

AGROCADASTRAL MAPPING OF PALM TREES ON FARMLANDS FOR A GOOD LAND USE AND POVERTY ERADICATION IN DELTA STATE OF NIGERIA

Oluseye Thomas DABIRI, Nigeria

Key words: Access to Land

SUMMARY

AgroCadastral Palm Trees Mapping in Delta State is a case study for good Land Management and poverty eradication. Farmlands are mainly in the hands of peasant farmers with Palm Trees virtually on all farmlands without any good management of the cash crop. The Palm Trees as cash crops if well managed is a possible means for poverty eradication. This study is to present the procedure for the mapping of the palm trees on the peasant farmers farmlands and how to use it to eradicate poverty among the peasant farmers in Delta State of Nigeria. Palm Trees per point of growth shall be mapped on per hectare parcels of land; the parcels shall be tagged with alpha numeric tags; for easy parcels and palm trees management on the lands. Parcels to be mapped will have other crops of cultivations with the land titling. Farmlands in the hands of peasant farmers in Delta State of Nigeria and the sizes with will be mapped and analyzed for possible increase in the income of the peasant farmers of the rural communities in Delta State of Nigeria.



Figure 1:Delta State Agricultural Field Office at Oria Abruka Delta State of Nigeria. Source – Hydroark Library (April 2022)

1.0 AGROCADASTRAL FARMLANDS MAPPING PROCEDURE DEFINITION:

Mapping procedure is fit for purpose method bearing in mind that Land Administration should be designed to meet the needs of people and thier relationship to land, to support security of tenure for all and to sustainably manage land use and natural resources.

Fit – for – purpose procedure includes the following elements:

- Flexible
- Inclusive.
- Participatory.
- Affordable.
- Reliable.
- Attainable.
- Upgradeable

Fit – for – Purpose has four key Principles:

- General boundaries rather than fixed boundaries.
- Aerial imageries rather than field surveys.
- Accuracy relates to the purpose rather than technical standards.
- Opportunities for updating, upgrading and improvement.

Sources: FIG Publication Number 60 - FIG/WB, 2014.

Using fit for purpose procedure and key principles for the Agrocadastral Farmlands Mapping for the Palmtrees we used Google Earth Imageries.

Delta State Geography of drainage and relief is of low wetlands in the South and Central districts while Northern district is of relative high grounds. Palm Tree Belts is in the three districts but relatively more in the Central to North than South.

Delta State is of THREE Political Districts of TWENTY FIVE Local Govertment AREAS which we are adopting for this project.

- South Senatorial District.
- Central Senatorial District.
- North Senatorial District.

Rural Settlements were used as focal points of studies randomly mapped and defined as pilot fit for purpose mapping.

SENATORIAL DISTRICTS	LOCAL GOVERNMENT AREAS	TOWNS	AREA IN HECTARES	FARMERS
SOUTH	Bomadi, Burutu, Isoko North, Isoko South, Patani, Warri North, Warri South, Warri South West.	* Bomadi. * Burutu. * Patani. * Koko. * Omadino	TWENTY	TEN
CENTRAL	Ethiope East, Ethiope West, Sapele, Okpe, Ughelli North, Ughelli South, Udu, Uvwie.	*Isiokolo. * Oghara. *Sapele. * Ughelli. *Ekapamre. * Agbarho. *Abraka	THIRTY	FIFTEEN
NORTH	Aniocha North, Aniocha South, Ika North East, Ika South, Ndokwa East, Ndokwa West, Oshimili South, Oshimili North, Ukwuani	*Illah. *Agbor. * Umunede. *Abavo. *Kwale. *Ogwashiukwu. * Ishiagu. *Obiaruku. *Issele – Uku	FORTY	TWENTY

Table 1: Showing the Fit – For – Purpose Mapping Schematic Outlay

See the Delta State Political Map here under:

