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Geo-information:

A Key Pillar for Modern-day Decision Makers

Presented By:

H.E. Hon. Dr. Wilber Ottichilo, CBS

Governor Vihiga County Kenya

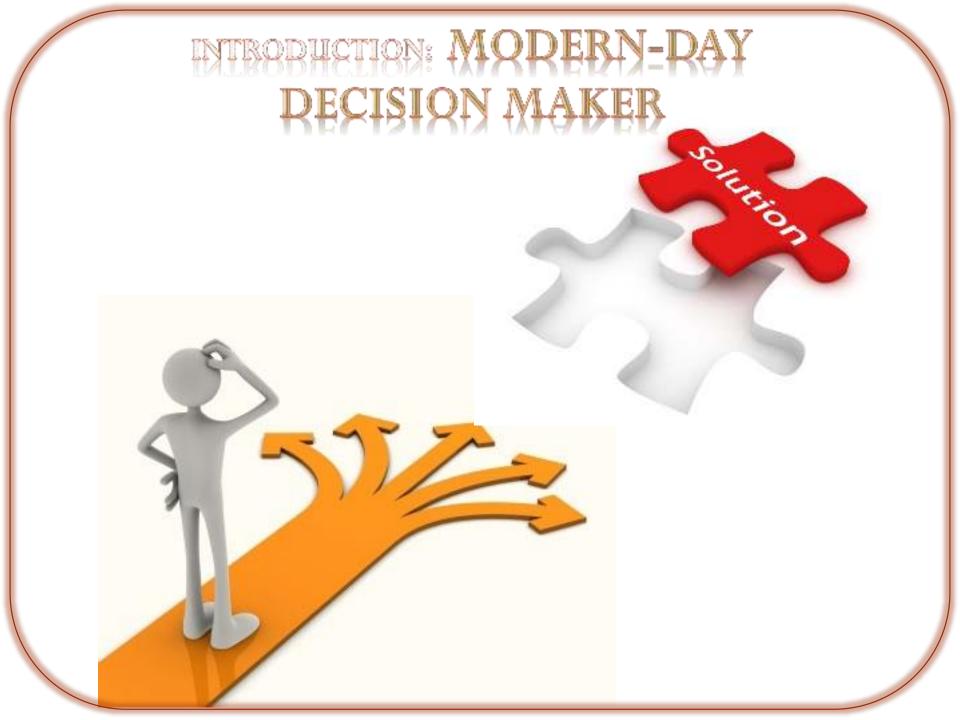
&

Erick Khamala

Managing Director, LocateIT Ltd Kenya

PRESENTATION QUTLINE

- Introduction
- Trends and Opportunities in EO, GIS and allied Geo-ICTs
- * Talking Development: Examples of role played by GI Technologies in planning and decision making:
 - Africa
 - Emuhaya Constituency, Kenya
 - Vihiga County, Kenya
- Conclusion



