

In this research, we aim to prove whether the criticism claiming the LTE coverage was over-reported in certain areas. We are going to compare the dataset from which the FCC report is generated and a crowdsourced LTD coverage dataset.

First of all, I will read over the papers and other related materials to have a better understanding of where we are. This research involves algorithm development, dataset review and analysis, lab experiment, and field work.

Specifically, we would like to focus on 2 problems: 1. where to take the measurements? 2. What type of measurements should be taken? As for “where” we will use Georgia as a testbed since we already have some spots in mind where the two datasets differ. Another approach is called “Measurement Campaign” for which we plan out a path beforehand and drive around to make measurements along the way. The resource optimized measurement campaign is generated by using a tool called evidence of coverage, a geospatial metric that enables multiple coverage datasets to be integrated with additional data.

Based on previous work, we expect those two datasets to have a significant disagreement.