



THE ROLE OF OPEN SOURCE SOFTWARE AND OPEN DATA IN DEVELOPMENT OF THE COUNTRY

By OpenStreetMap Uganda



For Sustainable Development



OPEN SOURCE

SOFTWARE

DATA

- **HDX**
- **OpenStreetMap**

OPEN SOURCE TOOLS

- QGIS
- OpenDataKit
- Kobotoolbox
- QField

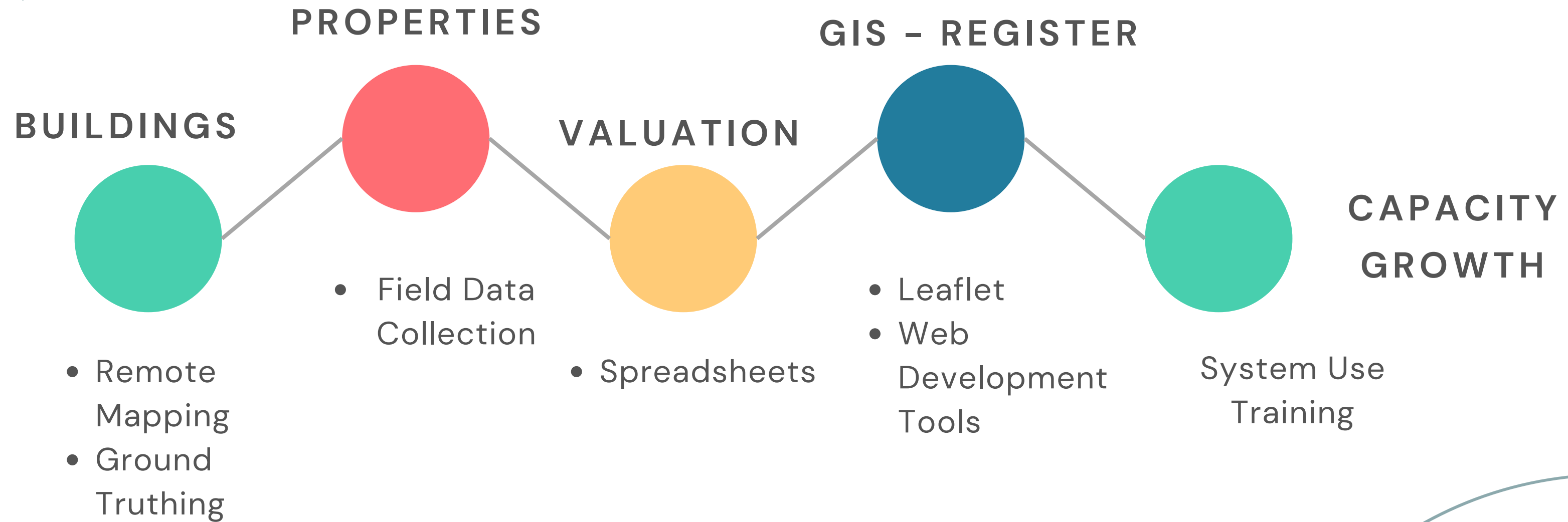


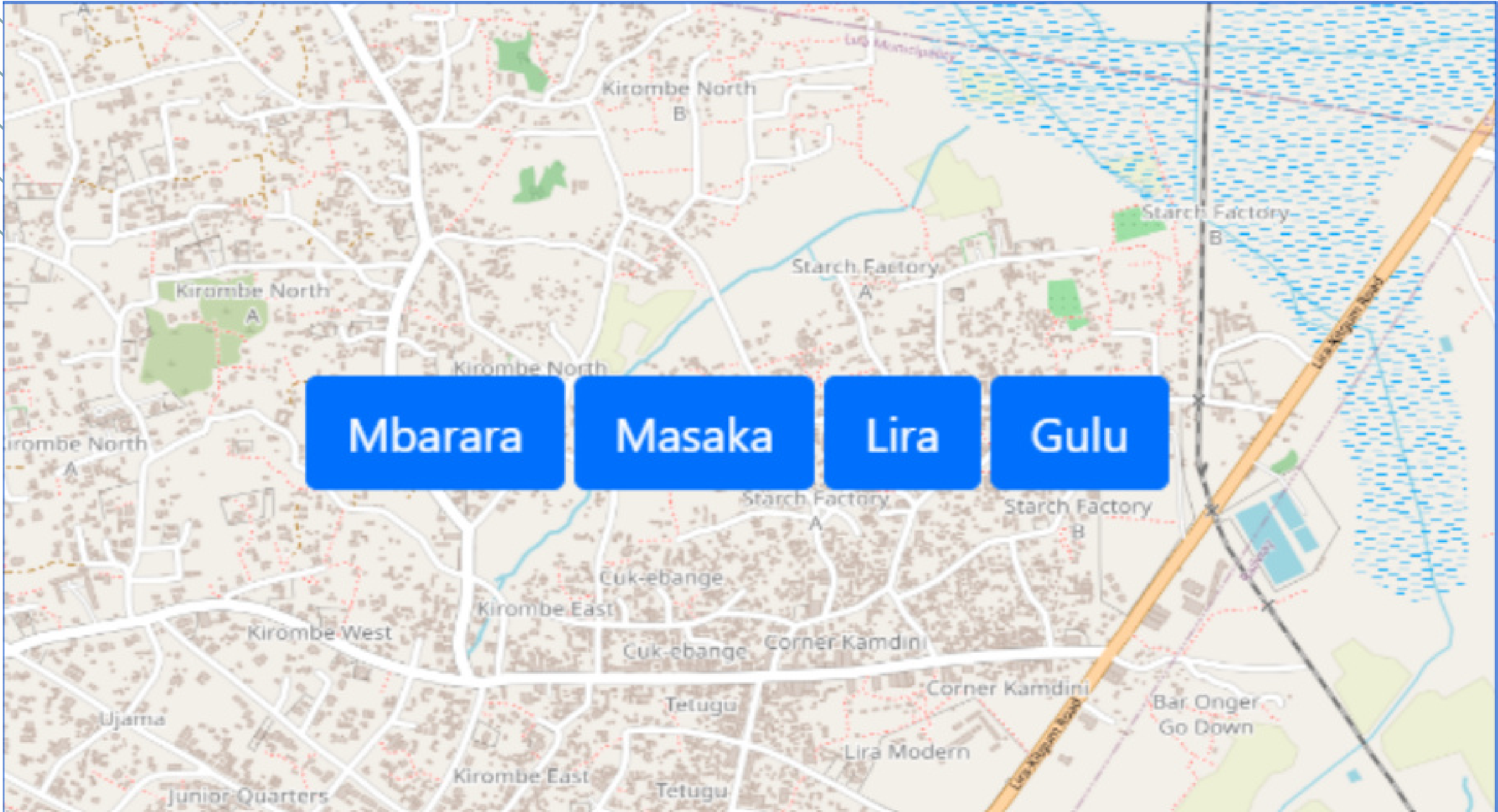


**"DOMMOESTIC
REVENUE
MOBILIZATION
4 DEVELOPMENT"**



DRM4D





Mbarara


Masaka

Lira


Gulu




DIVISIONS
4 7



BUILDINGS
12,846 8



PROPERTIES
9,810 9



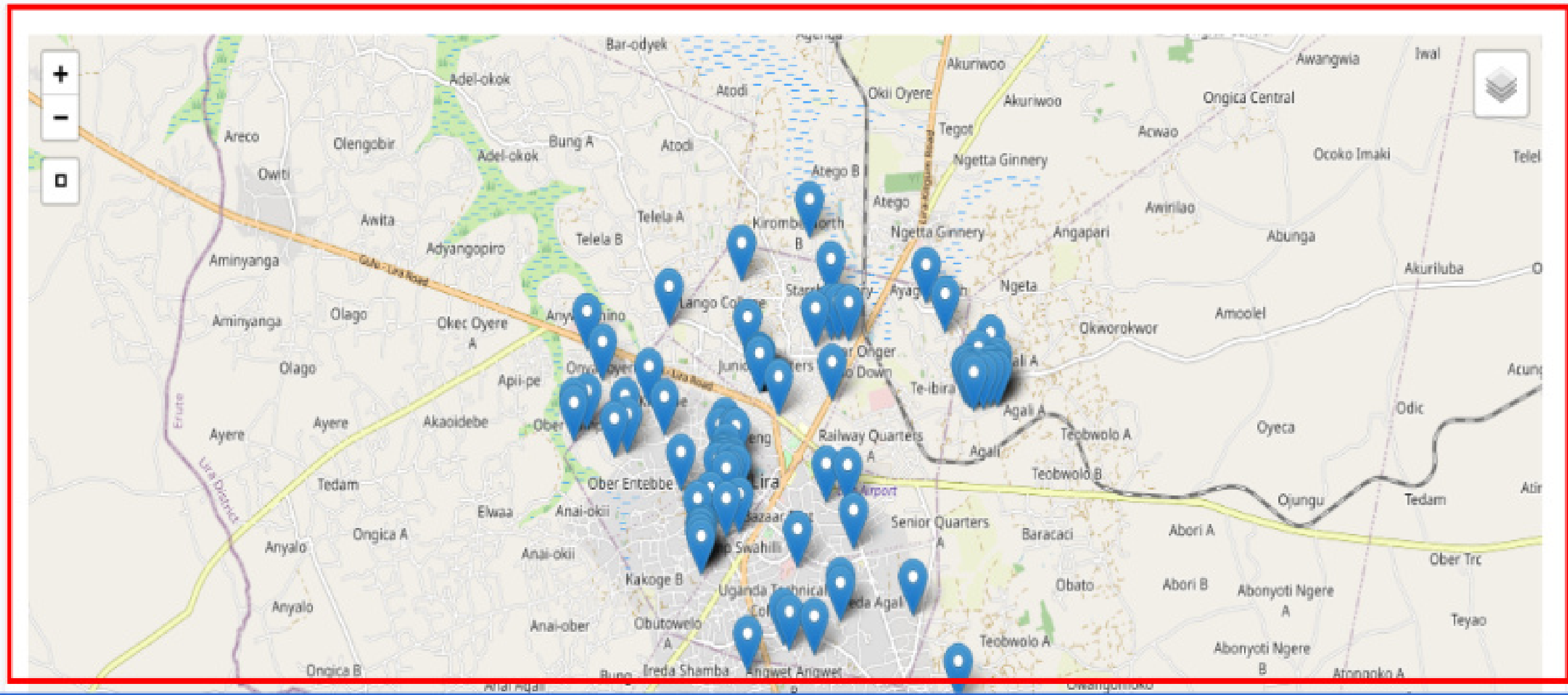
Dashboard

MENU

Properties 2

Buildings 3

Taxation 4



Dashboard Screen on GE-DPR



