

**21 March is the **Global Surveyors' Day** where the importance of a surveyor, their job both the field work and office work is highlighted and celebrated.**

**Join me to celebrate my life as SURVEYOR**

**HAPPY GLOBAL SURVEYORS' DAY!**



**JORINNO SURVEY SERVICES & ASSOCIATES**

*Land surveyors, Estate/Quantity Surveyors, Engineers, Builders, Architects, Planners and Environmental Managers. We are professionals in Surveying and Geospatial Information Technology, Engineering, Remote Sensing & GIS Analysis, Hiring and Sale of Survey Instruments.*



Surveying is the art, science and technology of obtaining the relative position of natural and manmade features on, above, or beneath the earth's surface and the presentation of this information either graphically or numerically using a suitable scale to form of plans, maps, tables/charts, profiles, cross-sections among others and something setting out of these measurement on the earth's surface according to design.

Surveying is classified as a learned profession because the modern surveyor needs a wide background of technical training and experience and must exercise independent judgement. A Surveyor is a professional who is the leader of a small, but expert team, usually consisting of the surveyor with one or more survey assistants. A surveyor must have a thorough knowledge of mathematics, particularly geometry and trigonometry and calculus, a solid understanding of survey theory and instruments. They must also have a thorough knowledge of methods in the areas of geodesy, photogrammetry, remote sensing, GIS, cartography and computers, with some competence in economics (including office management), geography, geology, astronomy and town planning, and a familiarity with laws pertaining to land and boundaries. They are governed by a professional code of ethics. The surveyor, as the leader of the team, will be required to make most of the decisions necessary for the smooth running of the team to ensure that the required tasks are fulfilled.

The role of the surveyor is to perform the measurements necessary to complete any task required. The tasks performed by a surveyor will depend on which branch of surveying they practise in. The most common tasks involve is the determination of height and distances. For the Cadastral Surveyor, the main tasks involve the determination of property boundaries. For the Topographical Surveyor, the main tasks involve the location of detail on the earth's surface for the production of topographic maps. For the Engineering Surveyor, the main tasks include the setting out of buildings, sewers, drains, bridges and roadways;

determining areas and volumes of regular and irregular figures; the preparation of detailed drawings and plans. For the Mine Surveyor, the main tasks include the setting out of mine lease boundaries and the calculation of end-of-month volumes, amongst others.

Some of the applications of surveying are explained in following points

- i. To prepare the topographical map which shows hills, rivers, forests, valleys, etc.
- ii. To prepare the engineering map showing engineering details like highways, railways, canals, dams, reservoirs, etc.
- iii. To prepare the contour map to determine the best possible route and amount of earthwork required.
- iv. To prepare the geographical and political map.
- v. To prepare archaeological map showing the places where ancient relics may have lied.
- vi. To prepare cadastral map showing boundaries of properties like houses, buildings, fields, colonies, etc.
- vii. To prepare a military map showing different strategic points important for the defence of a country.

**Reference and Further Reading:**

[https://www.fig.net/news/news\\_2020/03\\_globalsurveyorsday.asp](https://www.fig.net/news/news_2020/03_globalsurveyorsday.asp)

<https://gisgeography.com/gis-applications-uses/>

<https://civiltoday.com/surveying/88-uses-of-surveying>

<https://www.esri.com/content/dam/esrisites/sitecore-archive/Files/Pdfs/library/brochures/pdfs/gis-sols-for-surveying.pdf>

<https://civilsnapshot.com/applications-surveying-civil-engineering/>

[https://www.researchgate.net/publication/277179669\\_Importance\\_of\\_Surveying\\_to\\_Civil\\_Engineers\\_and\\_Some\\_Practical\\_Examples](https://www.researchgate.net/publication/277179669_Importance_of_Surveying_to_Civil_Engineers_and_Some_Practical_Examples)

[https://www.researchgate.net/publication/339612853\\_ROLE\\_OF\\_LAND\\_SURVEYORS\\_AND\\_GEOSPATIAL\\_ENGINEERS\\_IN\\_THE\\_BUILT\\_ENVIRONMENT](https://www.researchgate.net/publication/339612853_ROLE_OF_LAND_SURVEYORS_AND_GEOSPATIAL_ENGINEERS_IN_THE_BUILT_ENVIRONMENT)

