

Tanzania FMD situation update

TAFS Conference:

“Strengthening FMD control capacity and enhance resilience”

Dr. Benezeth L Malinda

Director of Veterinary Services

MINISTRY OF LIVESTOCK AND FISHERIES, TANZANIA

3rd and 4th of March 2026, Cape Town

Current situation

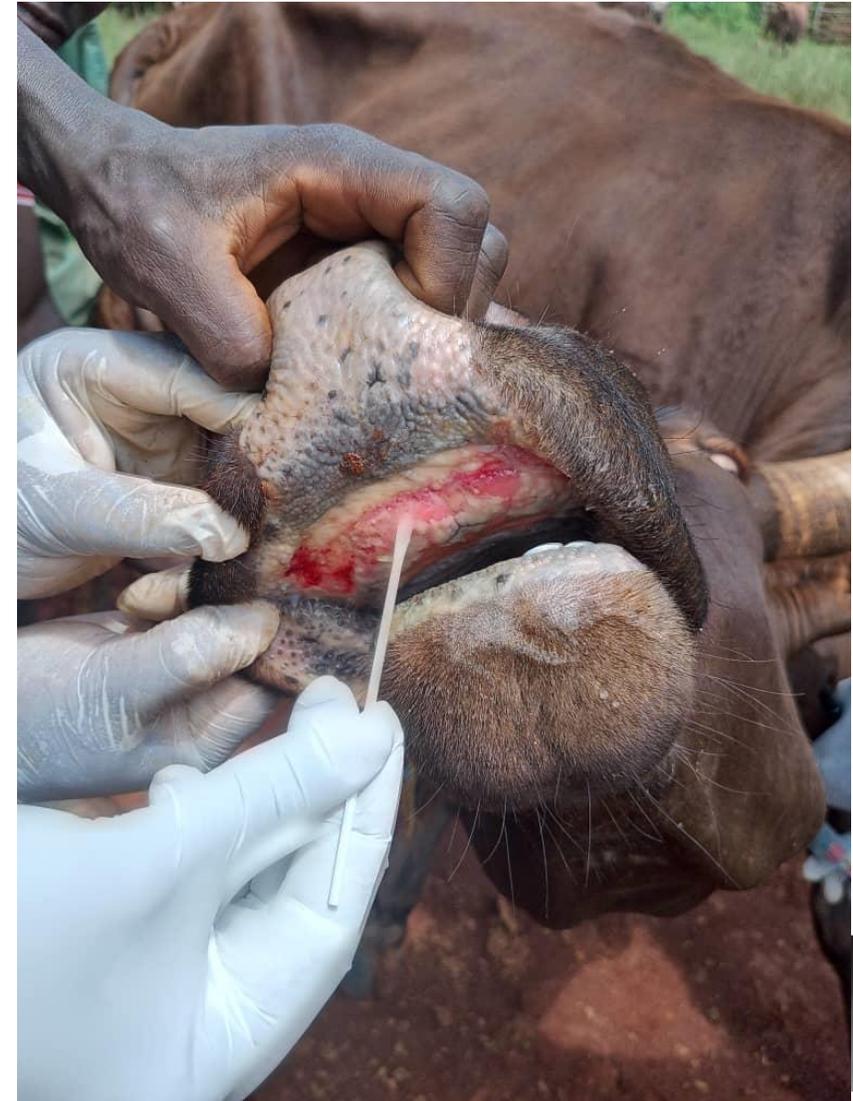
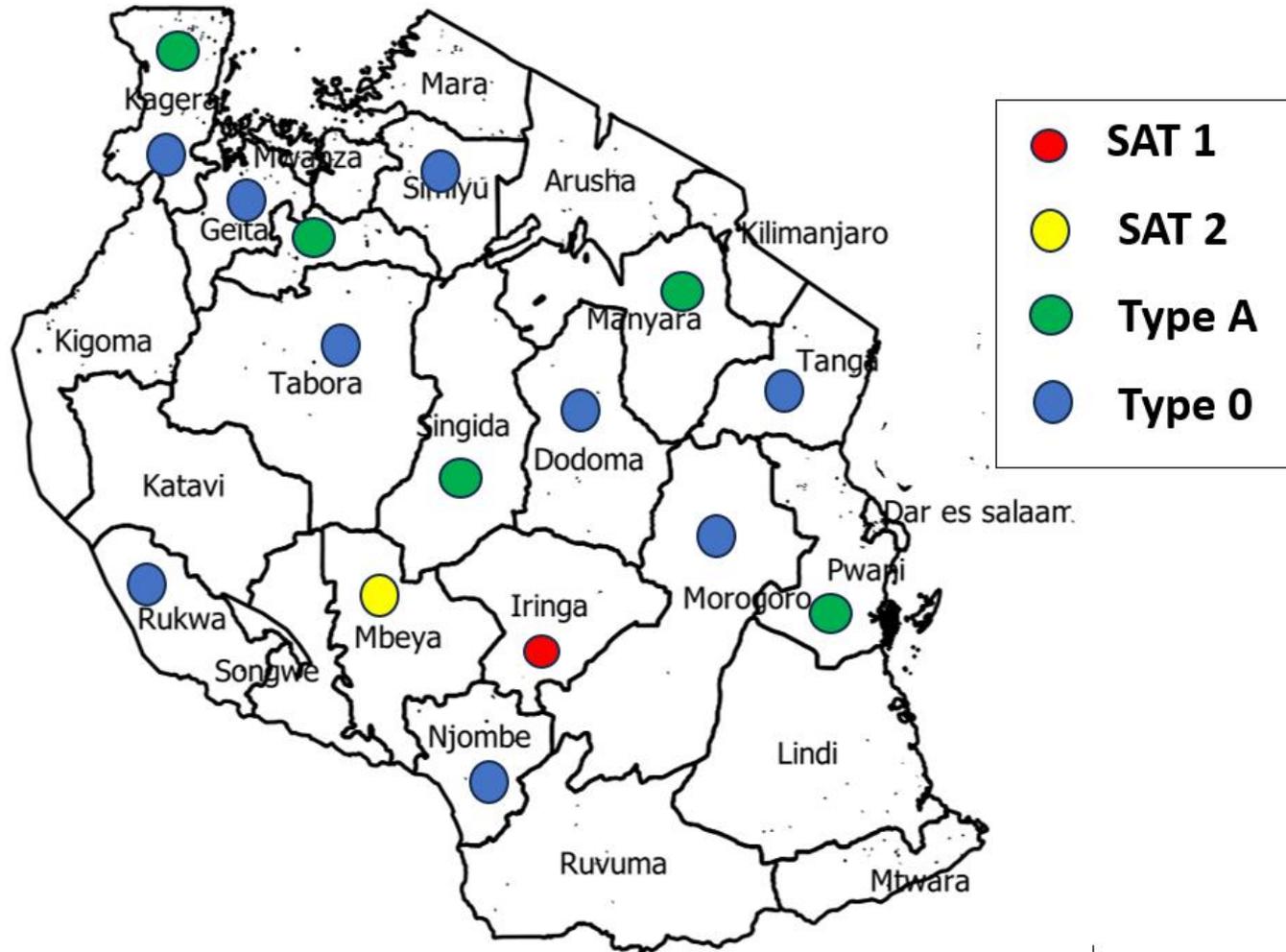
Guidance:

