

Geographic Classification and Geo-coding in Kenya

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Kenya National Bureau of Statistics is ISO 9001:2008 Certified

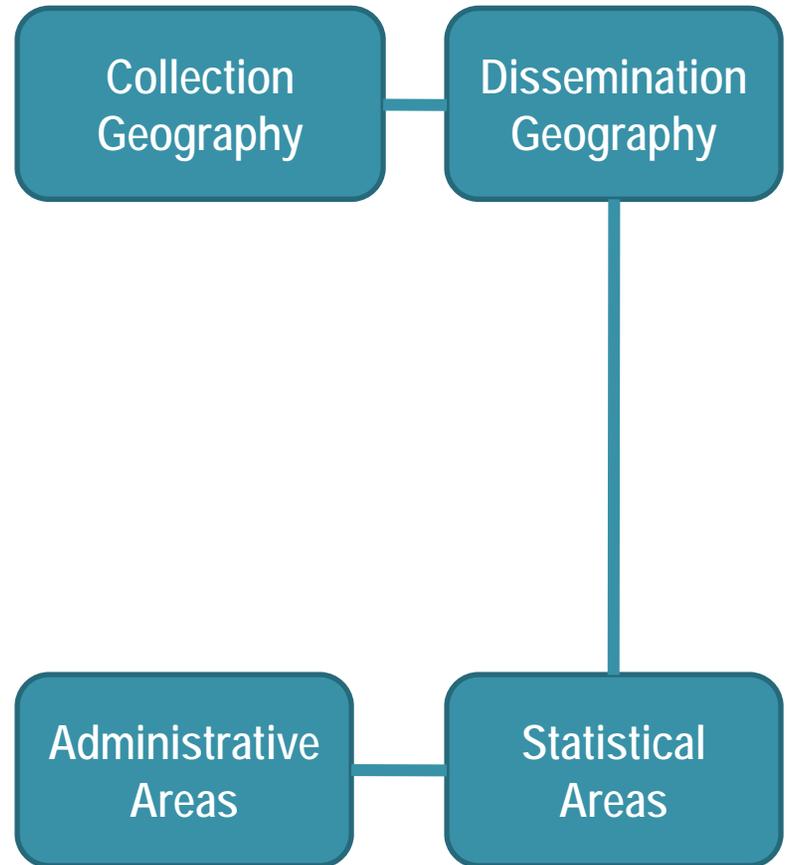
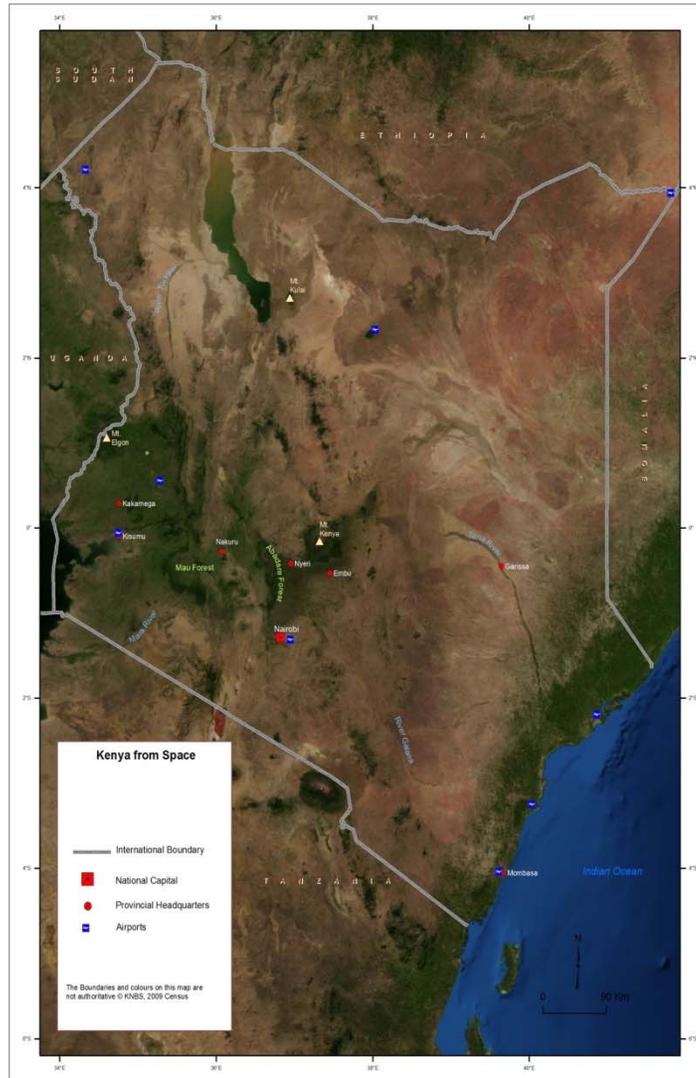


