

#### The Data Ecosystem for Sustainable Development Deqing, 17-22<sup>nd</sup> October, 2019

# Effective partnerships towards realizing the data ecosystem for sustainable development,

Lucy Mburu

**Survey of Kenya** 





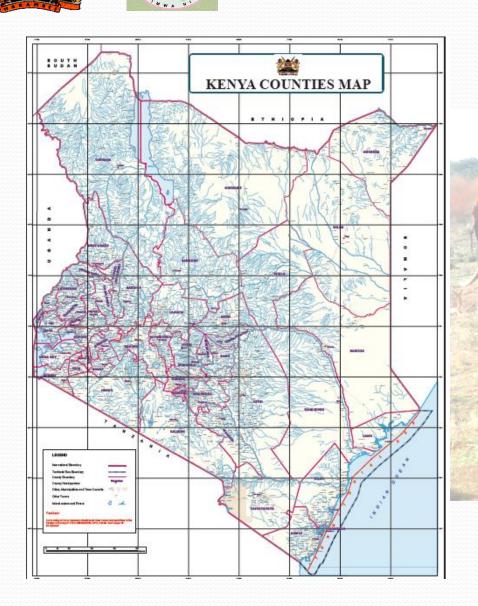
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#### Kenya at the Global Scale





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- Cities 3
  Nairobi Capital Citty The only city with a national Park
- Counties 47
- Levels of Governance 2
  - National
  - County

•Dry Land – Approx 582646 sq km A home to the Big Five

#### Survey of Kenya Headquarters

Republic of Kenya Ministry of Lands and Physical Planning





#### **Established in 1903**





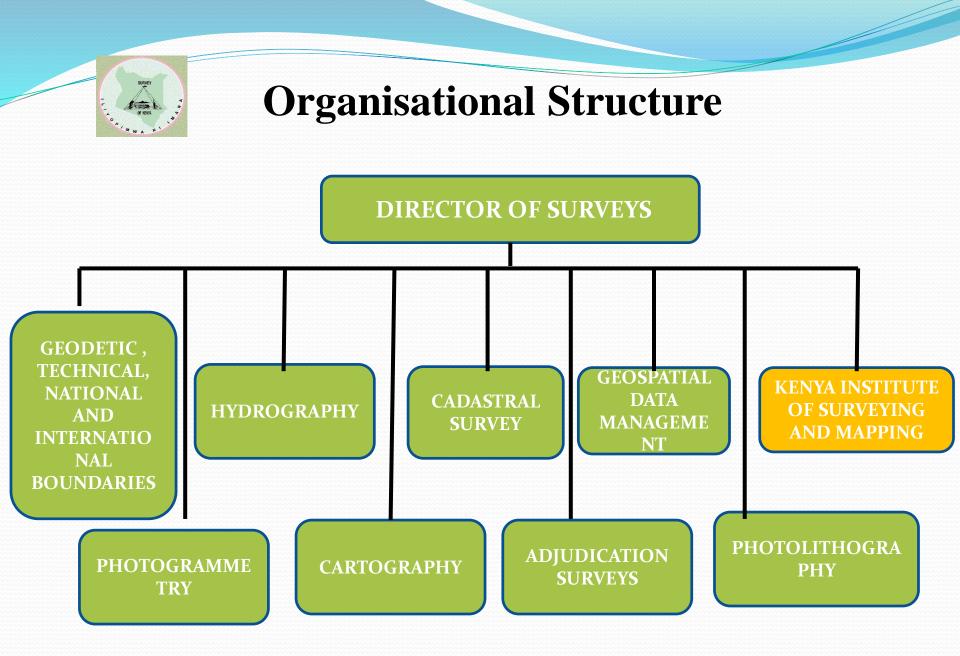




The Survey of Kenya, Ministry of Lands and Physical Planning is the National Mapping Agency and is responsible for:

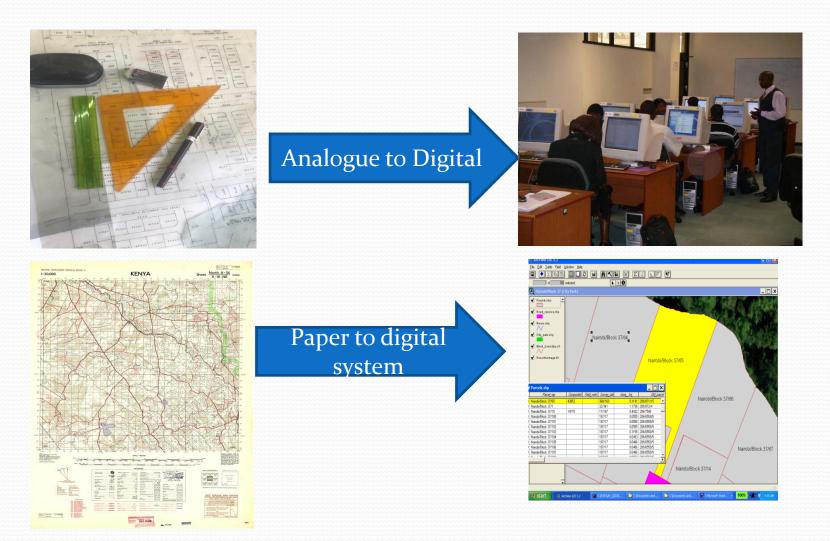
Regulating and authenticating geospatial data since 1903
Production and Management of Geospatial Fundamental data sets