- Short update on the current situation
- Actual measures in place

FMD Historical Perspective in Tanzania

- First reported in 1927
- Since then there was frequent outbreaks
- Outbreaks linked to seasonal livestock movements and wildlife interaction
- Was occurring in multiple regions annually
- Major serotypes: O, A, SAT1, SAT2

Past FMDV Serotypes Distribution



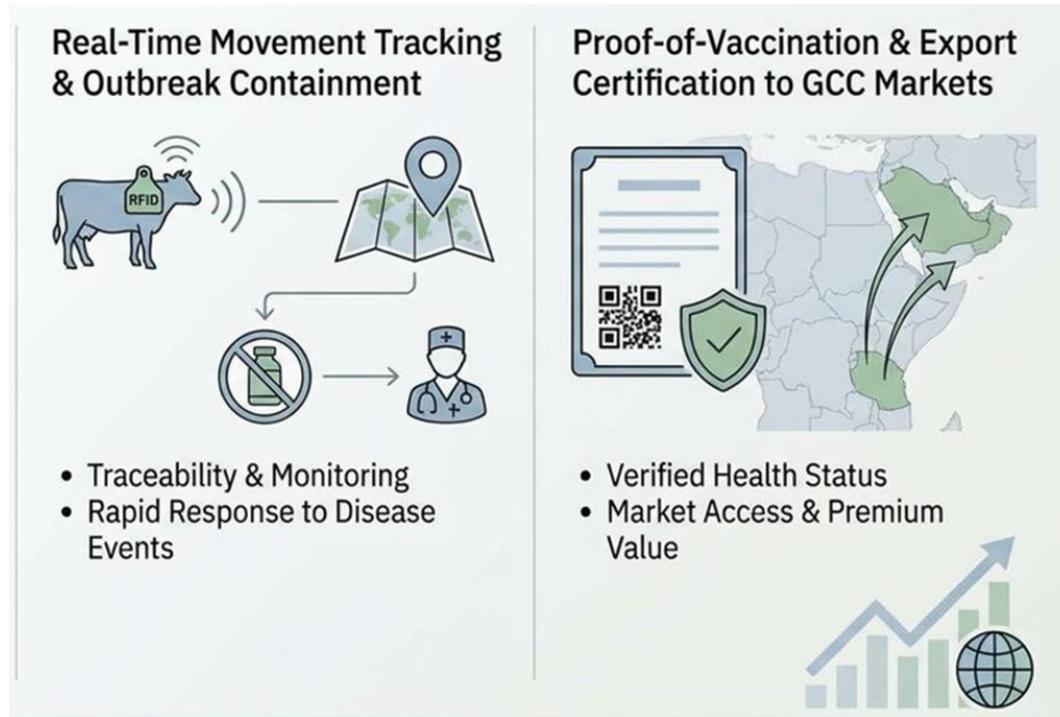
Drivers of Spread

- Improper Identification and traceability system resulted into challenges in livestock:
 - movement control
 - Surveillance
 - Limited vaccination coverage
- Wildlife–livestock interaction
 - Wildlife can act as virus reservoirs
 - Shared grazing areas increase risk

Tanzania Innovative Technologies for FMD Control

- Improved Identification, Traceability, Surveillance and Rapid Diagnosis
 - Barcoded ear tags
 - Nanopore technology - MinION rapid diagnostics and sequencing
 - Drone technology for electronic fencing of FMD-free compartments

Barcoded Ear Tags for Animal Identification



- Unique barcode ID for each animal
- Enables accurate identification and record keeping
- Supports livestock registration systems
- Helps track animal ownership and movement

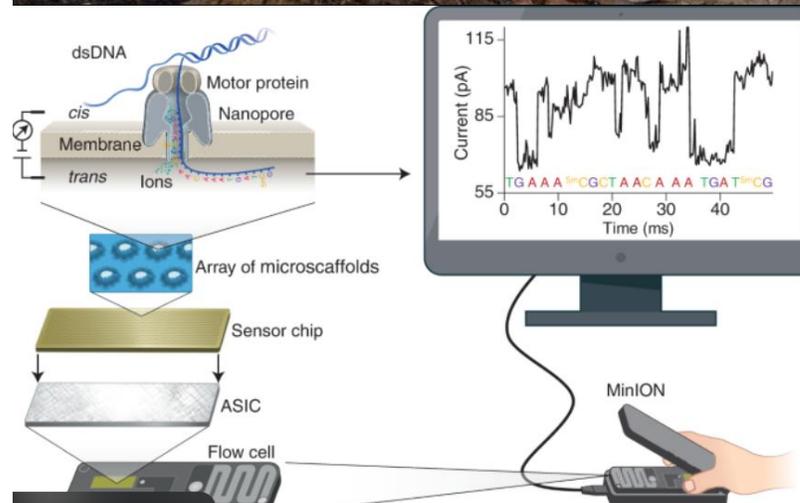
Traceability Improvements

- Data captured and sent to database
- Improves surveillance and response
- Tracks animal movement between farms and markets
- Rapid response to outbreaks through source tracking
- Strengthens disease surveillance systems
- Improves control and containment of FMD spread

Use of Nanopore technology using MinION for Rapid Diagnosis & Sequencing



- Portable DNA/RNA sequencing device
- Enables rapid field detection of FMD virus
- Supports identification of circulating strains
- Improves early warning and response systems

