HackCulture Final Project - Food Inspections and Bias in Chicago

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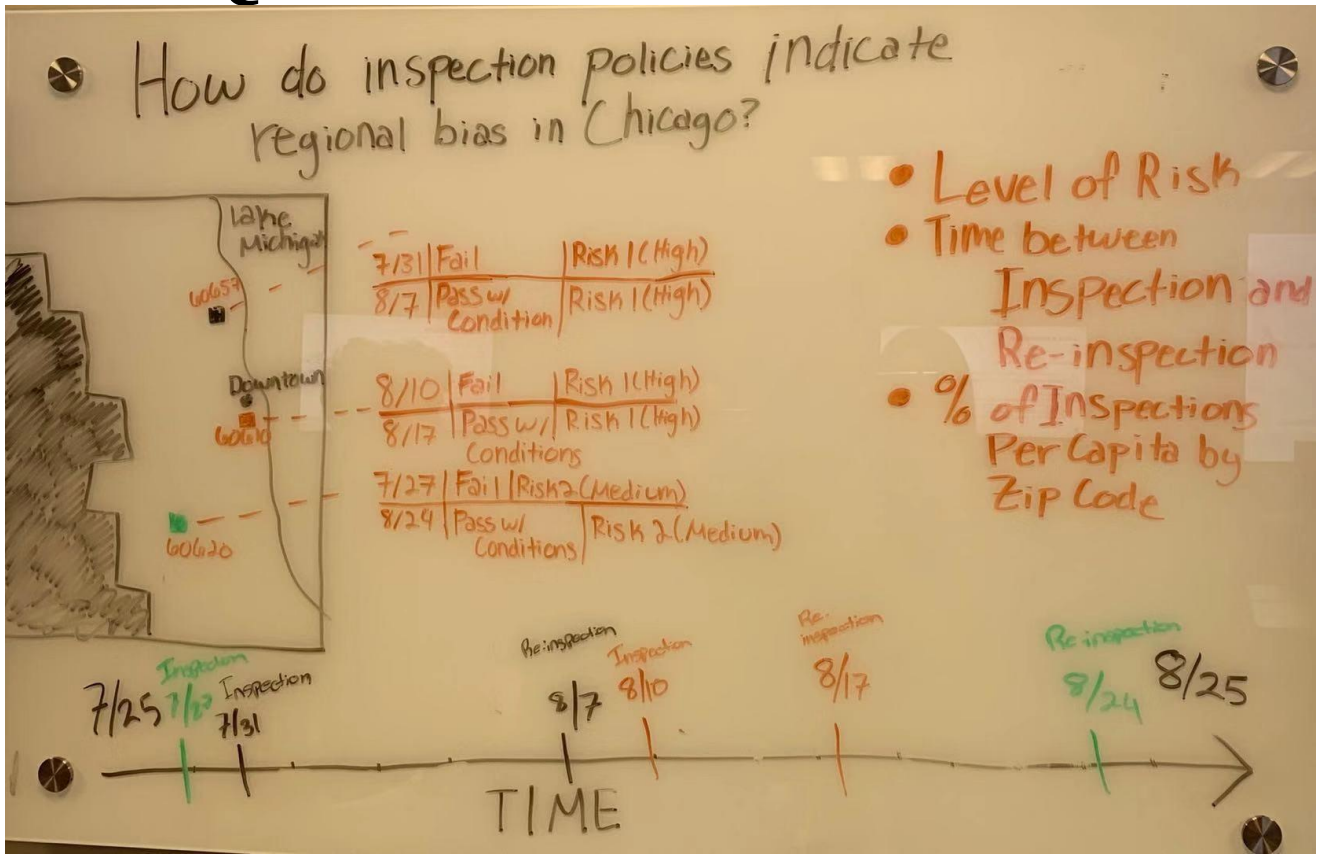
Agenda

