Asthma in Detroit

Where is Why

Abdul El-Sayed, MD, DPhil

Executive Director & Health Officer Detroit Health Department



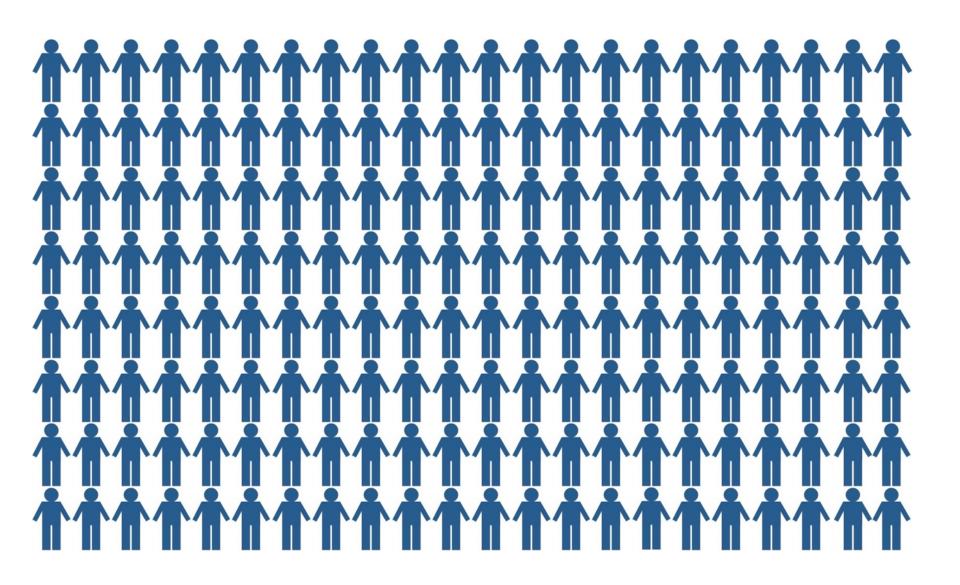




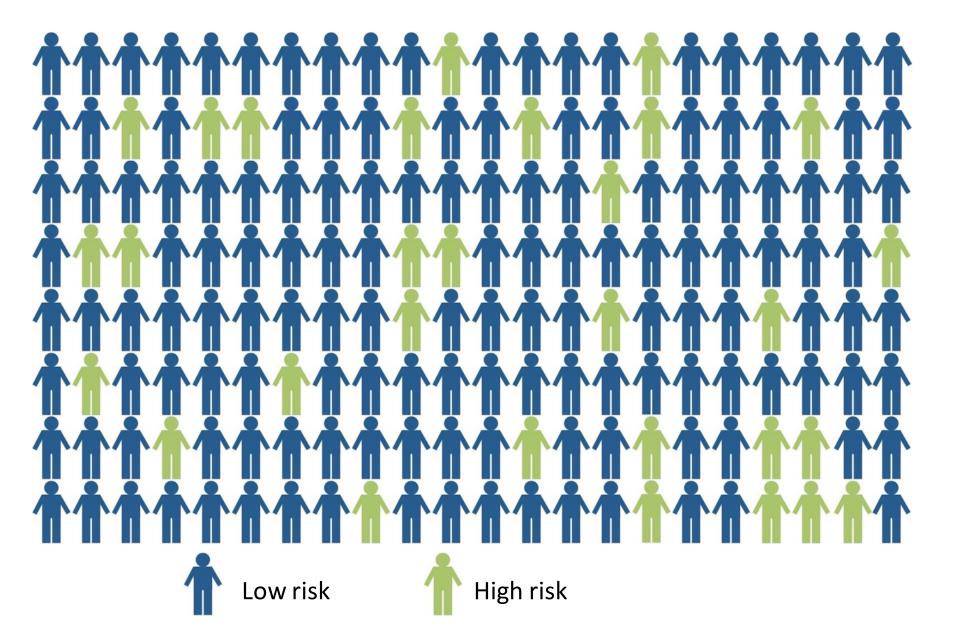
Public health is about context

Public health is about populations

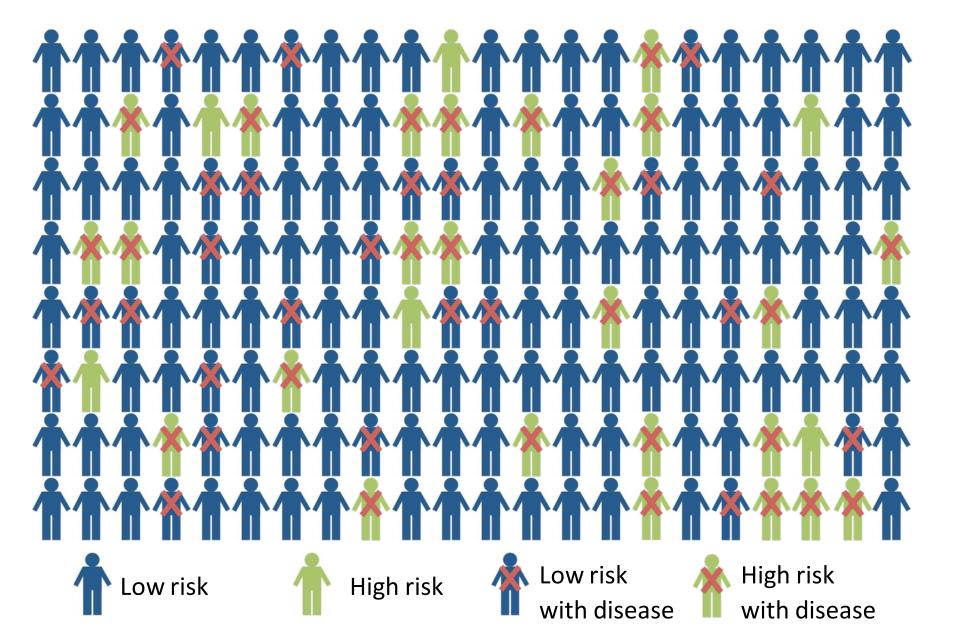
Public health is about health promotion vs disease cure