## PHOTO GALLERY



Application includes teaching and learning

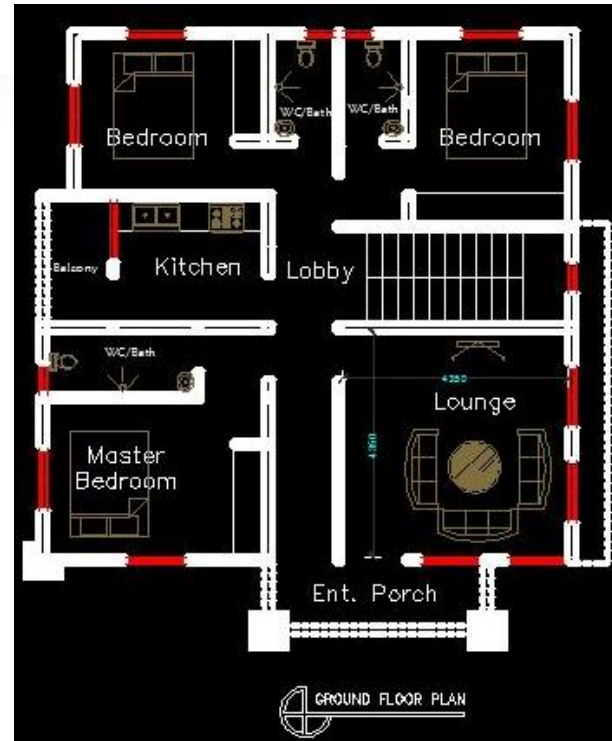
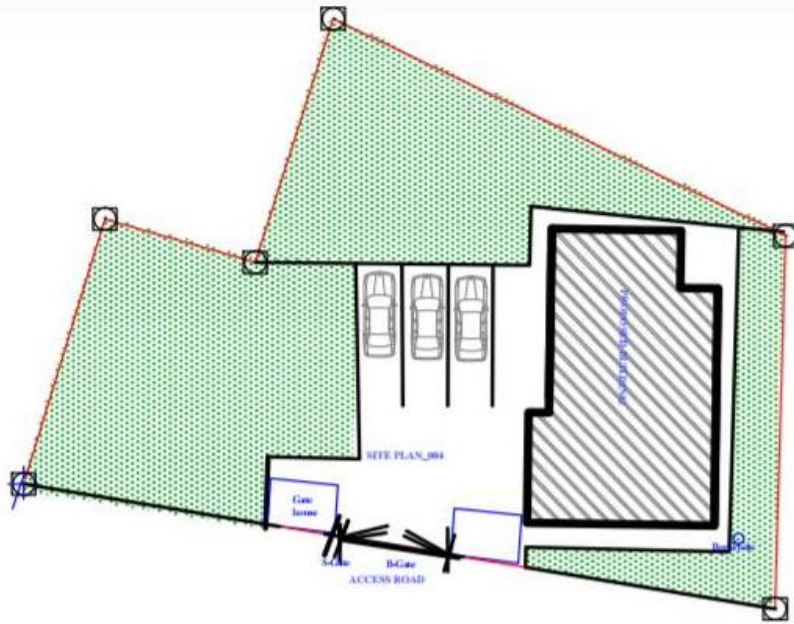


We teach students to understand the course from the basic level to becoming a professional



Setting out of building using a total station instrument





Land and buildings are our resources and surveying help to use them in the best way possible. Surveying being the basis of so many measurements. Where would we be without it?