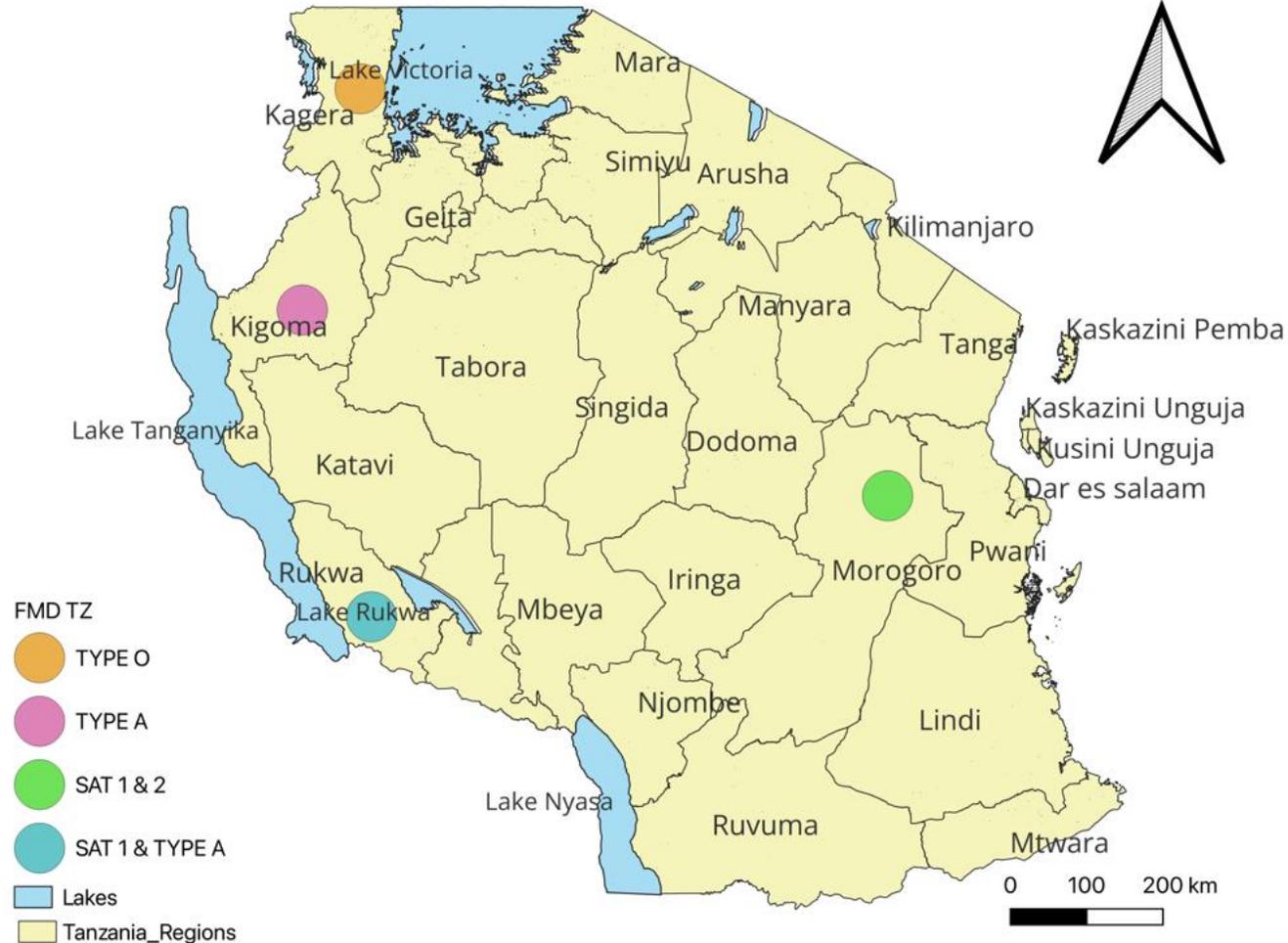


Drone Technology for Electronic Fencing



- Supports mapping of FMD-free compartments
- Helps monitor livestock movement boundaries
- Enables digital/electronic fencing strategies
- Strengthens compartmentalization and disease prevention

Success on FMD control



- The disease is now in stable state
- Limited into four regions only
- Improved livestock trade in Tanzania
- Increase in livestock production investment

National Control Challenges

- Limited vaccine availability
- Limited FMD active Surveillance in wildlife areas
- Financial constraints

Government & Regional Efforts

- Vaccination campaigns
- Movement control measures
- Surveillance strengthening
- Collaboration with partners like TAFS, EU-FMD, FAO and WOAHA

Key Strategic Insights

- Expand vaccination coverage
- Strengthen surveillance systems
- Improve farmer education
- Invest in veterinary services
- Promote research

THANK YOU