

Rabies Data Collector (RDC)

*On behalf of the Global Alliance for Rabies Control
2016*



Background

- Data collection is often difficult, especially during vaccination campaigns
 - There is little time for vaccinators to gather data while vaccinating
- Often a dedicated data capturer is required
 - Costly
- Thus, a need for a simple, yet comprehensive data collection method became evident

Rabies Data Collector

- Developed based on feedback from the PARACON meeting in 2015

Proposed solution: Clicker system



Rabies Data Collector (RDC)



Capabilities

- Automatically collects:
 - Time
 - Date
 - GPS coordinates
- Captures inputted data via 3 questions each with 2 options
 - Example output: Adult, Male, Dog, GPS, Time, Date

Software Advantages

- High memory capacity (stores 500 records)
- Can be run on any Windows compatible machine
- Software programme file small enough to be emailed (<2mb in size)
 - No need for complicated programme installation
- Data outputs in Excel file
 - Compatible with most reporting bulletins and programmes (GIS, Google maps, etc.)
 - Easy to create quick graphs and outputs

Hardware Advantages

- Durable
- Lightweight
- Easy-to-use
- Easily waterproofed (works through a ziplock bag)
- Can be used with a nitrile/latex glove
- Simple micro-USB charge – can be charged off of a standard smartphone charger, from wall socket or laptop
- Cost effective – cheaper than a smartphone

Connectivity Advantages

- Works solely on GPS
 - Not reliant on mobile networks
 - No data/internet access required
- Data stored on device until download onto computer
- Can be used in the most remote areas

Versatility

- Decal design is interchangeable
- Software programme enables functional interchangeability
- Can be used in any situation
 - Limited to 3 questions with 2 options per question

Possible uses

- Rabies vaccination campaigns
- Post-vaccination surveys
- Sterilisation campaigns
- Basic KAP surveys
- Dog population estimates
- Healthcare facilities – wound category information
- Other diseases/other uses non-rabies related

