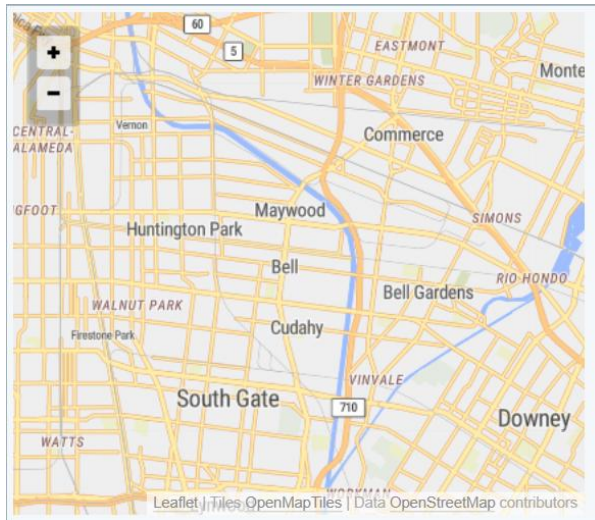**EUGTO**

ESTABLISHING URBAN BUILDING PLACEMENTS AND GENERATING ENVIRONMENTAL IMPACTS THROUGH ARTIFICIAL INTELLIGENCE
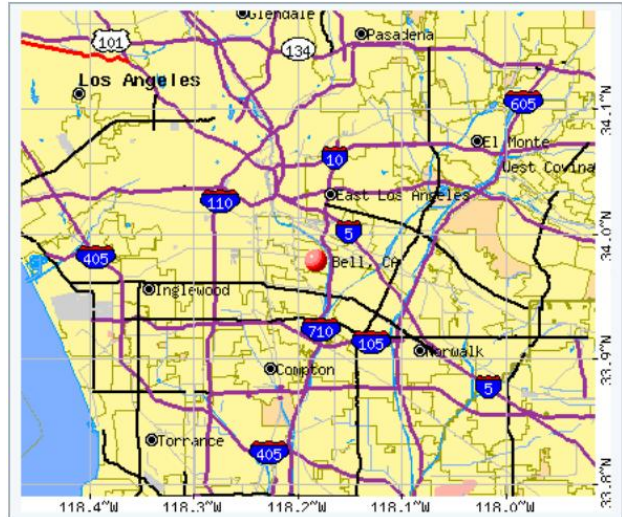
Inputted Location: Bell, Los Angeles, California
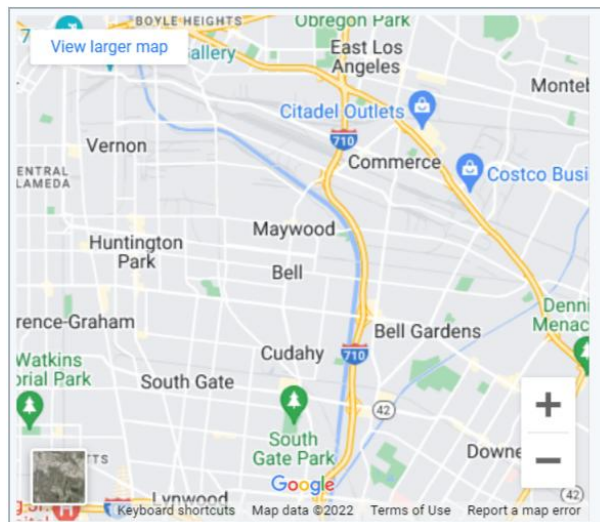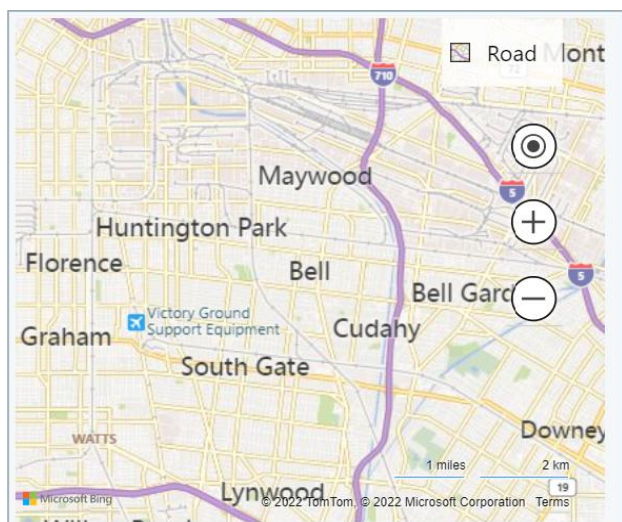
Selected Building Type: Hospital