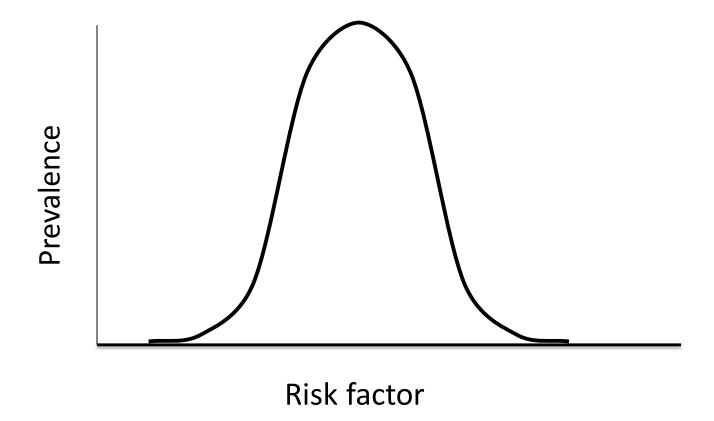
Some are "high risk"



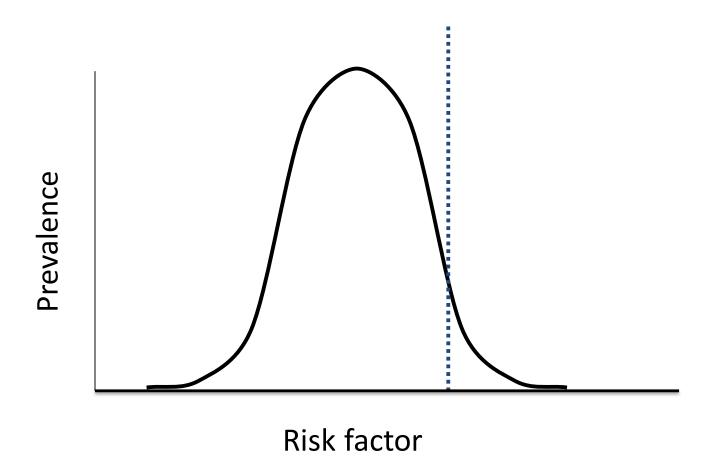
Both "high risk" and others have disease



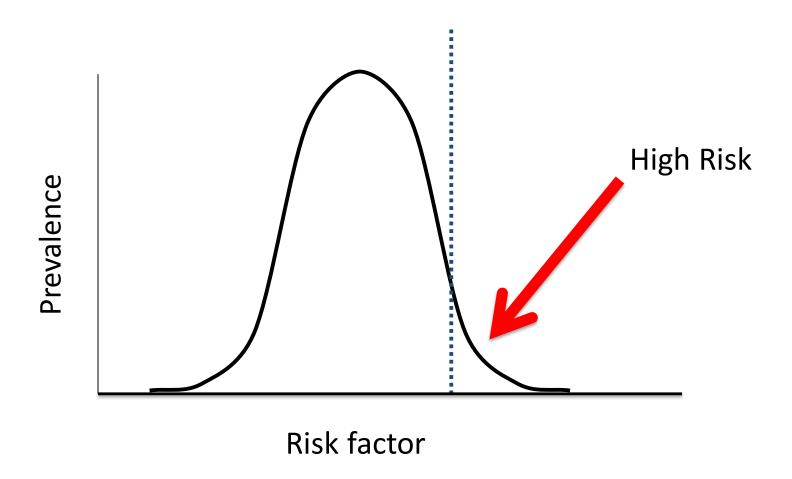
Medicine.



Identify those who are high risk



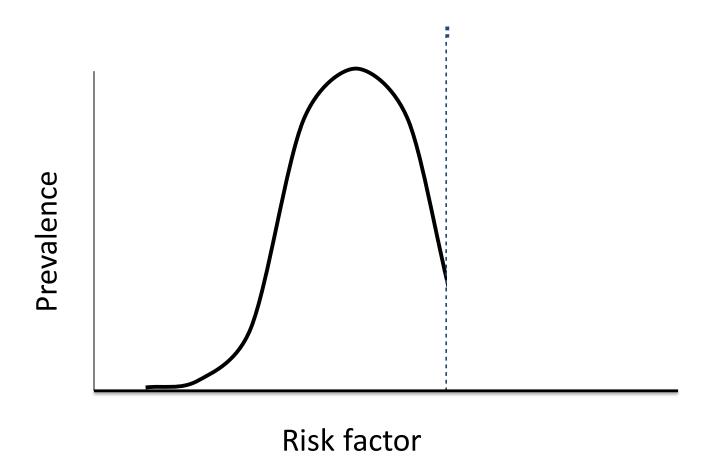
Identify those who are high risk



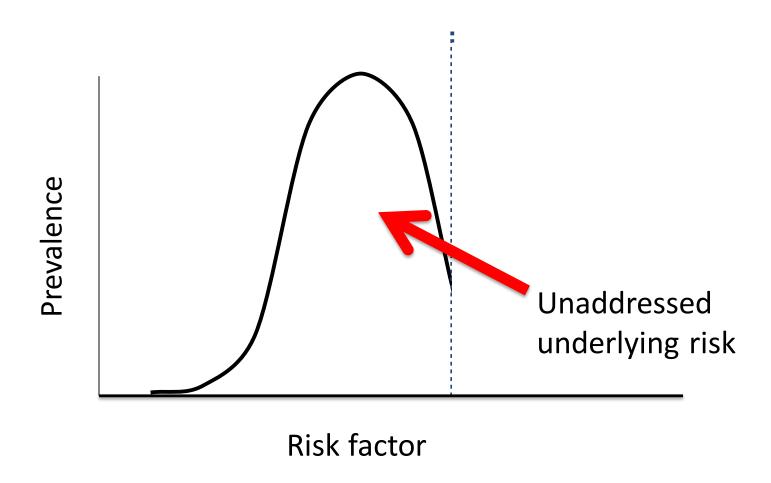
Then decrease their risk...