Basic Pilot Test

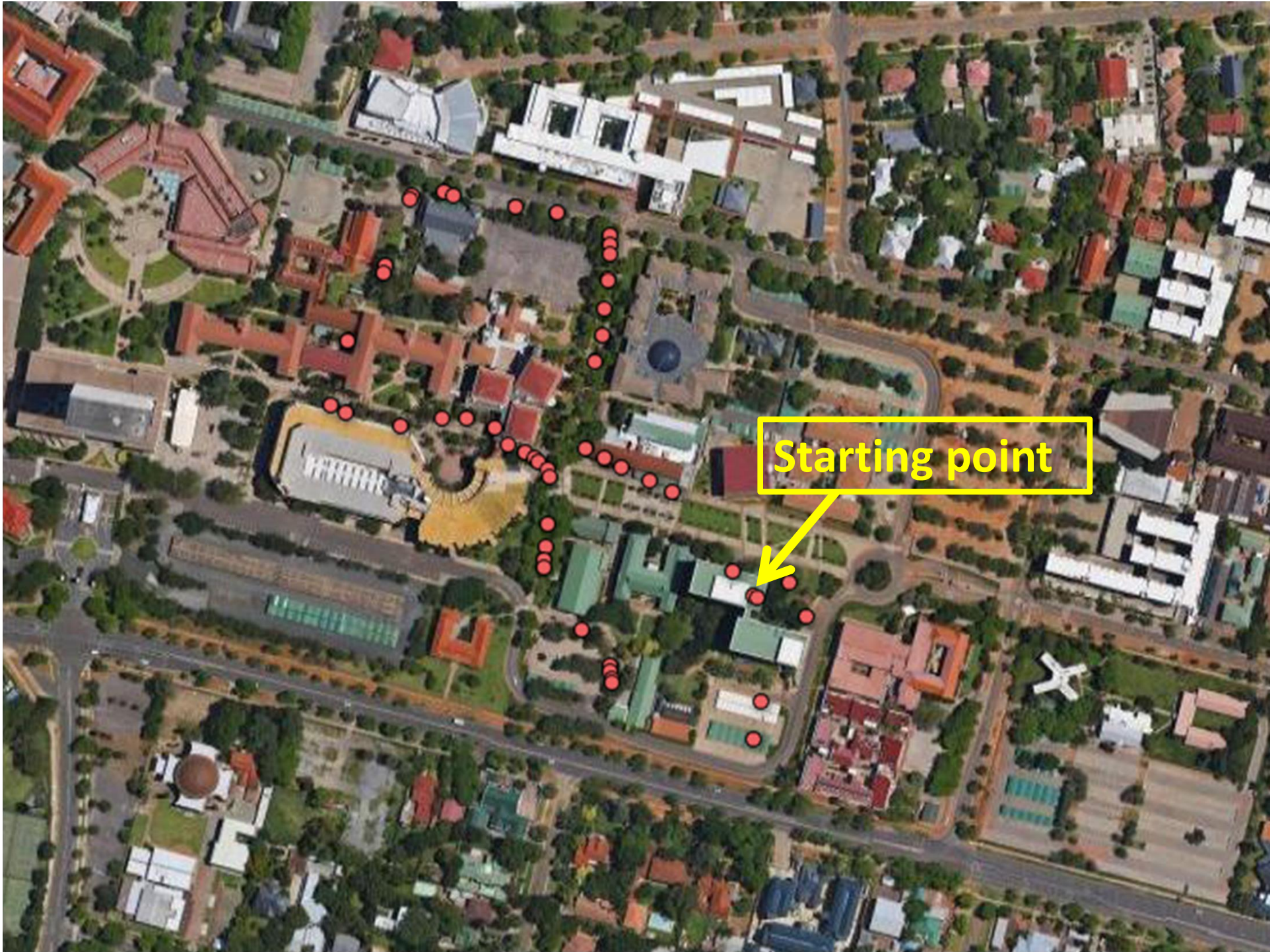
South Africa

Data analyses

- Information provided by software:

Species	Adult	Juvenile	Male	Female	Total
Dogs	12	10	9	13	22
Cats	14	15	19	10	29

- Software provides automatic breakdown of species, sex and age



Starting point

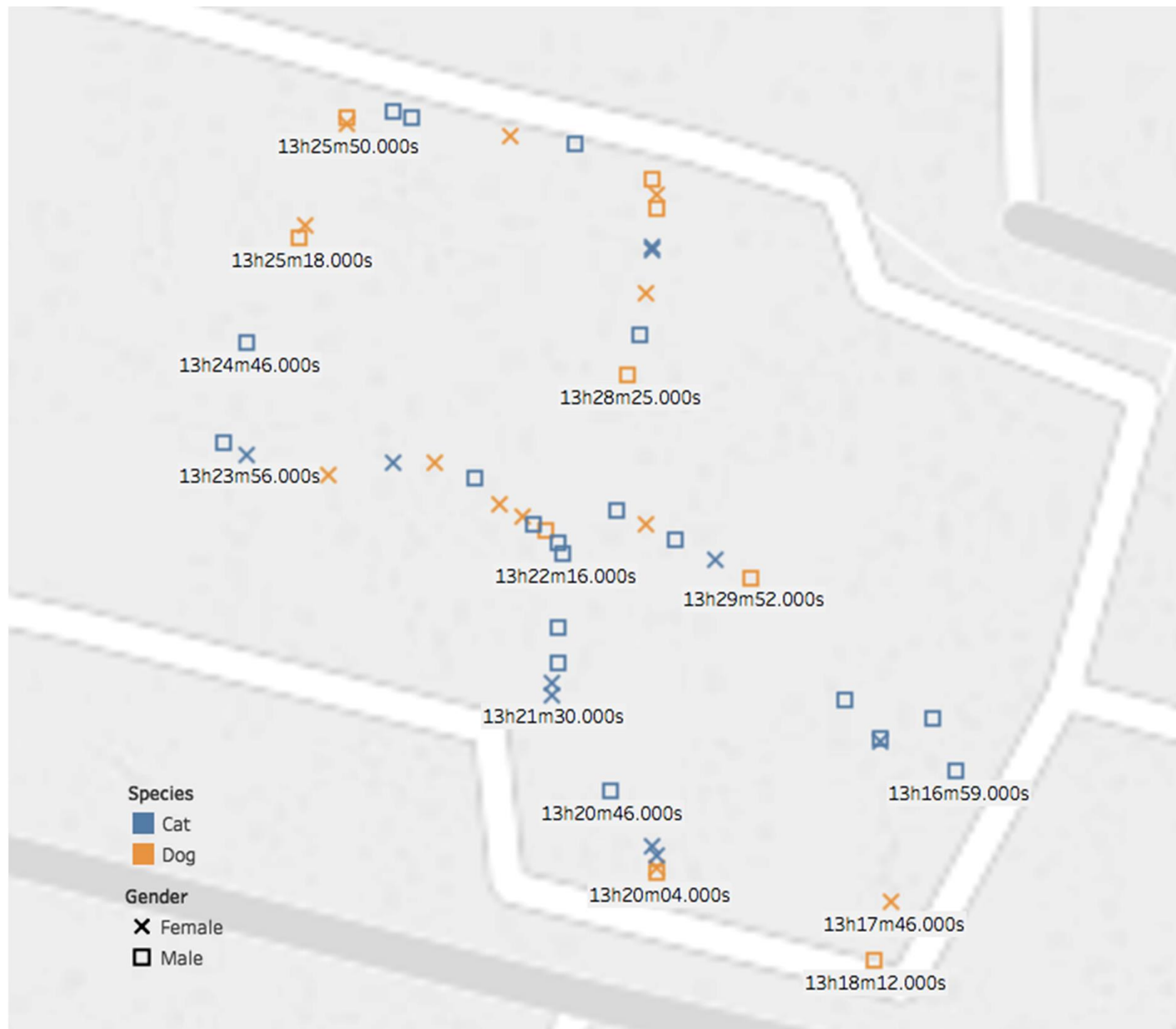




High GPS resolution



End point



Static point vaccination campaign

Zanzibar

Vaccinated population

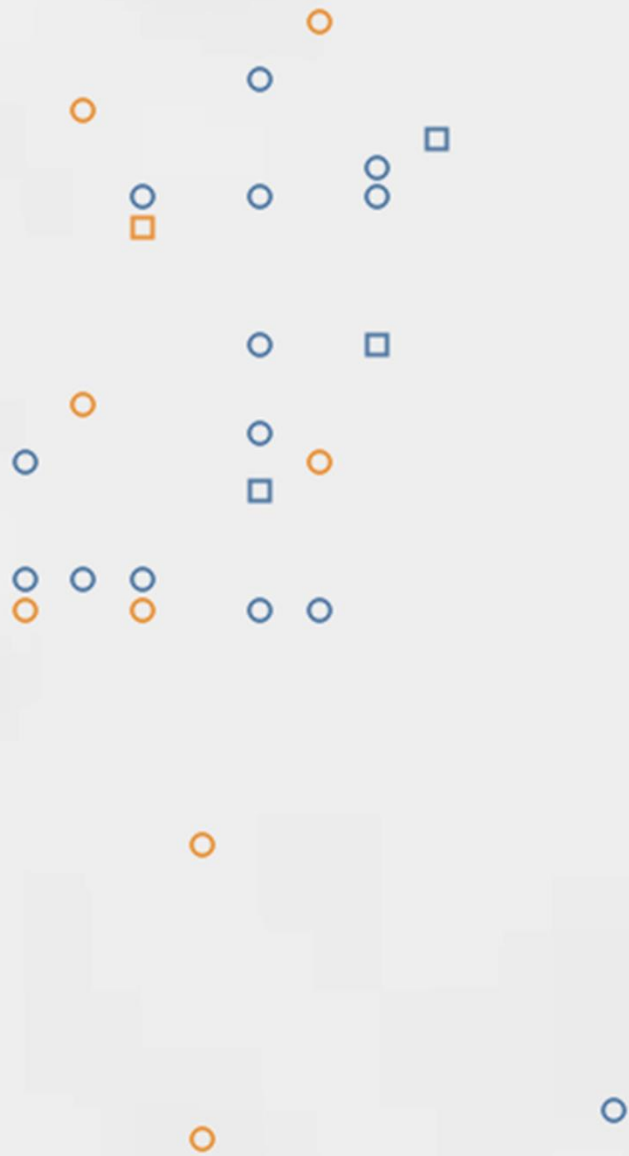
- Only dogs were vaccinated on the day

Total	Male	Female	Adult	Juvenile
