

Matolo Nyamai

GIS/Soil & Water Engineering

Kenya Agricultural and Livestock research
Organization (KALRO)

Research, Capacity Development

AgriGIS Workshop and Think Tank meetings, Nairobi, Kenya

KALRO Background

- A corporate body created under the Kenya Agricultural and Livestock Research Act of 2013 to establish suitable legal and institutional framework for coordination of agricultural research in Kenya.
- Composed of 16 semi-autonomous institutes established under Act. E.g., Food Crops Research Institute (FCRI)

KALRO Goals

1. Promote, streamline, co-ordinate and regulate research in crops, livestock, genetic resources and biotechnology in Kenya.
2. Expedite equitable access to research information, resources and technology and promote the application of research findings and technology in the field of agriculture.

GIS at the FCRI Kabete Centre

- GIS laboratory established in 1991
- Only GIS laboratory within KALRO
- Present capacity
 - 5 trained officers (1 PhD, 2 MSc, 1 BSc, 1 Diploma) and 3 Interns
 - 5 work stations , server, A0 plotter, A0 drum scanner
 - ArcGIS, QGIS, ILWIS, SAGA

GIS at the FCRI Kabete Centre (Cont.)

- Role:
 - Support strategic agricultural research
 - Digitize, Document and store digital biophysical information and /or data about Kenya at various scales and detail
 - Provide biophysical information and /or data about Kenya at various scales and detail
 - Spatial Decision Support for Agricultural development at national, regional and local scales
 - Development of skills among university students through attachment programmes

Current work/research

- Applying GIS in agricultural research.
- Training university students on attachment in the use of Open Source GIS tools in agricultural research.
- Presently heading a McKnight-funded project whose aim is to develop capacity in the use of Open Source GIS in strategic agricultural research among university students and researchers in KALRO.

Contact info.

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