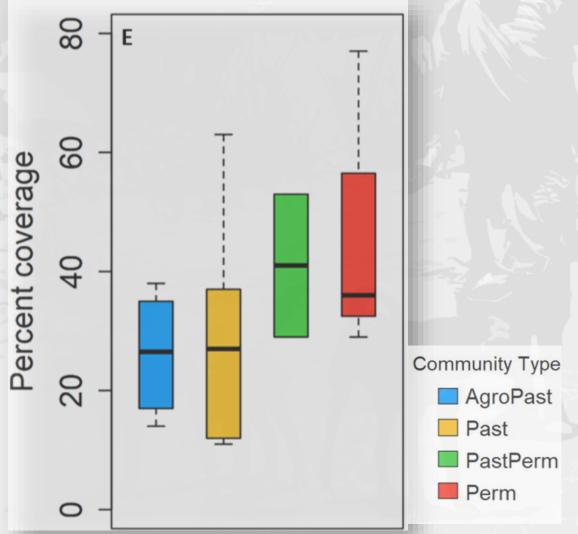
Finding (1): slow and stead rise of numbers ...BUT how about the coverage rate?



Has been and still is a major challenge..



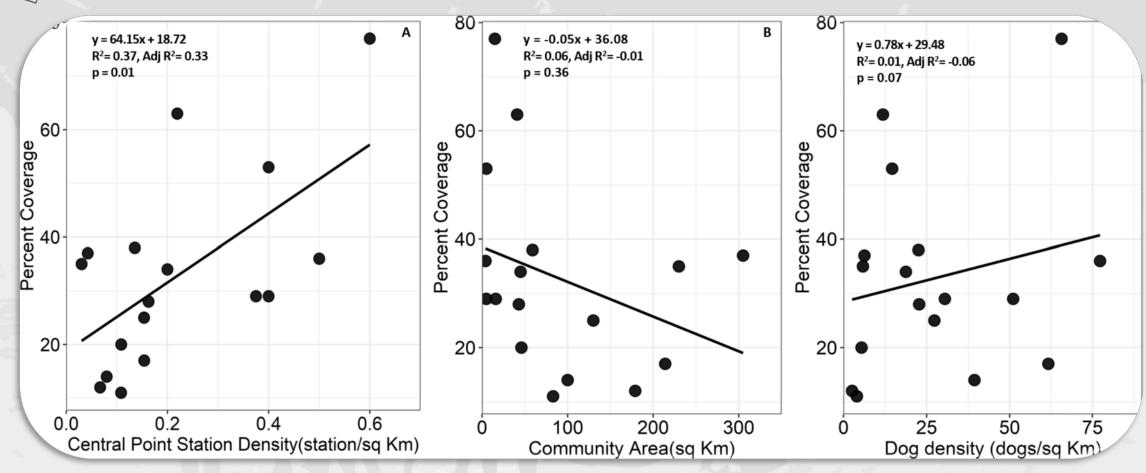
#### ...BUT how about the coverage rate?



Vaccination coverage rates varied by community type (lowest in pastoral communities)



### ...BUT how about the coverage rate?



Vaccination coverage rates was higher in central station, densely populated areas



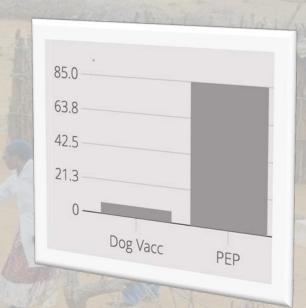




\$7.44 without contributions

\$ 3.44 with in-kind contributions

Cost higher in pastoral area



# Finding (3): Community outreach and rumor management

Our approach

- Working with community leaders esp teachers
- Public posters
- Engaging conservation school clubs
- Significant association between knowldege of rabies and vaccination uptake



Je wajua utafanya nini ukiumwa na mbwa kichaa?

CHA MBWA!

AREHE : 3/11/2017 - 1JUMAA



Peleka mtoto hospitalin

akatibiwe na daktar



Mwambie mzazi kisha uoshe hicho kidonda ukitumia maji na sabuni



# Finding (3): Community outreach and rumor management



Despite our targeted approach we faced heavy resistance in '17

End of 2016 CD outbreak – mass dog mortalities

Perception of links between the LRVC and dog deaths

Hire a romour manager?

