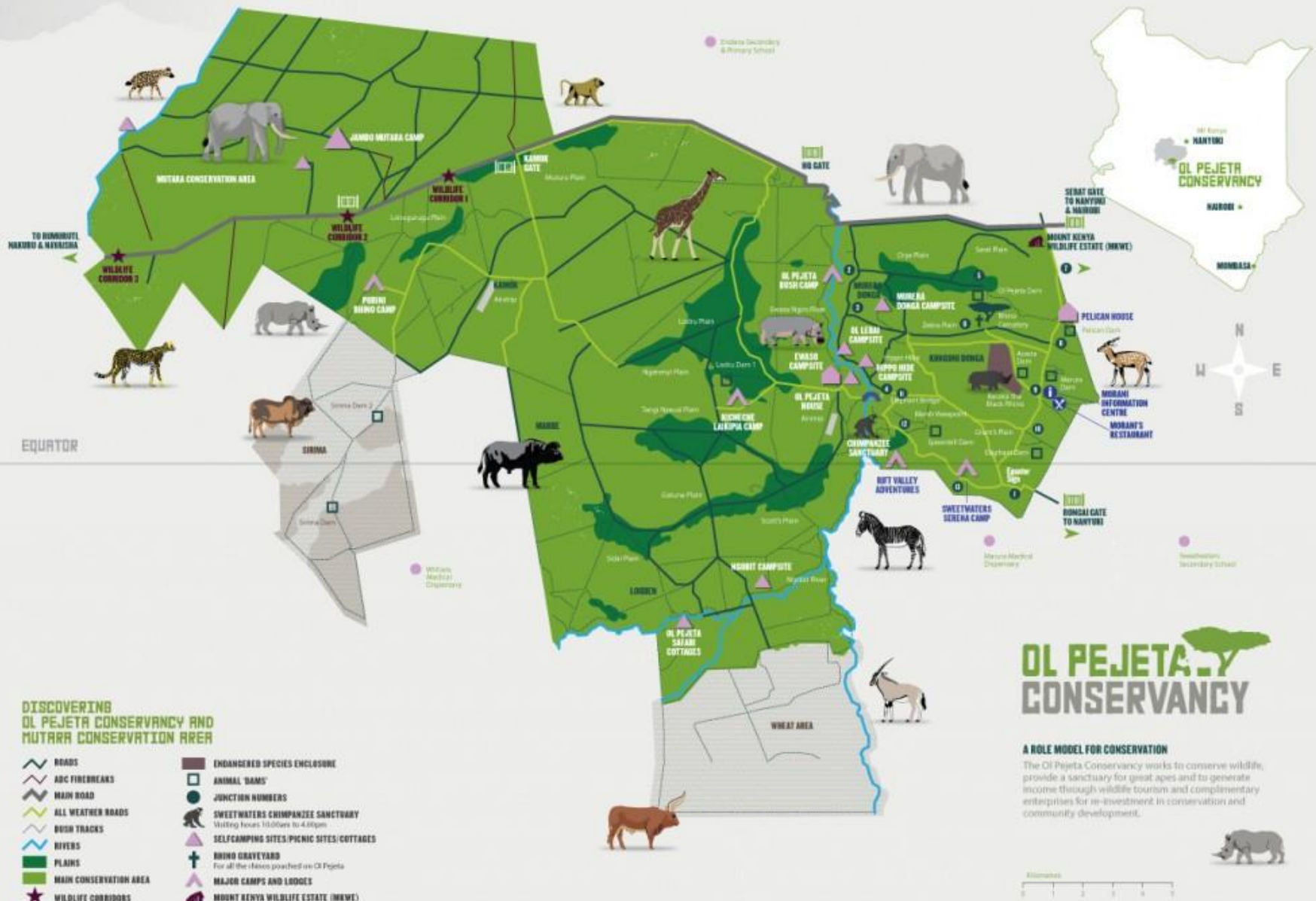


# CONSERVATION TECHNOLOGY



[www.olpejetaconservancy.org](http://www.olpejetaconservancy.org)