Buildings page Detailed

The screenshot displays a web interface for building management. On the left is a blue sidebar with the text 'DRM4D - LIRA' and a menu containing 'Dashboard', 'Properties', 'Buildings', and 'Taxation'. The main content area is divided into five sections, each highlighted with a red border and a black circle containing a number:

- 1. Building Owner:** Name: Ogwang S.p, Phone: 772463916, Email: None
- 2. Building Properties:** Roof Type: iron_sheets, Floor Finishes: None, Wall Finishes: None, Building Condition: old
- 3. Building Finances:** Tenant Rent: 10000, Number of Tenants: 1, Gross Value: 90000, Rateable Value: 67500
- 4. Building Media:** A photograph of a simple, single-story building with a corrugated metal roof and a person standing in front.
- 5. Location:** A map view showing the building's location in an urban area.

GE-DPR Buildings Detailed Screen



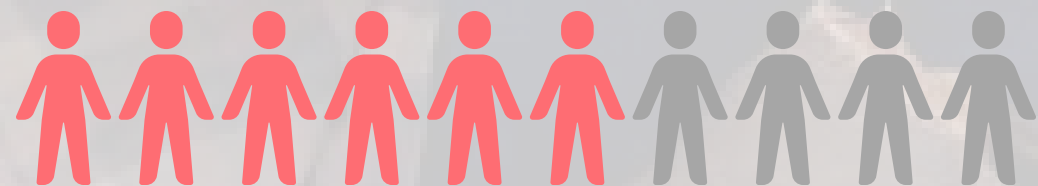


**"ELECTRICITY
DEMAND
ESTIMATION
FOR AGRICULTURE**



ENERGY - OPENSOURCE TOOLS APPLICATION

Reliable demand estimation is a key parameter to electrification planning as well as the prioritization and design of access programs to promote the productive use of energy (Banerjee et al, 2017).