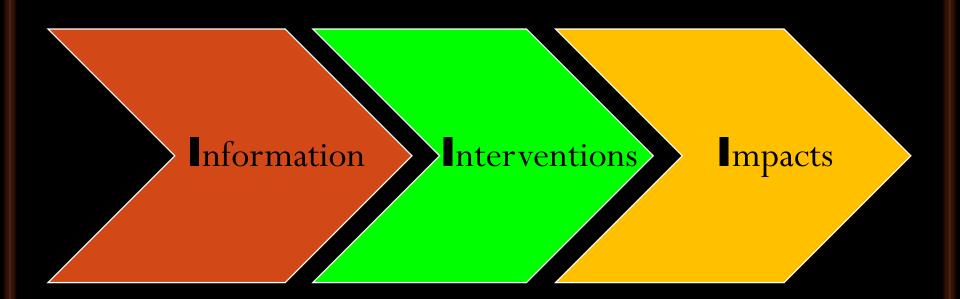






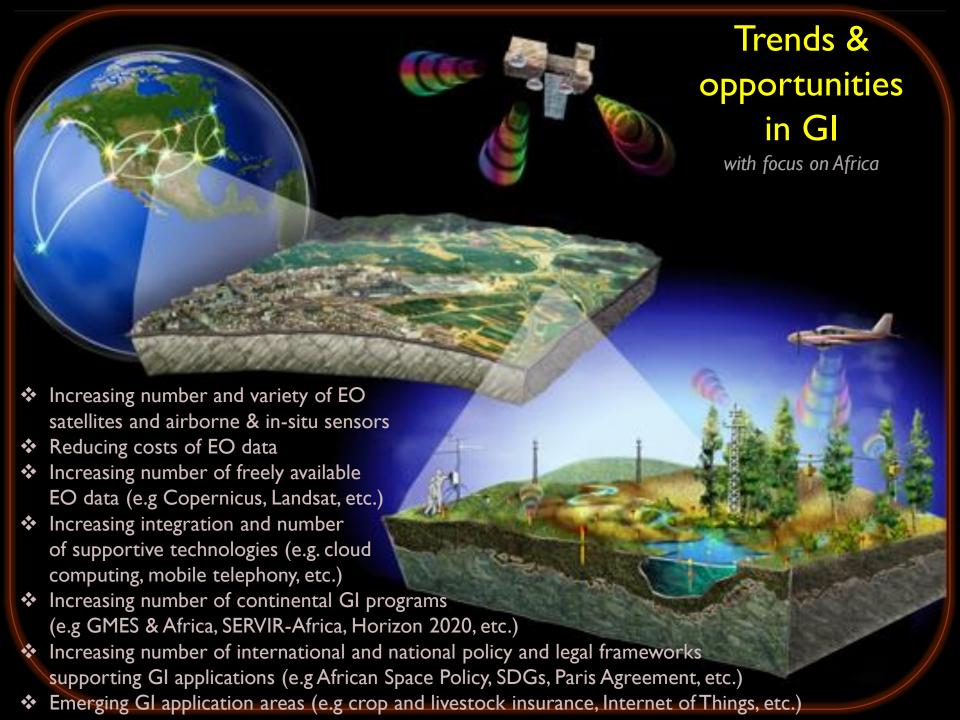


The 3is FrameworkTM

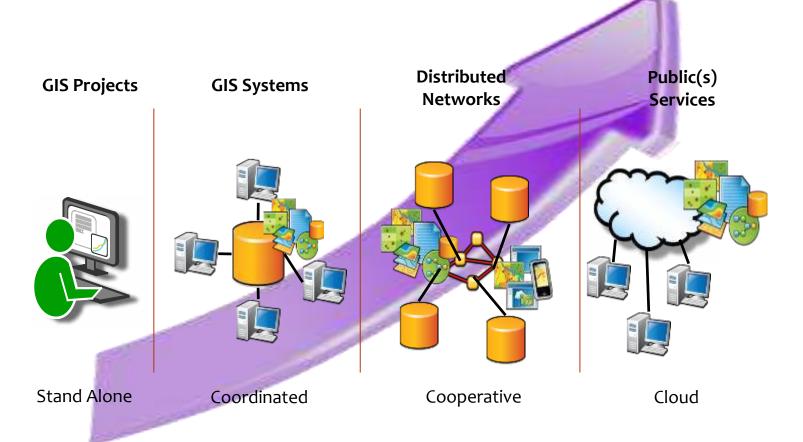


TRENDS AND OPPORTUNITIES

In Earth Observation, GIS and allied Geo-ICTs



Technology advances over the years made it technically possible for more people and organizations to be connected......



.... Allowing a myriad of applications in all sectors

Smartphones have GPS gadgets







TALKING DEVELOPMENT

Examples of role played by Geo-information Technologies in planning & decision making

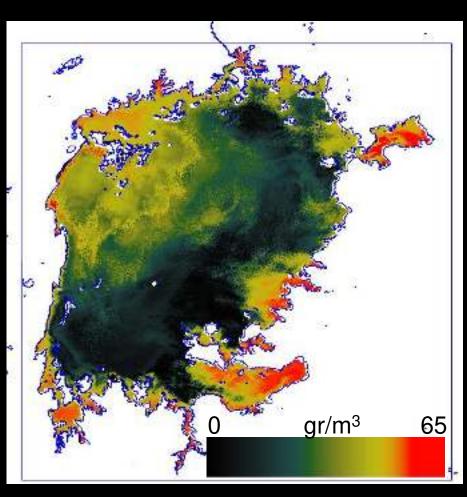
- In Africa
- In Emuhaya Constituency
 - In Vihiga County



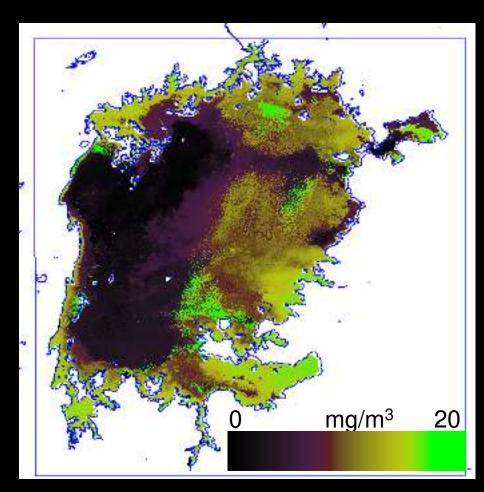
MSG 4 SEVIRI First Image 4^{th} August 2015 10:00 UTC