**William Njoroge - Head of Technology**



**DISCOVERING OL PEJETA CONSERVANCY AND MUTARA CONSERVATION AREA**

- |                        |  |
|------------------------|--|
| ROADS                  | ENDANGERED SPECIES ENCLOSURE   |
| ABC FIREBREAKS         | ANIMAL DAMS  |
| MAIN ROAD              | JUNCTION NUMBERS   |
| ALL WEATHER ROADS      | SWEETWATERS CHIMPANZEE SANCTUARY<br>Visiting hours 10:00am to 4:00pm |
| BUSH TRACKS            | SELF-CAMPING SITES/PICNIC SITES/COTTAGES                             |
| RIVERS                 | RHINO GRAVEYARD<br>For all the rhinos poached on Ol Pejeta           |
| PLAINS                 | MAJOR CAMPS AND LODGES   |
| MAIN CONSERVATION AREA | MOUNT KENYA WILDLIFE ESTATE (MKWE)                                   |
| WILDLIFE CORRIDORS     |  |

**OL PEJETA CONSERVANCY**

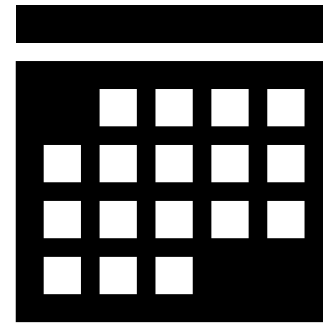
**A ROLE MODEL FOR CONSERVATION**  
 The Ol Pejeta Conservancy works to conserve wildlife, provide a sanctuary for great apes and to generate income through wildlife tourism and complementary enterprises for re-investment in conservation and community development.



# ENTERPRISE SYSTEMS



SunSystems



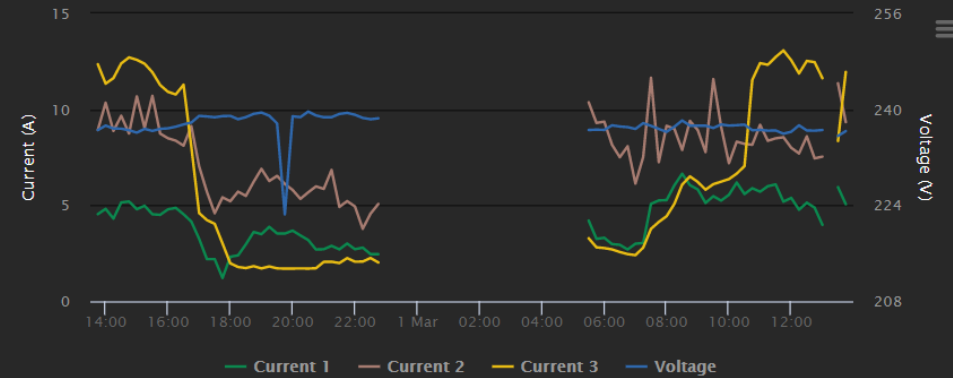
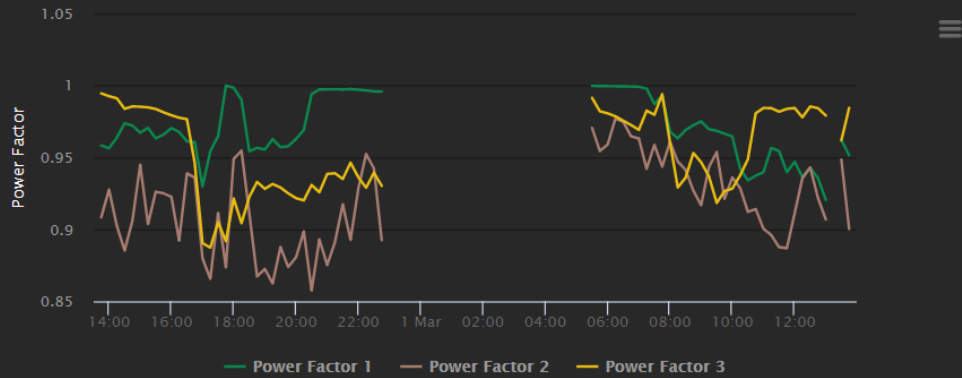
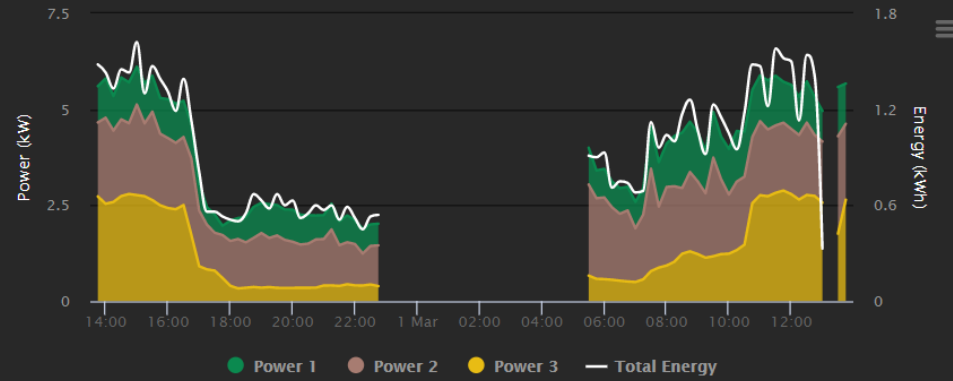
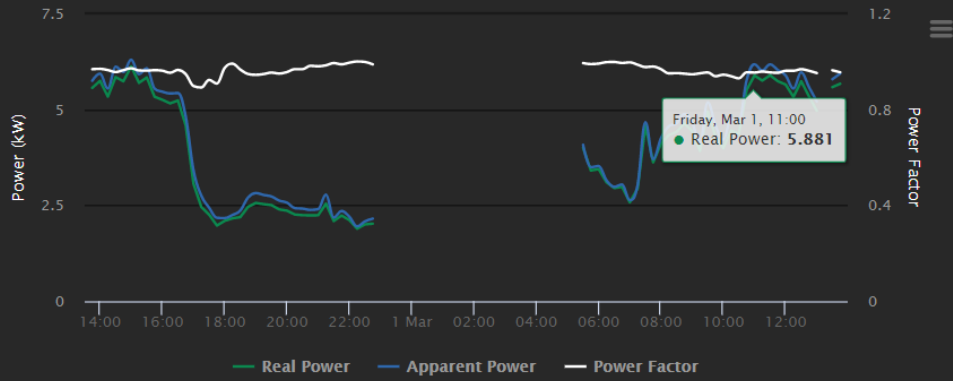
Reservations  
& Ticketing  
System