Modelling the various environmental issues is our keywords



Office work and instrument standardizations

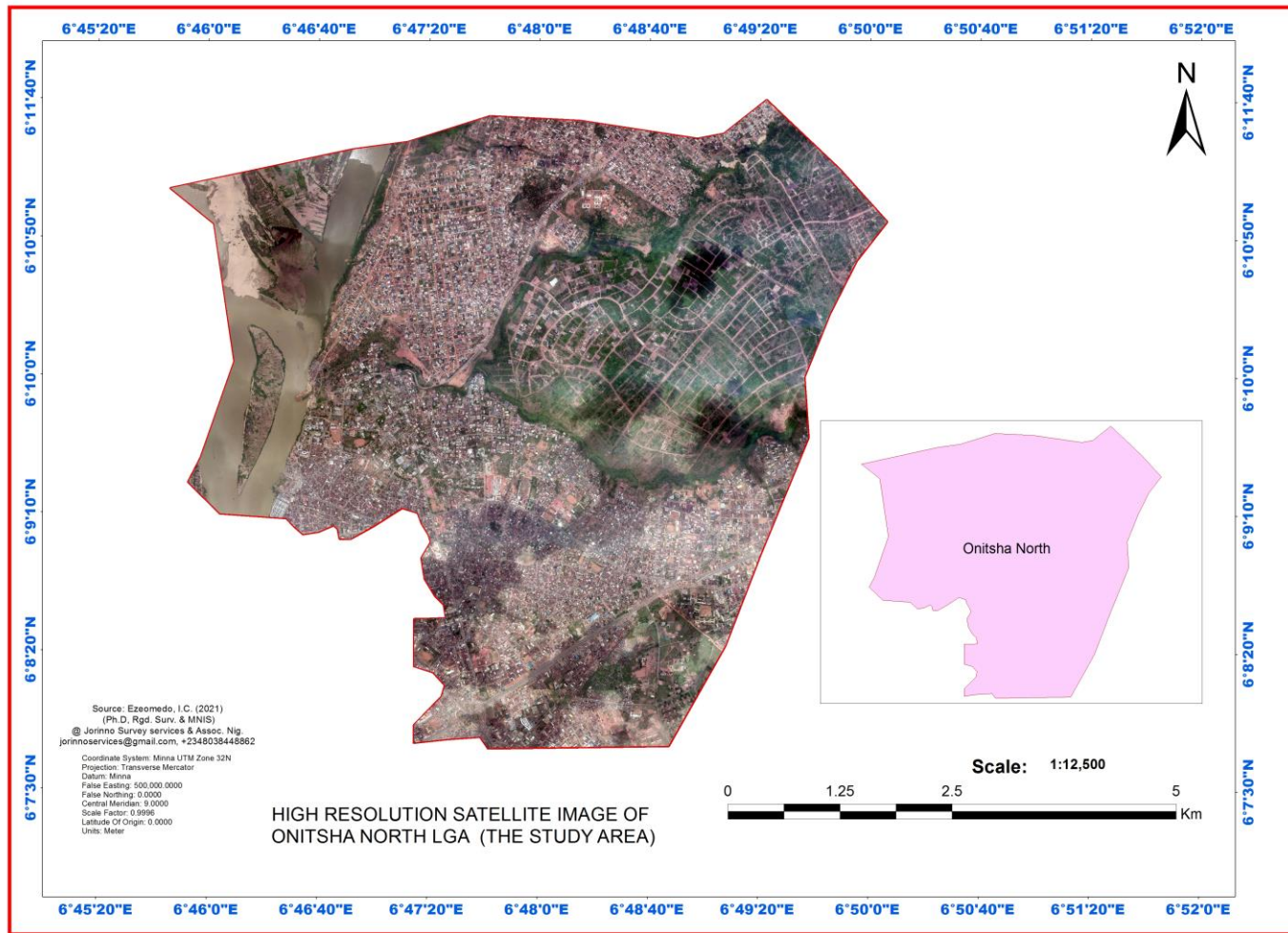




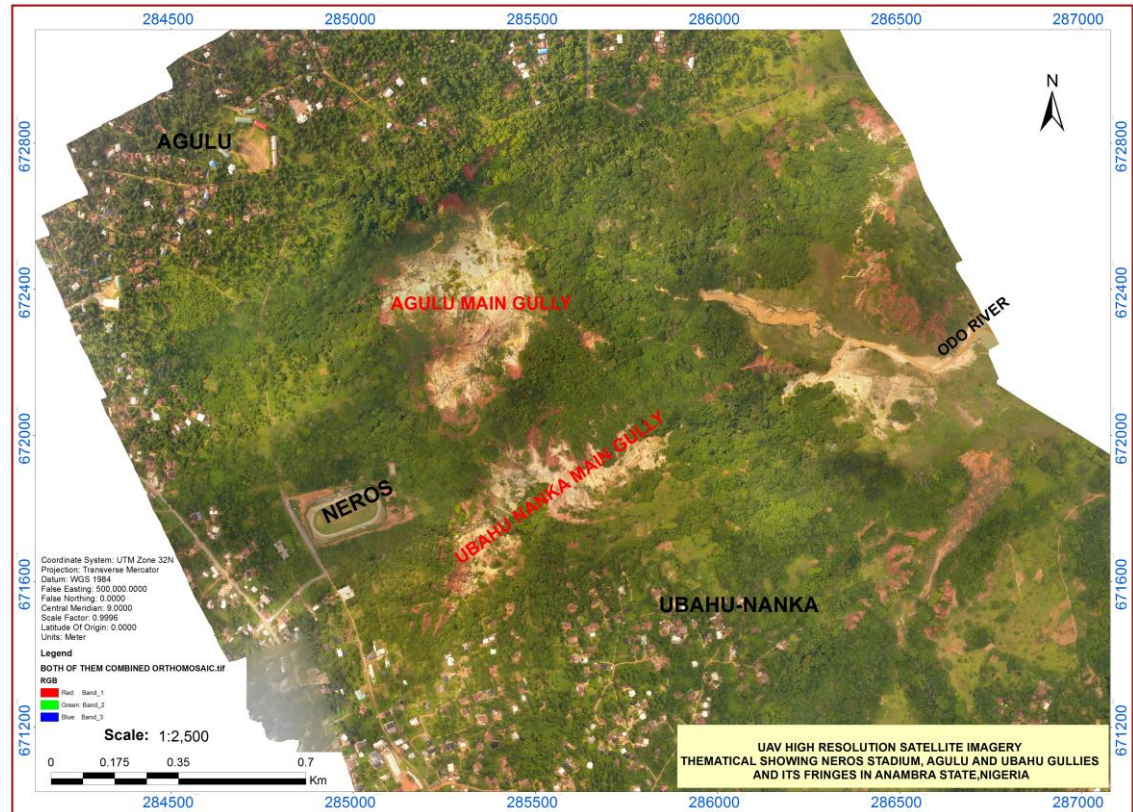