- The Question
- Data Visualization and Analysis
- Conclusion and Implications

The Question



Compare food inspection data with census data

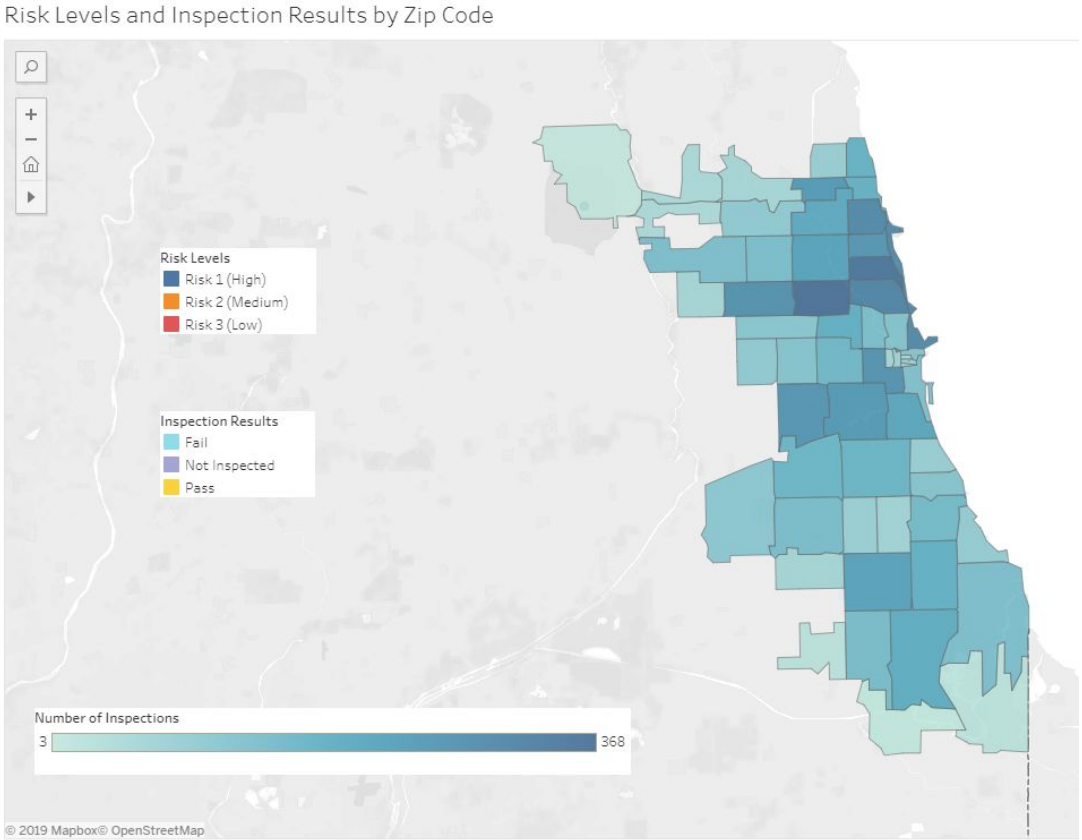
Are there any trends?

- higher rates of food inspection failures?
- food inspection risk levels go up?
- population diversity and relationship with food inspection?

Food Inspections and Bias in Chicago Tableau Dashboard

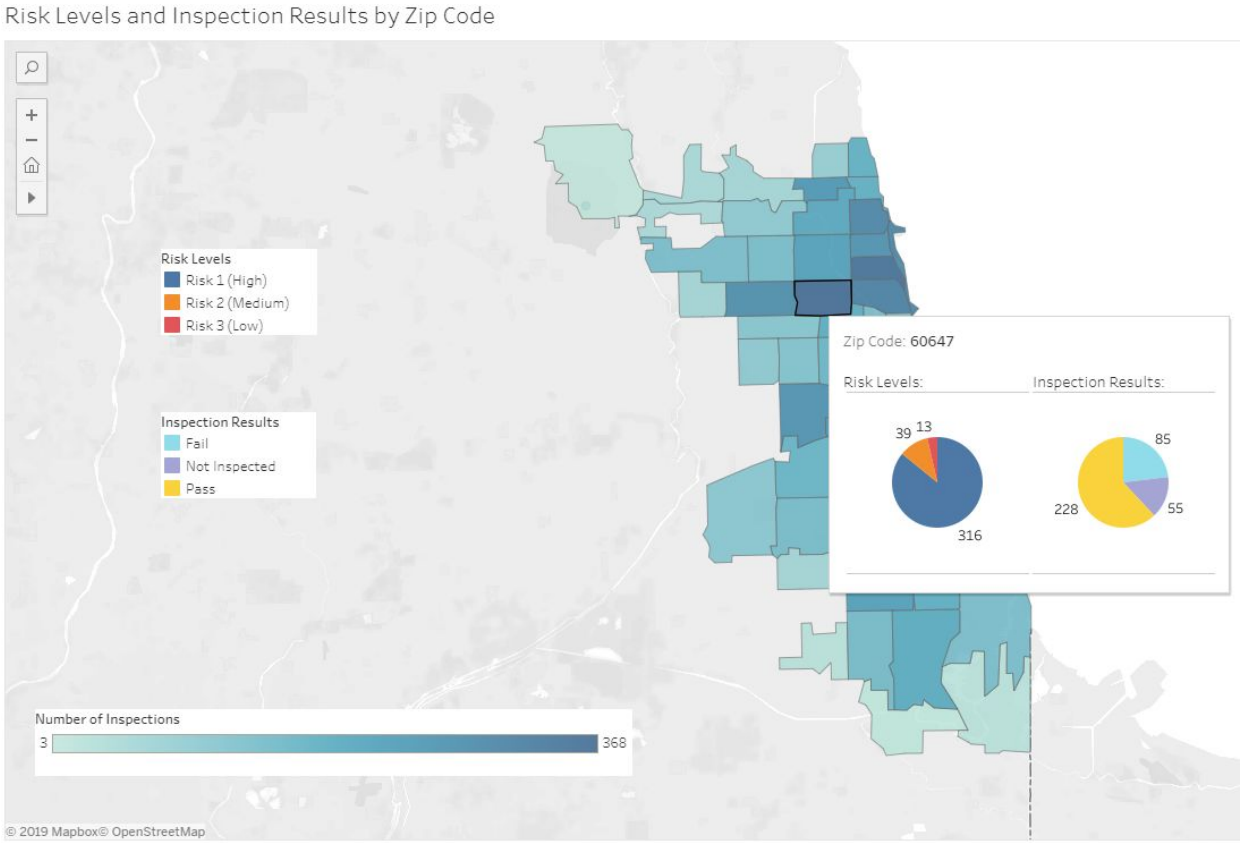
https://public.tableau.com/profile/kitty2932#!/vizhome/FoodInspectionData--FinalAttempttoMerge/PopulationDemographics?publish=yes