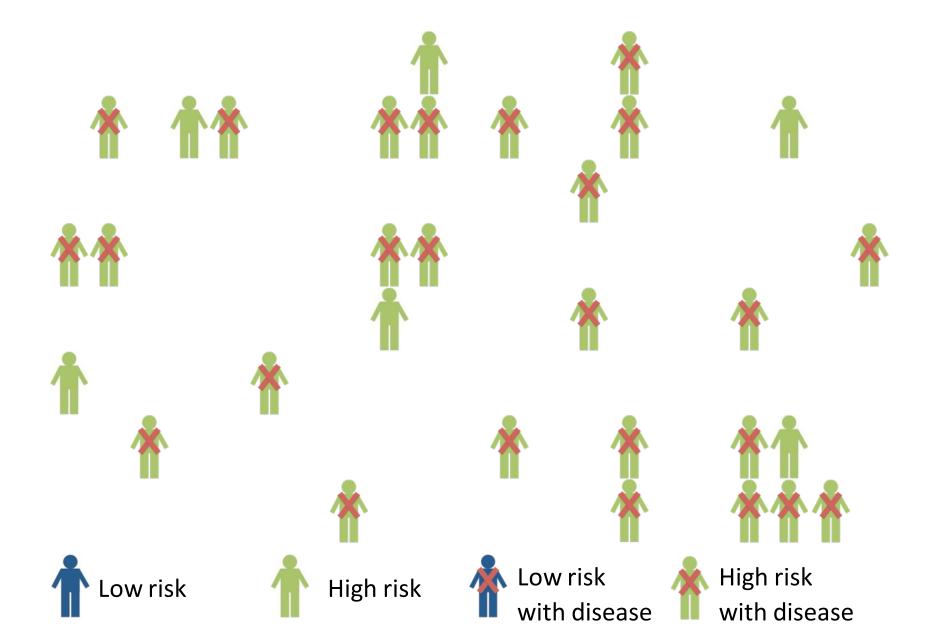
Then decrease their risk...



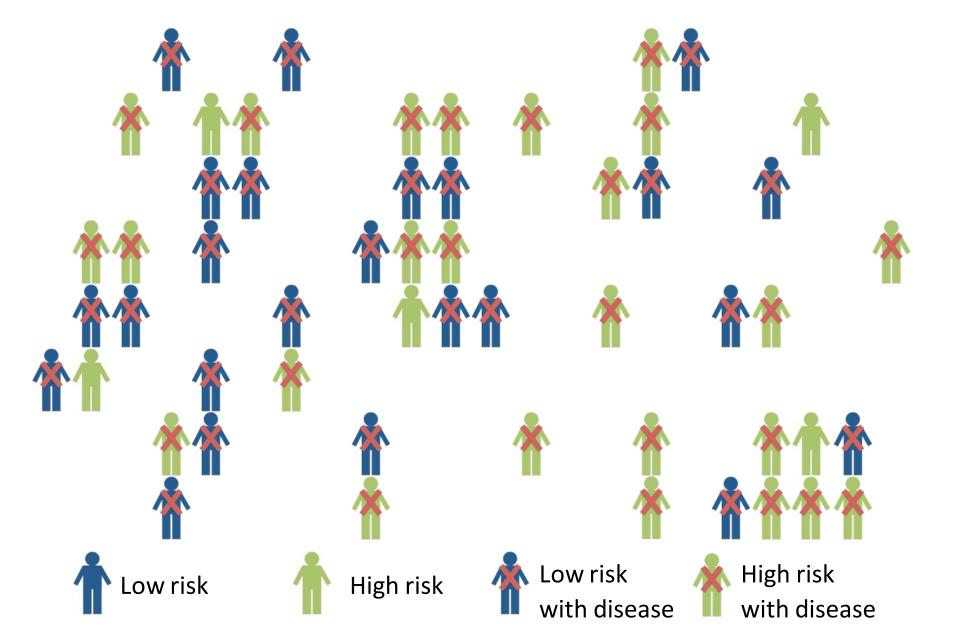
Then decrease their risk...



The individual strategy sees this...