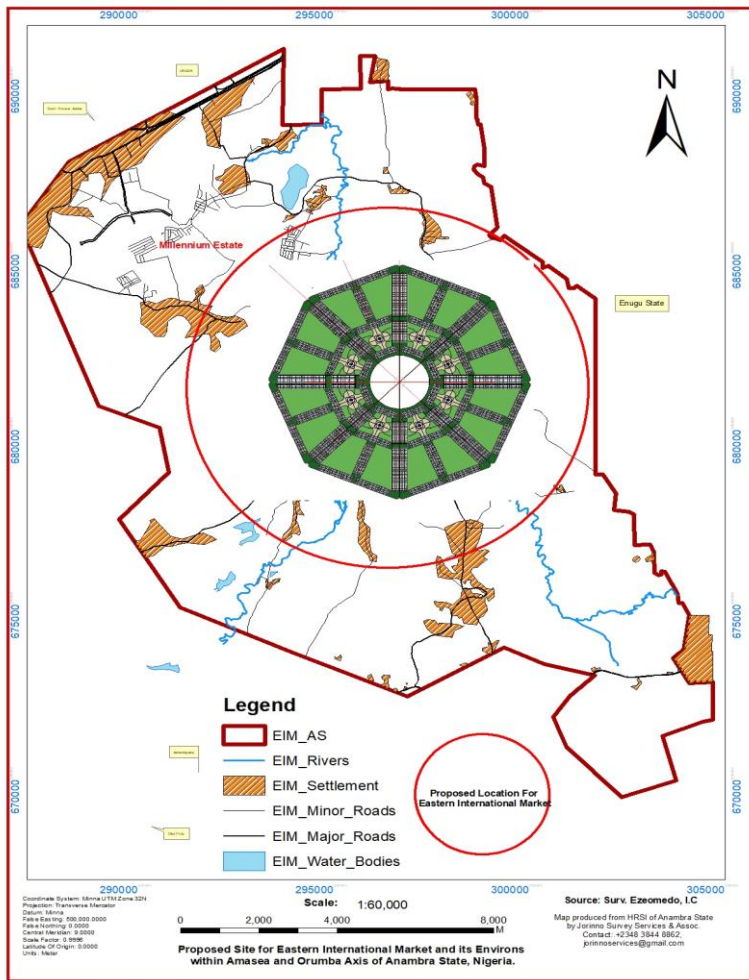
Major surveying work is to prepare the engineering map showing engineering details like highways, railways, canals, dams, reservoirs, etc.