Mapping Suspended Matter, Chlorophyll and Yellow Matter from Space

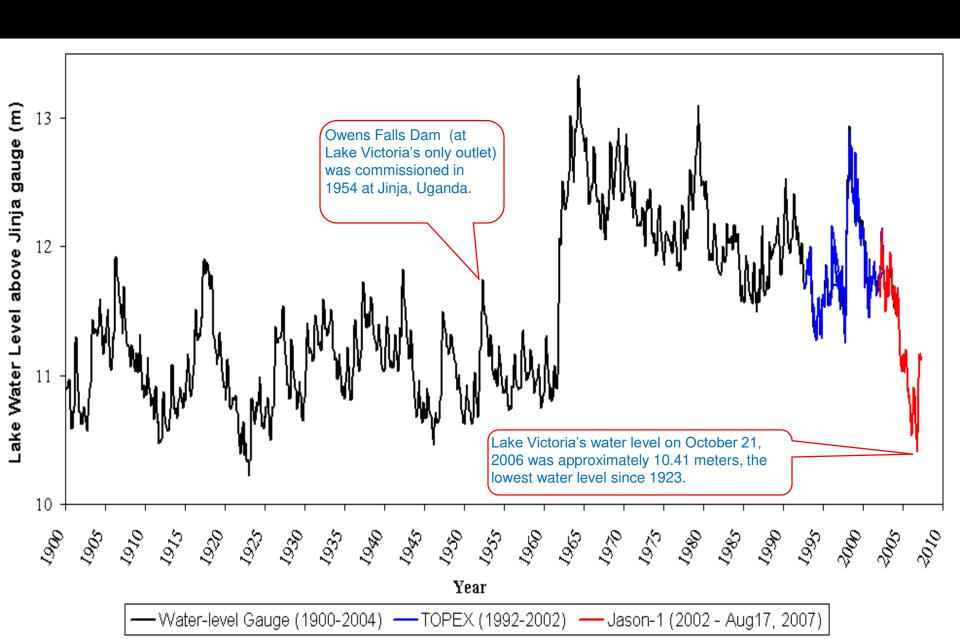


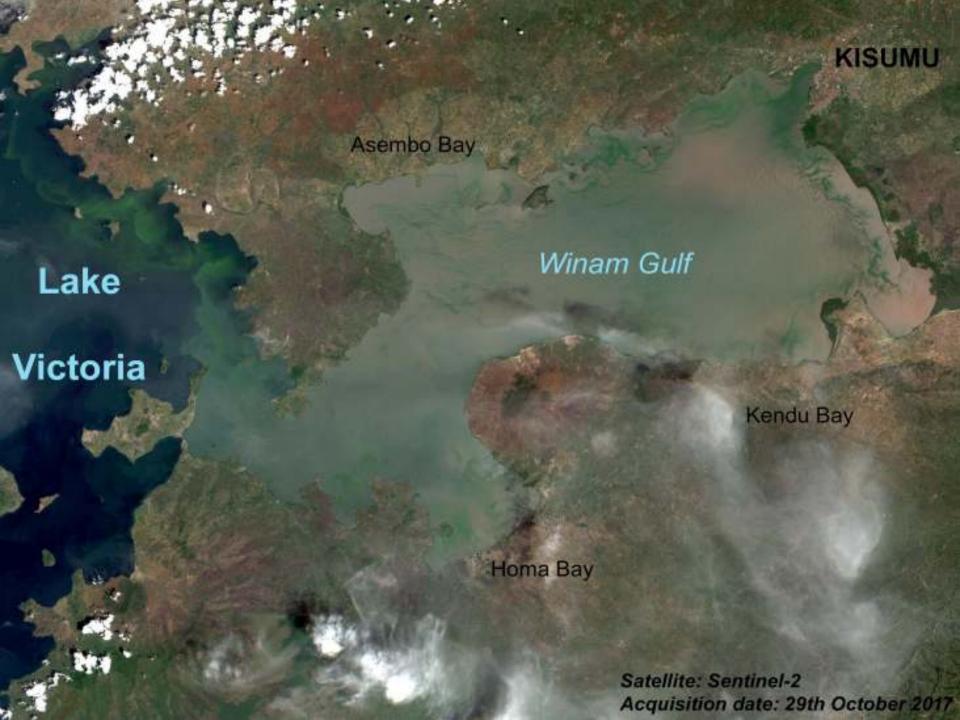
Total suspended matter derived from Envisat-MERIS Sensor



Total Chlorophyll derived from Envisat-MERIS Sensor

Lake level fluctuation monitoring from Satellite

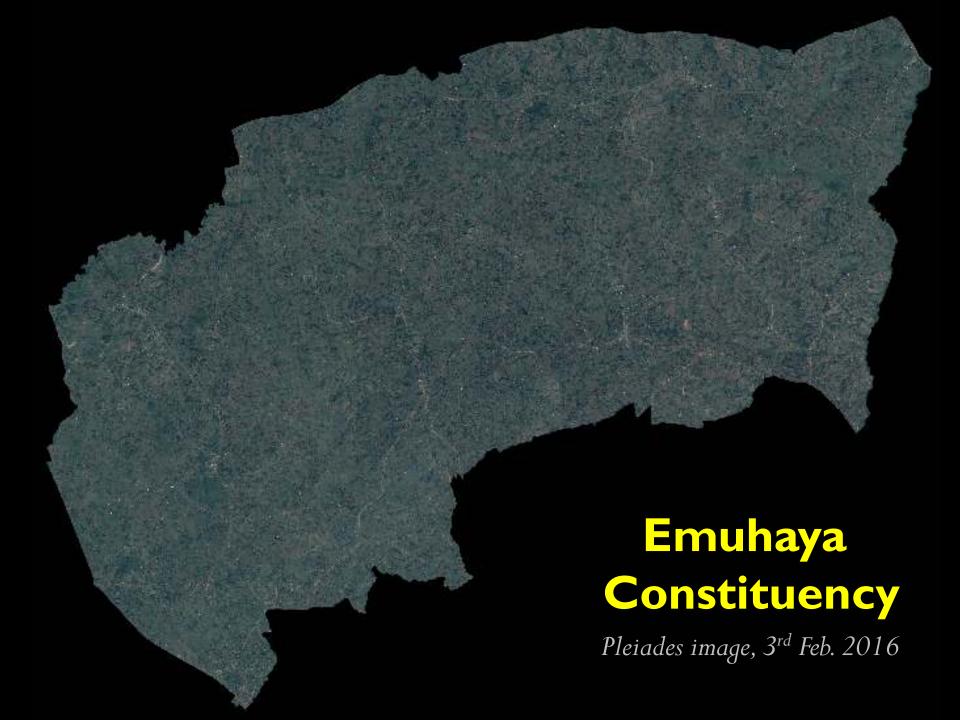




The Devolved System of Governance in Kenya

- Constitution provides for devolved Government system
- New Government system ushered on March 4th 2013:
 - National Government
 - 47 County Governments
- Parliamentary system at national level comprising:
 - The National Assembly (349 Members of Parliament)
 - The Senate (67 Members of Senate)
- County Governments comprise:
 - The Executive (Governor & ministers)
 - The County Assembly / Parliament (elected ward representatives)
- Constituency Development Fund (CDF): a fund that supports development at constituency level
- County Government Budget for recurrent expenditures and county development