KNBS
KENYA NATIONAL
BUREAU OF STATISTICS
Keeping you informed

Content

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2. Hierarchy of geographic areas
 - a) Administrative
 - b) Urban/rural
 - c) Political
 - d) Enumeration Areas
 - e) Statistical
3. Geo coding System

Kenya Geographic Areas



Introduction

- Census geography describes the subdivision of the country into geographical areas for the purposes of the census.
- There are two major uses of a census geography:
 - Facilitate the organization and management of the census itself;
 - Provide an appropriate framework for the publication and dissemination of small area census statistics to users.

Introduction cont' ...

- Obligation of the Kenya National Bureau of Statistics is to provide the most complete and accurate population figures for evidence based planning and policy formulation.
- Statistical information from KNBS are also used in:
 - allocation of public devolved funds to various levels of geography (CDF, County Governments among others) authorized by the constitution,
 - Administration of social and economic trends in the public and private programs.

Type of need and use	Description and Geography	Geography	Examples of Clients
Allocation of devolved resources	<ul style="list-style-type: none"> Population census data is main criteria for Allocation of County Finances at all levels 	✓ County	<ul style="list-style-type: none"> CRA
Political	<ul style="list-style-type: none"> Delineation, adjustment of boundaries of political Units i.e. Constituencies and County Wards 	✓ Constituencies and county wards	<ul style="list-style-type: none"> IEBC
Administrative	<ul style="list-style-type: none"> Creation of new administrative units 	✓ Sub counties, divisions, locations and sub locations	<ul style="list-style-type: none"> National Government
Research	<ul style="list-style-type: none"> Sampling, creating sampling frames. Background information to research studies 	✓ Enumeration Area	<ul style="list-style-type: none"> KNBS Research Institutions Students
M&E	<ul style="list-style-type: none"> Development of indicators. Population Census data is used as denominator in calculations of many socio-economic indicators such as, in Education -Net & Gross Enrollment Rates in schools, universities, Literacy rates; In Health – immunization coverage, disease prevalence rates e.g. HIV, malaria, Maternal mortality rates; in Population wellbeing – poverty incidence, levels 	<ul style="list-style-type: none"> ✓ National ✓ County ✓ Sub Counties ✓ Sub locations 	<ul style="list-style-type: none"> Government-MDAs e.g. education, health, planning KNBS UN Agencies

