



# XXVII FIG CONGRESS

11-15 SEPTEMBER 2022  
Warsaw, Poland

Volunteering  
for the future –  
Geospatial excellence  
for a better living

## APPLICATION OF THE SLAAC DATA CAPTURE AND PROCESSING TOOL FOR SYSTEMATIC LAND TITLING IN UGANDA

Jimmy ALANI, William KAMBUGU, Johnson MUKAGA, Godfrey TOKO, Richard OPUT, Ibrahim  
MAGEMESO and Grace KAGORO, Uganda

**Ministry of Lands, Housing and Urban Development, Uganda**

ORGANISED BY



TS08G: Databases, Models and Software for Land Administration  
Time: 9/14/2022 2:30:00 PM

PLATINUM SPONSORS



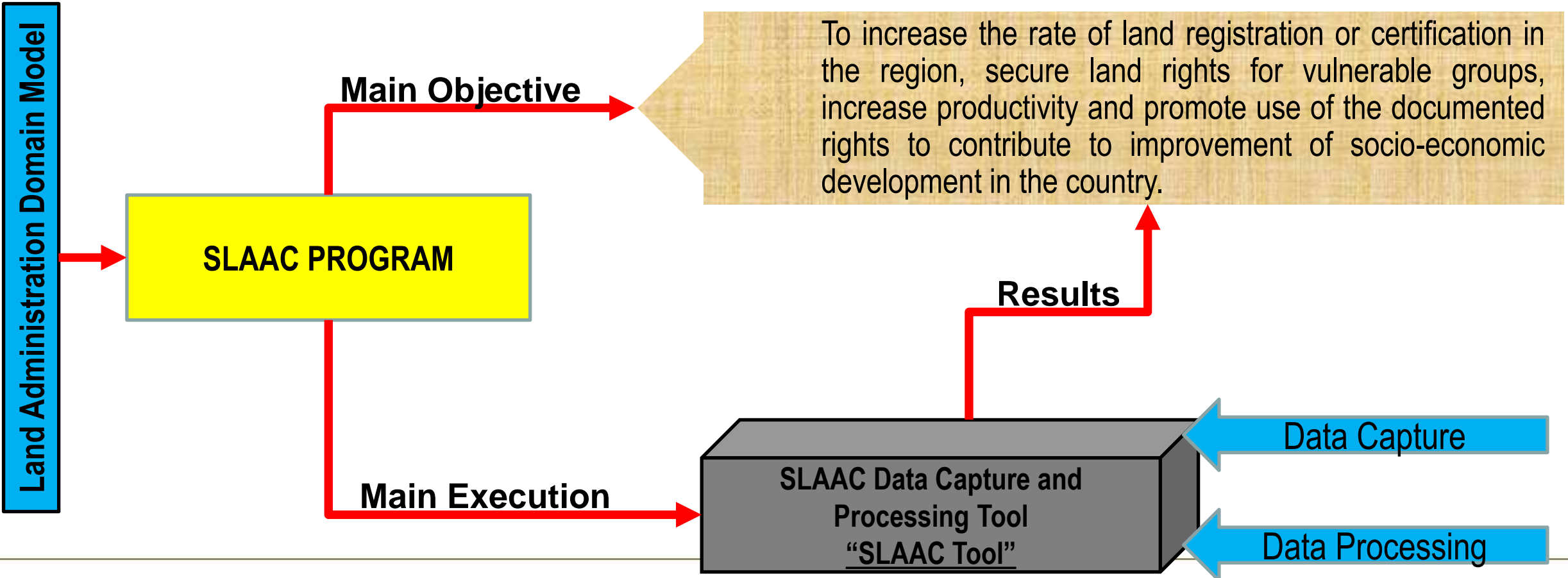


## Brief on Land Rights in Uganda

- In Uganda, land belongs to the citizens. The Republic of Uganda Constitution of 1995 provides for ownership of land under four types of tenure, namely;
  - Customary
  - Mailo
  - Freehold
  - Leasehold
- As a result, about 80% of land is held under customary land tenure and governed by customary laws in the different regions (North, South, Western, and Eastern Uganda) of the Country.
- In some Areas across the Country, land is communally owned and mostly based on hereditary principles – **typical customary**.