Note: Counties in Kenya comprise between 2 – 17 Constituencies





Examples from the Education Sector



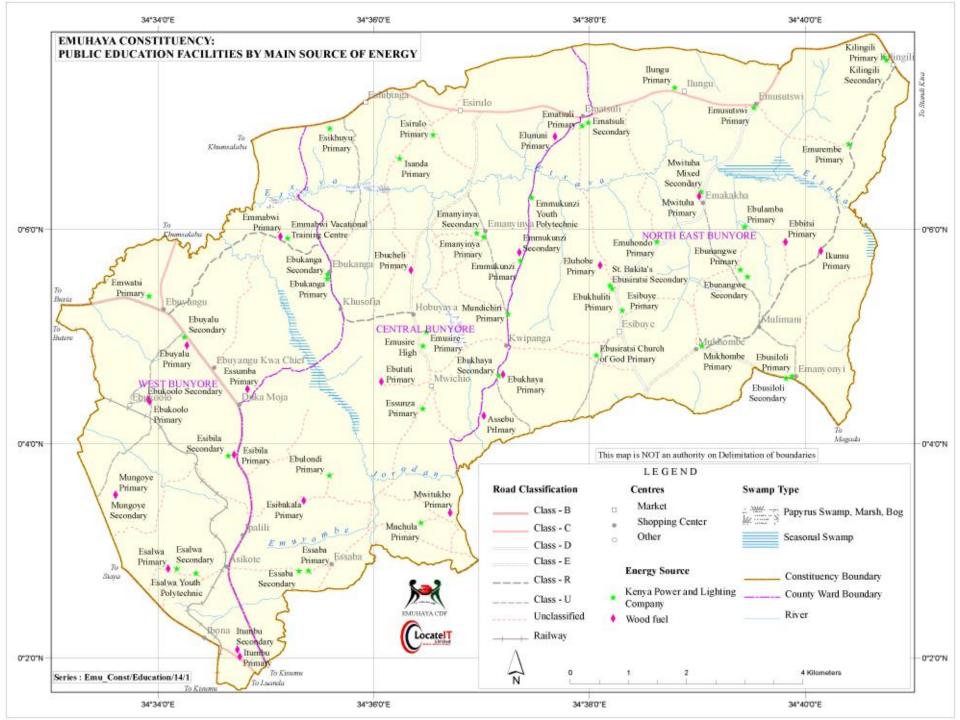


New Education Infrastructural Projects: Ebunangwe High School



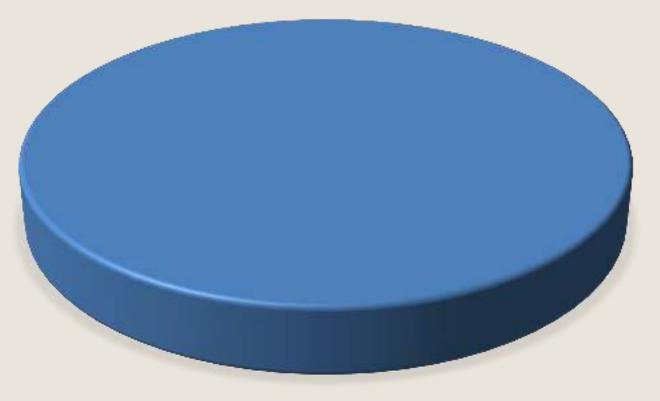
Status of Electricity in Public Education Facilities





Status of electricity connectivity in Education Facilities in Emuhaya Constituency in **August 2015**

Has electricity - 66 facilities (100%)