Planning	<ul style="list-style-type: none"> • General Project planning • Provision of services – water, health • Urban (spatial) Planning (Urban) 	<ul style="list-style-type: none"> ✓ National ✓ County ✓ Urban ✓ Rural 	<ul style="list-style-type: none"> • MDAs, NGOs, Investors
Business/ Commerce	<ul style="list-style-type: none"> • Determining import quotas e.g. imports to cover shortfalls in local production of key crops such as sugar, maize etc or drugs • Marketing of products & services e.g. MPESA 	<ul style="list-style-type: none"> ✓ National 	<ul style="list-style-type: none"> • KSB, NCPB, Ministries of Agriculture, Trade, • Private business entities
Environmental Impact Assessments (EIAs)	<ul style="list-style-type: none"> • Determining populations affected by impacts of new projects either for compensation or other mitigation measures 	<ul style="list-style-type: none"> ✓ All levels of geography 	<ul style="list-style-type: none"> • NEMA • Investors e.g. mining companies
• General awareness	<ul style="list-style-type: none"> • Knowledge, Curiosity 	<ul style="list-style-type: none"> ✓ All levels 	<ul style="list-style-type: none"> • Public/Citizens

Hierarchy of Geographic Areas

- All these needs are recognized under the hierarchal order of diverse geographic areas;
 - Administrative
 - Urban /Rural
 - Political
 - Enumeration Area
 - Statistical
- Forms the framework for the collection, tabulation and presentation of data from its decennial censuses, and intercensal surveys

Hierarchy of Geographic Areas

- Administrative boundaries
 - In 2009 census Kenya was administratively divided into six levels: Province, District, Division, Location and sub location.
- Political boundaries
 - Politically Kenya had 210 constituencies and 3,700 civic wards
- Enumeration Area (EA) Boundaries
 - This can be the size of a village or half the village
 - Before a population census the entire country is delineated into EAs to be covered by an enumerator to ensure complete coverage

Hierarchy of Geographic Areas

- EAs delineated from October 2006 to July 2009 for the 2009 Census.
 - Verification of EAs done in selected Districts
 - On average an EA consists of 100 households
 - The public and academic institutions also use them when conducting surveys and researches.
- **Statistical Boundaries**
 - After every population census a Master Sampling Frame is created for the household based surveys to generate official statistics.
 - The current frame was created after the 2009 Census
 - This is the largest sampling frame ever in Kenya with a total of 5,360 clusters