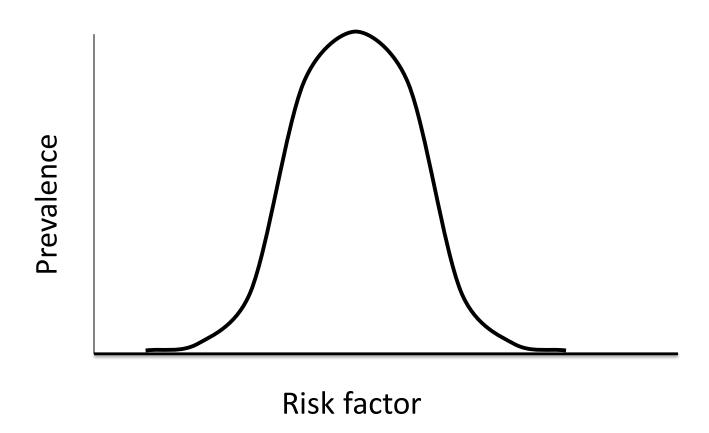


...but misses all of this

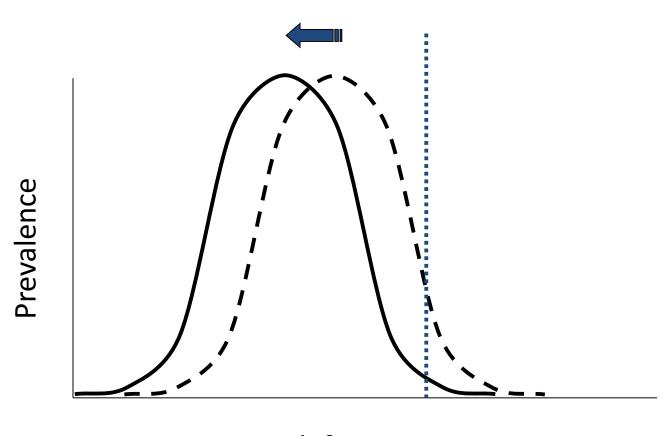


Public health.