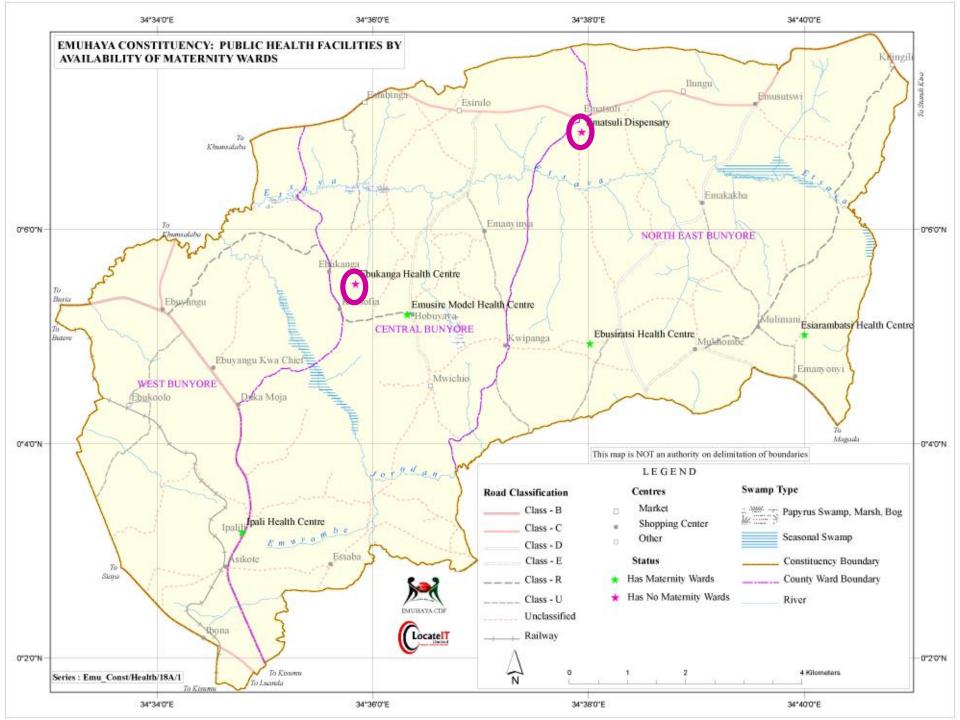


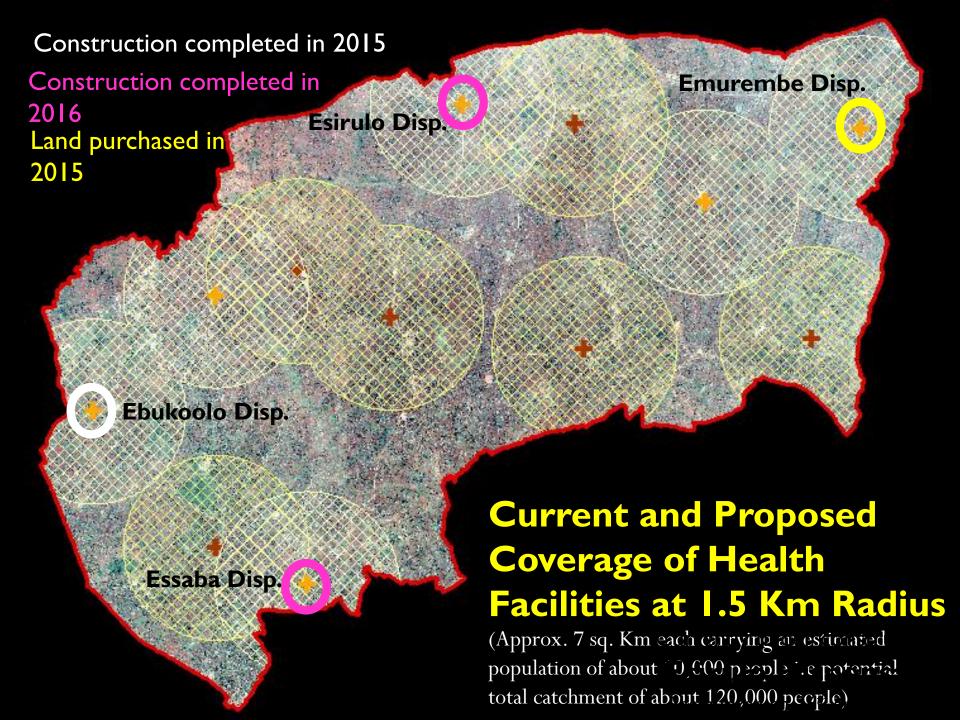


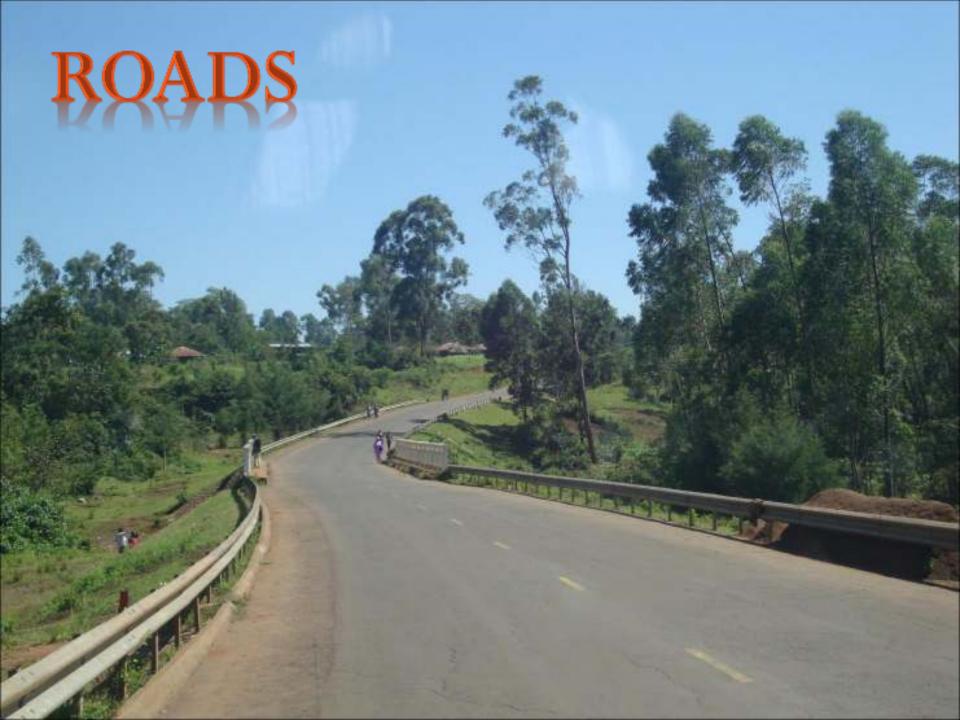


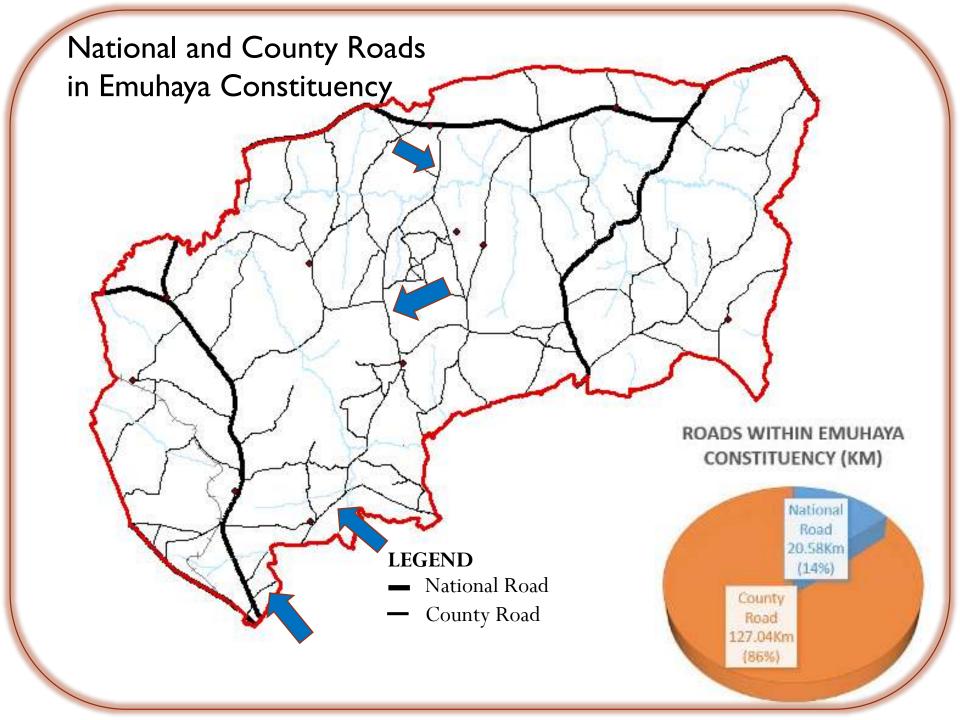
Examples from the Health Sector



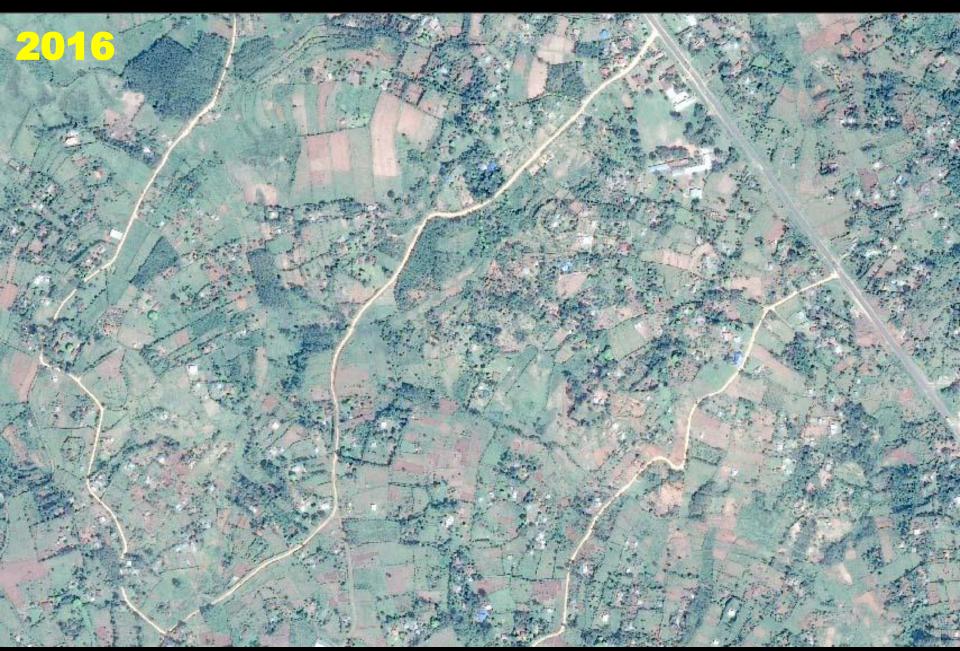








Ebukoolo Area



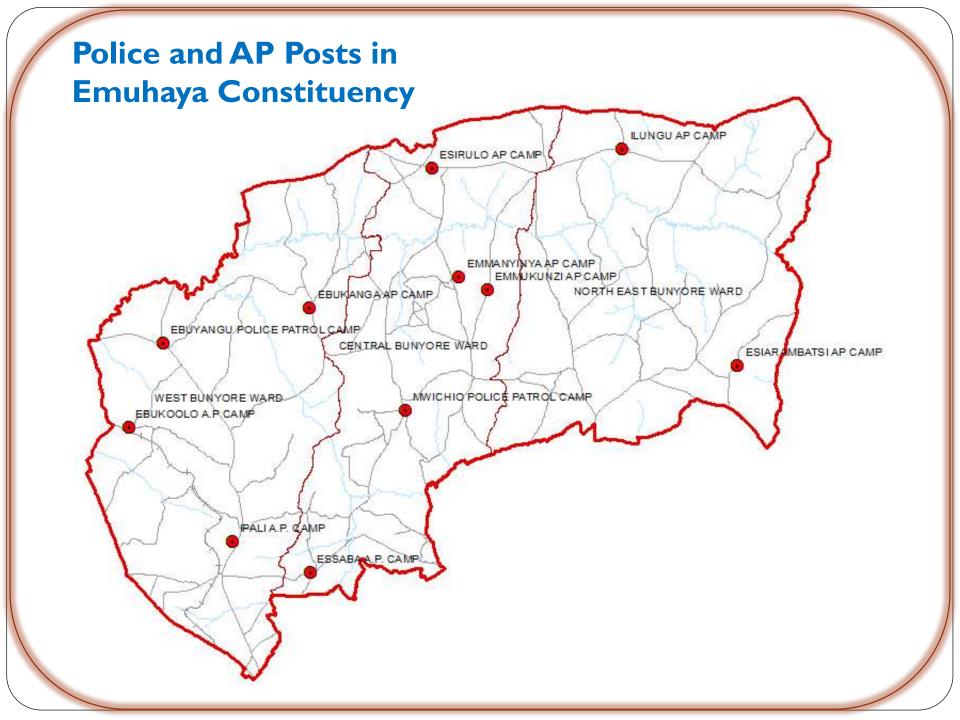
Esibuye Area



Ematsuli Area









Dr Wilbur Ottichilo for Vihiga County Governor 2017

@WKO4VIHIGA

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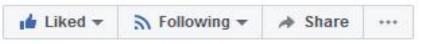
Posts

Events

Photos

Likes

Create a Page







Dr Wilbur Ottichilo for Vihiga County Governor 2017 posted 10 photos in Instagram.

The great people of Emuhondo sub-location in Ebusamia location, N.E. Bunyore Ward in Emuhaya sub-county received 1M shillings today to fund the construction of Mwituha police post from Emuhaya constituency CDF. This comes after they acquired an acre of land through CDF funding. Construction is commencing soon.

Strengthening security and instilling peace in Vihiga county is a priority for my people.