# SOLARIZATION



# IOT FOR ENERGY



# CONSERVATION TECHNOLOGY LAB

To become a world-leading **collaborative** hub for testing and developing technologies and **associated best practices** that accelerates learning and embraces accessible, **scalable** and **conservation-led** solutions which improve biodiversity conservation and human well-being, locally and globally



# MONITORING

### MY MARTIN-PROTECT DEVICES

Search... Showing entries: 2/2

Name	Power	Signal	Last mes.	RSSI	SNR	Rep	Ver.	Bat.	T°
209D6C	ON	📶	19-02-21 12:43	-144	7.53	1	1.0	31%	🌡️
209D66	ON	📶	19-02-21 12:43	-138	13.49	1	1.0	31%	🌡️

Show 20 Foxtrackr per page

First < 1 > Last

### MY MARTIN: 209D6C

CHANGE MARTIN'S NAME

**ON**  
Fence is powered on

**31%**  
Martin powering is good to care on your fence

#### SET MARTIN LOCATION

Map Satellite

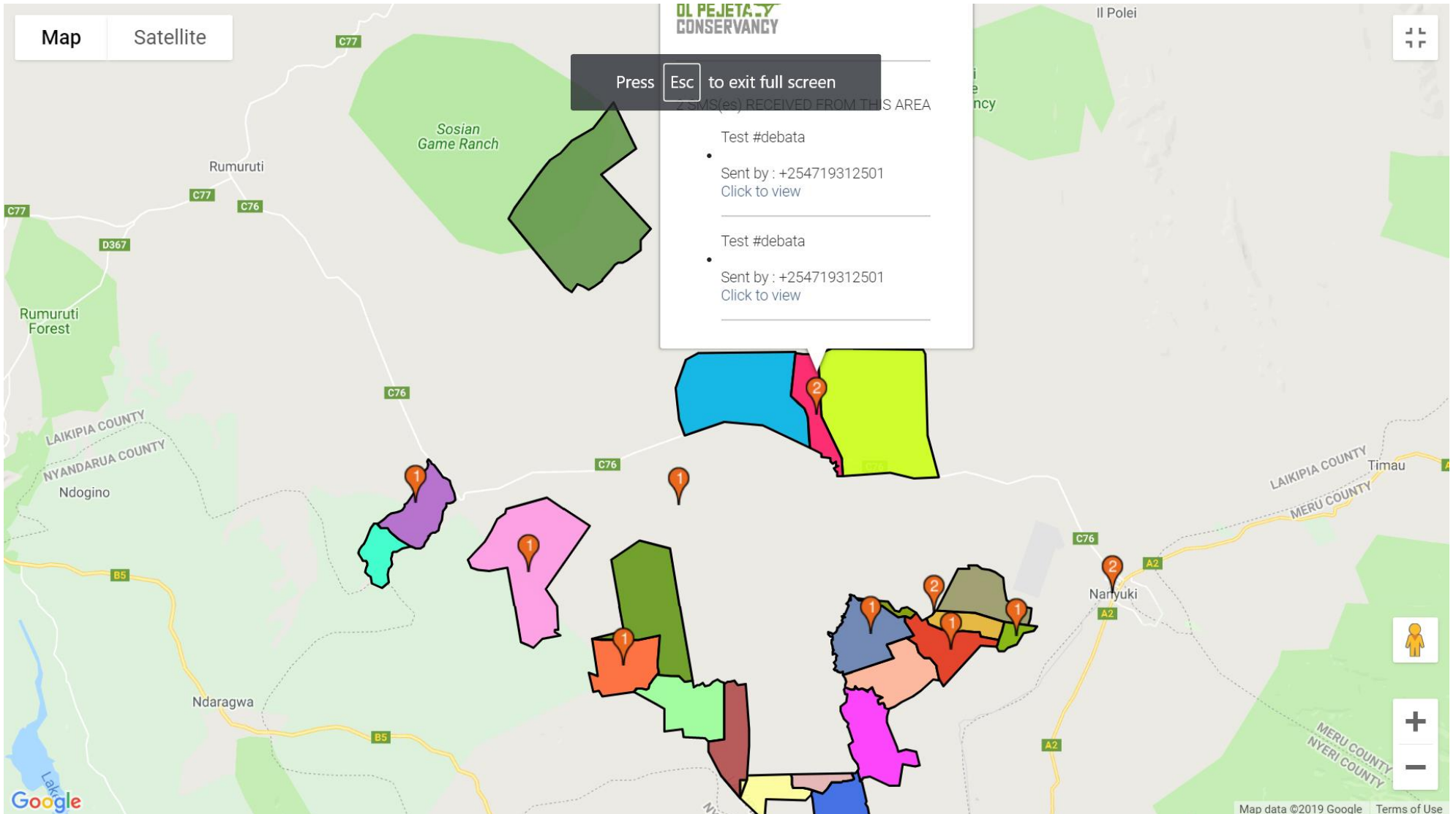
Map data ©2019 Google Terms of Use

POWERING HISTORY



The dashboard displays a grid of camera feeds from Ol Pejeta Conservancy. The feeds are arranged in two rows and three columns. The top row shows three feeds: 'Ol Pejeta Cam 2 - OP002' (2 hours ago), 'Ol Pejeta Cam 3 - OP003' (4 hours ago), and 'Ol Pejeta Cam 2 - OP002' (10 hours ago). The bottom row shows three more feeds, each with a yellow bounding box around a detected object. The feeds show various views of the conservancy, including a dirt road, a field, and a fence line.