- Irrigation and agro-processing.
- The opportunities and challenges

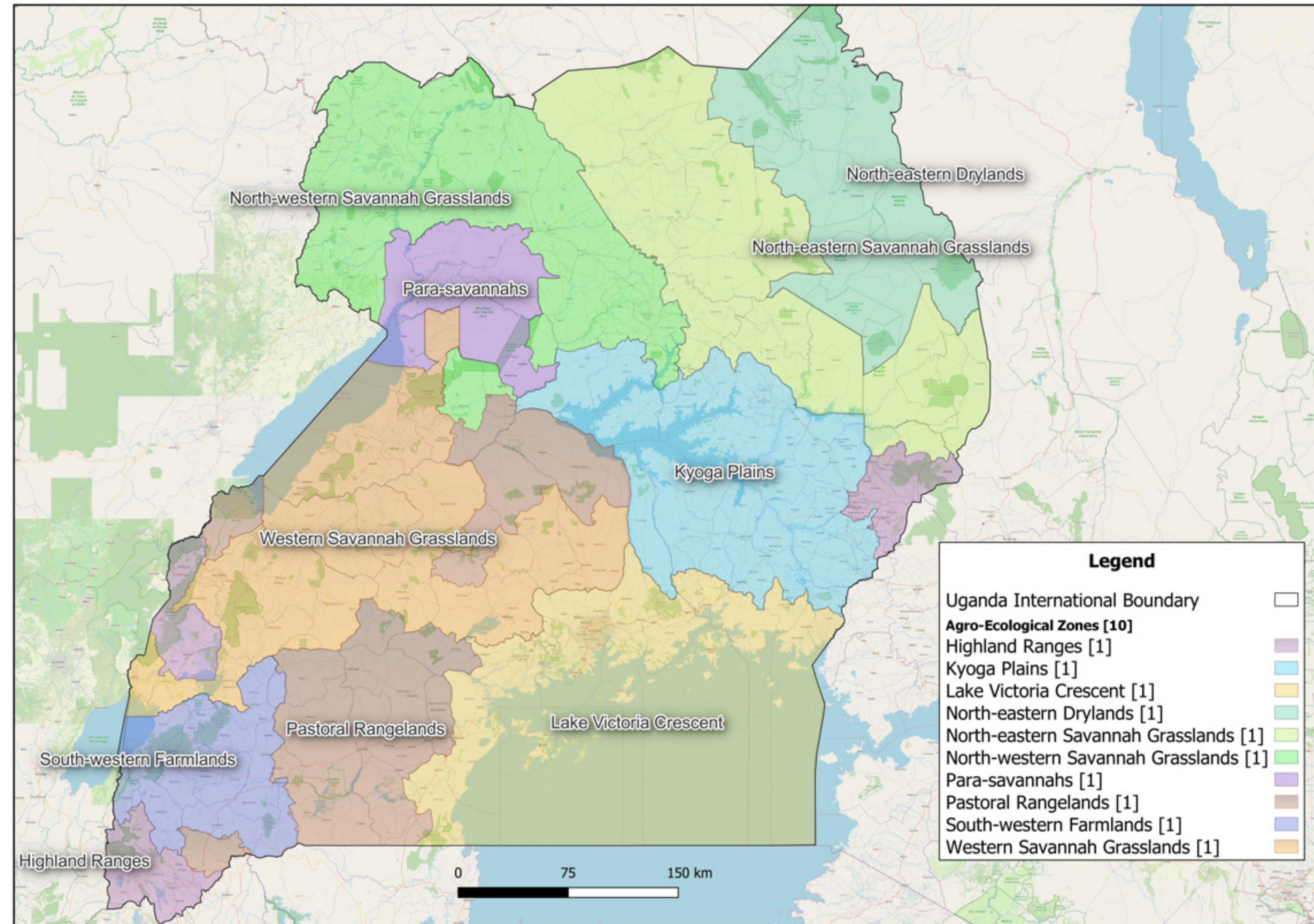




