

Partnering for Vaccine Equity





- Please stay on mute unless you are speaking.
- Use the Chat feature! Introduce yourself, submit a question for the speakers.
- Materials from this session will be shared broadly with the Learning Community through our website's library and the Adult Vax Program listserv
- Technical problems? Email vaxequitylearning@urban.org

Today's Facilitators





Alena Stern Associate Director of Data Science Urban Institute

Gabe Morrison

Data Scientist Urban Institute



Introducing the Spatial Equity Data Tool

Alena Stern & Gabe Morrison

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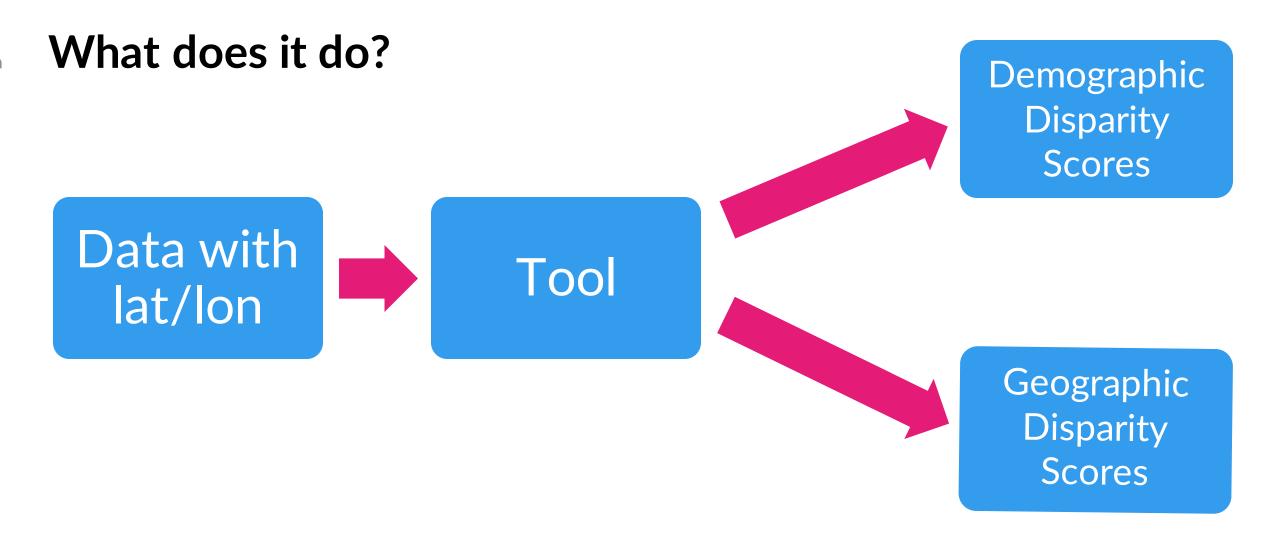
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Why do we need equity tools?

- Many organizations committing to center equity in strategy, policy, and program decisions
- But there are no standardized definitions of what equity means or how to measure it
- Absent clear definitions and tools, equity analysis can be time and resource intensive

Spatial Equity Data Tool



- How can you use the tool?
- Performing standardized equity analyses just became easier!

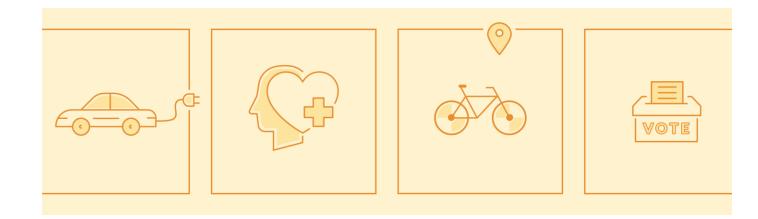
- How can you use the tool?
- Performing standardized equity analyses just became easier!
 - Compare across time

Your data from 2021 2020 2019

- How can you use the tool?
- Performing standardized equity analyses just became easier!
 - Compare across time, geographies

Your data from Miami-Dade County, FL Broward County, FL Pinellas County, FL

- How can you use the tool?
- Performing standardized equity analyses just became easier!
 - Compare across time, geographies, and programs



How can you use the tool?

- Performing standardized equity analyses just became easier!
 - Compare across time, geographies, and programs
- It's free, saves you time, and is reproducible

What can the tool be used for?

- Measure equity in allocation of place-based programs (e.g. vaccine clinics)
- Examine representativeness of program participants
- Identify areas for future investment (e.g. identify underserved communities and areas)
- Analyze progress towards equity goals over time

How has this tool been used?

