



# HOW FAR DO I LIVE FROM A HOSPITAL?

in Mexico City



An aerial photograph of the Angel of Independence monument in Mexico City. The monument is a tall, ornate column topped with a golden statue of an angel with spread wings. It stands in the center of a large, circular plaza with tiered steps. The plaza is surrounded by modern buildings, including a prominent glass-fronted skyscraper on the right. The sky is filled with soft, colorful clouds from the setting or rising sun, casting a warm glow over the scene. The text is overlaid in white, bold font across the middle of the image.

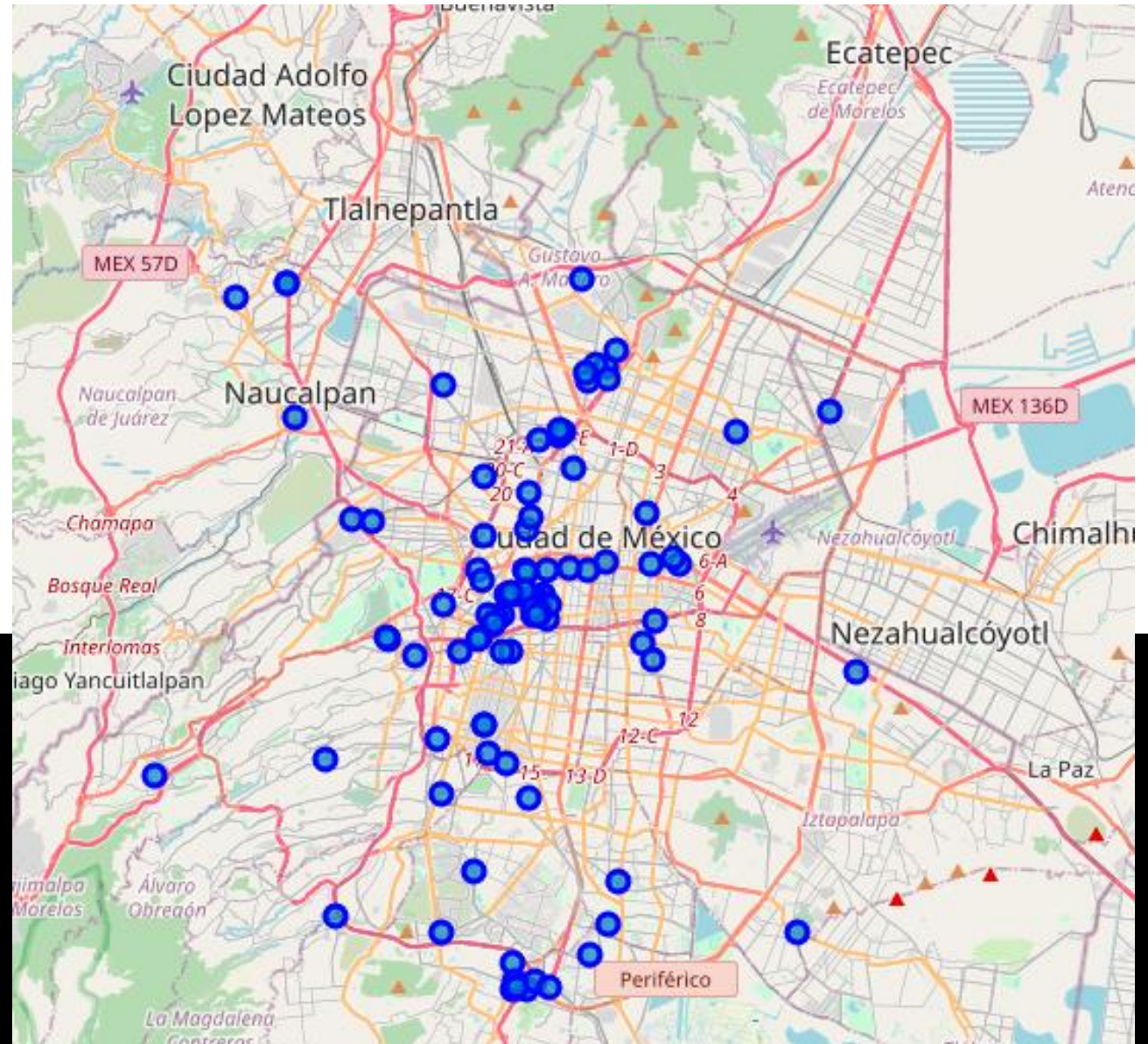
In a city as large as Mexico City with 1,485 km<sup>2</sup> and a population of close to 10 million inhabitants and in the surrounding area reaching 21 million, which makes transportation routes, both roads and public transportation, complicated.