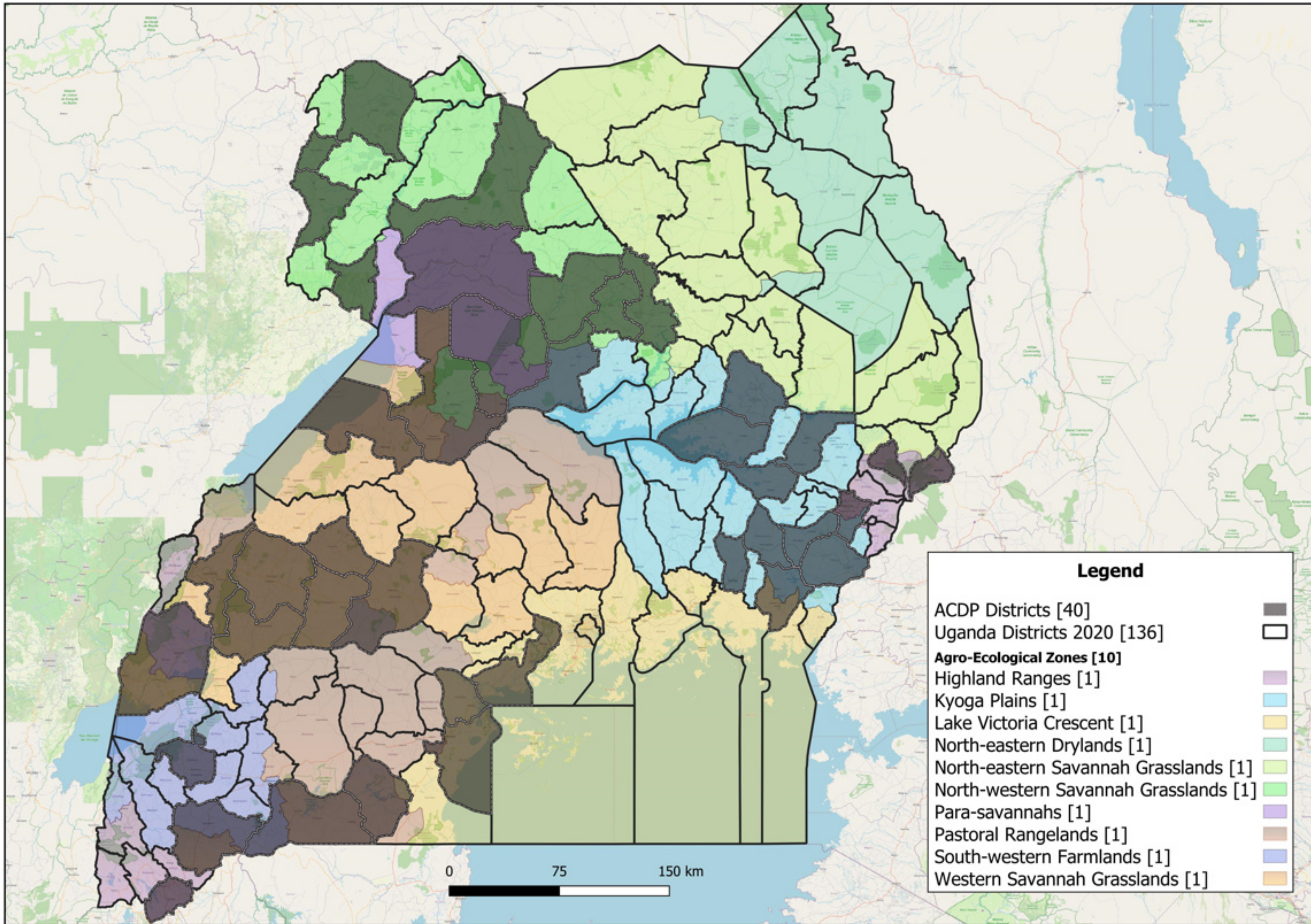
- 2,000 farmers,
- 200 Agro-processors
- 75 Key informants,
- 75 Focus Group Discussions.