Data Visualization- Risk Levels and Inspection Results by Zip Code

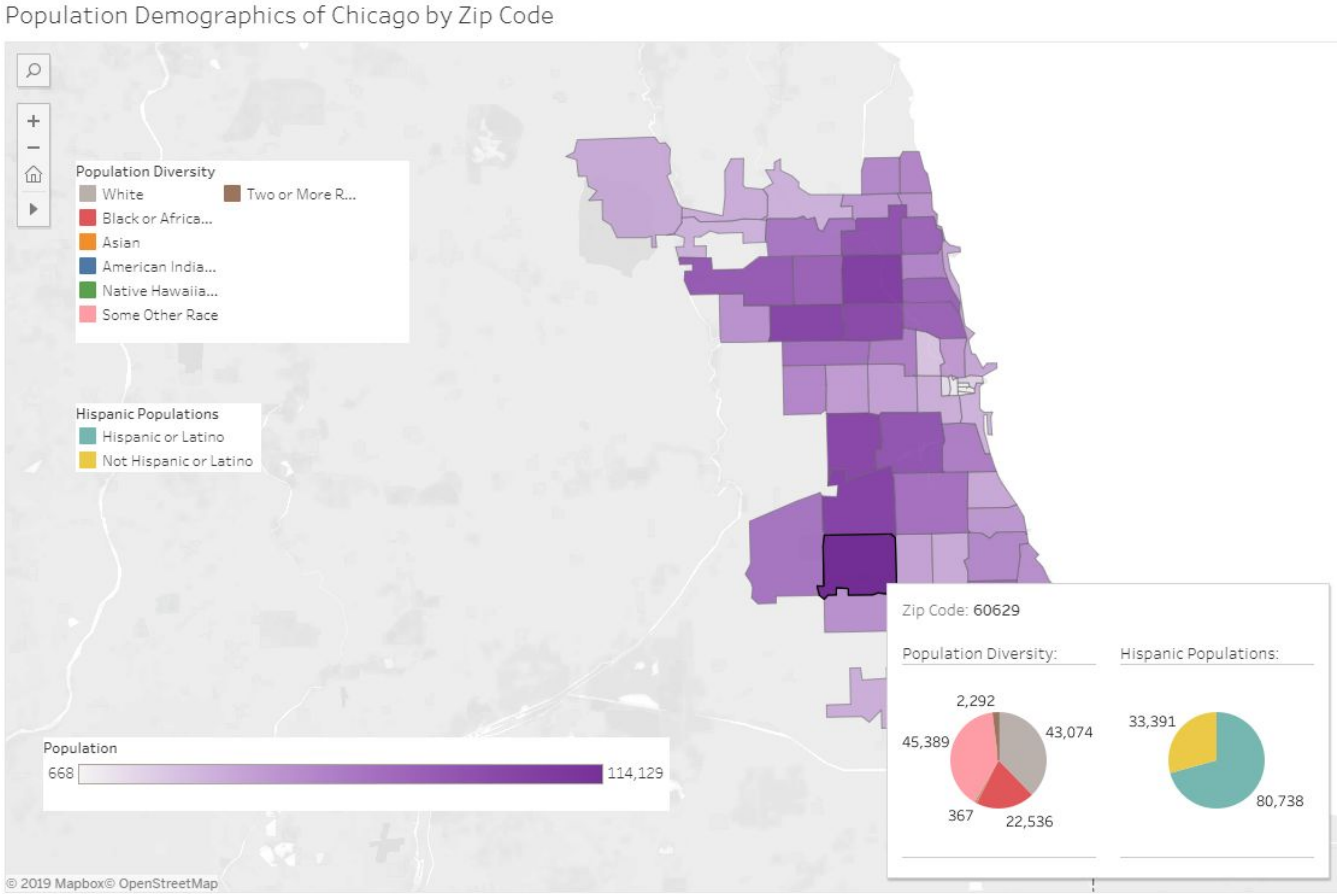


Link to Tableau:
https://public.tableau.com/profile/kitty2932#!