

## 1 Food Inaccessibility

### In Oakland

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## 2 Introduction

- Food deserts are areas where availability of supermarkets are limited. Often low income neighborhoods, the options for food are limited to liquor stores. These liquor stores usually sell prepackaged processed foods that lack nutrition, or limited fresh food varieties, often at marked up price points.
- Oakland has historically had food deserts that have made acquisition of fresh produce difficult, and at times, not an option.
- On average, there is one supermarket to 93000 people in Oakland.

## 3 Methods

- 1 
  - Identify areas lacking in fresh food availability in Oakland by constructing a suitability analysis using vector and raster processes.
  - Identify possible locations for supermarket to be located within these lacking areas.
  - Choose the most optimally located store location within lacking areas to build a supermarket by constructing a network analysis (Location-Allocation).

### 2 Opportunities

- Proximity to supermarkets (Euclidean Dist.)
- Proximity to Farmer's Markets (Euclidean Dist.)
- Proximity to Restaurants (Euclidean Dist.)
- High Income of Median Income (top 20%)
- High Population Density
- More Family Households

### 3 Constraints

- Proximity to Fast Food (Euclidean Dist.)
- Low Income of Median Income (bottom 20%)
- Low Population Density
- Less Family Households

## 4 Suitability Analysis (Maps)

## 5 Network Analysis

- Linked population data to polygons within the identified critical areas.
- We identified vacant commercial, industrial and residential lots in Oakland as places for possible grocery store locations.

6 ☐ Chosen Locations

7 ☐ AREA A

AREA B

AREA C