- Nonprofit in Marin County analyzed disparities in child care center locations
- Residents used to assess equity in building permit approvals in Chicago
- The Bloomington Pedestrian and Bicycle Safety Commission used to analyze equity in sidewalk funding allocations
- City of Los Angeles Department of Street Lighting used to allocate funding for new electric vehicle charging stations

How has this tool been used?

rashiq @rashiq · Oct 22, 2020

I reverse engineered mcdonald's internal api and I'm currently placing an order worth \$18,752 every minute at every mcdonald's in the US to figure out which locations have a broken ice cream machine

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How has this tool been used?

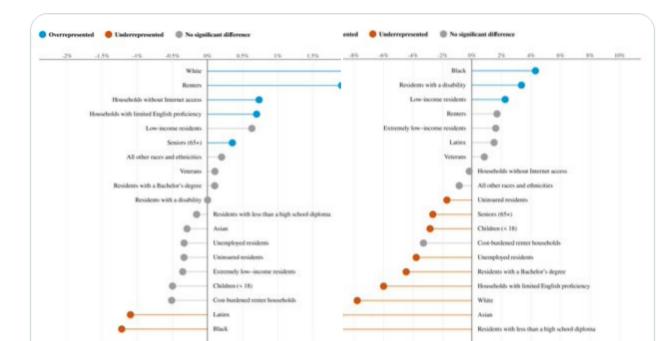


Mark Stosberg @MarkStosberg

Replying to @rashiq

I ran the McBroken data through the Spatial Equity Data tool. apps.urban.org/features/equit... It found McDonalds are slightly overrepresented in white areas (first image) while locations with broken ice cream machines skew Black and low-income. (second image)

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Live Demo: DC COVID-19 Testing Facilities

Limitations

- Can't tell users why certain areas / groups are over/underrepresented
- Simplified measure of access to resources
- Only allows national, state, county, and city level datasets (for cities over 50,000 people)
- Built in baseline datasets may not match all use cases*

Questions the Spatial Equity Tool can answer

- Compared to the <u>population distribution</u> in a geography:
 - Are certain neighborhoods/demographic groups over/underrepresented in my data?
 - How do these disparities compare across time, across geographies, or across different datasets?
 - Are these results statistically significant?

- Questions the Spatial Equity Tool can't answer
 - Why are certain areas / demographic groups overrepresented in my data?
 - Is the quality of the data equal across my geography?
 - Is the absolute level of access good?
 - Are the data points equally accessible within the geography?

Questions/Feedback?

Discussion Questions

- How do you currently incorporate data and equity into your work?
- How would you use a tool like this in your own work?
- What data would you use with the tool?



Challenges to Using the Tool

Obstacles to using the tool:

- You need **access** to geographic point data
- May need technical capacity to download/create geographic data
- May need context to understand why under/overrepresentation exists and how to address it

Access

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Obstacles: Access to data

- Main prerequisite to the tool is access to point level data (i.e. datasets with latitude/longitude)
- If you have data with addresses or census tracts, you're halfway there!

Technical Capacity

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Obstacles: Technical Capacity

- If you have address data, you need to geocode data to get latitudes/longitudes
 - For more information: <u>Data@Urban blog post</u>
- If you have census tract data, you need to get centroid of the tract as latitudes/longitudes
 - Missouri Census Data Center Geocorr



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Obstacles: Context

- Key question: Why are there disparities in your data?
- Potential reasons include:
 - Data collection issues
 - Program implementation issues
 - Historical inequities
 - Mismatched baseline datasets

Obstacles: Context

- Reminder: Tool is one part of a larger decision-making process including lived experiences, and community input
- Using Tool to facilitate community engagement:
 - Understanding community priorities + collaborating to design strategy
 - Create environment where all feel comfortable sharing (e.g. Data Walks)

Ideas for Future Work

- Incorporate measures of accessibility (e.g. travel time)
- Add additional geographies (e.g. regional or metro area analysis)
- Incorporate additional baseline datasets
- Coming later this year: public API!

Discussion Questions

- What additional resources/support would your organization need to use a tool like this for strategy development?
- What additional features would be most useful to your organizations if added to the tool?

Want our Code or Data?

- Everything is open source!
 - Code: <u>https://github.com/UrbanInstitute/ui-equity-tool</u>
 - Tool: <u>https://apps.urban.org/features/equity-data-tool/</u>
 - **Resources:** <u>FAQ</u>, <u>Technical Appendix</u>, <u>Case Study</u>
- Happy to advise/help folks expand our methodology

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Satisfaction Poll & Upcoming Events

Upcoming Learning Events:

Register NOW:

• March 22nd, 12 PM – 2 PM EST: <u>APHA Abstracts Co-Working Session</u>

Full events calendar available on our website: vaccineequity.urban.org



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