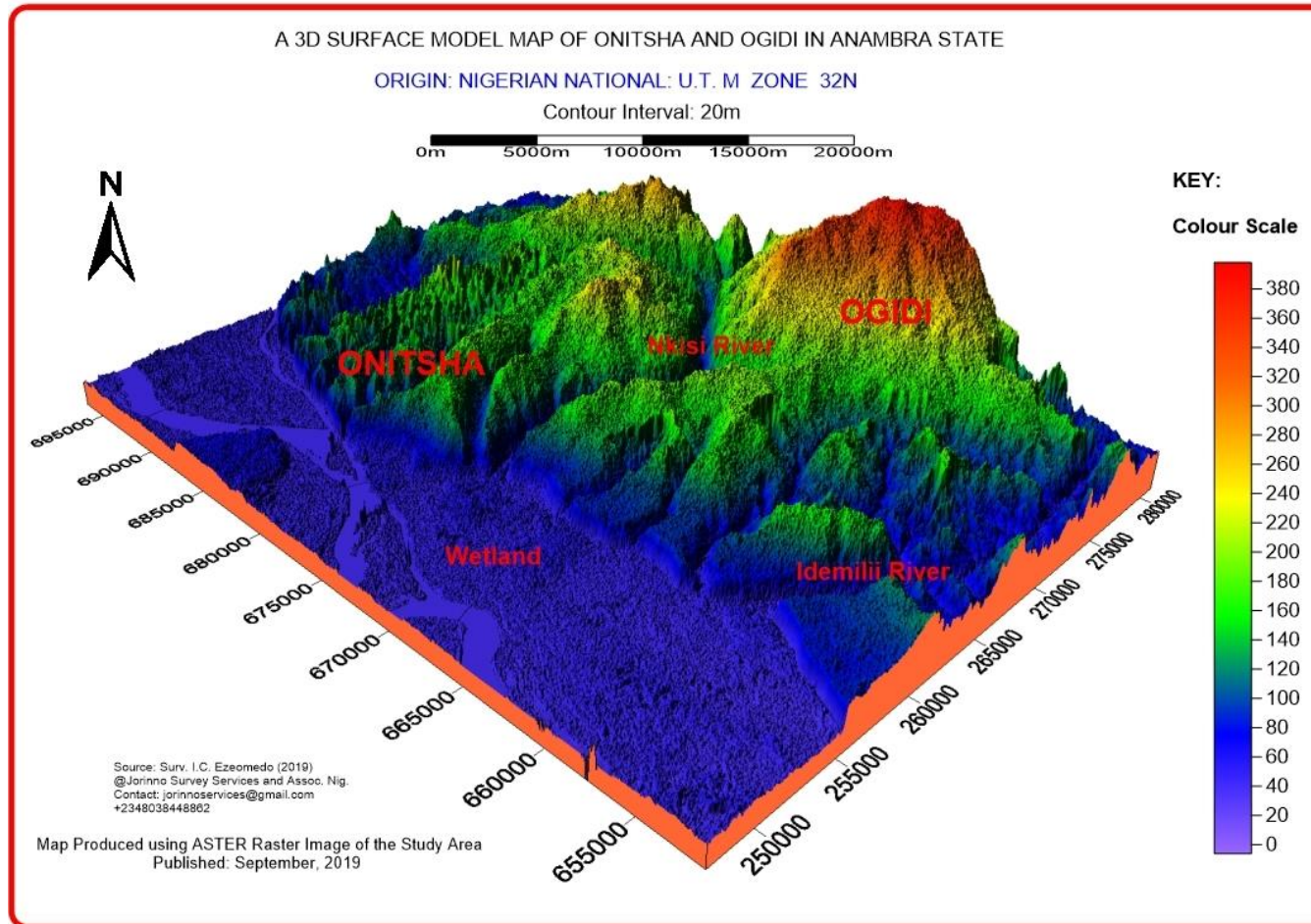
Cadastral Surveying



Surveying, the first step of starting a new civil engineering project, is a very important branch of civil engineering.



From site selection to project execution, surveyor's plans, maps, charts and profiles is do with out



Topographic surveys, Tidal and coastal modelling and monitoring, measured building surveys, elevation surveys, monitoring surveys, volumetric surveys, Setting out, quarry/landfill surveys data can be acquired from satellite imageries through 3D and DEM analysis.