The collective strategy

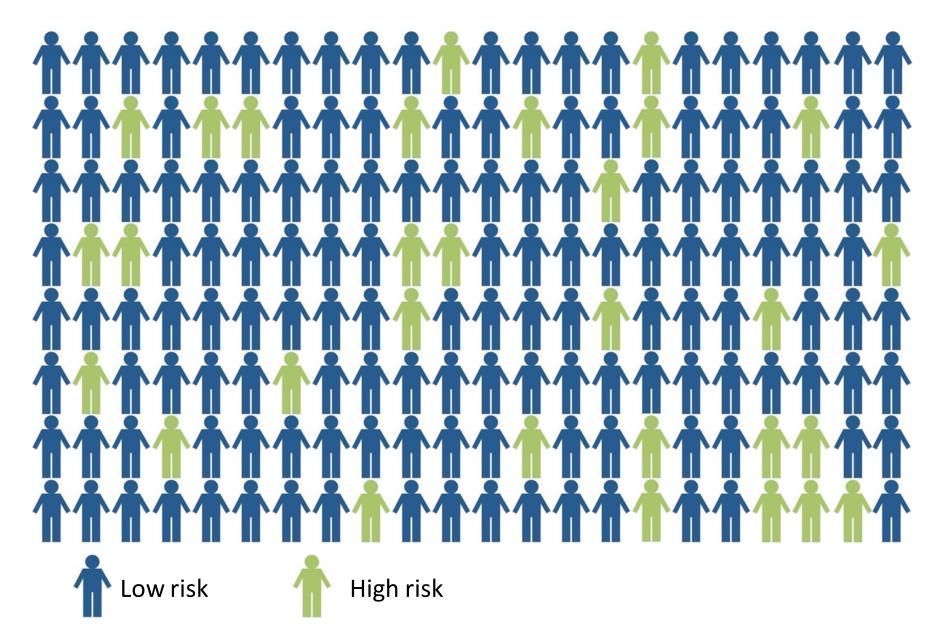


Shift the entire risk distribution

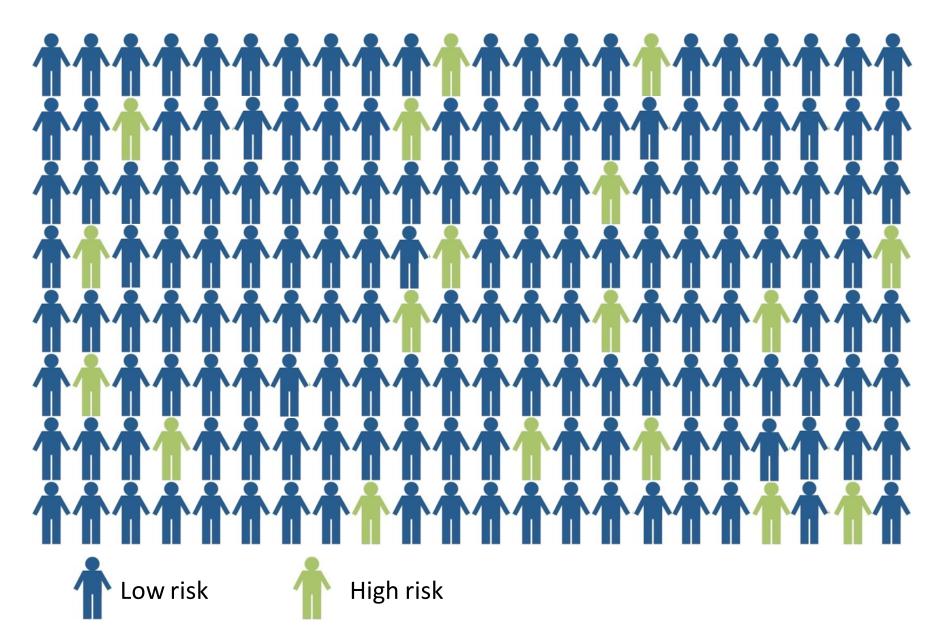


Risk factor

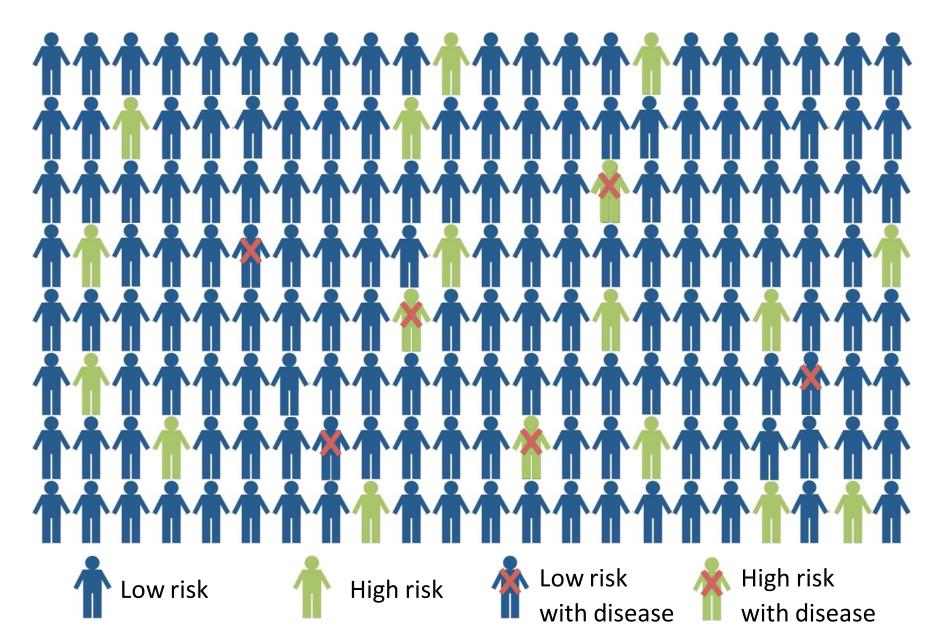
The collective strategy...



The collective strategy...



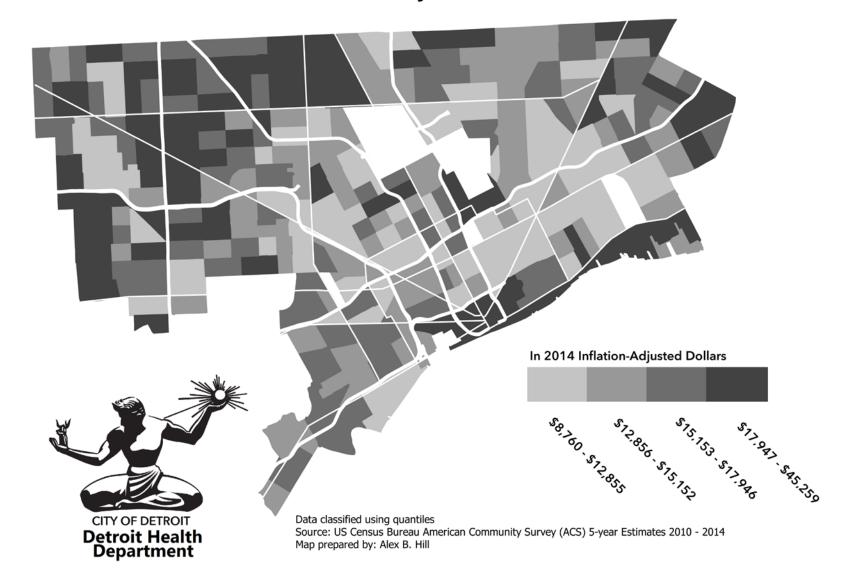
The collective strategy...



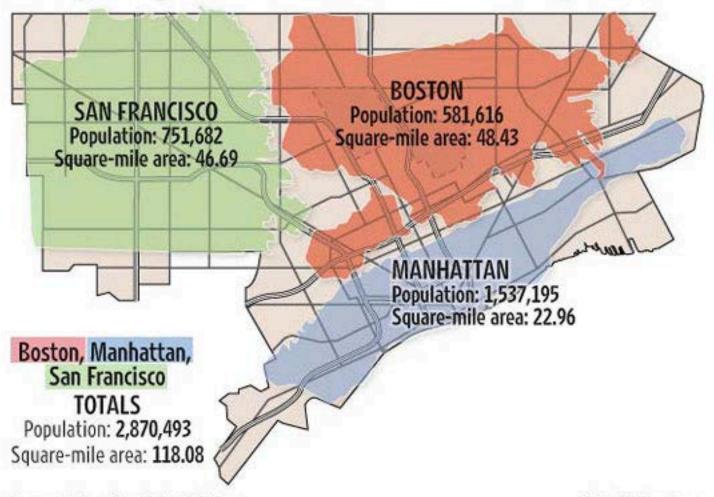
Public health is about context

Context in Detroit.

