

In an effort to make the city of South Bend a safer and more welcoming community for all of its residents, our team will be exploring the city's infrastructure and how it relates to different geographical and socioeconomic factors. Our team's goal is to make the Mayor's responsibility of improving their citizens' quality of life as easy and interactive as possible.

One item we will explore is the number of phone calls to the various city departments. The user will be able to select a date range or specific month(s) (checkbox) they would like to explore. We will then present the call types with the highest frequency in their requested time frame. For example, we expect the calls for leaf and snow removal to spike in late fall and winter.

Another item we will explore is the number of people that are served by specific fire departments and police stations. The user will select a radio button to select which of the public services they wish to explore. Then, they will set a radius and we will present them with the number of people that live within that radius for each fire or police station. This can help the mayor plan which regions may be underserved or unprepared for emergencies.

Third, we will examine the relationship between the status of business licenses and city council districts. The user will select a district from a dropdown list. We will aggregate license status into more overarching groups, such as "safe" (renewed and active), and "expired" (closed, denied, expired), for example. We may also show a "next closest" suggestion. For example, if the user wants to find a self service laundry after their original location's license expires, we could show them a new alternative. This allows the user to determine if any specific districts are being disproportionately affected by business shutdowns.

Finally, we wish to ensure the safety of South Bend's students after school who may be walking to a local park. We will allow the user to select a school and a park, then the map will populate with the locations of all street lights between these two locations. This can be plotted by number of street lights per square mile, average wattage, etc. to determine any paths with high foot traffic but low illumination.

If necessary, any of these data sets can be further examined in conjunction with the census data. For example, we can see if certain age groups, races, genders, etc.

are feeling the effect of any of our latter three investigations more than their counterparts.

The audience of this presentation is intended to be the Mayor of South Bend and any of their council members and city planners. Our goal with this dashboard is to present the city with trends that may shed light on areas for improvement. These four investigations are all representative of the overall quality of life for South Bend's residents. We aim to ensure that in the winter months, adequate snow removal services are available, that all residents live within a reasonable distance of important businesses, that the city's fire department and police officers are not understaffed, and that the city's students are safe in their travels between school and areas of recreation. With this data, the mayor will be able to make key executive decisions, such as allocating necessary funds to address any issues our dashboard may reveal. Due to the mayor's limited availability, our dashboard will display key findings that can be gathered at a glance. It will also provide more in depth insight for the mayor's staff to make more informed decisions to serve the community.

The primary audience for this dashboard is the Mayor of South Bend and the city leadership team responsible for making decisions about public safety, infrastructure, and overall quality-of-life of the city's residents. As decision makers who oversee resource allocation, neighborhood improvement efforts, and responses to resident concerns, they need a clear, intuitive way to understand patterns in 311 service calls, public service distribution, streetlight coverage, and the health of local businesses. The dashboard is designed to help them quickly identify hotspots, compare conditions across council districts, and recognize areas of improvement across the city. By displaying complicated data as interactive visuals and charts, the dashboard supports informed, data-driven planning and helps the mayor and other officials prioritize efforts that most directly improve quality of life for South Bend residents.