

KENYAN HEALTH CLINIC MAPPING PROJECT

MAPPING SCENARIO: The Kenyan Ministry of Health is conducting a national survey on the relation of health clinics and their correlation to population statistics of each of the districts within Kenya. The objective is to determine whether there is a relative balance between the concentration of health clinics and the commensurate population, and to identify regions where the current population exceeds the resources which can be provided by the health clinic.

This project will be generated in three phases. The first phase is to generate a national map displaying all health clinics found within Kenya and plot them by latitude/longitude on a map of the nation. The data will come from the [Kenya Open Data Portal](#). The second phase of the project will be to link general attributes found within the data (ex. public/private, type of facility, number of beds, etc.) to each of the reference markers. The final phase will be to import population data for each of the districts of Kenya along with attribute data regarding population within each district.

What Will Our User Team Get Out of the Product? The goal of the team is to build a national map of Kenya that has the ability for the user to explore data for both individual health clinics as well as analyze correlations (and outliers) between health care accessibility and population statistics.

What Will Map Users Get Out of the Product?

1. A visually appealing map in which they can view the distribution of health clinics at the national and/or local level
2. The ability to easily access basic information about each health clinic within the dataset
3. An ease in filtering data which will allow the user to browse ONLY health clinics which meet a specific set of identified parameters (ex. public/private, facility type, etc.)
4. Quick access to statistics which will allow the user to readily identify districts within Kenya that may have overrepresentation of health facilities per size of population versus those which have underrepresentation. This aspect of the project will be by far the most useful in allowing decision-makers to determine where to best address the health needs of Kenya based upon its population.

Content Requirements:

1. A base map of Kenya (provided by Open Street Maps)
2. Data from the [Kenya Open Data Portal](#) of the location of Kenyan health clinics and associated data (ex. number of beds, clinic type, etc.)
3. A polygon layer of Kenyan districts, including a CSV table of population per district, as well as land area statistics to build a population density field
4. Data for both clinics as well counties which can be accessed by a popup
5. Map legend with a dropdown box to filter between types of health clinics
6. Basic contact information as well as data documentation web URL

Functional Specifications:

1. Data layers drawn onto the map
2. Zoom in/out functionality with health clinic layer to disappear beyond a certain zoom out scale
3. Popups to generate on-map-click to provide information about health clinics and district population data
4. Dropdown menu to allow the user to filter and search by specific data fields germane to health clinics
5. An information graph which generates the number of clinic hospital beds per district population which will be dynamically updated as the user hovers the mouse over each district within Kenya