- **DELTA SOUTH SENATORIAL DISTRICT**
- **DELTA CENTRAL SENATORIAL DISTRICT**
- **DELTA NORTH SENATORIAL DISTRICT**

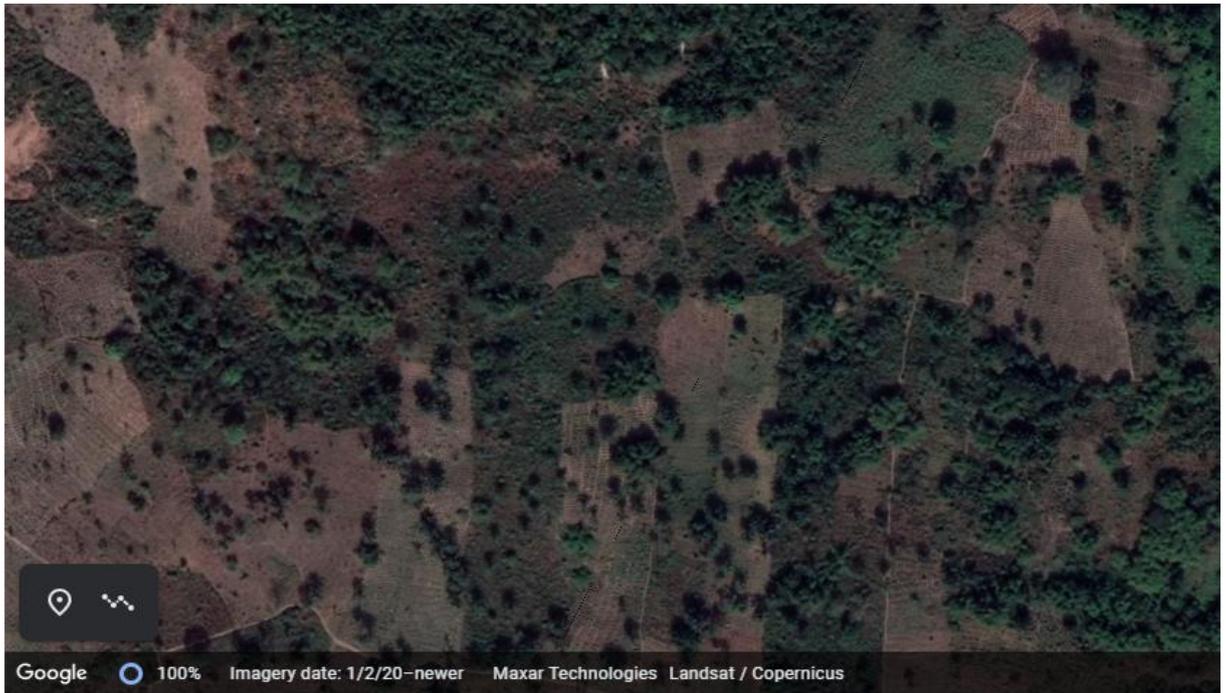


Figure 3: Delta North Axis Illah Farmsteads with Palm Trees



Figure 4: Farmsteads with Palm Trees Cultivation in Obiaruku of North District in Delta State.



Figure 5: Palm Seeds wasting away on a Casava Farm in Ekapamre, Central District of Delta State. Source – Hydroark Library (March 2022)



Figure 6: Farmland Acquisition with Palm Trees in Ekapamre in Delta State of Nigeria.
Source – Hydroark Library (March 2022)