Map Overview

OSM Map

General Map

Google Map

MSN Map

Email: teameugto@gmail.com

OVERVIEW

The City of Bell, located on the east bank of the Los Angeles River in southeast Los Angeles County, is a warm and friendly town made up of young families, small businesses, and an industrial district. Because it is located in the heart of the central Los Angeles industrial market, Bell is known as the key to industry.

Other information:

Population in 2019: 35,521 (100% urban, 0% rural)

Population density: 14,341 people per square mile (very high)

Geographical Location: Elevation: 135 feet

Land Area: 2.48 sq. Miles

Earthquake activity:

Bell-area historical earthquake activity is significantly above California state average. It is 6961% greater than the overall U.S. average.

On 7/21/1952 at 11:52:14, a magnitude 7.7 (7.7 UK, Class: Major, Intensity: VIII - XII) earthquake occurred 84.6 miles away from the city center, causing $50,000,000 total damage

On 6/28/1992 at 11:57:34, a magnitude 7.6 (6.2 MB, 7.6 MS, 7.3 MW, Depth: 0.7 mi) earthquake occurred 95.6 miles away from the city center, causing 3 deaths (1 shaking deaths, 2 other deaths) and 400 injuries, causing $100,000,000 total damage and $40,000,000 insured losses

On 10/16/1999 at 09:46:44, a magnitude 7.4 (6.3 MB, 7.4 MS, 7.2 MW, 7.3 ML) earthquake occurred 106.6 miles away from Bell center

On 11/4/1927 at 13:51:53, a magnitude 7.5 (7.5 UK) earthquake occurred 174.9 miles away from the city center

On 1/17/1994 at 12:30:55, a magnitude 6.8 (6.4 MB, 6.8 MS, 6.7 MW, Depth: 11.4 mi, Class: Strong, Intensity: VII - IX) earthquake occurred 25.6 miles away from Bell center, causing 60 deaths (60 shaking deaths) and 7000 injuries

On 4/21/1918 at 22:32:30, a magnitude 6.8 (6.8 UK) earthquake occurred 44.2 miles away from the city center

Magnitude types: body-wave magnitude (MB), local magnitude (ML), surface-wave magnitude (MS), moment magnitude (MW)
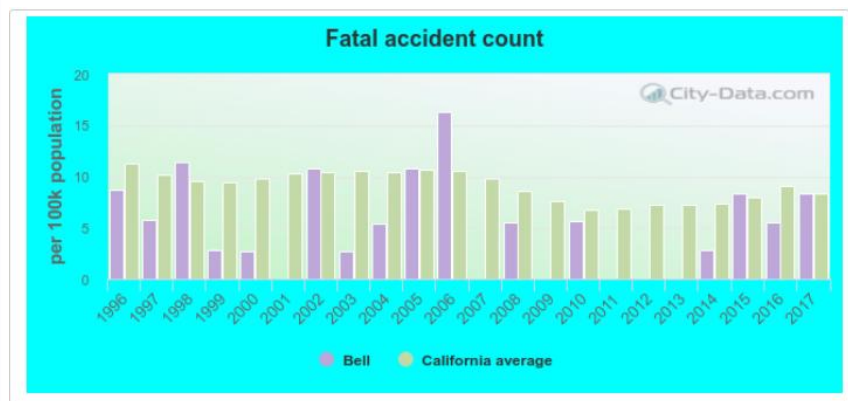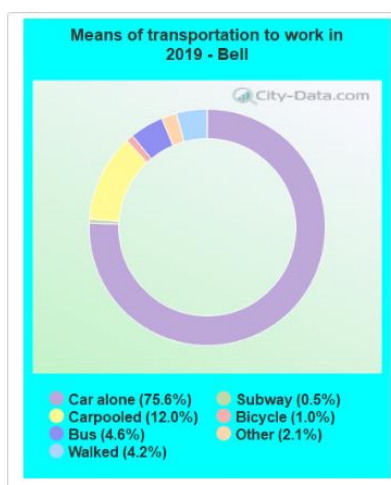
Natural disasters:

The number of natural disasters in Los Angeles County (57) is a lot greater than the US average (15).
Major Disasters (Presidential) Declared: 27
Emergencies Declared: 3

Causes of natural disasters: Fires: 37, Floods: 16, Storms: 9, Winter Storms: 6, Landslides: 5, Mudslides: 5, Earthquakes: 3, Freeze: 1, Heavy Rain: 1, Hurricane: 1, Snow: 1, Tornado: 1, Wind: 1, Other: 1 (Note: some incidents may be assigned to more than one category).

Means of transportation to work in 2019 - Bell

- Car alone (75.6%)
- Carpooled (12.0%)
- Bus (4.6%)
- Walked (4.2%)
- Subway (0.5%)
- Bicycle (1.0%)
- Other (2.1%)

Fatal accident count

Bell   California average

Read more: http://www.city-data.com/city/Bell-California.html

ENVIRONMENTAL IMPACTS:

CARBON FOOTPRINT

Displays carbon footprint (t) tonnes of CO2e of specific location.
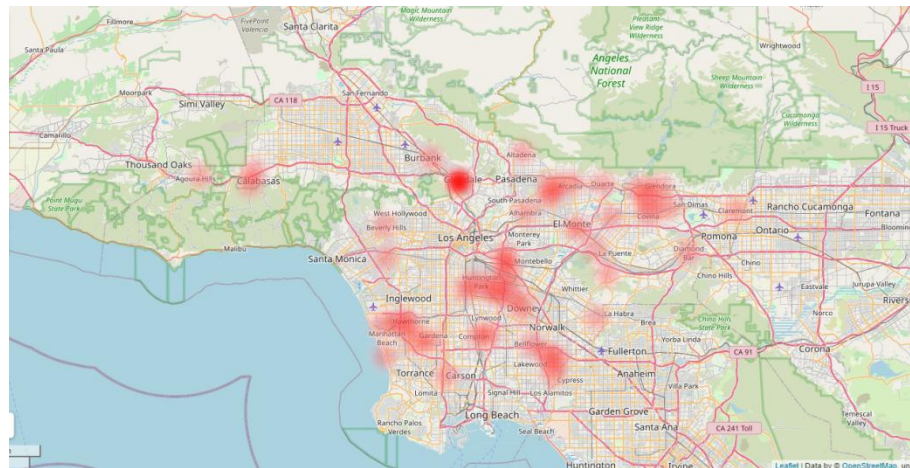
Most affected City: East San Gabriel Valley, CA

Latitude: 34.121428 | **Longitude:** -118.079896
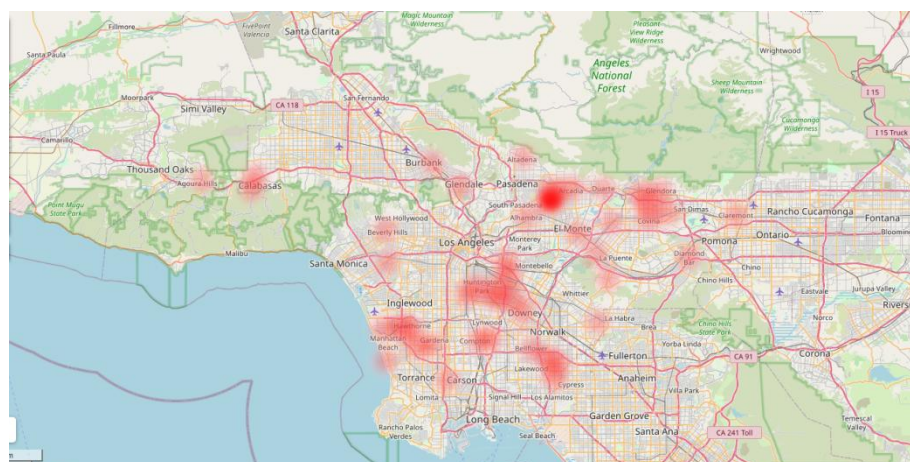
Initial Amount: 4761.76 tonnes/day

Final Amount: 5088.894026 tonnes/day

Map

Before establishing the Hospital

After establishing the Hospital

ROAD TRAFFIC

Shows the number of vehicles per day on the location's roadways.