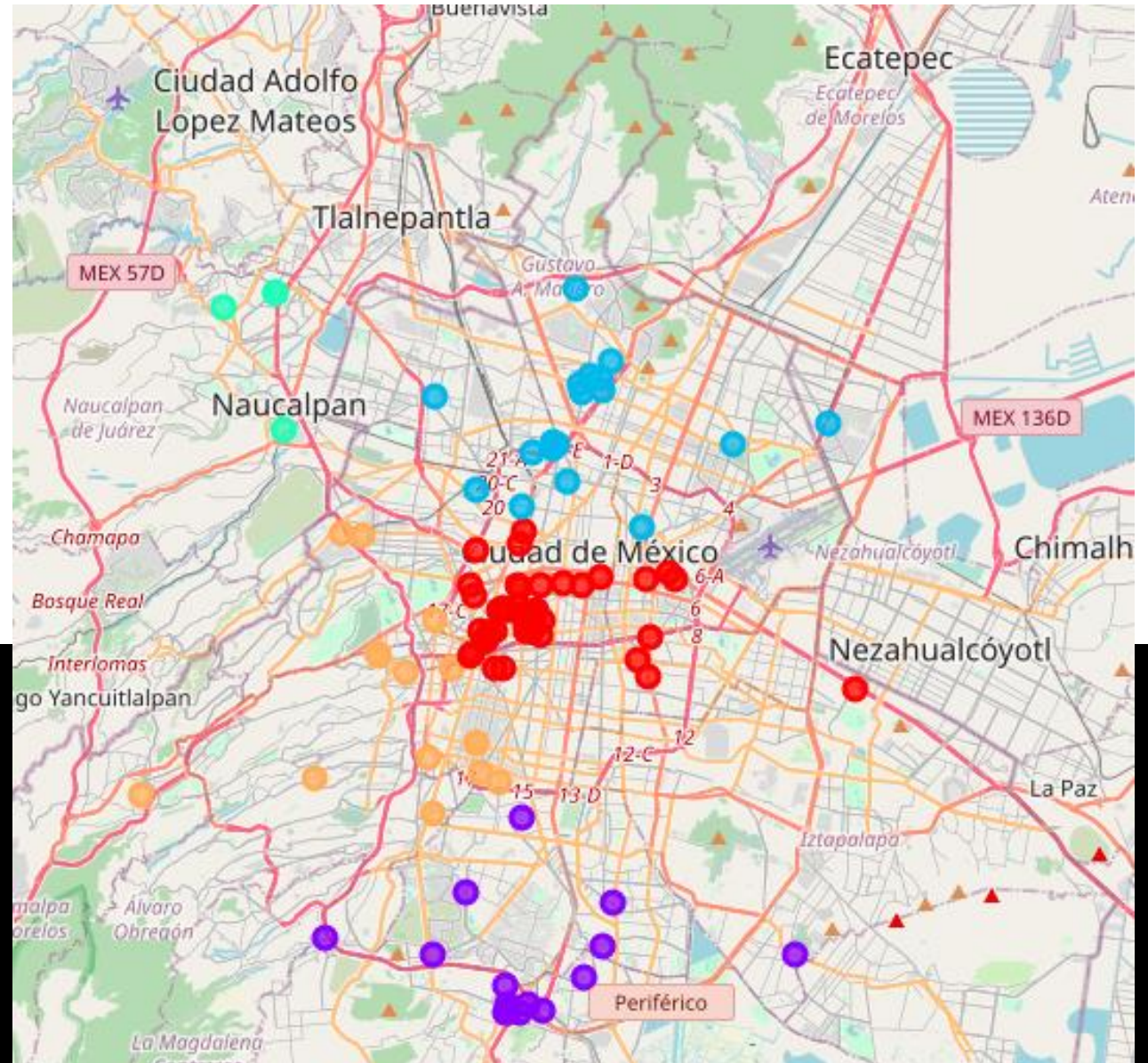
**IT IS VITAL TO KNOW WHERE THEY ARE LOCATED AND IF WE HAVE A CHRONIC DISEASE, PERHAPS WHERE IT IS BETTER TO LIVE WHEN CHOOSING RESIDENCE.**

Foursquare data will be used to locate hospitals around Mexico City and then group them by proximity and in turn mention where we should live if we need more health care options.





The data were put on a map of Mexico City for easy visualization of these, and thus see where it is accumulated, later the K-Means algorithm was used to obtain the grouping of the data.



# Conclusions

It can be seen that the data are grouped into 5 groups that we will define as: Northeast in blue (18), Center in red (48), Southwest in Orange (15), South in Purple (15) and Northwest in green (4).

Thus we can determine that the Northeast area is not a good area to live if we want to have hospitals nearby, and even though the downtown area of the City is the most populated, it is the one with up to 3 times more hospitals.