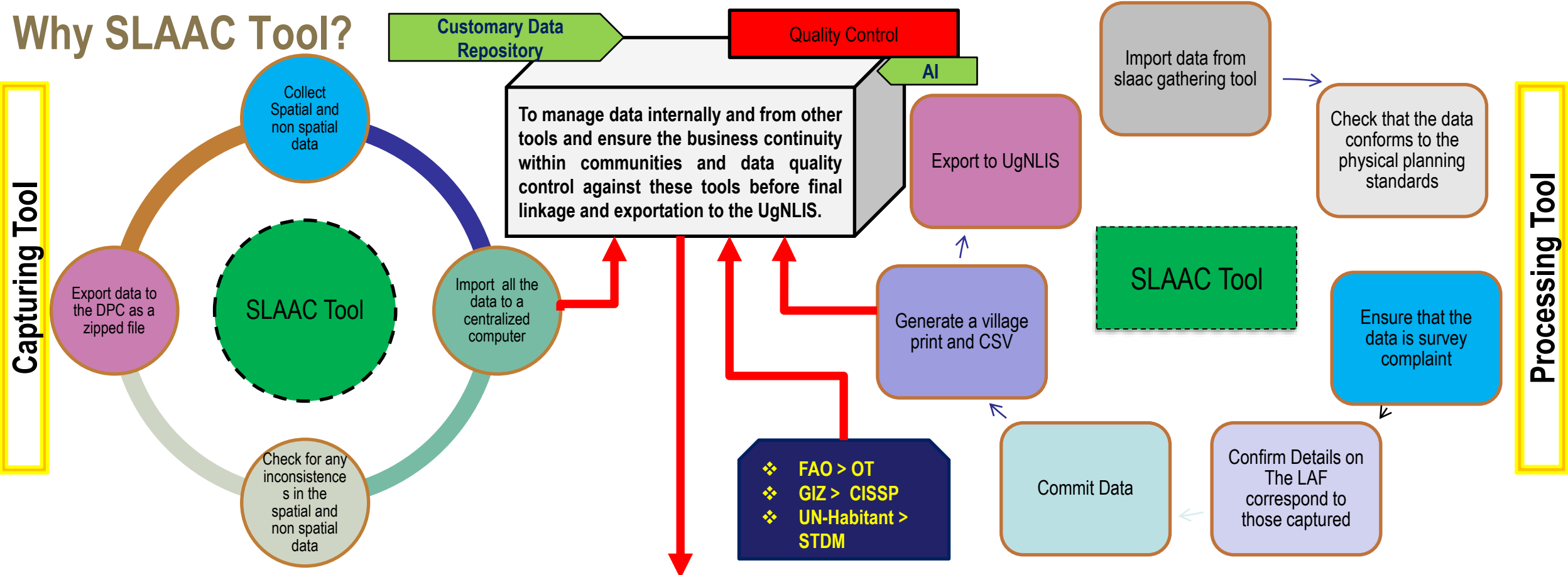


## SLAAC Concept in Uganda





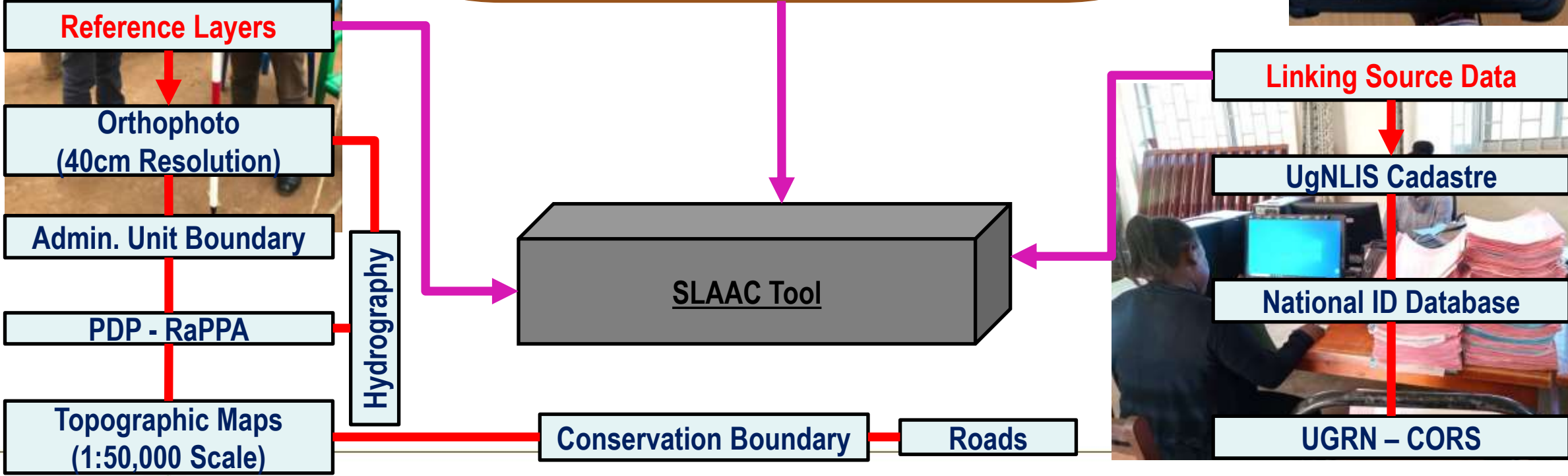
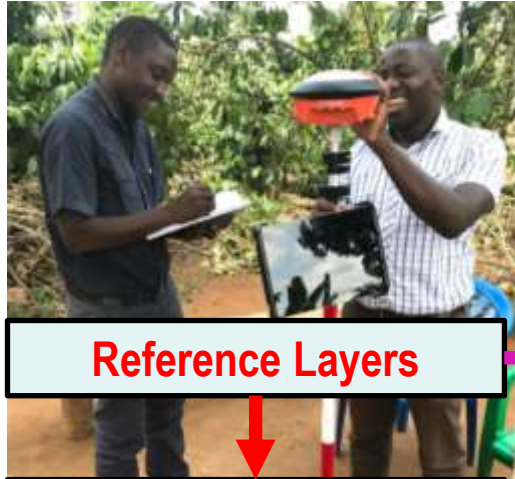
## Why SLAAC Tool?



To secure customary Land rights in Uganda and adoption of the concept of Fit For Purpose approach in which the SLAAC Tool is developed , thereafter linking and exporting the data to the Uganda National Land Information System (UgNLIS) for further operations and making it available for re-use by the communities.

## Units within the SLAAC Tool

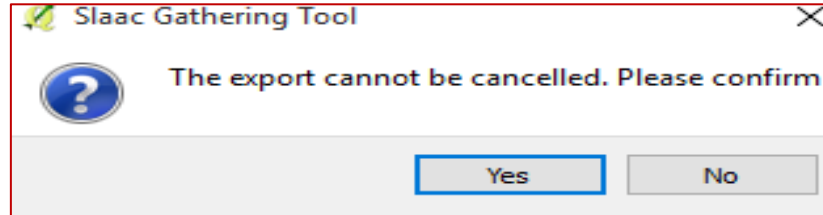
The application is based on open source software;  
 ❖ *Postgres/PostGIS database and alfresco.*  
 ❖ *QGIS Software – Mapping Functions.*