# COMMUNITY COMMUNICATION

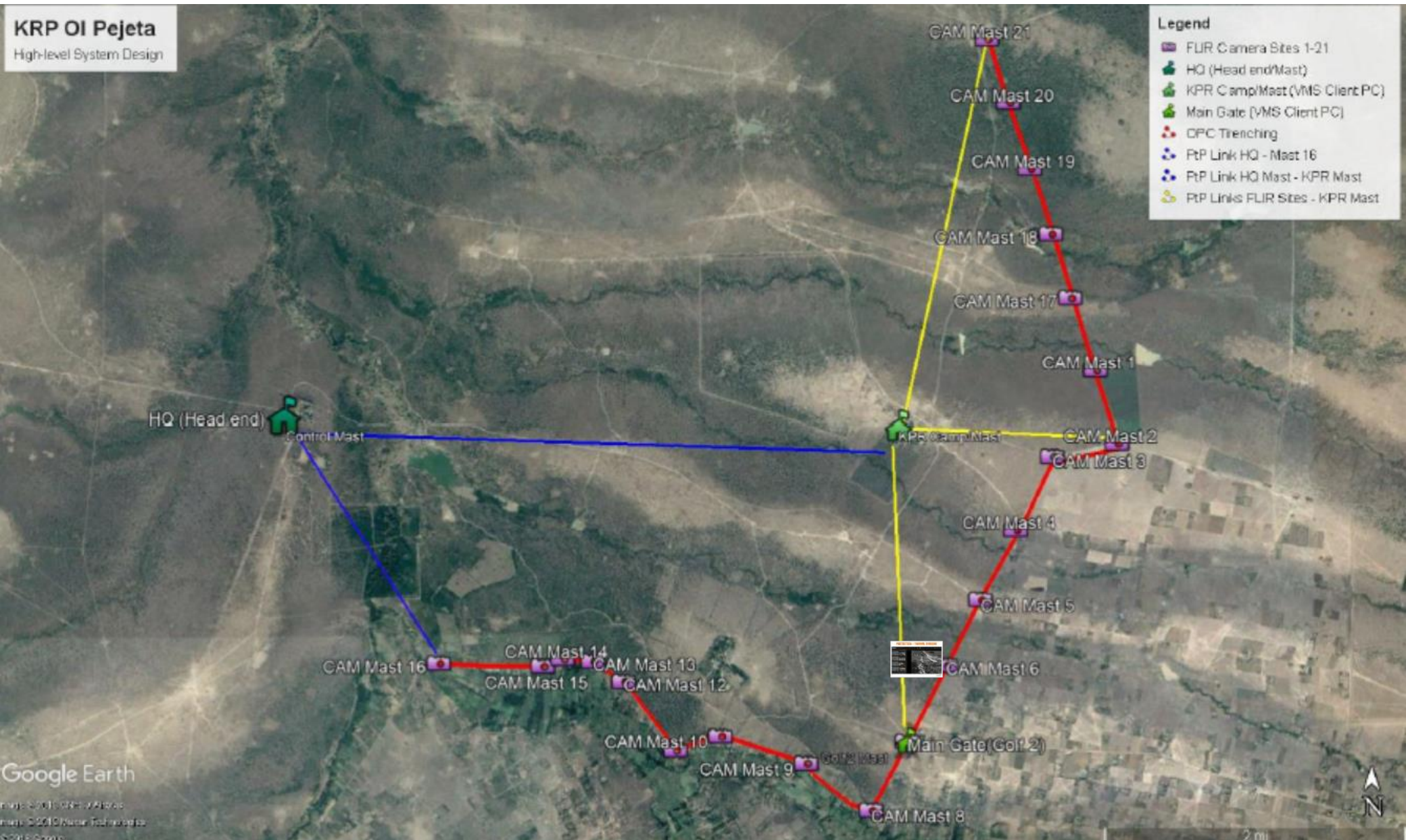




# PROTECTION

KRP OI Pejeta

High-level System Design



# PROTECTION - THERMAL IMAGING

**FLIR** Mon 24 Feb 04:36PM

Live Playback

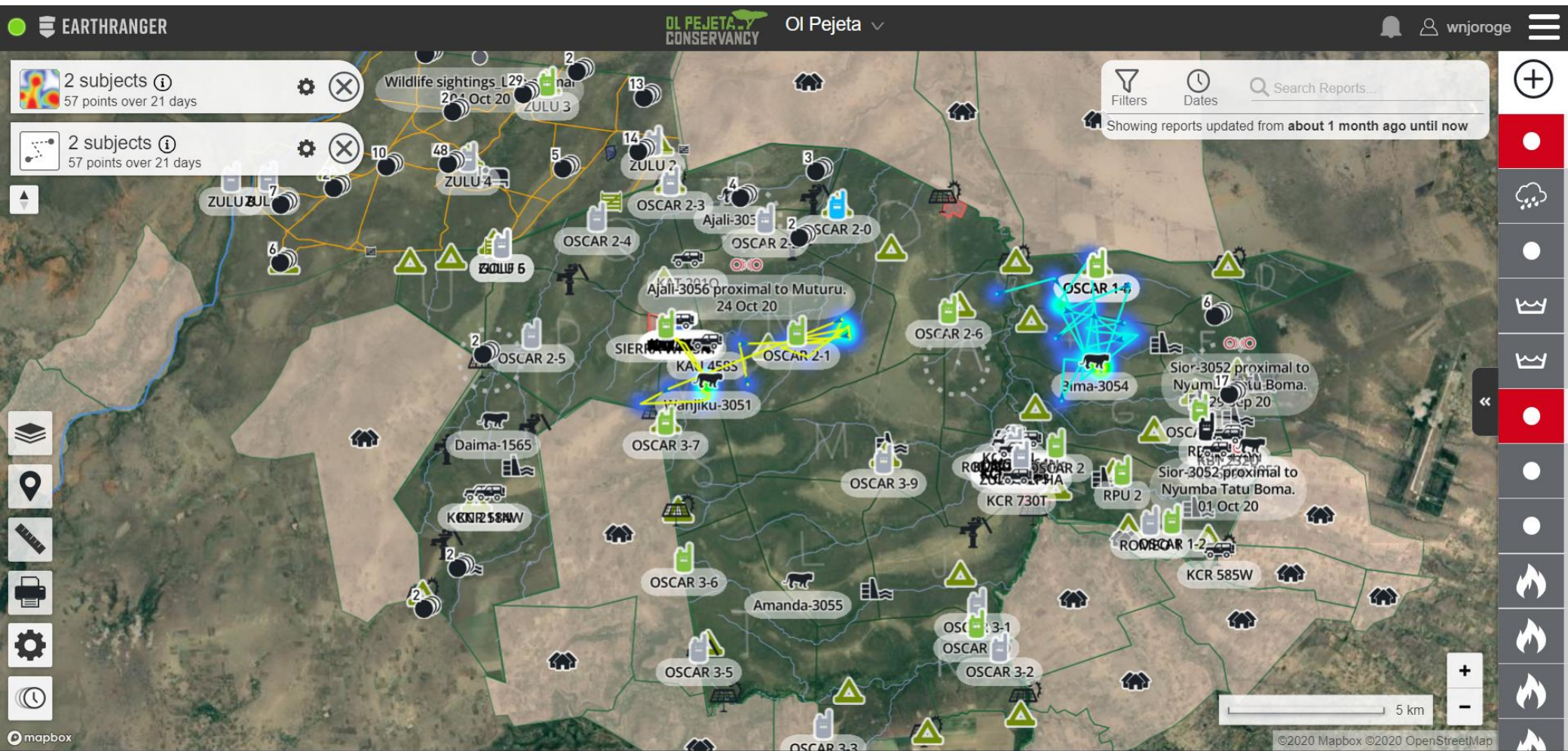
System Ad

Search Filter

- 16 Dome - (172.16.2.21)
- 16 FC-ID (172.16.2.22)
- 2 Dome (172.16.2.21)
- 2 FC-ID (172.16.2.22)
- 21 Dome (172.16.2.71)
- 21 FC-ID (172.16.2.72)
- 7 Dome (172.16.2.71)
- 7 FC-ID (172.16.2.72)

