**Final Project- Lab 06**

1. the **map topic** and/or geographic phenomena your map will explore:

My final project will focus on the geographic distribution of multiple categories of Agricultural Value-based Supply Chains (VBSCs) in the U.S. The goal is to provide an interactive tool for food systems researchers to analyze what types of VBSCs exist in various regions. Types to display include: Food Hubs, CSAs, Cooperatives and further categories are: Value-claims, Geographic service area (county, regional, state, national) and Agricultural products flowing through the system.

**Possible Title:** The Geography of Values in U.S. Alternative Agriculture Supply Chains

1. an articulation of the **map's objectives** and **user needs**

**User Persona:**   
Scholars focused on agri-food system reform and local food system development theories. Also, professionals in this field or who are decision-makers that influence their local environments such as community organizers, city planners and economic development officers. Also, farmers who are looking for VBSCs as possible markets.

**Objective 1:** Torque map that reflects density of particular types of VBSCs. Categorical map using dots that show 4 different types (unique color for each type: CSA, food hub, online, cooperative).

**Objective 2:** Create side panel with filter controls for different attributes. Points only display when filter is true.

**User Needs:**

**a.** Mouse over state that pulls up a side panel with state-level breakdown

**b.** Info-window for each location that describes: contact info, value claims and check-list of produce- Need to figure this out for overlapping city locations.

**c.** Legend

**d**. UI Selector to change torque based on VBSC type

e. The database needs to be easily updated (but there does need to be a process for vetting new submissions by users)

1. your **data source** and (at least a sample of) the data required to meet the map's objectives

The data is a csv file with primary data collected from a two-year multi-state research project. Currently there are 260 individual VBSC points, but in order to get the data “map ready” will require too much time to add addresses and then geo-coding. So, in order to finish the map by the final project deadline, I am going to focus on the South-east region. This way I can focus on the technical aspects of the project.

How to geocode without CartoDB:

Data clean up: Need to select “Quote all text cells”

QGIS geo coder- After Open office was used to create a CSV file

Editing locations manually by opening the file in Brackets. Find in brackets and update there then add back to QGIS.

Can also edit lat/lon in CartoDB

Can move points to their correct location in geoJSON.io

Ultimately want to use Shape and GeoJSON files

Fetch data from CartoDB for easy database management

To do regions: May not need to do this

Select states in QGIS and save as separate GeoJSON files

For the map- Be able to hover over the region to get regional specific data.-

Need to decide what specific attribute information I want to show for the region

Filter- use function to loop through all points and identify specific category and if it is that then it will be displayed.