• Development and Custodian of Geospatial Standards among others





#### Where We Are - where we want To Be

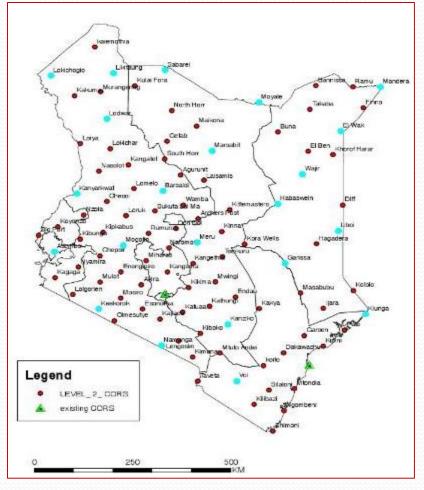






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 Kenya National Geodetic Frame (KENREF 2012)





**KENREF STN** 



Moved



21 CORs stations Established The Control Center - Survey Heaquartesr





#### Milestones

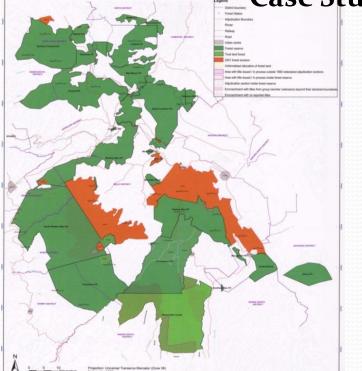
- Establishment of large-scale spatial data framework (digital maps) for the *City of Nairobi*, *Mombasa and Lamu port*.
- Creation of digital cadastre (ongoing).
- Digitization of Land survey Records covering various regions of Kenya.
- Updating and vectorization of topographical maps.





#### **Multi-Agency Approach initiatives**

#### Case Study: 1 Restoration of the Mau Forest Complex



A major Water Towers in Kenya
Approx. 400,000 ha.
22 forest blocks
21 under the Kenya Forest Service (KFS)
One, Masai Mau Forest (MMF) - under the Narok County Government (NCG)

•Mau forest ecosystem has been faced by threats and challenges that have led to degradation reducing its capacity to provide critical environmental services especially Maasai Mau Forest (MMF) Block.

Agencies Involved: Ministry of lands and Physical Planning; National Environment Management Authority; Water Management Authority; Local Administration; National Administration County Government and Opinion Leaders

#### Muilt-Agency collaborative intiatives Case Study: 2 Election Exercise 2017

- Geospatial data for all polling stations was collected
- Voters Registration was done as per the polling stations
- Voting was done real-time
- Tallying results were communicated from real-time from the polling station

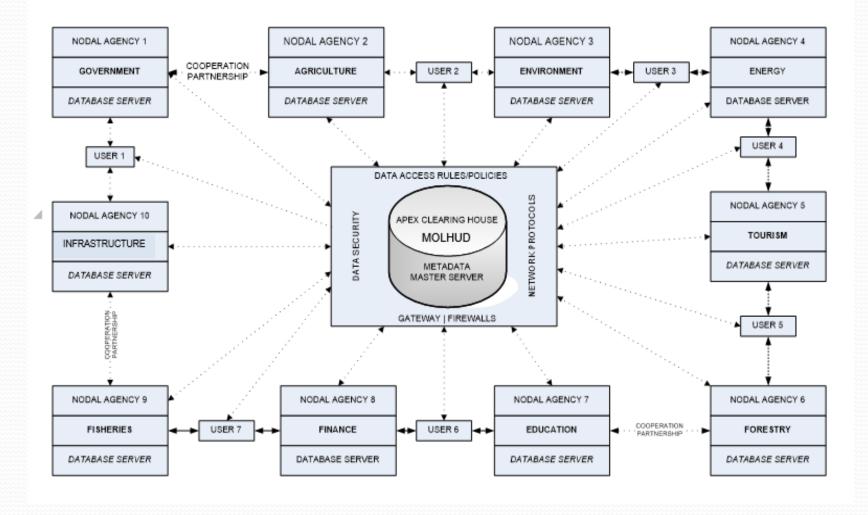
Agencies Involved:

Independent Electoral Boundary Commission; Ministry of lands and Physical Planning; Local Administration; Observers

### Strengths

- There is a road map for NSDI
- Geo-spatial Information (GI) Organizations (Stakeholders) identified
- Workshops with stakeholders held
- A Draft KNSDI Policy approved by stakeholders 2009
- Data Standards based on ISO Standards developed
- Definition and development of the fundamental Datasets done
- Creation of Metadata for Nairobi large scale maps and Cadastral Maps
- NSDI secretariat hosted by Survey of Kenya
   Kenya Geospatial Data Centre established
- Finalization of the KNSDI policy on course
- Good will for digital migration for geospatial industry









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# Challenges

- Most data is in analogue format
- Working in silos
- Lack of an operating digital system
- Legal framework

# Opportunities

- High demand for quality and accurate geospatial datasets for decision making
- Room for technical support
- Need for public private partnership among others



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# Way Forward Support to fully migrate to digital platform Formulation of legal framework Establishment of interlinked digital systems Actualization of the NSDI

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# Inform $\rightarrow$ Inspire $\rightarrow$ Support Were are One Planet – One Global Village



# We need to walk together

