

Segmentation and Clustering of Medical Facilities in the Greater Accra Region of Ghana

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February 10, 2020

1. INTRODUCTION

1.1 Background:

The Greater Accra region of Ghana in spite of having the smallest land mass among the other 16 regions in this West African country, is the 2nd most densely populated region in the country[1]. The most populated region being the Ashanti Region. It is no surprise that the statistics are this way since this rather small region is also the largest commercial region of the country and home to the capital city, Accra. It is worth noting that in the wake of recent developments in the continent of Africa, Ghana has been elected the commercial capital at the center of the Africa Continental Free Trade Agreement.

1.2 Problem:

More commercial activity would mean more offices and more people engaging this commercial terrain. This presents the challenge of increasing the already high traffic congestion across the region. High traffic congestion in cities stresses the populace as they spend longer time on the road commuting from one location to the other. Proximity to vital locations such as medical facilities need to be looked at, so that traffic situations do not delay access to such facilities in case of emergencies. It's also worth noting that the people's choice of medical facility to visit when the need arises is not only influenced by proximity. This project seeks to explore and provide insight about the distribution of medical facilities across the region showing the areas that need medical facilities and the kind that the people will find most useful.

1.3 Interest:

The Ministry of Health, the Metropolitan Assemblies as well as Real Estate developers will find this insight useful and inform their decision in addressing the medical needs of the people in the Greater Accra. Entrepreneurs who want to set private hospitals in the region would be better informed as the best locations to set up their facilities which would meet the needs of the people.