/vizhome/FoodInspectionData--FinalAttempttoMerge/Dashboard5?publish=yes

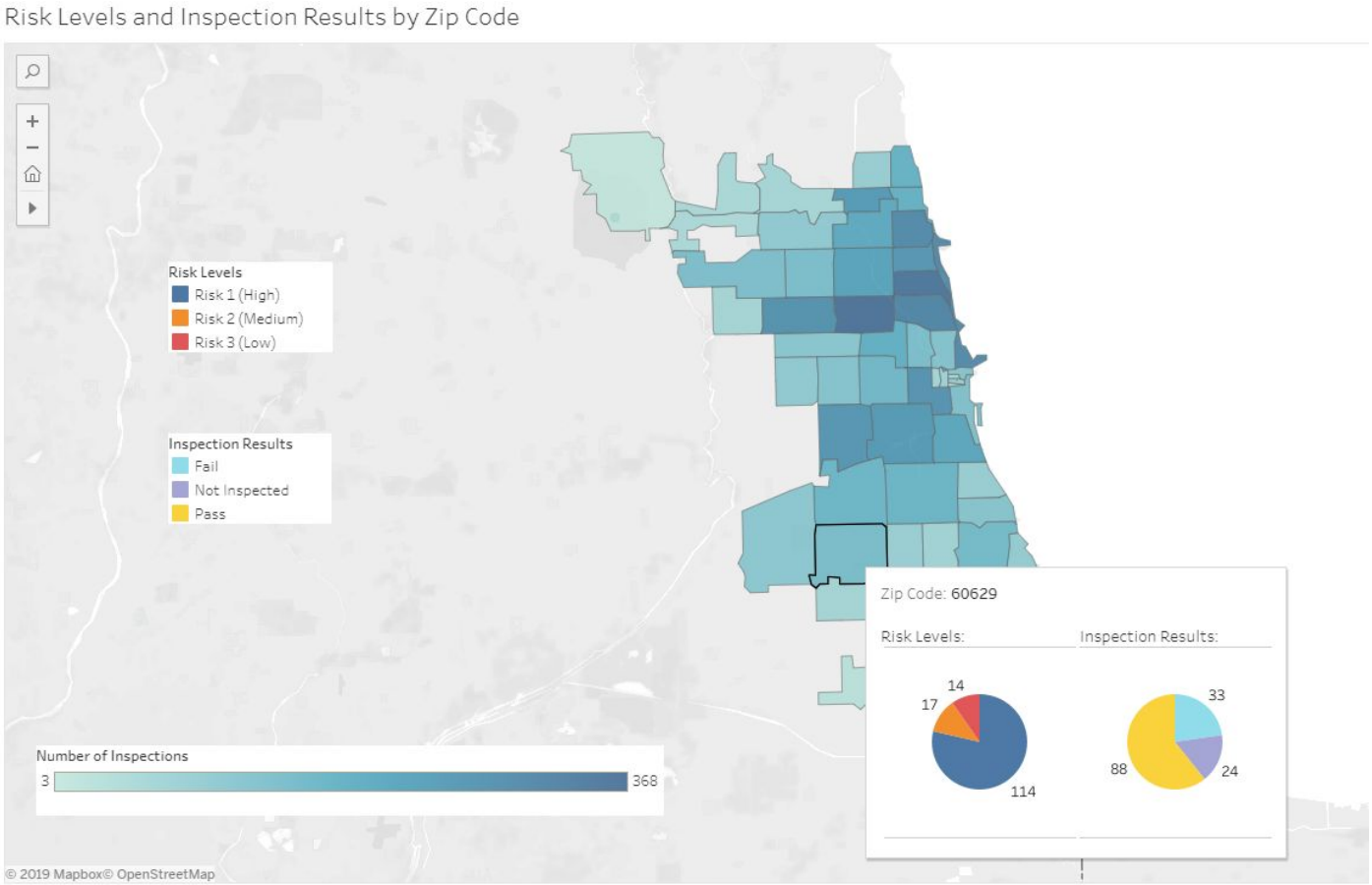
Risk Levels and Inspection Results of Zip 60647