Hierarchy of geographic boundaries

Collection Geography

Enumeration Area

Sub location

Location

Division

District

Constituency

Urban/Rural

Province

National

Dissemination Geography

National

Province

Urban

Constituency

District

Division

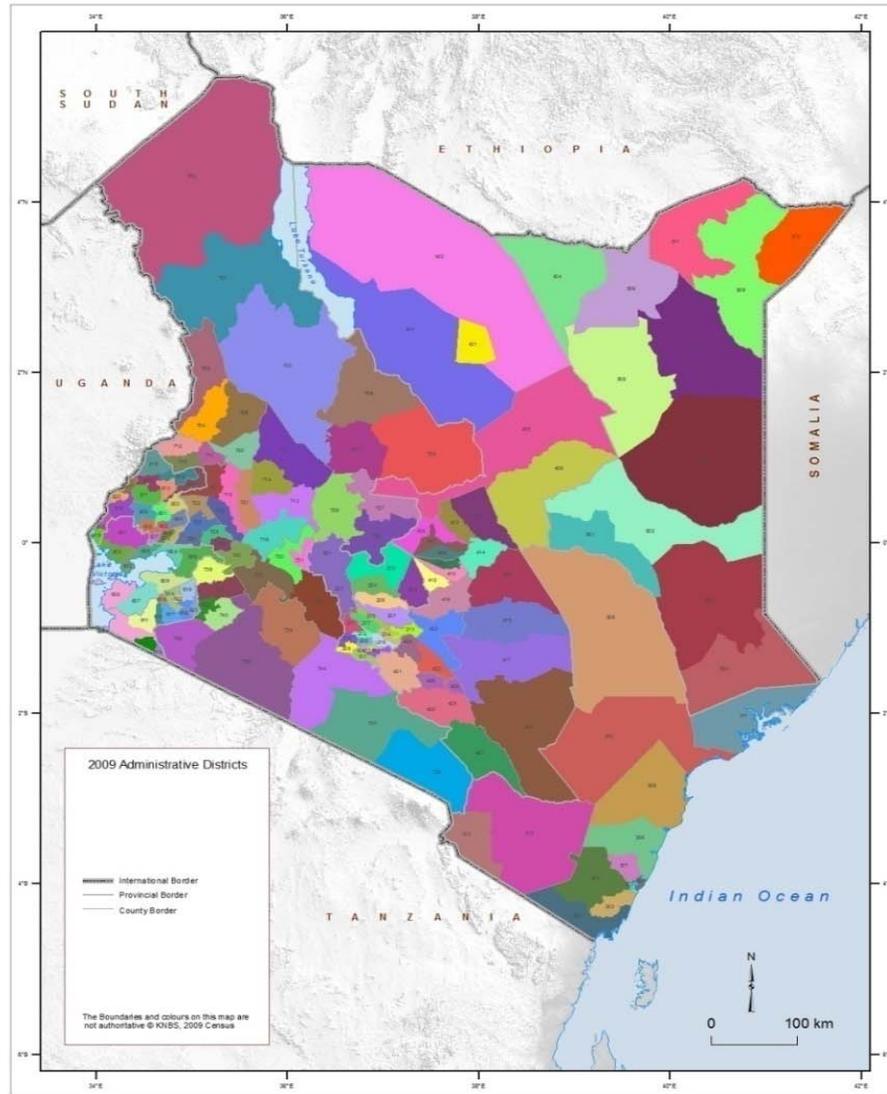
Location

Sub location

2009 Collection Geography

Provinces	(8)
Districts	(158)
Divisions	(635)
Locations	(2,735)
Sub locations	(7,149)
EA	(96,252)
Constituencies	(210)
Urban	(215)

158 Census Districts



2019 Census Collection Geography

Counties	47
Constituencies	290
Sub Counties	290
Divisions	*
County wards	1450
Locations	*
Sub locations	*
EA	*

Counties are legal Areas

** means the areas are likely to change before the 2019 census*

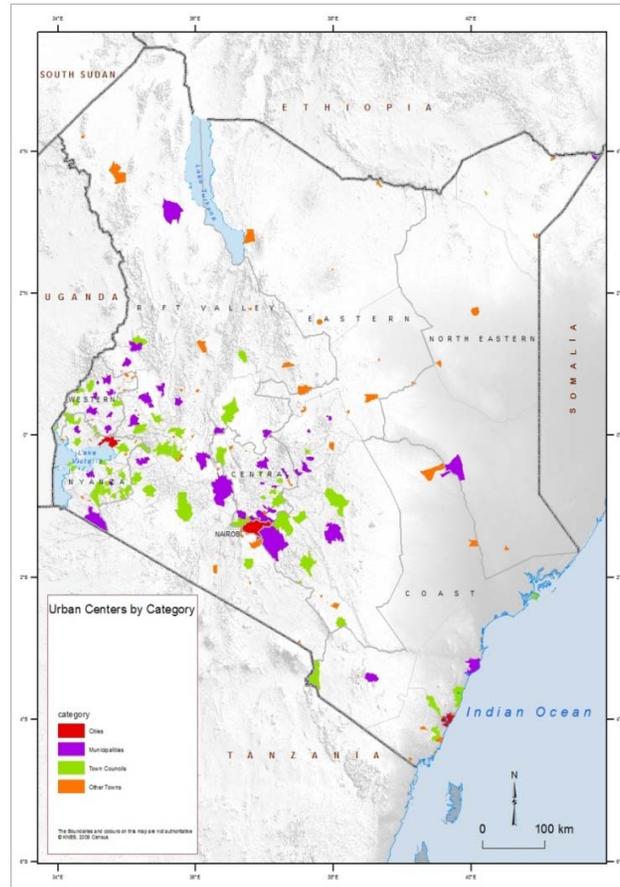
Urban/Rural Boundaries

- Census data in Kenya is disaggregated by rural and urban.
- Urban areas refer to areas with increased density of human – created structures in comparison to the areas surrounding it and has a population of 2000 and above
- Urban areas include the following: cities, municipalities, town councils and urban councils

