

# NTIA - Broadband Data Analyze & Visualize

## MSIM Capstone

Team 18, Straight Flush

Ding Luo

Wang Chen

Wei Wei

Wuyi Zhang

Xiaofei Chu

## Motivation

Disparities in Internet access among residents of the whole nation have been a serious problem in the States for decades. Unfortunately, even though there is public broadband data available, it's hard to make sense of it. This project focuses on utilizing millions of records of broadband and census data to better serve communities across the United State.



First time to realistically combine business, consumer (fixed wireline) and mobile data together for comparison analysis and visualization

## Project Overview

- To leverage public FCC Broadband (fixed wireline and wireless) data for performance analysis, comparison analysis and visualization
- To visualize data on both state and county level across the whole nation
- To explore the relationship between census and broadband data to better understand broadband performance



First time to introduce new measurements (connectivity access and wealth) for broadband deployment performance analysis

Data Source

Data ETL

Data Analysis

Data Visualize

Tools



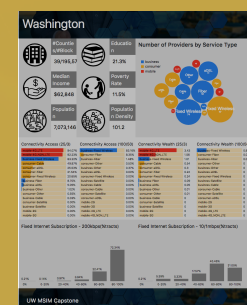
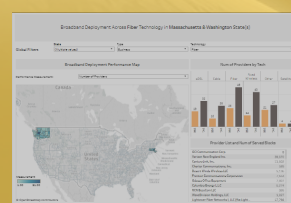
500 million rows in Block level

State-level + County-level

2 new measurements

Connectivity Access (%)

Connectivity Wealth



## Deliverables

[https://fayechu.github.io/NTIA\\_Data\\_Visualization/frontend/index.html](https://fayechu.github.io/NTIA_Data_Visualization/frontend/index.html)