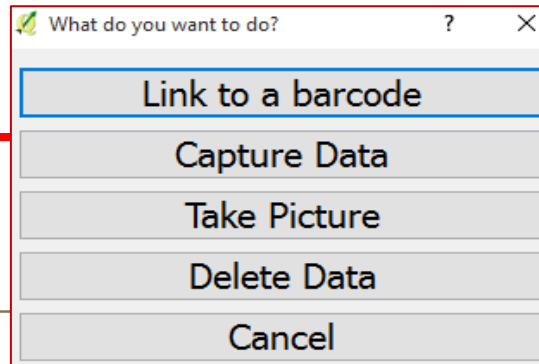
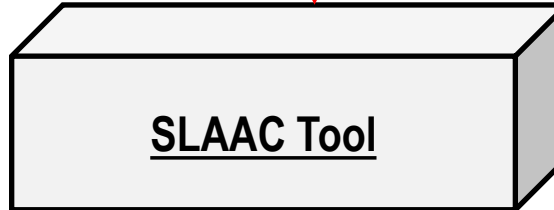
## SLAAC Tool Interface

The QGIS plugin was designed to reinforce Topological constraints of the parcels structure to control and manage the work processes at the DPC is defined through PDDL (Planning Domain Definition Language).

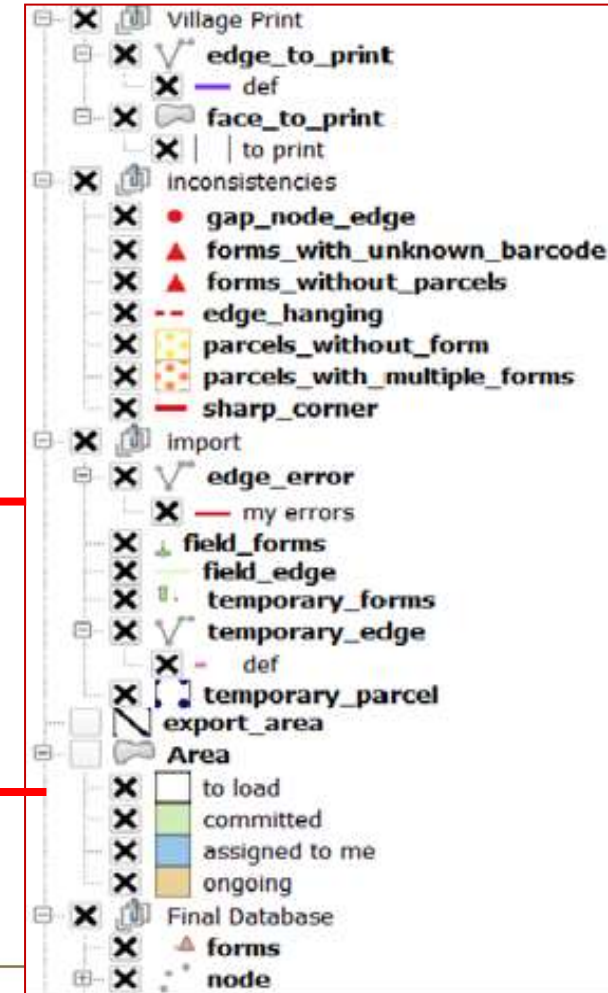
The introduction of the SLAAC application has eliminated a lot of errors like overlaps since it has inbuilt topological control and data synchronization because it is linked directly to the UgNLIS.