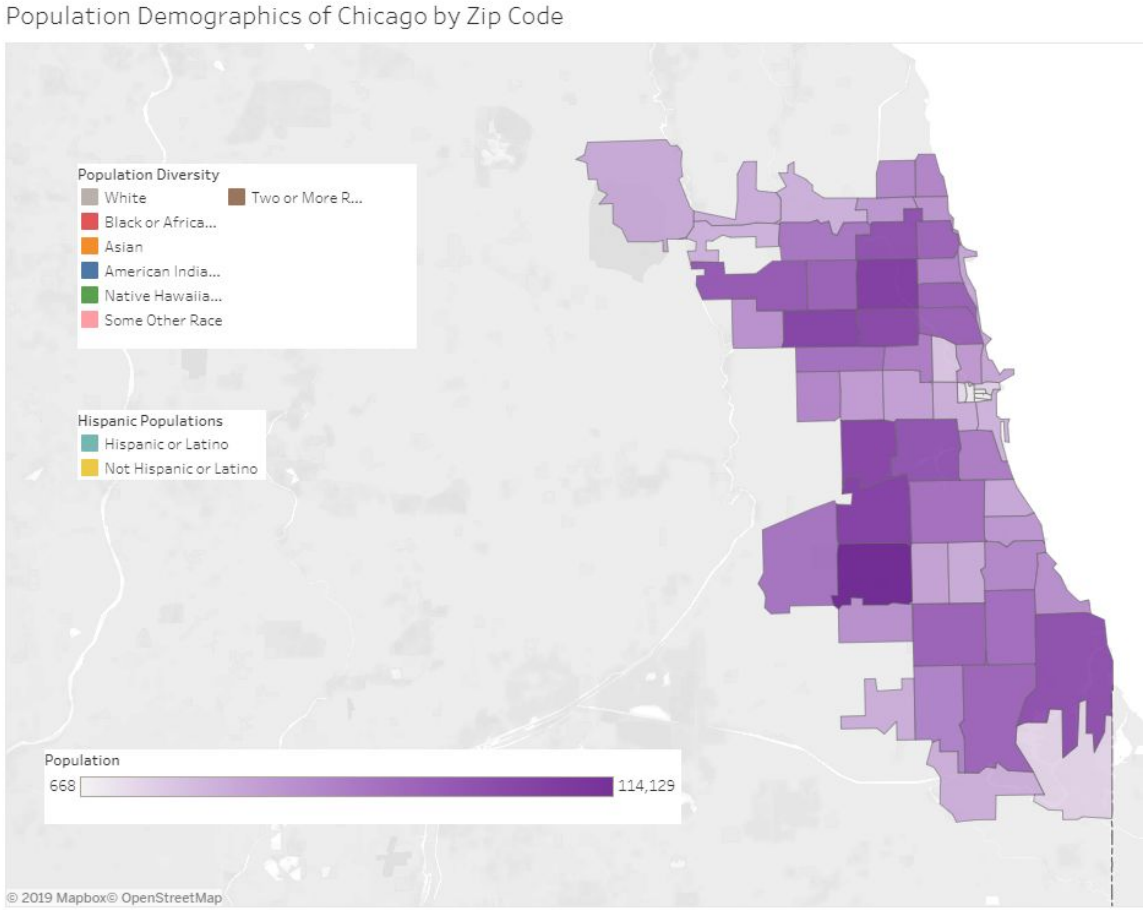
Demographics of Zip 60629



Risk Levels and Food Inspections of Zip 60629



Data Visualization- Population Demographics of Chicago by Zip Code



Conclusions & implications

Conclusions:

- When the food inspections increase, the risk level goes up; the probability of ‘pass’ result goes up
- Positive relationship between population diversity and Hispanic population

How will it help in the real practice?

- Let public and inspectors aware the importance of inspection frequency and potential for bias, help uncover bias
- Better understanding about the population distribution of Chicago: used in employment, marketing, business competitive advantages analysis

Thanks for listening!

Any questions?