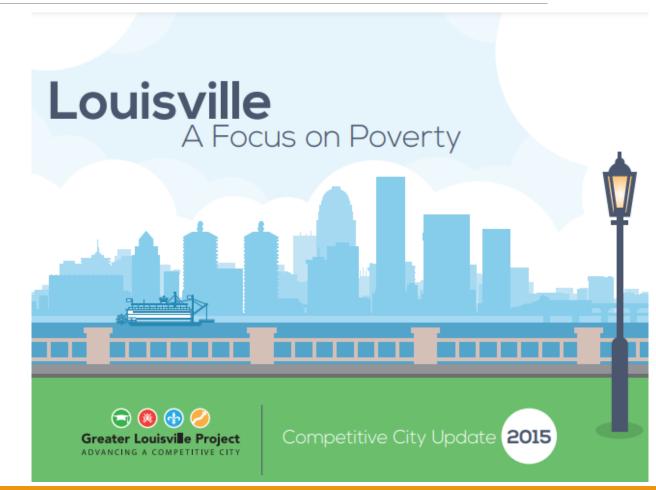
Population Health Evaluation: *Comparative Populations*

GAVIN RIENNE, MPH, PHD(C) UNIVERSITY OF KENTUCKY COLLEGE OF PUBLIC HEALTH

Greater Louisville Project

The Greater Louisville Project is an independent, non-partisan civic initiative supported by a consortium of philanthropic funders.

The GLP publishes data, research, and information helping to connect the dots between education, jobs, health, and quality of place.



Peer Cities Approach

Assessing 200 factors to identify "sister" cities.

Comparing those cities to Louisville to identify driving factors inhibiting Louisville's socioeconomic growth.

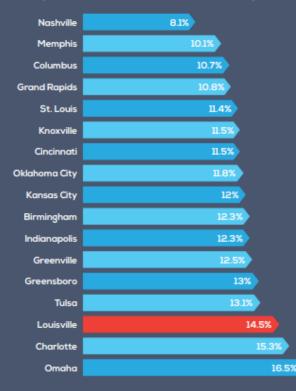
Trailing Our Peers

Louisville ranks 15th out of 17 among our peer cities, with 1 in 7 Louisvillians living in concentrated poverty.

Concentrated poverty is defined as a census tract that is far below the citywide average across income, jobs, education, and health. A census tract in concentrated poverty is one that is in aggregate at least 1 standard deviation worse off than the citywide average in terms of all four MPI indicators highlighted in this report.¹



Population in Multidimensionally Poor Areas

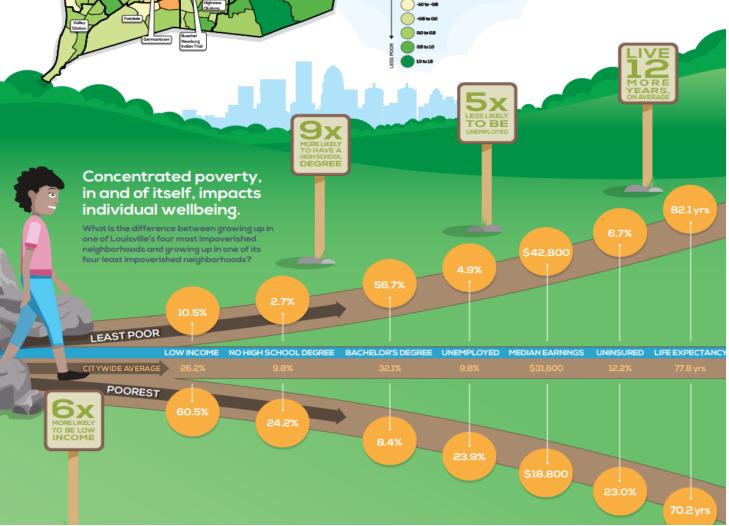


¹ A multidimensionally poor census tract is defined as one where the average z-score is greater than 1, calculated across each of the four indicators. These tracts are orange to red in the Multidimensional Poverty in Louisville map on the poster side of this report.

The Peer City Report

The peer city approach offers guidance on a deeper dive within Louisville

Within the city, comparative county assessment highlights the results of economic inequity.



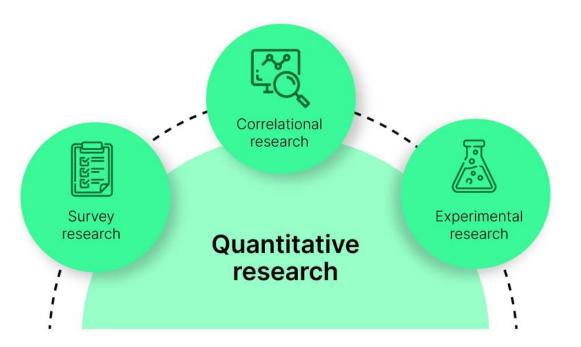
Method Changes

Empirical Methods

- Variable Selection
- **Expanded Standardization**
- Encouraging Building Partnerships

Causal Inference

- Seeking firmer "causal" conclusions
- Identify which part of the observed improvement is attributable to the impact of the intervention



Hurricane Harvey

Natural Disaster

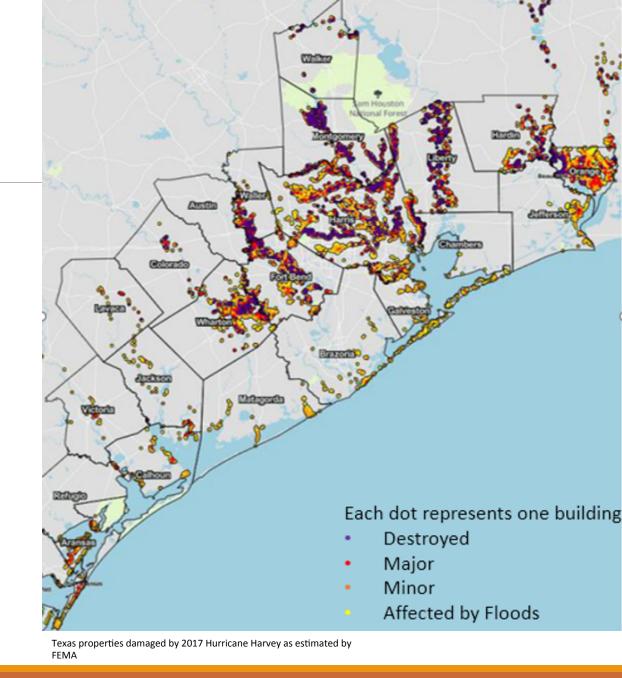
 Hurricane Harvey was a category 4 disaster that struck Texas, August 2017, impacting 13 million people, forcing an estimated 32,000 into immediate temporary housing

People

- Nearly 3 million kids living in disaster-declared counties
 - 60% from low-income families
- 650+ childcare programs were destroyed

Financial

- Infrastructural losses estimated at approximately \$150B damages
- 300k destroyed buildings
- In 2020, 20% said they were still "displaced"



Child and Adolescent Needs and Strengths

The CANS was developed from a communication perspective to facilitate assessment and design of individual health and welfare service plans with evidence-based practices.

A multi-purpose tool developed for children's services to support decision making, to facilitate quality improvement initiatives, and to allow for the monitoring of outcomes of services.



Courtesy of TCOM Praed Foundation

The Role of Public Health Scientists

- **Policy Making**
- **Non-Profit Organizations**
- **Determinants of Health**
- **Community Engagement**
- Empowerment
- Giving Space



Social Determinants of Health

Health People 2020 Social Determinants of Health, CDC

Discussion