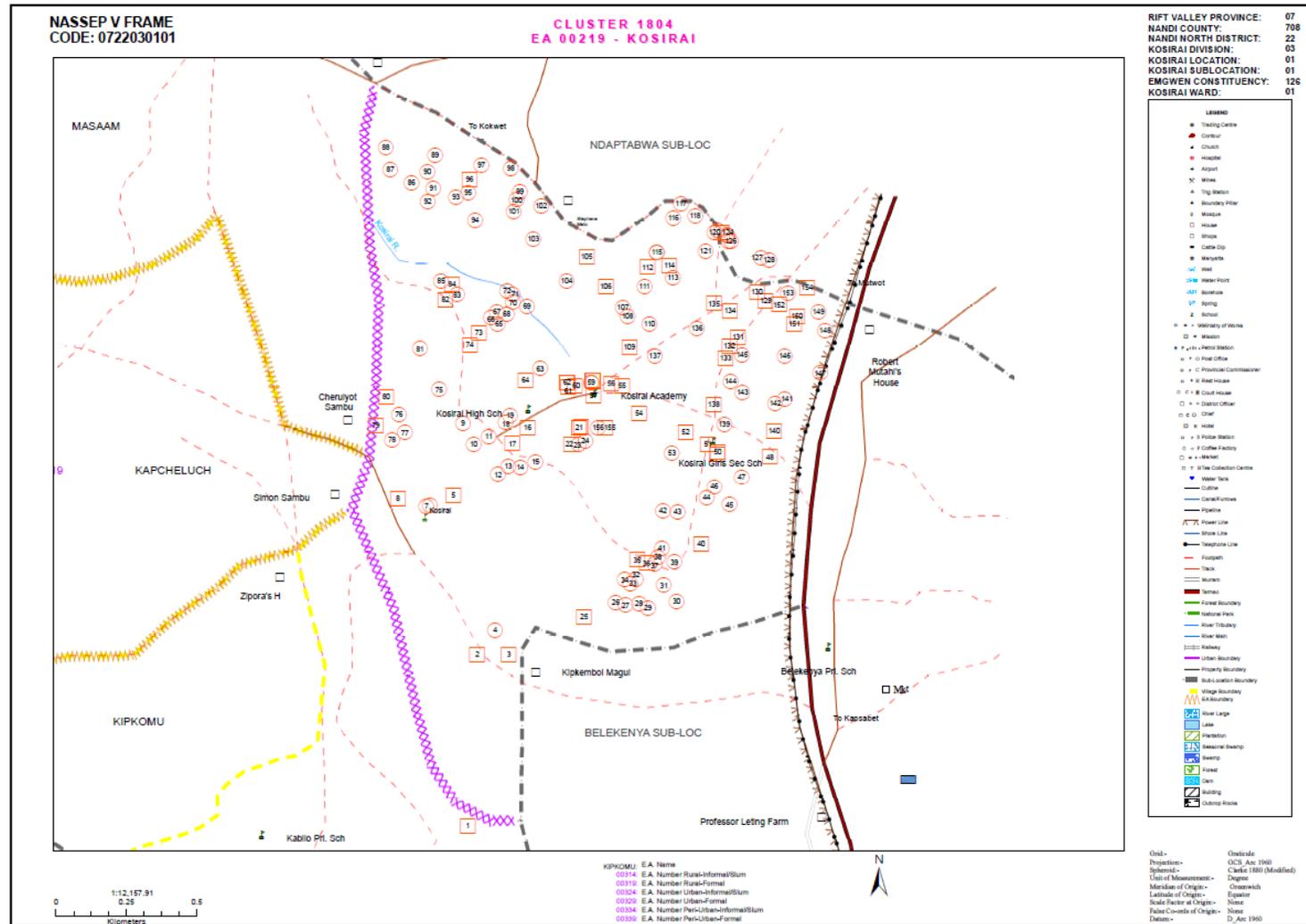
Urban Boundaries

- During the 2009 Census, there were 215 urban areas. These were under the then Ministry of Local Government.
 - Cities 3
 - Municipalities 41
 - Town Councils 55
 - Others 116
- These were utilized as collection and dissemination geography for urban areas