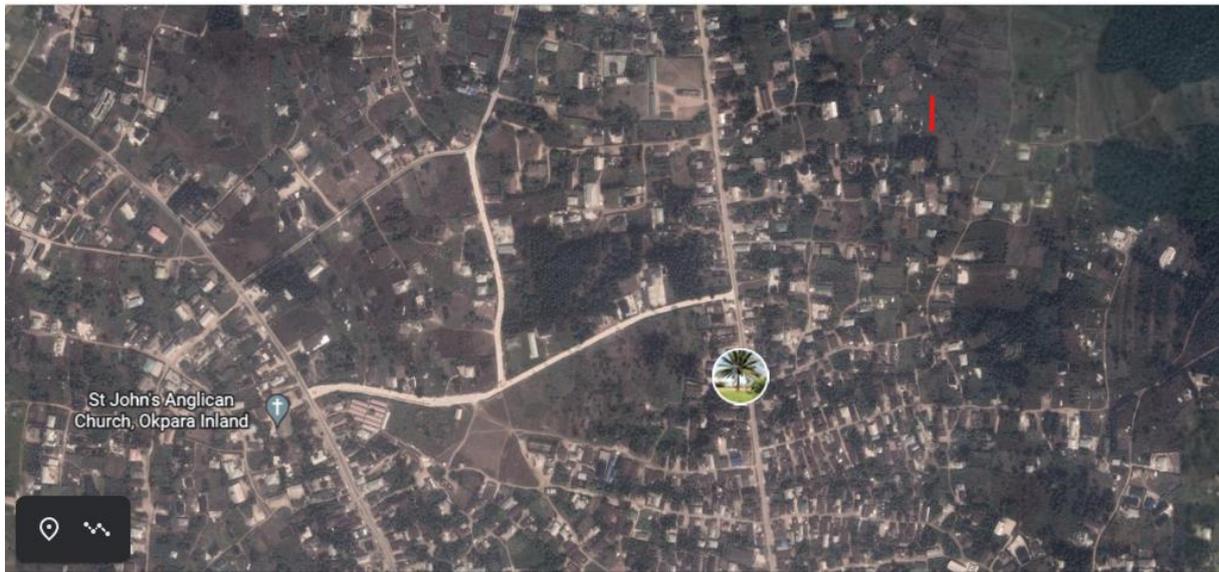


Figure 7: WWACAP Solutions and Potentials

5.0 CONCLUSION:

The approximate SIXTY PALMS TO AN ACRE which gives ONE HUNDRED AND FIFTY PALMS PER HECTARE will give ONE MILLION PALMS to SIX THOUSAND, SIX HUNDRED AND SIXTY SEVEN HECATRES.

Acquisition and Land Administration of this size in terms of cost, conflict resolutions and its exigencies will make WWACAP a possible option to explore.

Palm Trees with WWACAP approach is not a new venture in Delta State of Nigeria. Rubber Plantations in Delta State have been using it for a long time but Palm Trees have not been brought into it.

Each Palm tree under WWACAP shall have coordinates with database showing variables in terms of Location, Height, Age, Owner, Land Title, Yield, Contracts, Attendants etc.

Oil Mills will be located in the areas of easy access and other possible availability of inputs and infrastructures. This project will improve the INCOME of the Peasant Farmers; expected to make life more meaningful to them and save cost of land acquisitions for the company.



Figure 8: A Plantation on 30.6kilometer square

REFERENCES:

1. Cadastral Mapping of Agricultural Lands and Natural Resources by using image and non – image data: Ali Farzaneh. ISPRS WG I/6 Canada 2010.
2. Cadastral Guide to Oil Palm Out Planting and Maintenance. USAID Liberia (2015)
3. FIG Publication Number 60 - FIG/WB, 2014.
4. Roger Tomlinson. 2003. Thinking about GIS.

BIOGRAPHICAL NOTES

Surveyor DABIRI, Oluseye Thomas (fnis) is the Founder, Chairman and Managing Director of Hydroark International Limited based in Warri – Delta State of Nigeria. Delta State Immediate Past Chairman of Asociation of Private Practising Surveyors in Nigeria (APPSN) and now National Chairman of APPSN in Nigeria.

A Graduate of Geography from Premier University of Ibadan (BSc Hons 1987). Post Graduate Diploma in Surveying from Federal Survey School Oyo (1990). Registered Surveyor (1992). Graduate Assistant 1987 to 1988 in Geography Department of University of Lagos for research support for desertification monitoring in Bakolori Northern Nigeria with Canadian University of Waterloo using Remote Sensing. Delivering Lectures at FIG since 2010 till date. A Fellow of Nigerian Institution of Surveyors since 2015, versatile Professional Practitioner in Niger Delta of Nigerian Oil and Gas Survey Support Services covering Land, Swamp and Offshore since 1991 till date 2022 with wide interest in Cadastral and Property Development Survey, Engineering Survey, Hydrographic Survey, Geophysical Survey, Environmental Survey and General Consultancy Services.

CONTACTS

Surveyor DABIRI Oluseye Thomas (FNIS)
HYDROARK INTERNATIONAL LIMITED
PLOT 4 MOUNT EBAL ROAD,
OFF EKPAN – JEDDO ROAD,
BEHIND WARRI REFINERY,
WARRI – DELTA STATE.
NIGERIA
Tel. +2348036697258; +2348039601199; +2348023015904
Email:Thomas@hydroark.com