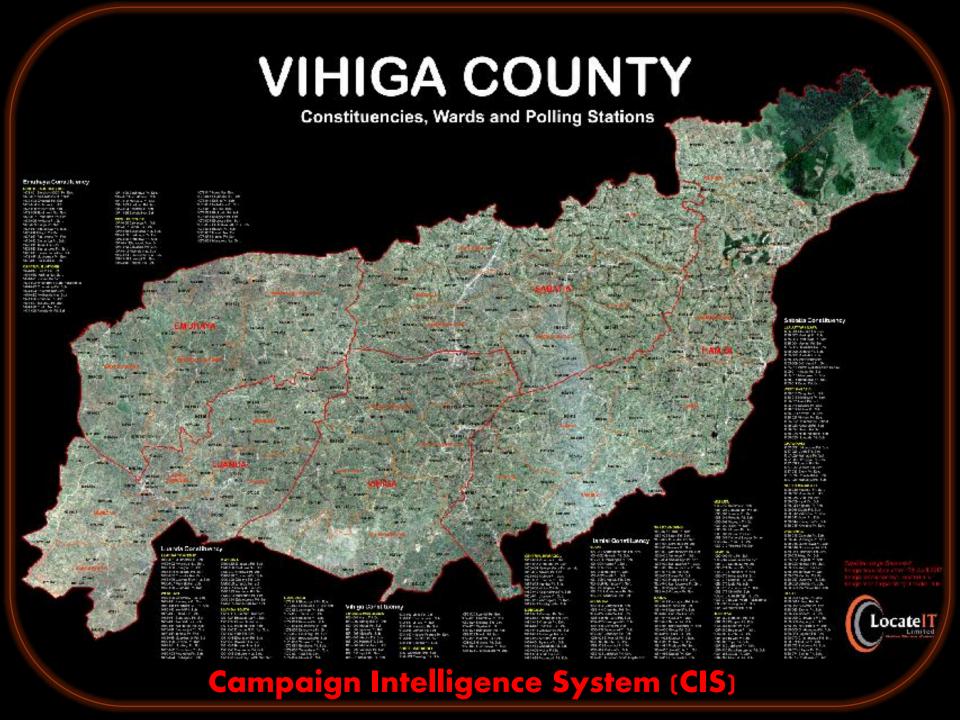
#VihigaAgenda #OttichiloTanoKwanza #MaendeleoBilaCorruption

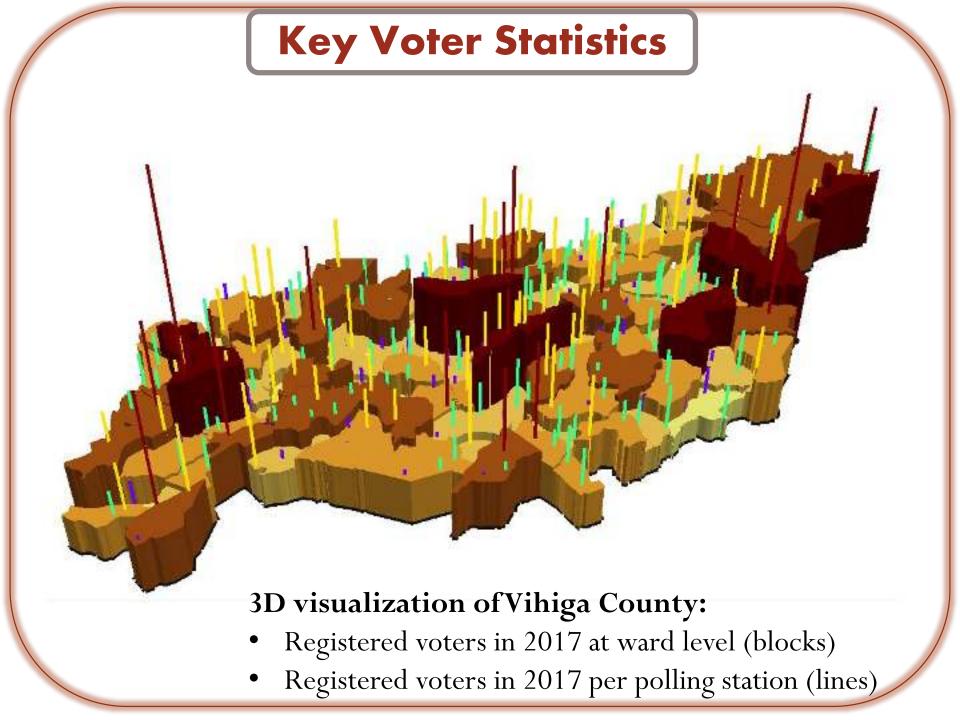


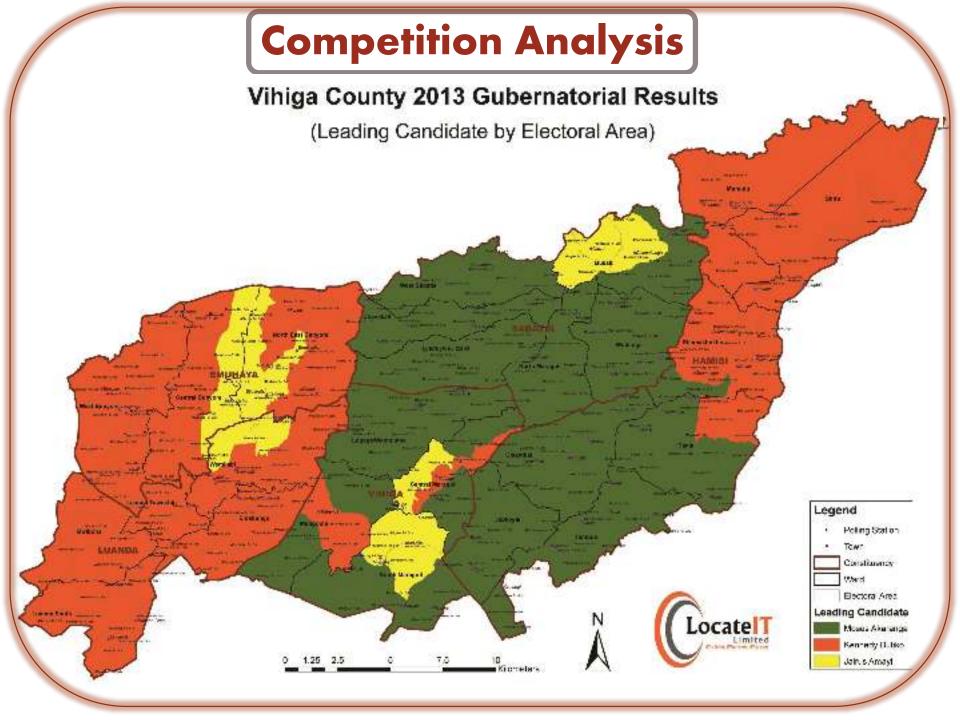
Example of Visibility Forum:

Launch of Emuhaya Constituency GIS / ICT Centre









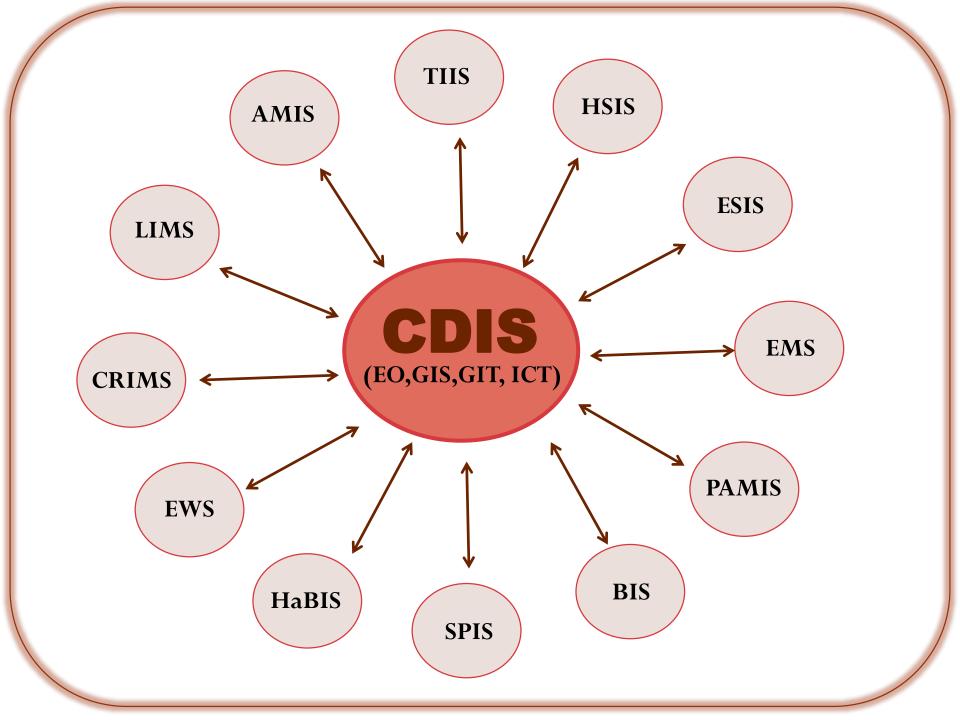
TOWARDS THE VIHIGA CDIS

- GI activities in Vihiga County are coordinated by the Department of Physical Planning, Land and Housing
- ❖ The GI activities have been conceived along the County Development Information System (CDIS) framework to effectively support the various functions defined under the Fourth Schedule on Distribution of Functions between National and County Governments. These include:
 - Health
 - Education
 - Infrastructure and transport
 - Agriculture
 - Environment and natural resources
 - Commerce and industry
 - o Etc.

The **CDIS** comprises the following sub-systems:

- i. Land Information Management System (LIMS)
- ii. Agricultural Management Information System (AMIS)
- iii. Transport Infrastructure Information System (TIIS)
- iv. Health Services Information System (HSIS)
- v. Education Services Information System (ESIS)
- vi. Environment Monitoring System (EMS)
- vii. Public Amenities Management Information System (PAMIS)
- viii. Businesses Information System (BIS)
- ix. Spatial Planning Information System (SPIS)
- x. Housing and Buildings Information System (HaBIS)
- xi. Early Warning and Response Information System (EWARIS)
- xii. County Revenue Information Management System (CRIMS)

The CDIS will support the **3is Framework** (Information–Interventions–Impacts) in Vihiga County



Vihiga County to date

- Geo-information needs assessment undertaken to inform the CDIS
- Establishing the Geospatial Technologies Services under the Department of Physical Planning, Land & Housing
 - Prepared budget for GIS software, hardware and consultancy
 - Commenced recruitment of GI staff
 - Airbus Defence and Space has provided very high resolution Pleiades imagery (50cm) covering the entire County

County Government of Vihiga is keen on the following:

- Strategic partnerships in the area of GI capacity building,
- Strategic partnerships in implementing the various components of the CDIS (Airbus: Land Information Management System, GMV: Spatial planning, & eHealth)
- South South and North South collaboration in research and technology transfer and best practices

As Governor, I wish to:

- Make Vihiga a model county in Kenya in the application of geospatial technologies in the implementation of SDGs
- Champion GI in all counties in Kenya through the Council of Governors (CoG)

CONCLUSION

- The role of Geospatial technologies in facilitating good governance, sound planning, and sustainable development cannot be over-emphasized.
- Developments and trends in Geospatial and other allied technologies only point to a favorable course for decision makers
- As a Governor, heading a County Government, and a Geospatial scientist, I purpose to use, demonstrate and champion the application of Geospatial technologies in supporting better planning and decision making in Africa.
- This is how we will empower Africa to meet Agenda 2063, the Sustainable Development Goals, among other targets