Urban Geography Boundaries



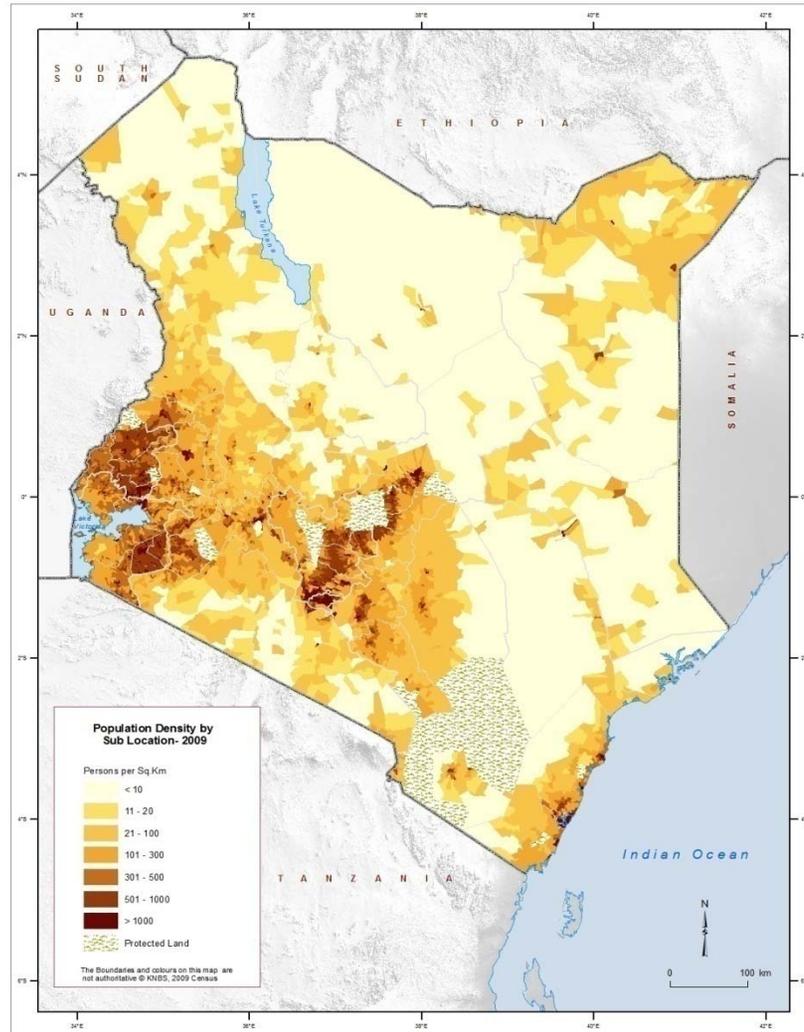
Statistical Boundaries