Median Income by Census Tract



Comparing Detroit to three other major cities

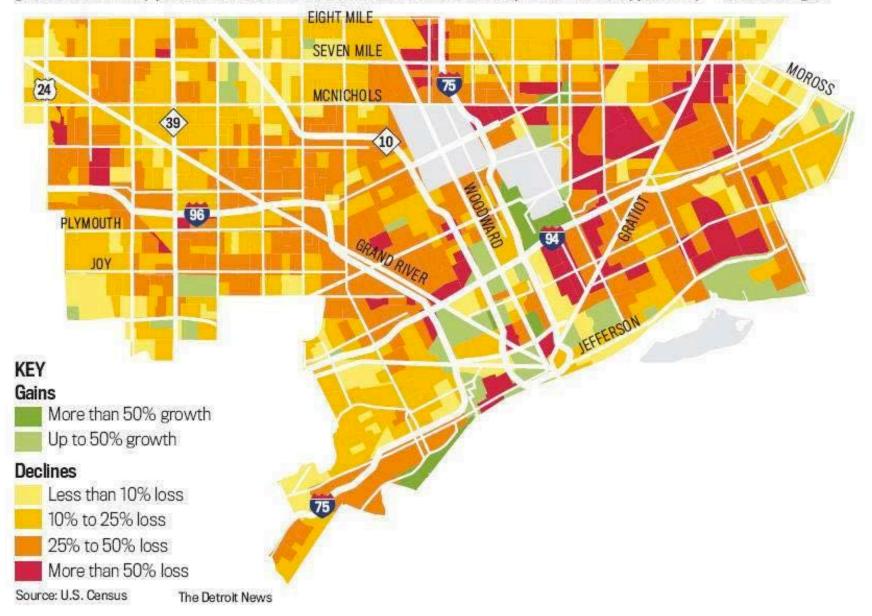


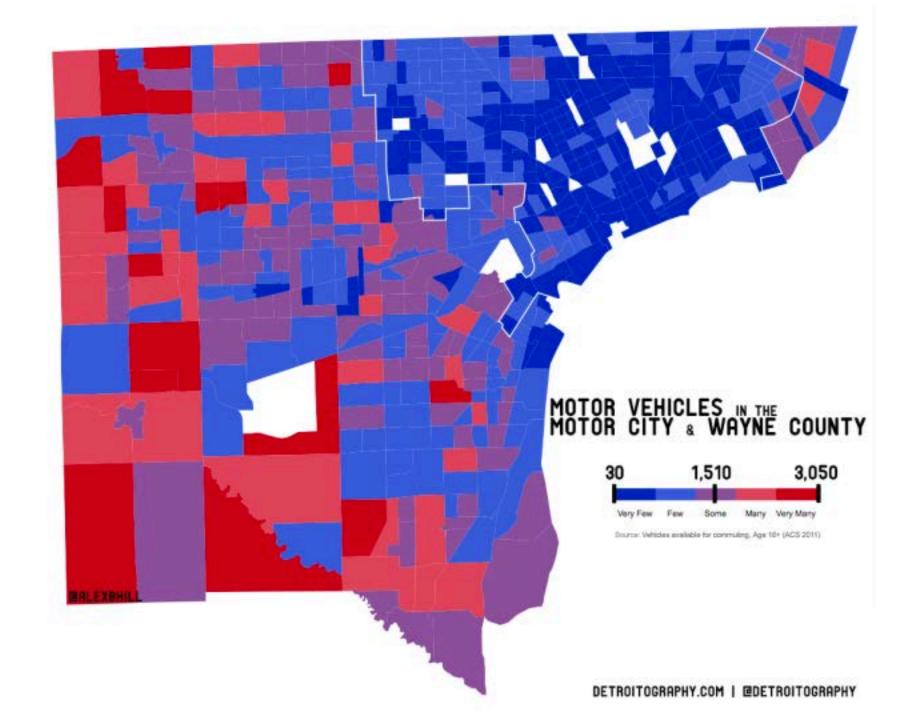
Source: University of Detroit Mercy

Detroit Free Press

Detroit's population

From 2000 to 2010, Detroit saw its population drop by 25 percent, its largest percentage drop ever. At the neighborhood level, though, there are vast differences, with some areas seeing far greater declines as some areas enjoyed stability and growth. As the city plans its future, it can use the latest numbers to help find areas of opportunity – and challenges.





WORLD'S HIGHEST STANDARD OF LIVING

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Density and Detroit.

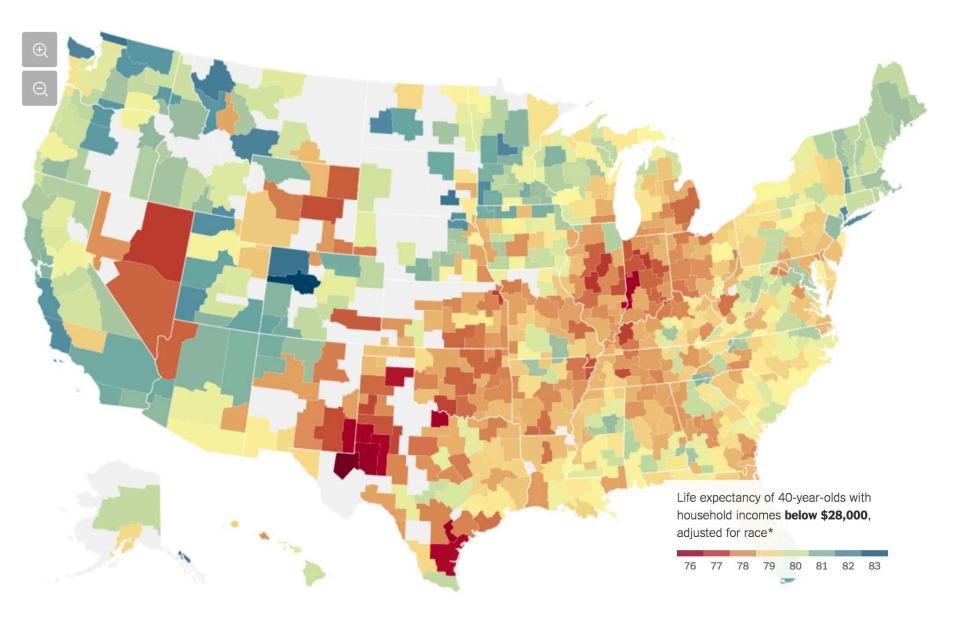






The Rich Live Longer Everywhere. For the Poor, Geography Matters.

