

Major Semester Milestone
MTV/Viacom Capstone Team
Dapo Adegbile, Pranav Manjunath, Jasmine Young

Major Semester Milestone

At the end of the semester we plan to deliver a report with our preliminary findings and answers to the key questions above. We also intend to deliver a dashboard to our client containing our key findings and visualizations.

Final Report

- We will detail the sources of our data. Our report will explain how we acquired, validated, and prepared the geospatial college campus data and polling place data for 2016 - 2020. After acquiring, analyzing, cleaning, and transforming our data sources we were able to create a final table for our analysis.
 - Our data cleaning and validation process is of particular importance to our stakeholders because we want to properly identify any potential caveats that come with high level analysis that we will be presenting
- Answering Q1: How many and which schools across the country have election-day voting sites on their college campuses? What types of voting sites are they i.e. early voting, same-day voting, drop boxes etc.?
 - We will report the overall number/percentage of schools with an election day polling place on campus.
 - We will evaluate this statistic across states and regions.
 - We will report on the availability of early voting data (if any), and future plans to incorporate other types of voting sites.
- Answering Q2: How has this changed, if at all, over the last three presidential election cycles (2012, 2016, 2020) and since Shelby v. Holder?
 - We will report the portion of campuses with election day voting sites on campus for each voting year.
 - We will analyze any trends over time across the country, states, or types of schools.
- Answering Q3: How does the presence of a polling place on campus / the distance to the nearest voting location differ depending on the type of school and student demographics?
 - We will group our college data by its MSI type and analyse the patterns for each type of college
 - We plan to also group the data by residential/ non-residential colleges
- Answering Q4: For those schools that do not have on-campus election-day voting options, what is the average travel distance to their nearest early voting booth by foot, public transportation, or car? What is the distribution of early voting options?
 - We plan on providing graphical representation of travel distance to the nearest polling place for school without a physical polling location on campus.

Dashboard

We will build an effective dashboard visualization to represent our data and findings. The dashboard will likely contain some combination of the following visualizations:

- Layered Histogram:
 - MSI type's distribution of distances to nearest polling places
 - Public vs. Private distribution of distances to nearest polling places
 - 2-Year vs. 4-Year distribution of distances to nearest polling places
- Clustered Bar Chart
 - Average transit time by walking, driving and public transportation to the nearest polling place
 - MSI type
 - Public vs Private
 - 2-Year vs. 4-Year
- Country Map
 - Average transit time of to the nearest polling place by state
 - Transit times
 - Mileage