**Kenyan Livestock Farming**

**Mapping scenario:**

A livestock medical supplier is using [Kenya's open data portal](https://www.opendata.go.ke/) to analyze the cattle, goat, and sheep population of Kenya. They require the ability to spatially visualize livestock populations by district in order to better identify any connecting districts of significant livestock populations. They will use this data to identify where to initially concentrate their sales efforts.

This supplier lacks sophisticated visual web mapping tools and have contracted with me to assist with this effort.

**What do I want to get out of this project?**

* An intuitive interface geared to regular users that visually represents the data expressively and allows for interaction with the visual and underlying data

**What do I want the users to get out of it?**

* View by district the number of cattle, goats, and sheep.
* Identify connecting ‘strips’ or ‘ribbons’ of high concentration of livestock to enable target near-term business development.
* Identify complimentary (less concentrated areas) for future development.

**Content requirements:**

* Data displayed on basemap to include livestock by category and by district.
* A basemap that highlights cities and topographic features such as mapbox.outdoors, mapbox.run-bike-hike, or mapbox.streets.
* Appropriate legend depicting each class.
* An info panel to display relevant facts such as district, populations of each livestock category and county.
* Pop ups to displaying the district, county, and livestock population for that point.
* Legend will inform users of the map’s current content
* Link to the data (Excel spreadsheet).

**Functional specifications:**

* Data layers tiled and drawn on map
* Restricted ability to pan—map will maintain Kenya focus.
* Ability to for user to zoom using either the mouse or the zoom control; max zoom will be set to Kenya and the max zoom may be limited.
* Popup each population marker providing specific information.
* Additional calculations are completed and this dataset is joined/added to map