By NEIL IRWIN and QUOCTRUNG BUI APRIL 11, 2016



Where the Poor Live the Longest

MEN		WOMEN	
New York City	79.5	Miami	84.2
San Jose, Calif.	79.5	New York City	84.0
Santa Barbara	79.4	Santa Barbara	84.0
Santa Rosa	79.0	San Jose, Calif.	83.7
Los Angeles	79.0	San Diego	83.4
San Francisco	78.8	Port St. Lucie, Fla.	83.3
San Diego	78.8	Newark	83.2
Miami	78.3	Los Angeles	83.2
Newark	78.2	Portland, Me.	83.1
Boston	78.1	Providence, R.I.	83.1

Where the Poor Live the Shortest

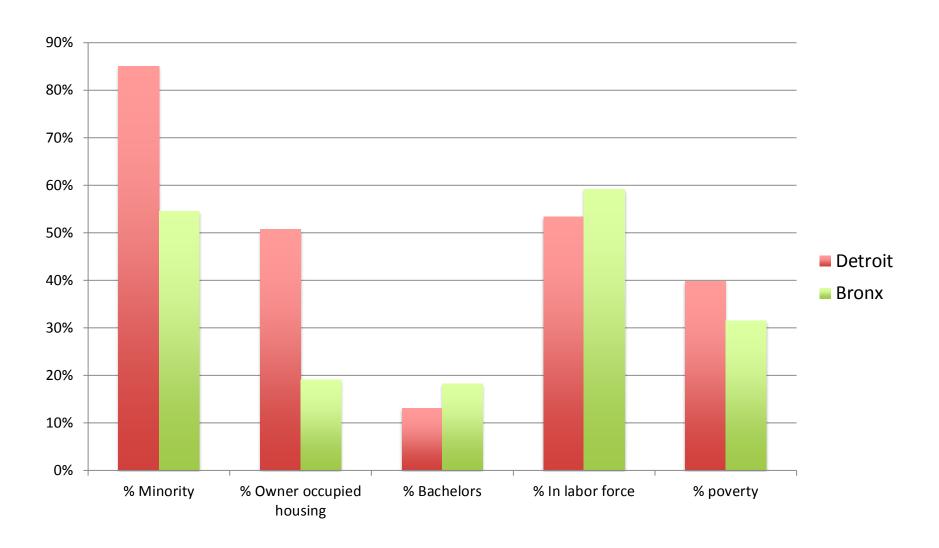
MEN		WOMEN	
Gary, Ind.	74.2	Las Vegas	80.0
Indianapolis	74.6	Oklahoma City	80.2
Detroit	74.8	Tulsa, Okla.	80.3
Louisville, Ky.	74.9	Honolulu	80.3
Tulsa, Okla.	74.9	Detroit	80.5
Toledo, Ohio	74.9	Cincinnati	80.5
Oklahoma City	75.0	Indianapolis	80.6
Dayton, Ohio	75.1	Des Moines	80.6
Knoxville, Tenn.	75.1	Gary, Ind.	80.7
Las Vegas	75.1	Little Rock, Ark.	80.7

Among the 100 largest metro areas in the U.S.

Geography Matters More for the Poor



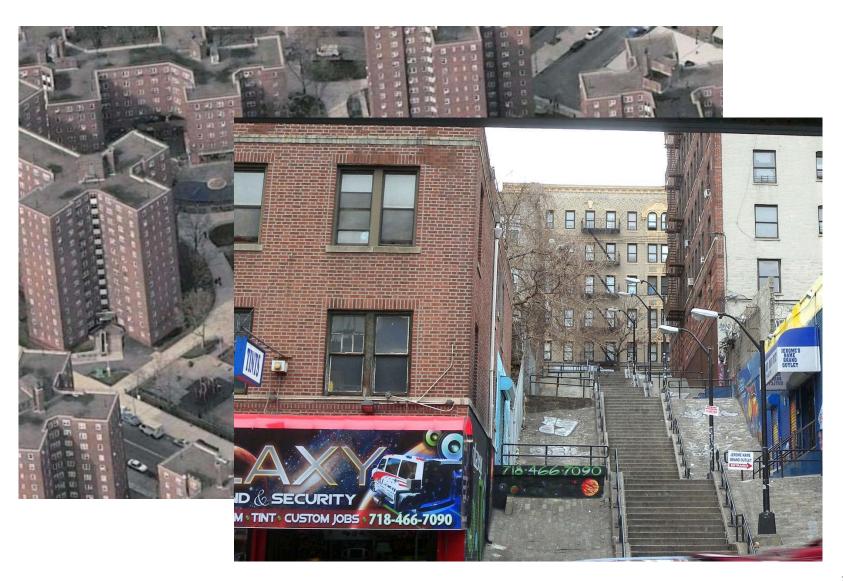
Detroit vs the Bronx.



The Bronx.



The Bronx.

