

## ABSTRACT

Technology plays an important role nowadays in the communication world. However, it keeps changing very rapidly. These rapid changes lead to new technological innovations every now and then. One of the recent mobile communication technologies in the world is the introduction of 3G to be the latest mobile communication technology in Tanzania and in which is currently in widespread use in the country.

The evolution of 4G is another evidence of how fast mobile communication technology grows. Technologically speaking, 4G is all about a gradual addition of more functions, possibilities and more values to the existing network of 3G. The search for more speed, fast data rate capacity and good network that cause the evolution of mobile generation to reach to 4G mobile communication system. This reveals the necessity of new innovations in the field of mobile communication technology to ease communication in this busy planet.

Through the CDMA, UMTS and TDMA which was the pioneer mobile communication technologies in the development countries like Tanzania. GSM network support the EDGE, HSPA and HSPA+ which are the dominating the mobile sector at the present. The expected of HSPA+ and LTE, 4G evolution from the GSM network is going to be more cost effective toward 3G technology to the reusability from EDGE/GSM network. The main objective of the study is to examine what are the outcomes of changing from 3G to 4G technology in the communication broadcasting service provider whereby TIGO Tanzania is chosen as the case study area where the data was be collected through the two form of collecting data which are primary and secondary ways which was consist of interview, questioner and by collecting from the internet to accomplish the study.

Generally in this study has observed that the evolution of 4G is all about a gradual improvement and addition of more functions, possibilities and more values to the existing network of 3G. For the search of more speed, fast data rate capacity and for good network that leads to the evolution of mobile generation to reach to 4G mobile communication system. Also this thesis recommends that for any communication broadcasting service provider they have to consider the benefit will get from the improving of the technology by providing the higher data rate and allows using the multiple parallel transfer paths and this gives to provide the more than 200 mbps which is more speed and gives higher mobility aspect.