**Modification**



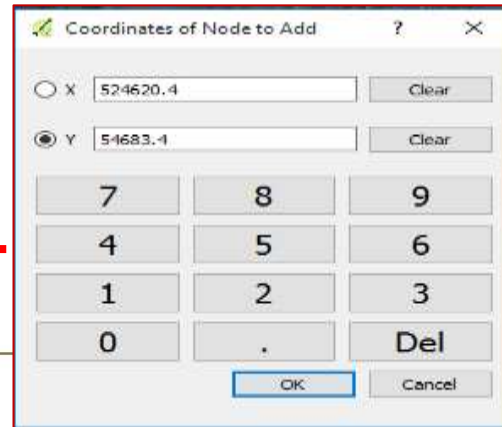
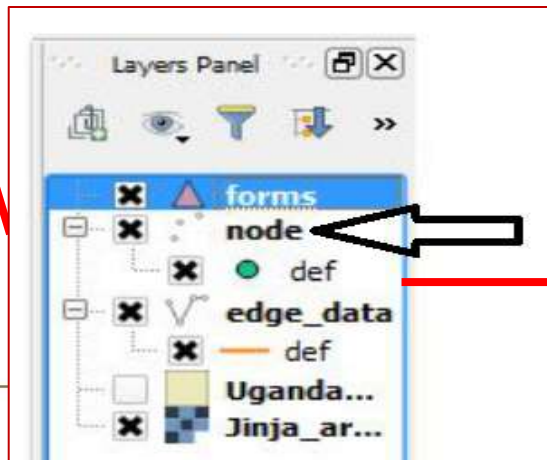
## The plugin in QGIS





## SLAAC Tool Interface

- inconsistencies
  - gap\_node\_edge
  - node\_hanging
  - forms\_without\_parcel
  - edge\_hanging
  - parcels\_without\_form
  - parcels\_with\_multiple\_forms
  - sharp\_corner



Modification

SLAAC Tool

SY

▼ Create new Person

Full name of the applicant :

Phone Number of the applicant :

Address of the applicant including the district and counties :

P.O. Box :

Fill the details of representative if the applicant is a minor, Charity, CLA

Full name of the representative :

Phone Number of the representative :

Check the availability of the following documents

Is there a document identifying the applicant:

Is there a document identifying the representative:

[Home](#) | Language: | Theme: [standard](#) | [alt](#)

## SLAAC Tool Interface



**MINISTRY LANDS HOUSING AND URBAN DEVELOPMENT**

General: 0414-230879 / 0414-342931/3  
 Hon. Minister: 0414-258420  
 Hon. Minister of State (Lands): 0414-231920  
 Hon. Minister of State (Housing): 0414-348285  
 Hon. Minister of State (Urban Devt): 0414-236384

Toll Free: 0800 100 004  
 Permanent Secretary: 0414-230879  
 Under Secretary: 0414-236389  
 Fax: 0414-230891  
 Email: mlhud@mlhud.go.ug



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**Applicants sorted by Application Number**

Application ID	Full Name	Phone Number
2325	Mivule Joseph	0776676767

**Applicants sorted by Full Name**

Application ID	Full Name	Phone Number
2325	Mivule Joseph	0776676767

ABSTRACT OF COORDINATES FOR FILE NO. 1C			
P	N	E	D
1	9975929.85	213049.55	CM1
2	9975922.52	213024.72	CM2
3	9975907.98	213001.73	CM3
4	9975929.20	212993.84	CM4
5	9975930.86	212984.15	CM5
6	9975934.61	212981.51	CM6
7	9975949.43	212995.99	CM7
8	9975957.40	213003.22	CM8
9	9975967.12	213013.03	CM9
10	9975967.44	213015.41	CM10
11	9975947.02	213026.68	CM11
12	9975952.36	213036.63	CM12





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**Applicants sorted by Application Number**

Application ID	Full Name	Phone Number
727	KATONGORE ABEL	0754711776
728	KOBUSINGYE JULLIET	0771000000
728	TIBEMANYIRA STEPHEN	0758652139
843	KATONGORE ABEL	0754711776



**CONDITIONS**

Particulars of Conditions

- User to be completed for **Kamwenge**
- Land will be developed in accordance to the planning regulations of this area
- Compensation to remain on the land if any will be done by the Applicant

**Miniature Deed Plan**

District: Kamwenge  
Country: MOZAMBIQUE  
Block: 144  
Plot: 15  
Estate Name: RUSHENVI