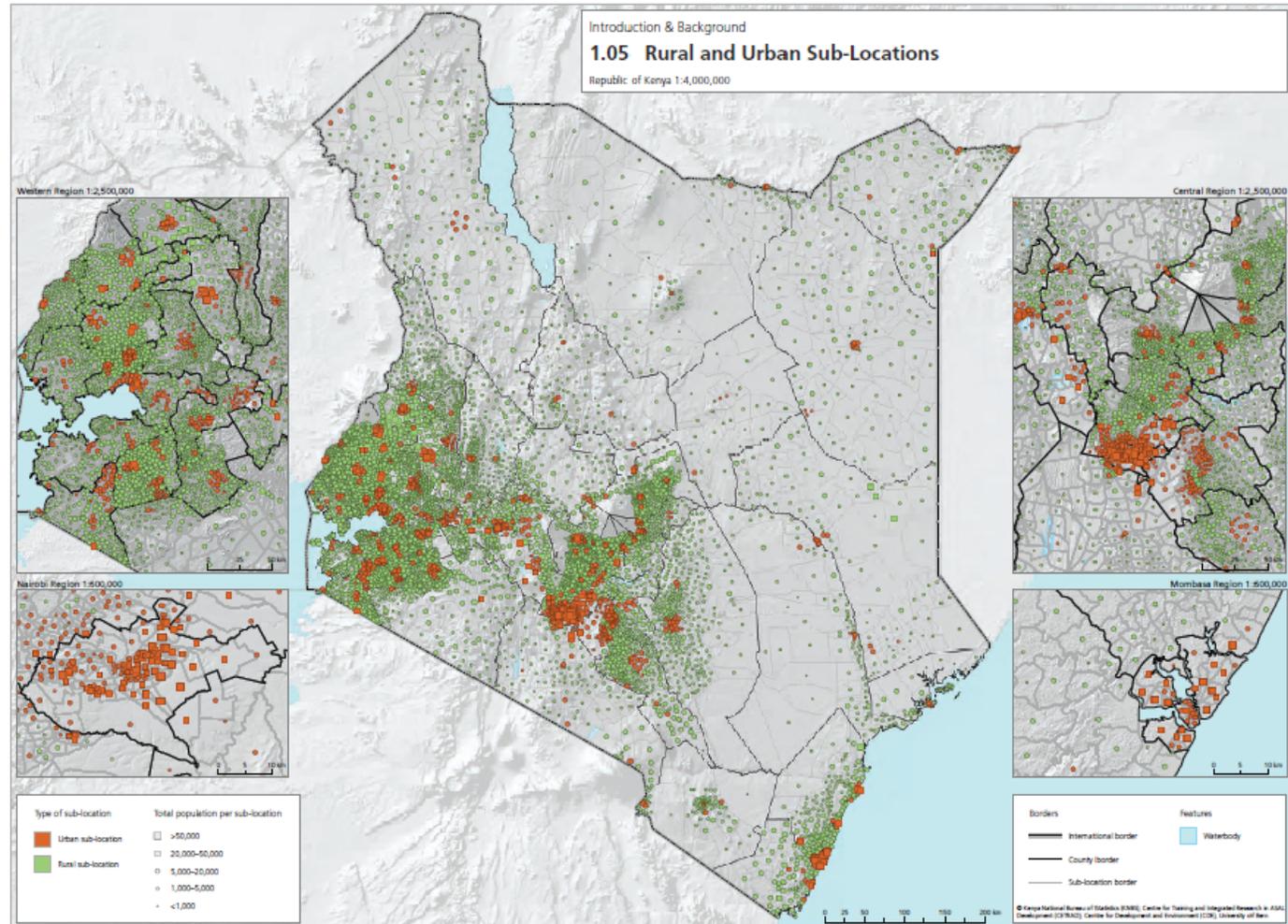
This map is not an authority on delineation of boundaries



