

Data Visualization - Group 2 Project Brief - Updated

An analysis of South Bend's "1,000 houses in 1,000 days" Initiative

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Completed Project Links:

Github: <https://github.com/mandpd/group2final>

ShinyApps: <https://p4th.shinyapps.io/grp2/>

An Overview of the Goals

In February 2013, Mayor Pete Buttigieg announced an effort to repair or demolish 1,000 vacant and abandoned homes in just 1,000 days. On September 22nd, 2015 the city completed their initiative 2 months ahead of schedule. At the time, the mayor commented that ‘the next key step is prevention; prevention to make sure that if there are homes likely to go into that category of abandoned or vacant, resources are provided.’

The primary goal of our data visualization is to allow multiple types of audiences to analyze the effect of this initiative, both at the time, and since the initiative ended. Each team member is enabling a different view into the abandoned properties time series data by connecting it to other city data of interest to our intended audience.

The goals for each audience are:

1. Abandoned Properties by district Assist district councilors and their constituents understand where abandoned properties are in their district, and how they compare to other districts. This should also support filtering by a date range of outcomes.

2. Abandoned properties vs schools Assist parents of children living in South Bend and potential property buyers/renters with children understand where abandoned properties are relative to the schools. This should also support filtering by school name, and by school ratings.

3. Abandoned properties vs businesses Assist current business owners, potential business investors and new business owners, and employees understand where abandoned properties are relative to their business. This should also support filtering by a date range of when business licenses were issued.

4. HomePage & Overall Code Framework

Dashboard/User Interface

There will be a left side panel menu of view options matching the four primary goals listed above (instead of tabs). The main panel to the right will be divided into a top left area where a consistent map layout will display the view-specific data. The top right area will have any sliders/ toggles/ etc specific to the selected view that the user can manipulate. The lower half of the main panel will have any additional visuals, keys, or text explanations of the specific view.

Audience Analysis

As detailed above, each view is targeted at a specific audience, but it is also intended that one viewer may have multiple interests. In summary our primary audience are

- district councilors and their constituents
- parents of children living in South Bend and potential property buyers/renters with children
- current business owners, potential business investors and new business owners, and employees
- residents of South Bend