7 FC-ID (172.16.2.72)

# VISUALIZATION & REPORTING



# LOOKING AHEAD

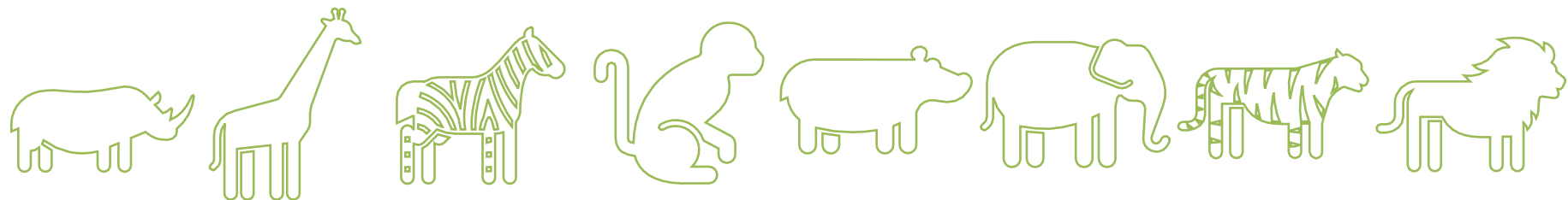
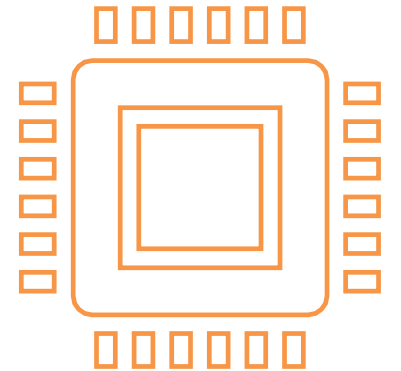
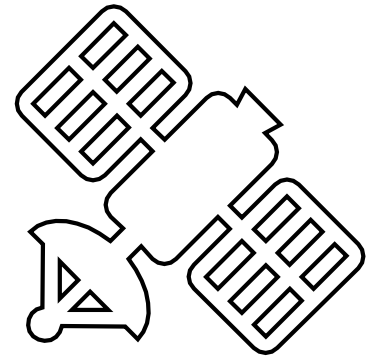
## Enhancing the Conservation Technology Lab to be a Centre of Excellence for Conservation Technology



# CENTRE OF EXCELLENCE

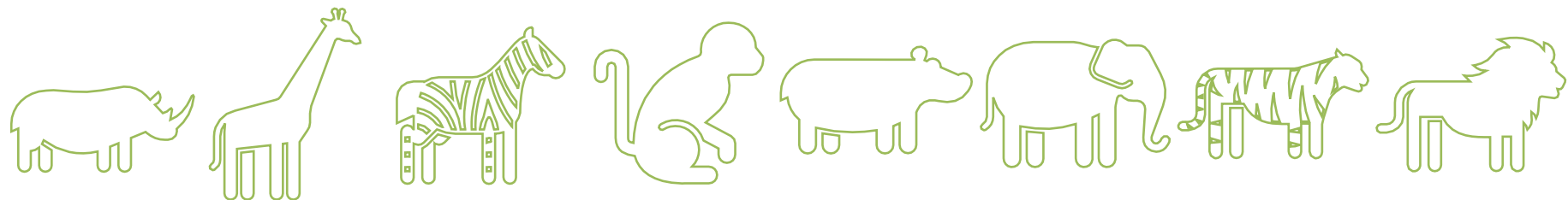
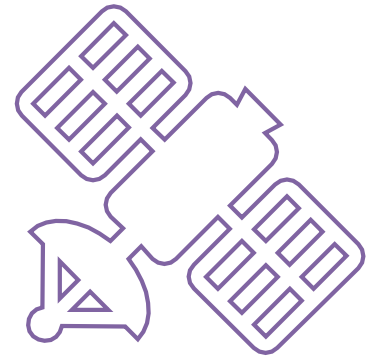
- **Research and Test site**

- Tech providers
- Conservation practitioners
- Academia



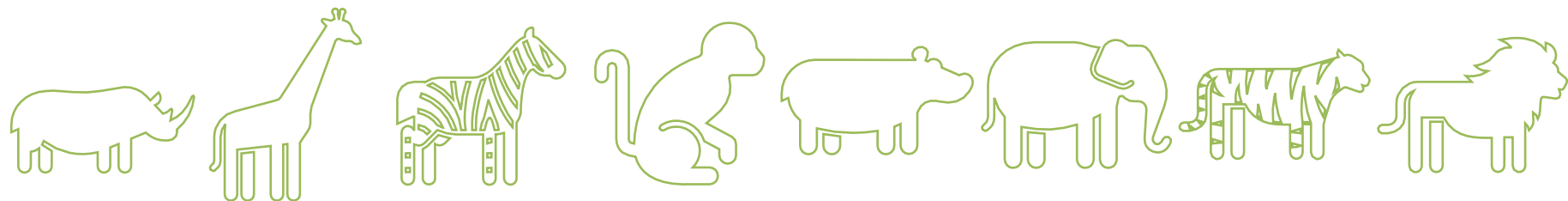
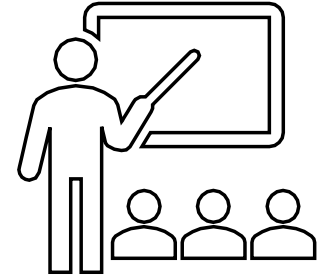
# CENTRE OF EXCELLENCE