Hosting stakeholder meetings and open dialogue/discussions with entire communities

## Lessons: Challenges (and solutions) will be there

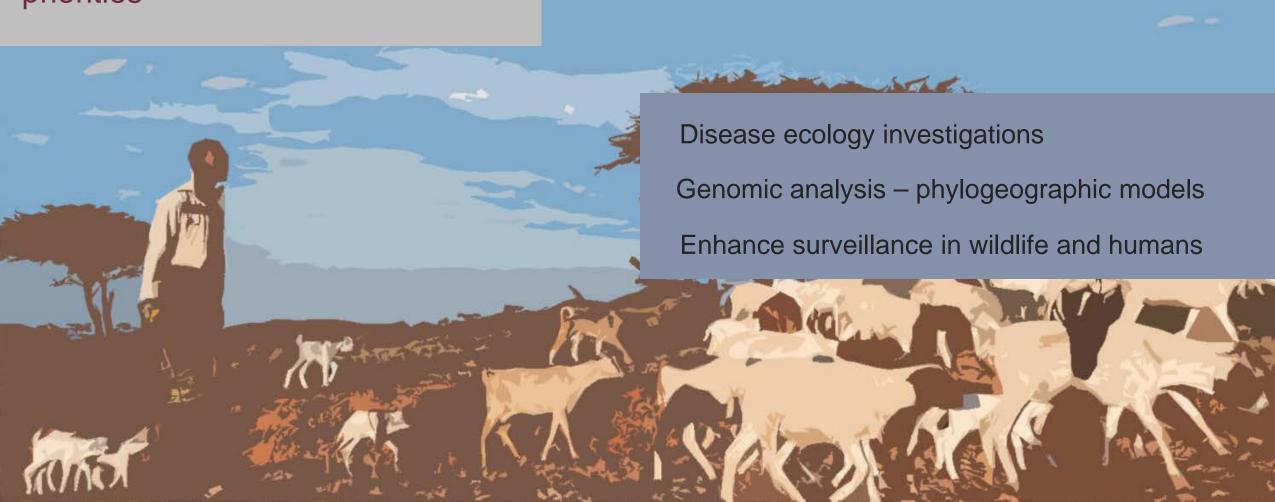
Difficulties in sustaining a volunteer-based campaign

- Vast areas, mobile communities
- Are donations enough?
- Coverage 70% achievable?

Lack of a central, organized body of stakeholders to guide vaccination efforts

Working with governmnent and local authorities esp.

Continued vaccinations – guided by science and national/local priorities



#### PLOS NEGLECTED TROPICAL DISEASES

#### RESEARCH ARTICLE

# Volunteer based approach to dog vaccination campaigns to eliminate human rabies: Lessons from Laikipia County, Kenya

Adam W. Ferguson \*\*, Dishon Muloi \*\*, Dedan K. Ngatia\*\*, Wangechi Kiongo\*, Duncan M. Kimuyu\*, Paul W. Webala\*, Moses O. Olum\*, Mathew Muturi\*, Samuel M. Thumbi\*\*, Rosie Woodroffe\*\*, Lucy Murugi\*\*, Eric M. Fèvre \*\*, Suzan Murray\*\*, Dino J. Martins\*\*

1 Global Health Program, Smithsonian Conservation Biology Institute, Washington, United States of America, 2 Usher Institute of Population Health Sciences & Informatics, University of Edinburgh, Charlotte Auerbach Road, Edinburgh, United Kingdom, 3 Centre for Immunity, Infection and Evolution, University of Edinburgh, Edinburgh, United Kingdom, 4 International Livestock Research Institute, Nairobi, Kenya, 5 School of Natural Resources & Environmental Studies, Karatina University, Karatina, Kenya, 6 Department of Forestry and Wildlife Management, Maasai Mara University, Narok, Kenya, 7 Kenya Agricultural and Livestock Research Organization, Muguga North, Kikuyu, Kenya, 8 Kenya Zoonotic Disease Unit, Ministry of Health and Ministry of Agriculture, Livestock, and Fisheries, Nairobi, Kenya, 9 Paul G. Allen School for Global Animal Health, Washington State University, Pullman, Washington, United States of America, 10 Rabies Free Africa, Washington State University, Pullman, Washington, United States of America, 11 Institute of

Free Africa, Washington State University, Pullman, Washington, United States of America, 11 Institute of