Most affected City: Artesia, CA

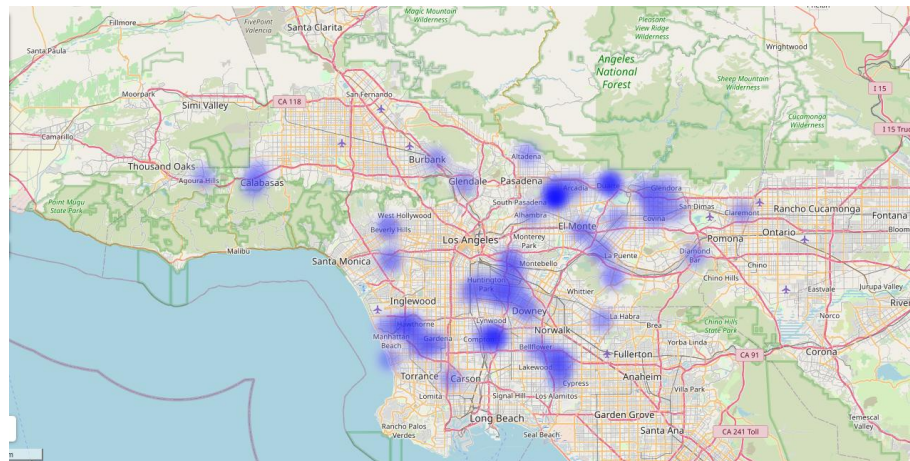**Route Number:** Interstate 605 (San Gabriel River Freeway)

Latitude: 33.8658484 | **Longitude:** -118.0831212
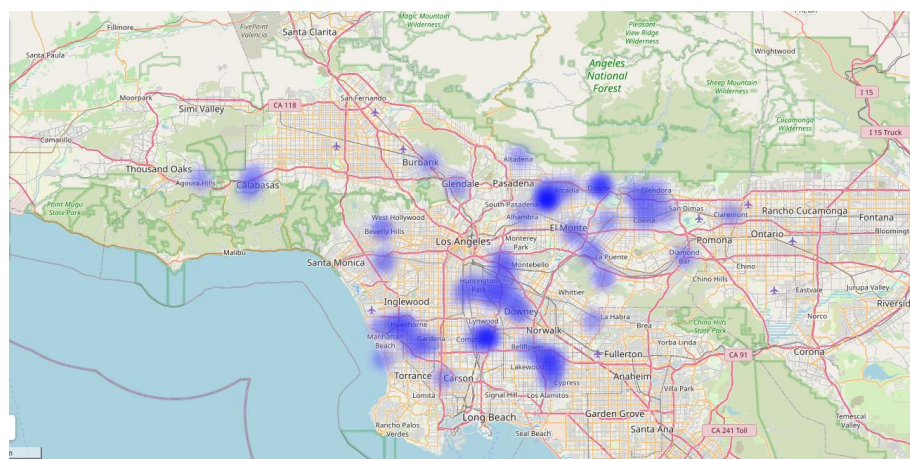
Initial Amount: 211740.7407 vehicle/day

Final Amount: 276472.7783 vehicle/day

Map

Before establishing the Hospital

After establishing the Hospital

Email: teameugto@gmail.com

AIR QUALITY INDEX

Presents AQI that runs from 0-500; good to hazardous air quality.