Surveyors are highly involved in the planning and designing the built environment



Built environment can't be achieved without the inputs of surveyors



Collaboration with other professionals in the built environment and beyond

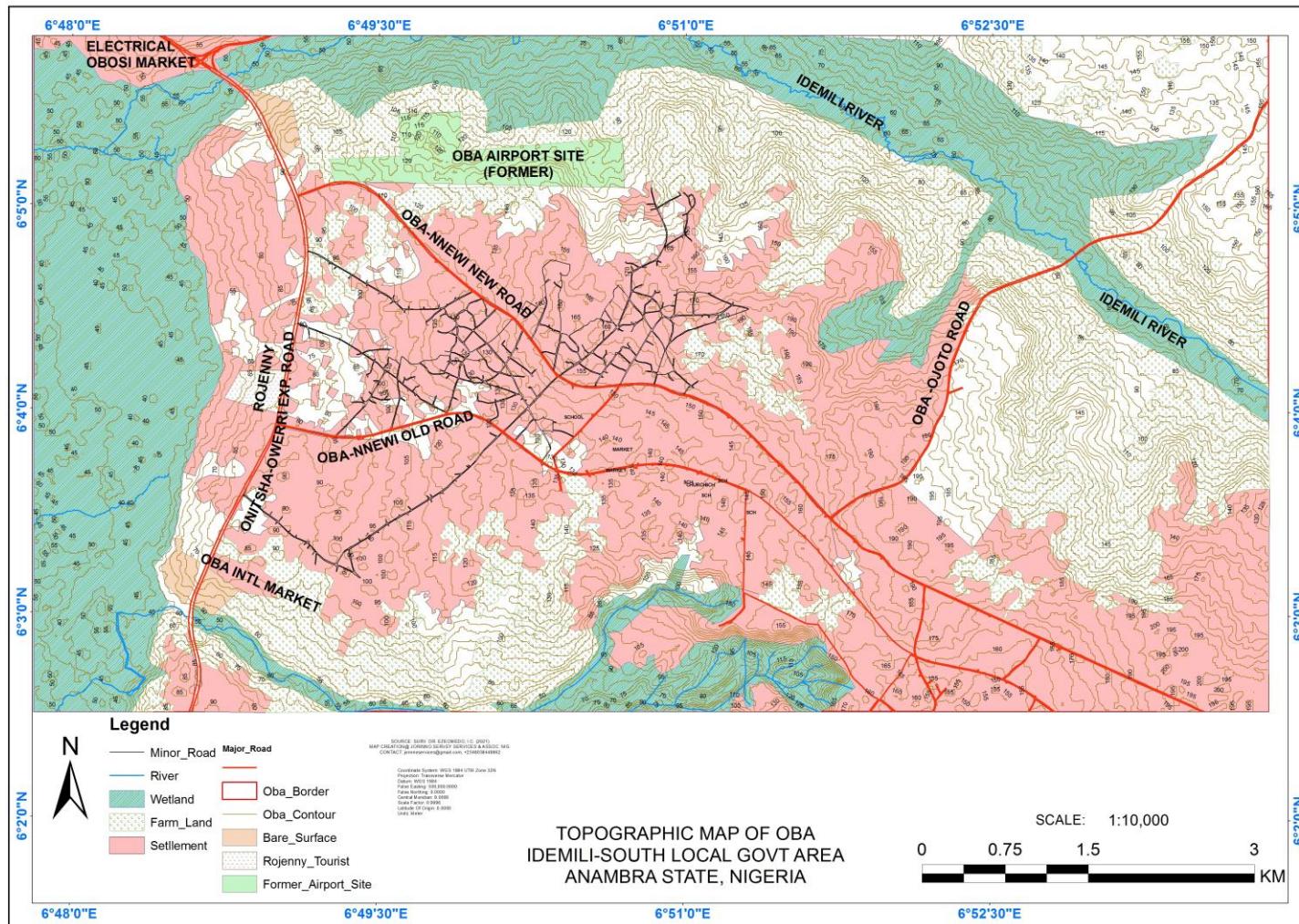


No matter the magnitude, if the project is 'a meaningful development', consult a surveyor





The impacts of urban flooding, erosion menace can be model and control using surveying principles



A topographic survey mainly serves as a base map for various uses

Now you know, we are surveyors, and we execute all our jobs meticulously. Remember, this is not the end! And so, if you have **‘any meaningful development’**, get in touch @ **JORINNO SERVEY SERVICES & ASSOC. NIG.** (Land Surveying, Remote Sensing & GIS Analysts and Consultants)  
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