27	10	17	22	5



Gender
■ Female
■ Male

Age
○ Adult
□ Juvenile



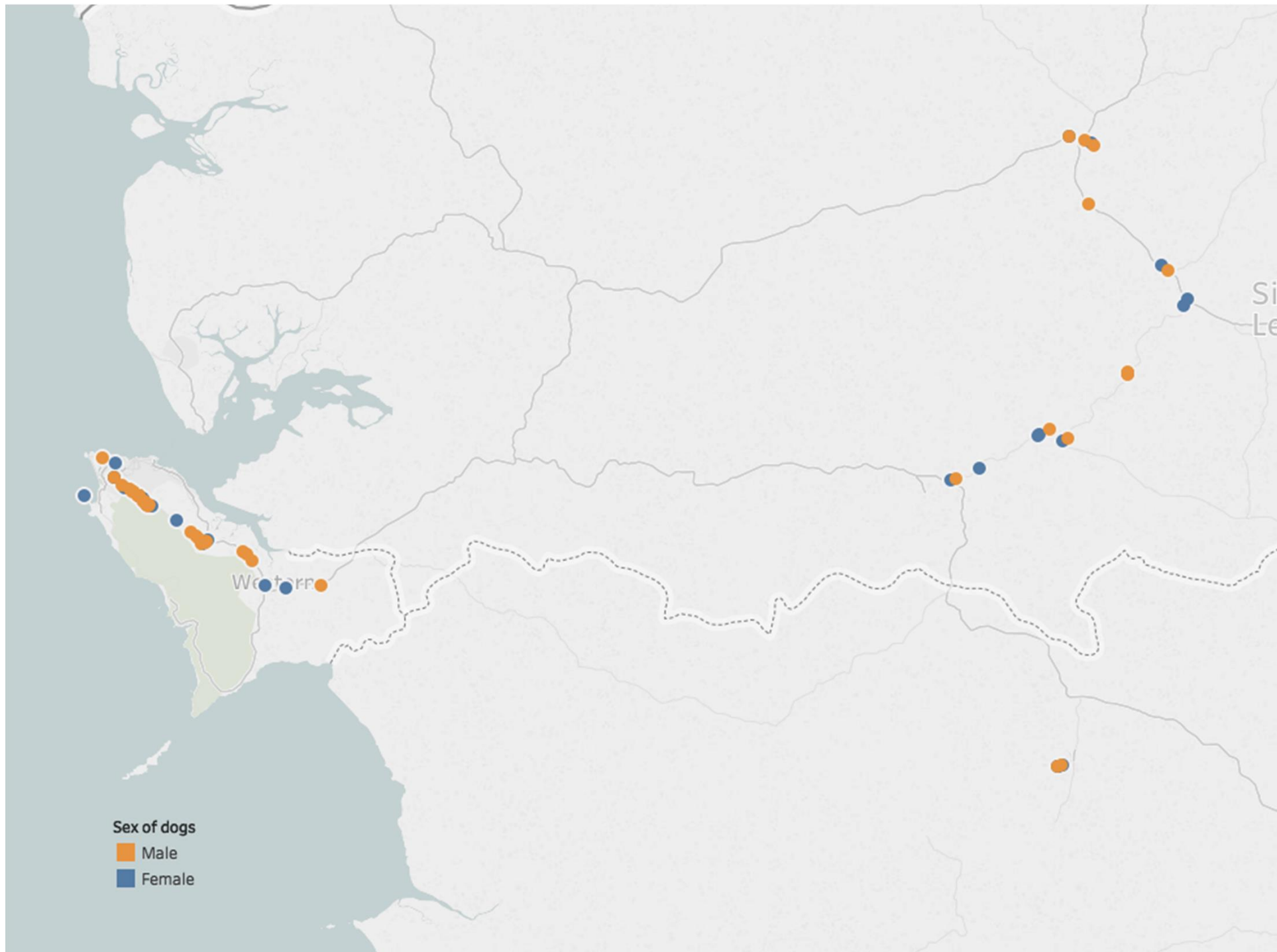
Driving transect

Sierra Leone

Counted population

- Only dogs were counted on the day

Total	Male	Female	Adult	Juvenile
75	45	30	70	5



Price and warranty

- **USD 200** per unit
 - Cheaper than a smartphone
- 1 year carry-in warranty on device – free repair/replacement (T's & C's)
- Software support provided