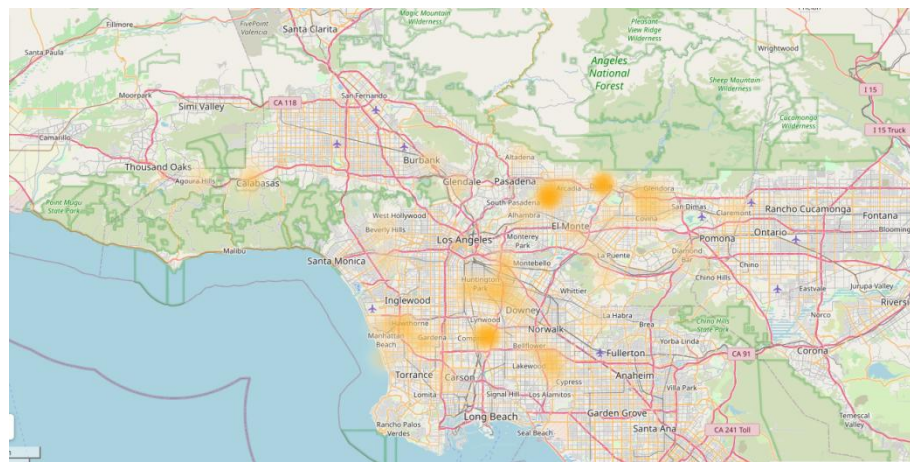**Most affected City:** Artesia, CA

Latitude: 33.8658484 | **Longitude:** -118.0831212
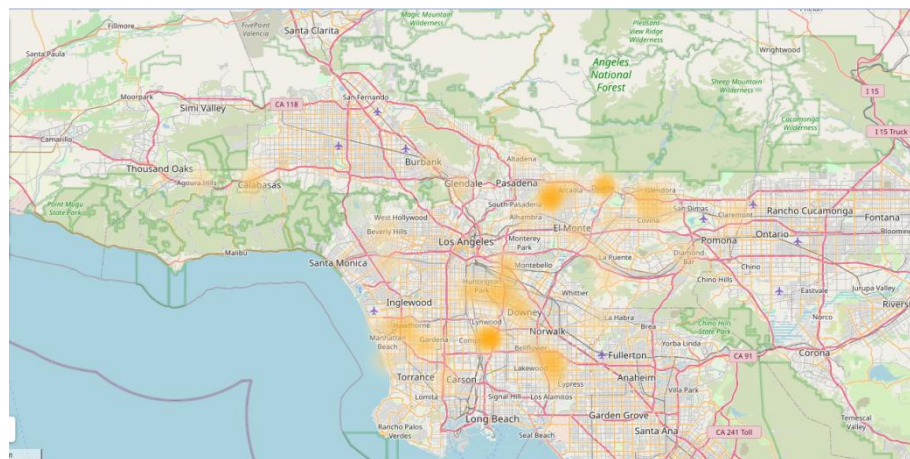
Initial Amount: 140 (Unhealthy for Sensitive Groups)

Final Amount: 314 (Hazardous)

Map

Before establishing the Hospital

After establishing the Hospital

WASTE GENERATION

Reveals the total generated waste (kg) per day in both building & location.
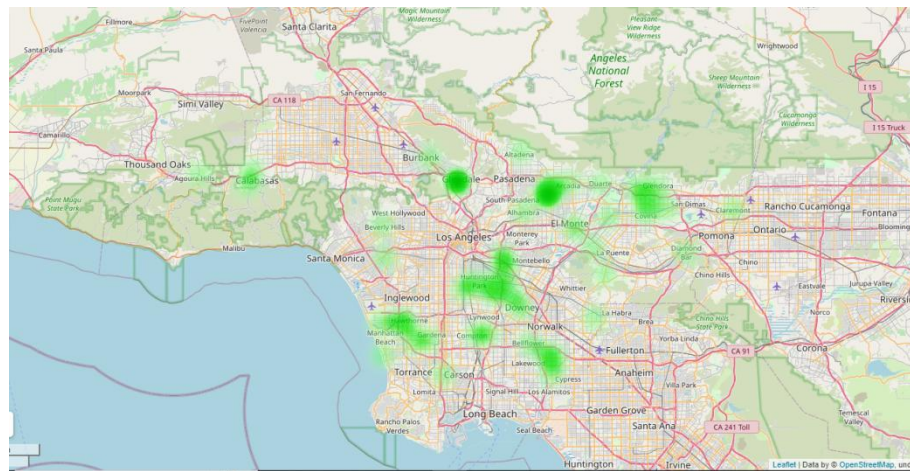
Most affected City: East San Gabriel Valley, CA

Latitude: 34.121428 | **Longitude:** -118.079896

Initial Amount: 752358.08 kg/day

Final Amount: 804045.2561 kg/day

Map

Before establishing the Hospital

After establishing the Hospital