Research Priorities and Better Communication of Mitigation Potential

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▶ Explore Big Data

▶ Strike a balance between top-down and bottom-up approach
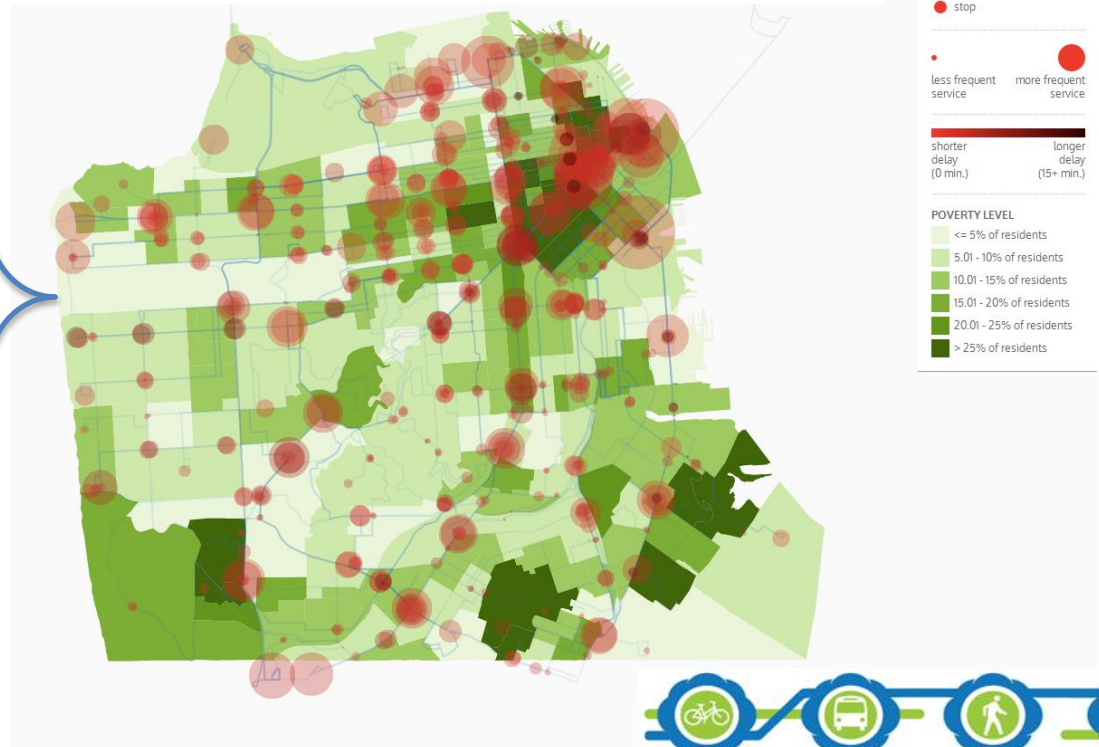
▶ Construct relevant scenarios

Big Data

IBM estimates 2012: 2.5 exabytes daily!

Not all relevant, but much valuable information:

▶ Mapping

▶ Traffic

▶ Origin-destination

▶ Jobs

▶ Bicycle use

▶ Housing prices

▶ Real-time travel data

▶ Parking

▶ Economic distribution

e.g. frequency of public transport and poverty level of residents in San Francisco

Legend

— route
● stop

● less frequent service   ● more frequent service

shorter delay (0 min.)   longer delay (15+ min.)

POVERTY LEVEL
<= 5% of residents
5.01 - 10% of residents
10.01 - 15% of residents
15.01 - 20% of residents
20.01 - 25% of residents
> 25% of residents

Big Data

Potential for better assessment of mitigation potential:

- Constructing more robust indicators
- Better tracking of changes and their isolated mitigation effects

▶ Does this data create new opportunities for better analysis and policy-making?

▶ Who collects and makes available this data?

▶ Does it lend itself to benchmarking across cities/countries?

▶ Can its use open new perspectives for policy?

Strike a balance between top-down and bottom-up approach

Highly aggregate models are useful to account for capturing overall mitigation potential , but:

▶ They are based on average relations that need to be confirmed by more disaggregated analysis.

▶ Evidence-based interpretation of trends and drivers.

▶ Coherence between level of aggregation and policy question.

Construct Relevant Scenarios

Constructing alternative scenarios is inherent to the assessment of mitigation potential, but:

▶ Careful setting of upper and lower bounds.

▶ Changes modeled as progressive.

▶ Look into government plans and range of policies put in place in similar contexts.

Mitigation potential will only be credible if there is clarity on the changes that would drive it and their plausibility!

Thank you

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