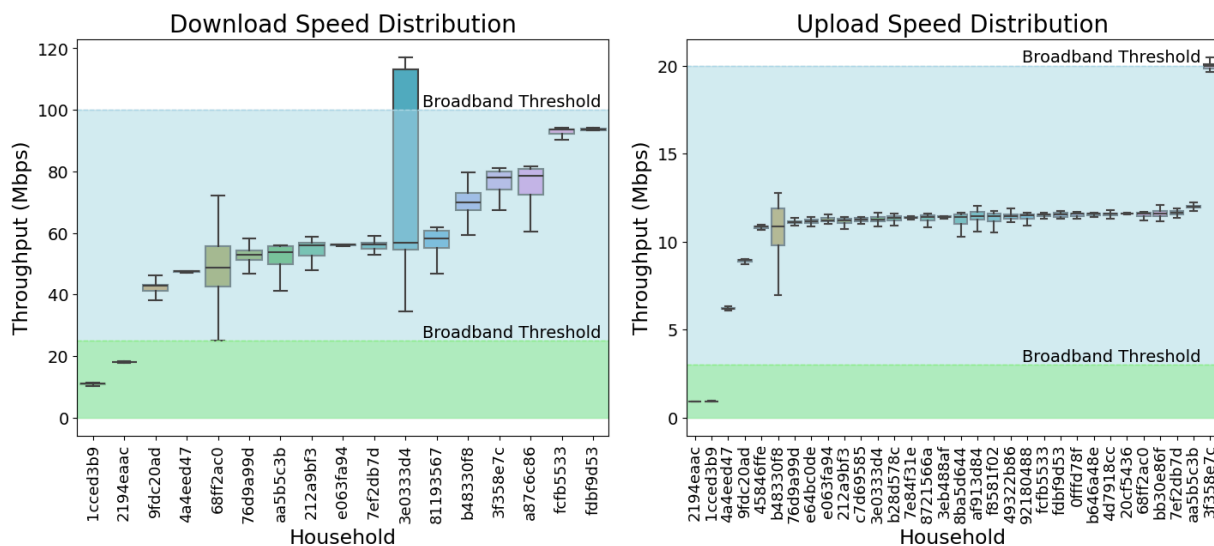


Internet Equity Initiative

The Internet Equity Initiative (IEI) is a research initiative within the Data Science Institute that focuses on producing data-oriented tools and insights to address Internet inequity. The IEI has partnered with UChicago's Data Science Clinic to develop a reusable analytic report, which has been applied to data from devices deployed in Milwaukee. The report can be applied to future data collected by IEI, therefore reducing the need for manual labor during early exploratory data analysis.

Deliverables from the clinic team include a data dictionary for Milwaukee data and a generalizable script. The script accepts measurement data from IEI-deployed devices and generates a report with visualizations and analysis of important Internet metrics. It has been applied to the Milwaukee data. Future work could focus on ensuring code usability in edge cases, improving customizability (such as allowing threshold value changes), and enabling the report to single out devices with interesting observations. The insights provided by our report can help IEI communicate where Internet inequity occurs and how policymakers should take reformative action.



The boxplots of download and upload speed distributions for the Milwaukee devices identify 32 households, about 58% of tested households, without adequate broadband access (median throughput under 100 Mbps for download and 20 Mbps for upload).