- Research and Test site
- **Engaging the Tech Sector**
  - Linking conservation organizations with skilled professionals in tech
  - Organizing and hosting hackathons



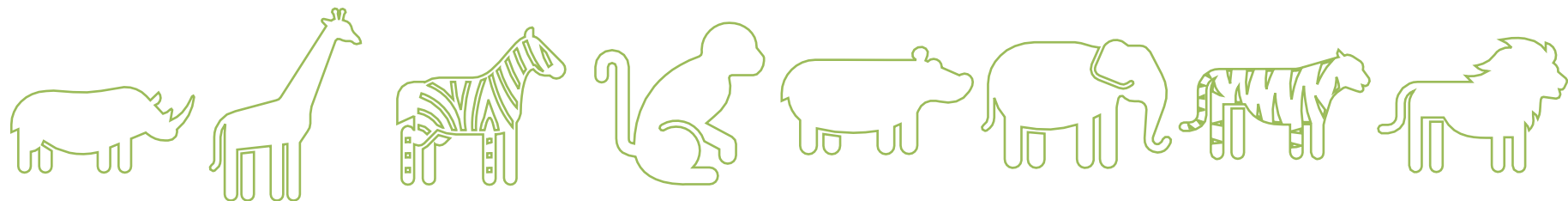
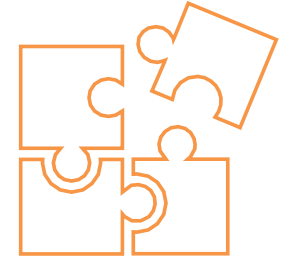
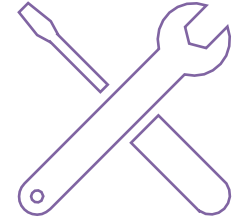
# CENTRE OF EXCELLENCE

- Research and Test site
- Engaging the Tech Sector
- **Training**
  - Specified by conservation organization
  - Based on identified needs



# CENTRE OF EXCELLENCE

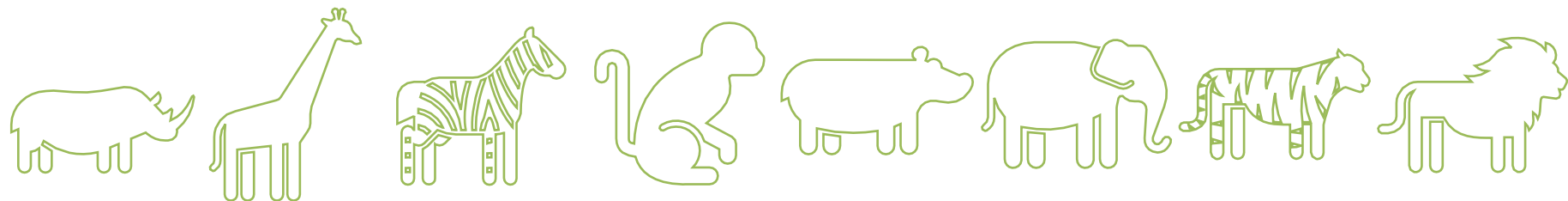
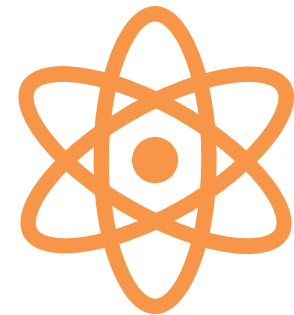
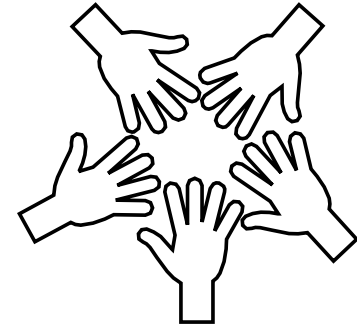
- Research and Test site
- Engaging the Tech Sector
- Training
- **Technology advice & Support**
  - Setting up solutions and ongoing support
  - Providing advice on solution selection & considerations





# CENTRE OF EXCELLENCE

- Research and Test site
- Engaging the Tech Sector
- Training
- Technology advice & Support
- **Knowledge Sharing**
  - Workshops / events
  - Symposiums / Conferences



**THANK YOU**

