Internet Quality Assessment and Measurement Technique Challenges

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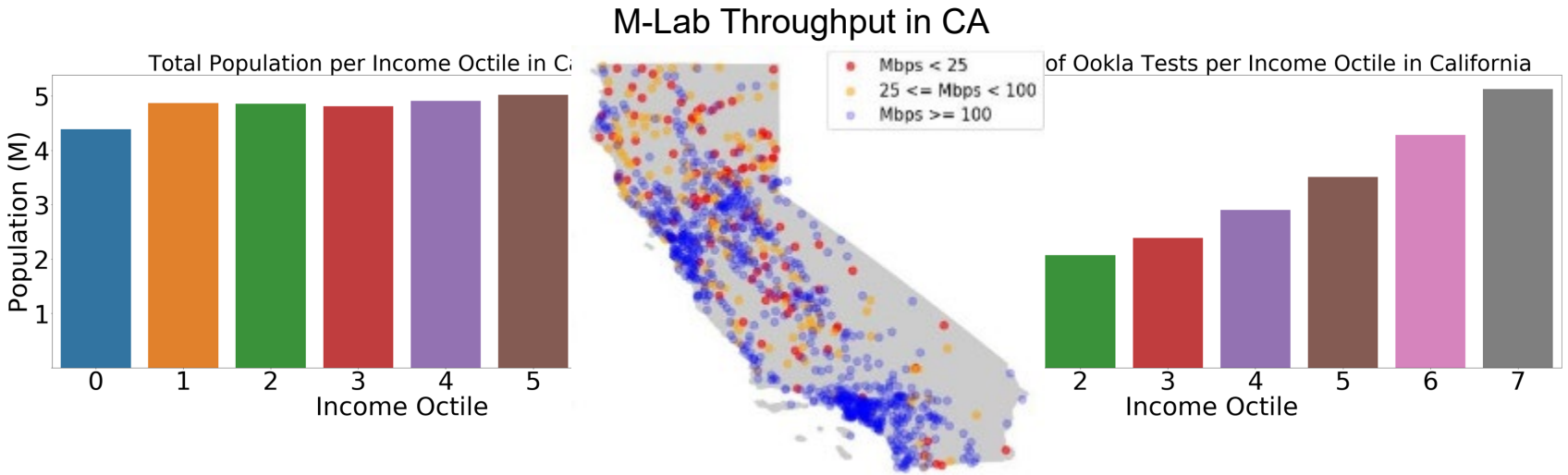
Omissions and Gaps in Comprehensive Measurement Data

- Active measurement platforms are great sources for data but suffer from bias
  - User, geographic, demographic, network quality, etc



- Lack of subscriber information (e.g tier of subscription) makes inference about quality of available Internet difficult

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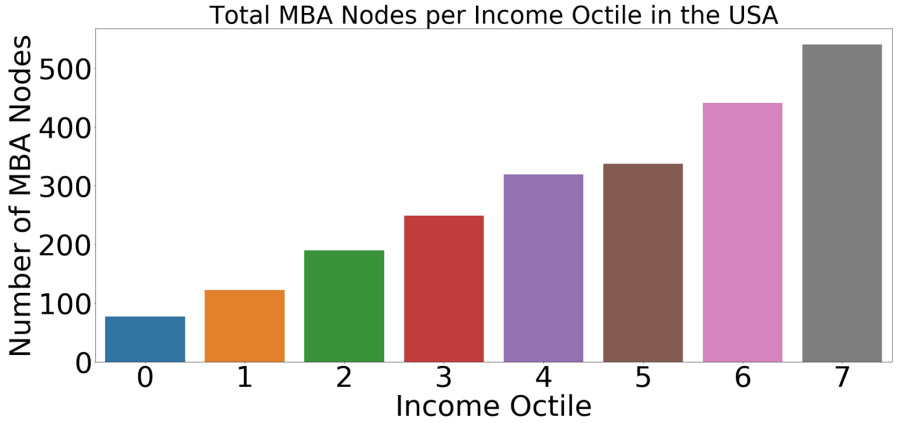
Omissions and Gaps in Comprehensive Measurement Data

- Measuring Broadband America (MBA) project collects important data but is severely restricted in terms of its coverage across different locations and demographics
  - 2,931 measurement kits in 2,168 census block groups around the country



- Passive measurements from large organizations contain challenges related to geolocation and metrics collected
  - Privacy concerns and technological challenges prevent collection of fine grained subscriber location

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What We Need

- Incentivizing ISPs to share data at-scale in a privacy preserving manner
- Creating industry-academia research partnerships to facilitate access to important data
- Supporting interdisciplinary research that aim at solving various technical and non-technical problems associated with this domain