Lab 04- Agricultural Operations by Ownership Type in Kenya

**Strategy Plane:**

1. Why are you making this product?

This map is being made to help the Kenyan Department of Agriculture understand farm land tenure to prioritize interventions that would increase ownership. Or if there was a farmland rights group that wanted to advocate for more cooperative farmland ownership, they could use this data as a baseline to determine what areas of the country this type of land ownership is more prevalent, therefore more likely to have residents that are interested in increasing the amount of cooperatively owned farms.

1. What do we want to get out of this product?

a. Determine what counties have lower and higher percentages of each ownership type

b. Be able to visually compare each land ownership type across Kenyan counties

c. Would love to be able to compare 2005 to more updated data, but may have to dig around a lot to find this data.

1. What do our users want to get out of this product?

a. Be able to select a different ownership type to change the map dynamically

b. Ability to click on the county to get the county name, exact percentage of ownership type and total number of farm operations.

c. If I can get data for other dates, the user could access a ul slider to compare temporal changes.

Scope Plane:

**Content requirements**

* quantitative data will be represented as percentages in a cholorpleth map
* Need function to calculate percentage from data available
* data will be encoded using a color ramp for percentage breaks
* raw farm operation totals will be available to the user
* data will be displayed on a basemap for locating counties in wider geography
* a legend will inform user of the color ramp
* a ul control will be available for the user to switch between ownership types to change what information is displayed on the map.

**Functional specifications**

* map will load data dynamically from CSV file
* Data layer will include feature data- i.e. farmland ownership type percentage by county.
* Data layer will be drawn to map
* additional information (i.e., raw totals) will be attached to each county and available for user when click or hover event occurs
* a ui-control widget will allow user to re-symbolize the map based on ownership type
* Labels for farmland ownership type will be stylized