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**Certificate of Title**

FREEMOUL REGISTER VOLUME 800106 FOLD 4

**DESCRIPTION OF LAND**

ALL THAT piece of land delineated and edged red on the deed plan hereto annexed containing the following area or thereabouts and situated as follows:

Area	County	District
18347 hectares	Kilide	Kamwenge

and known as: Plot 144, Block 15 at RUSHENVI

**OWNERSHIP**

Name and Address of Owner  
MWERAZE JACKSON whose NIN is CM660210729HE of PO Box 1804, Kamwenge

Date, Time, Location No, and Signature of Registrar  
22 SEP 2021 4:17 PM K80-0007308

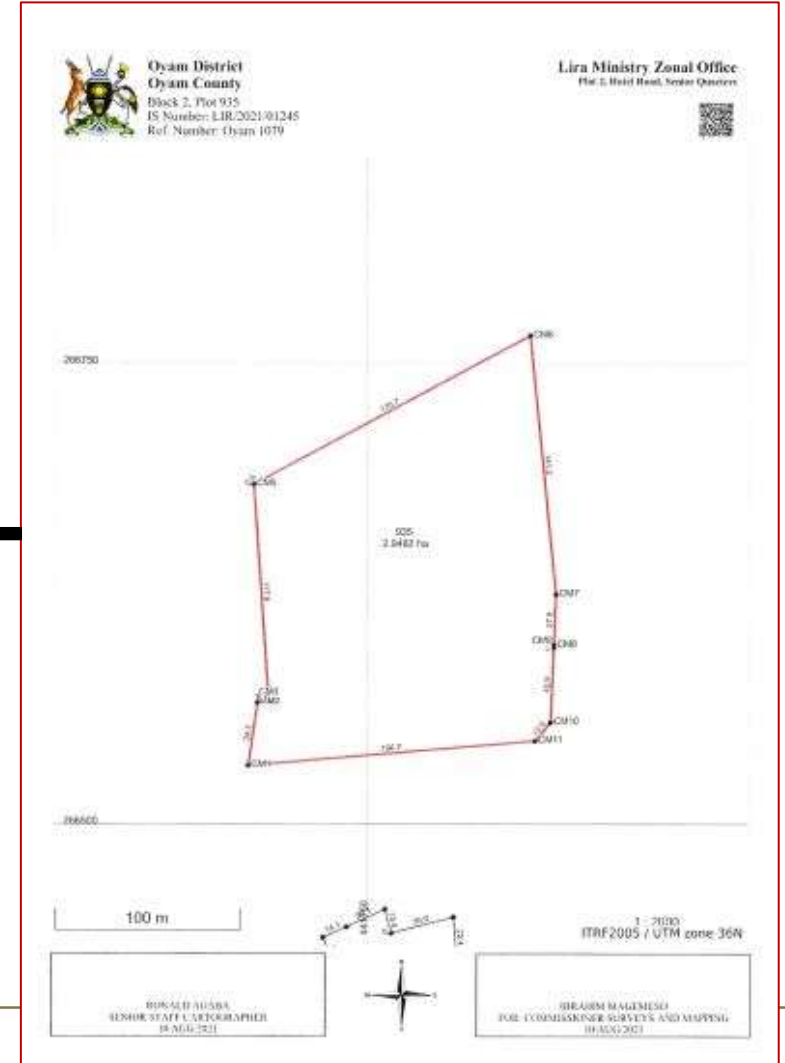
Dated this 6<sup>th</sup> day of September 2021

Owner's Copy

Production of Certificate of Title

Data Processing Centre (DPC)

Production of Deed Plan





# Thank you!

Alani Jimmy

Senior ICT Officer

Ministry of Lands, Housing and Urban Development, Uganda

[alanijim@gmail.com](mailto:alanijim@gmail.com)