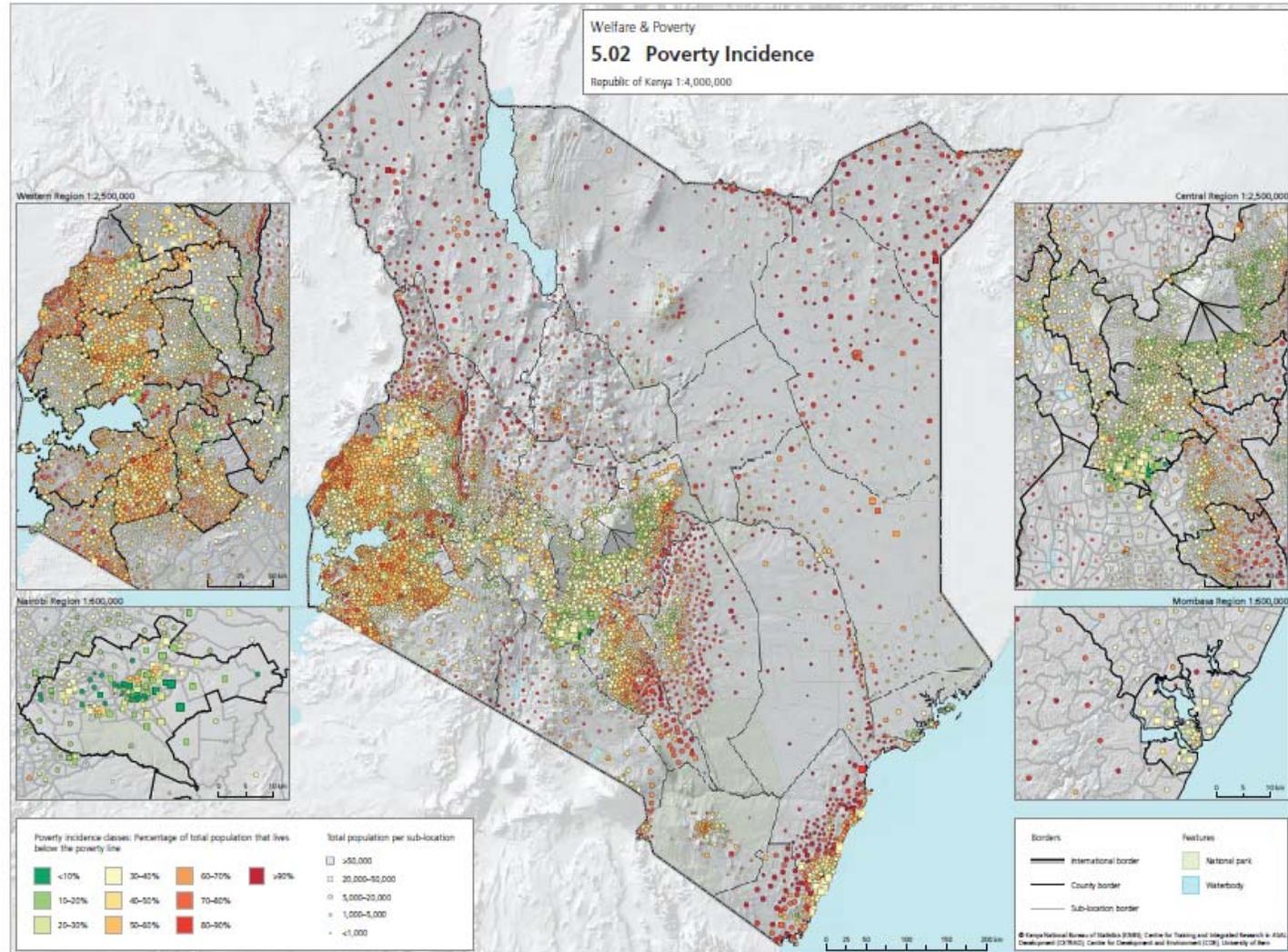
Population Density by Sub location



Urban and Rural Sub locations



Poverty Incidence



Census Geo coding System

- All the geographic areas are managed by a unique geo coding system having 20 digits
 - Province 2 digits
 - District 2 digits
 - Division 2 digits
 - Location 2 digits
 - Sub location 2 digits
 - EA 3 digits type 1 digit
status 1 digit
 - Constituency 3 digits
 - Ward 2

Thank You

Kenya National Bureau of Statistics is **ISO 9001:2008 Certified**