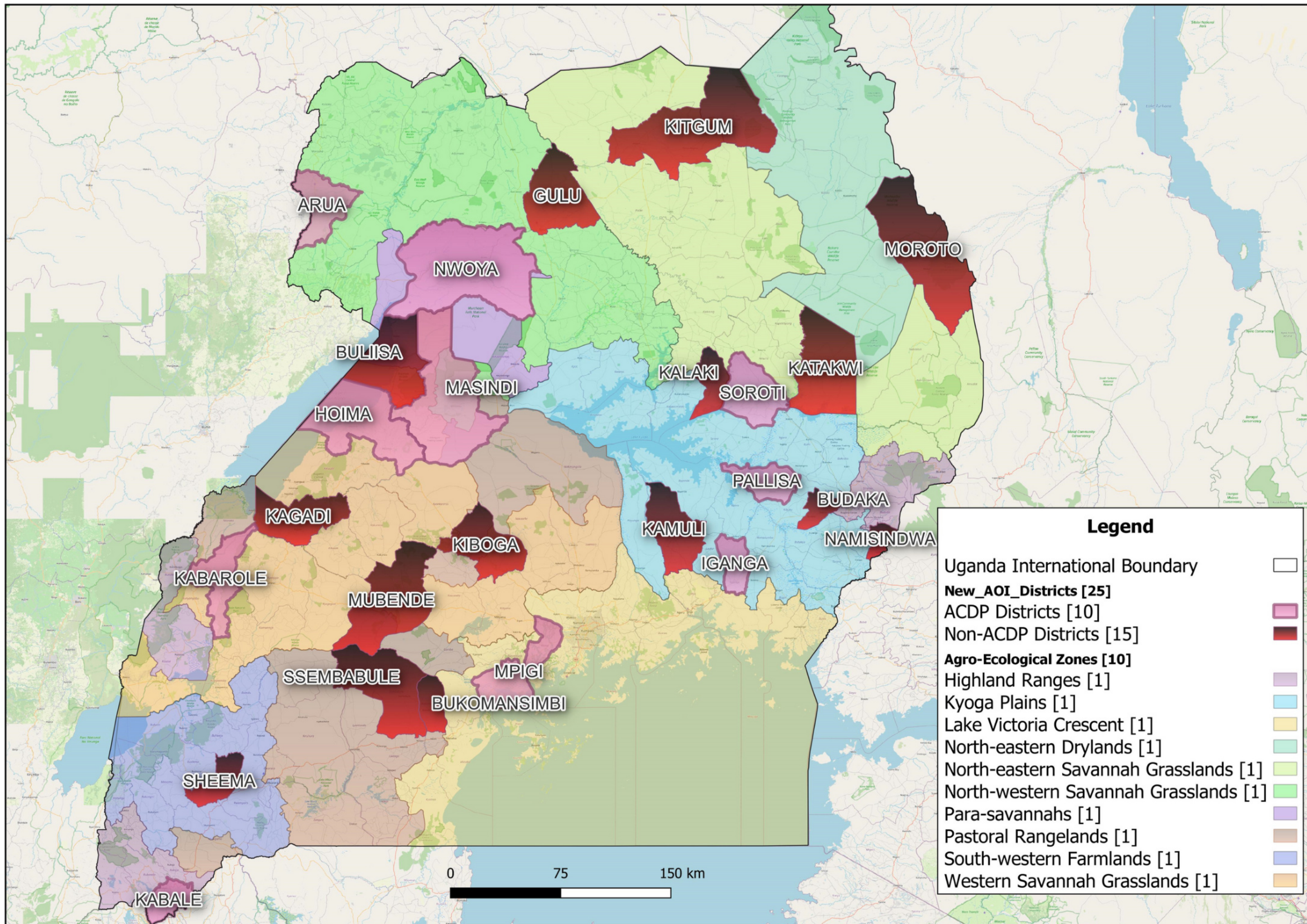
Uganda Agro- Ecological Zones



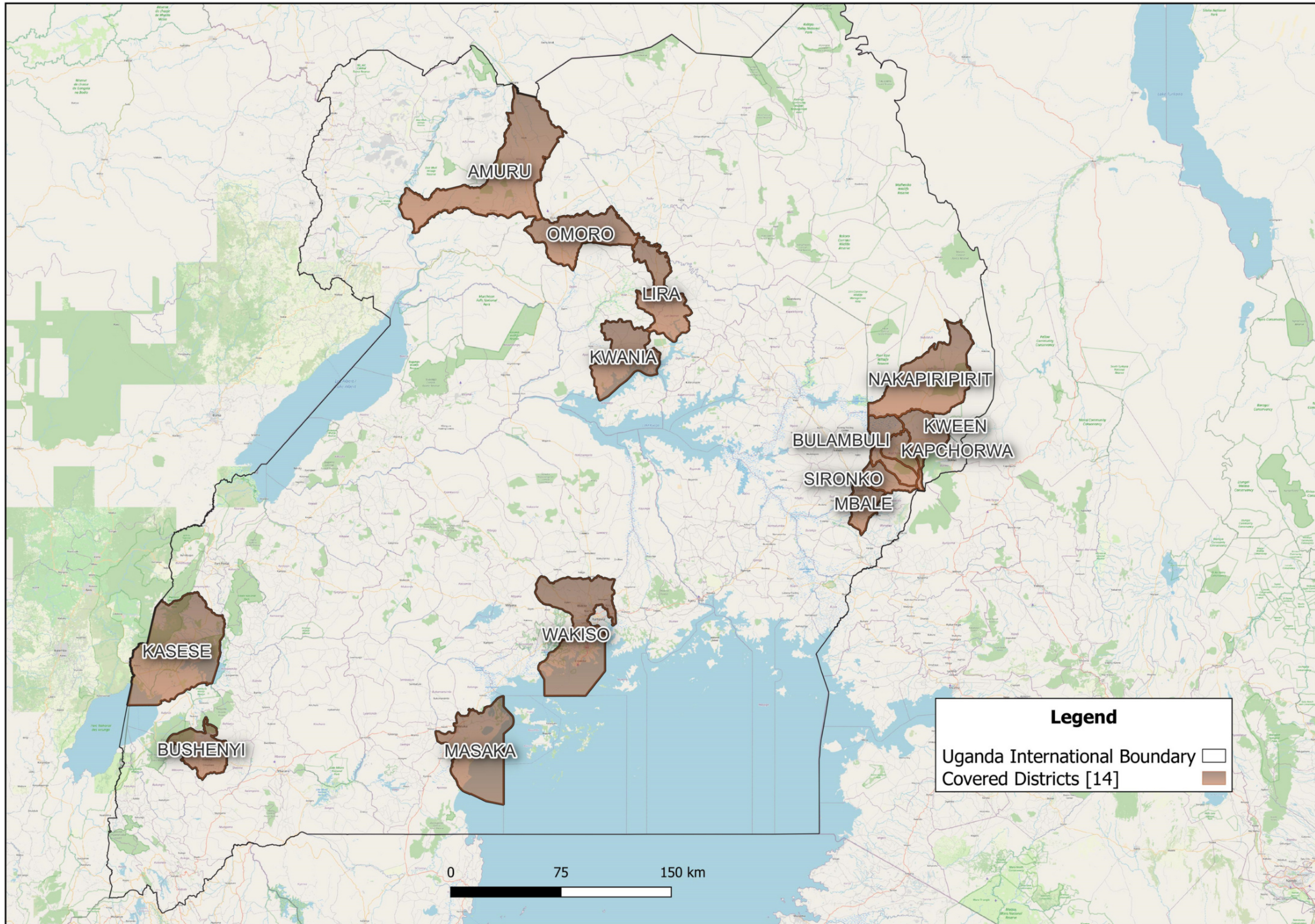
Non & ACDP Districts, Agro-Ecological Zones



Uganda Agro- Ecological Zones vs Selected Districts



Restricted Districts by Ministries (MAAIF, MEMD)



OpenStreetMap Uganda

- Africa Digital Access Initiative
- SafeSail
- Drone Technology
- Disaster Response



“Cultivating open source software and embracing open data is not just a choice; it's a powerful catalyst for innovation, collaboration, and progress. In the spirit of openness, we unlock the doors to boundless possibilities, empower communities, and pave the way for a future where knowledge knows no bounds.”

<https://mapuganda.org>





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