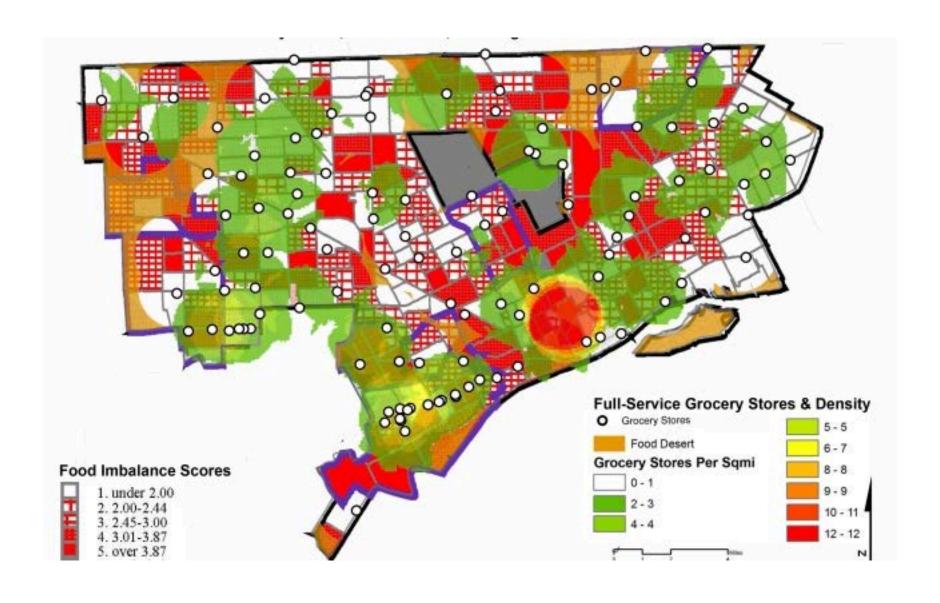


Detroit.

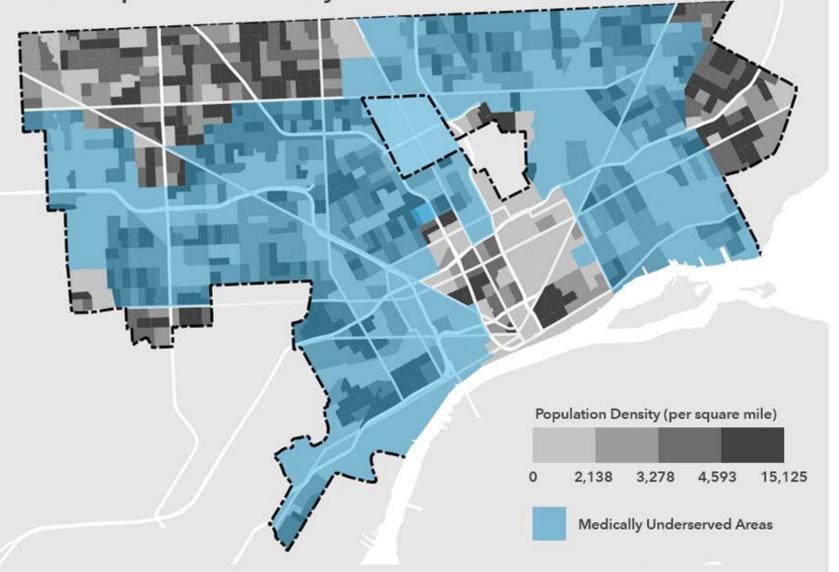


Detroit.





Medically Underserved Areas in Detroit with Population Density



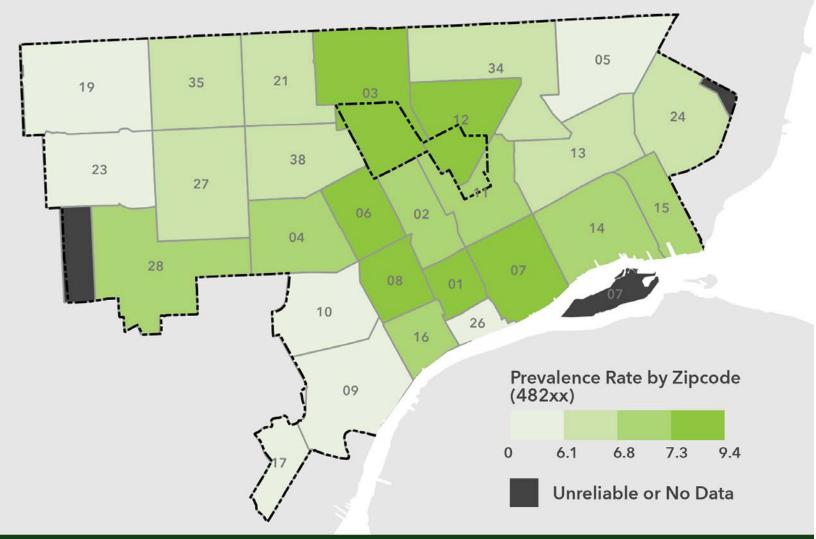
Sulfur Dioxide Attainment Designation Status



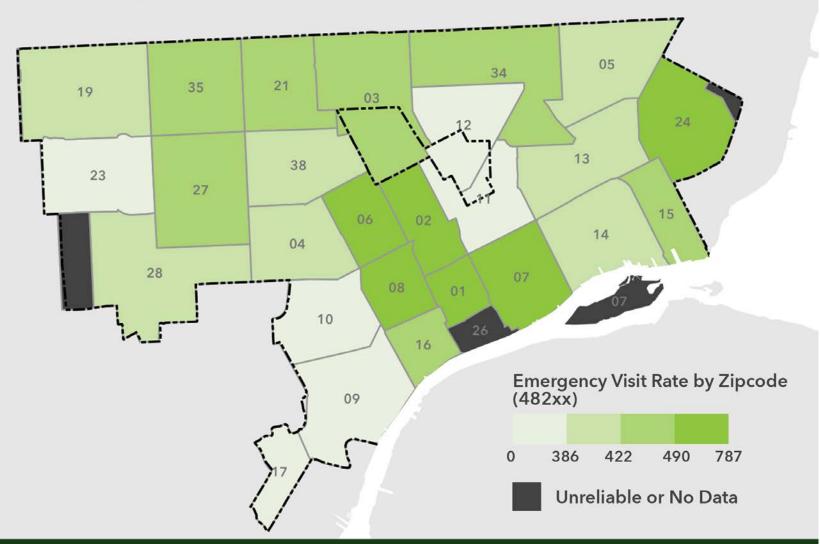


Asthma in Detroit

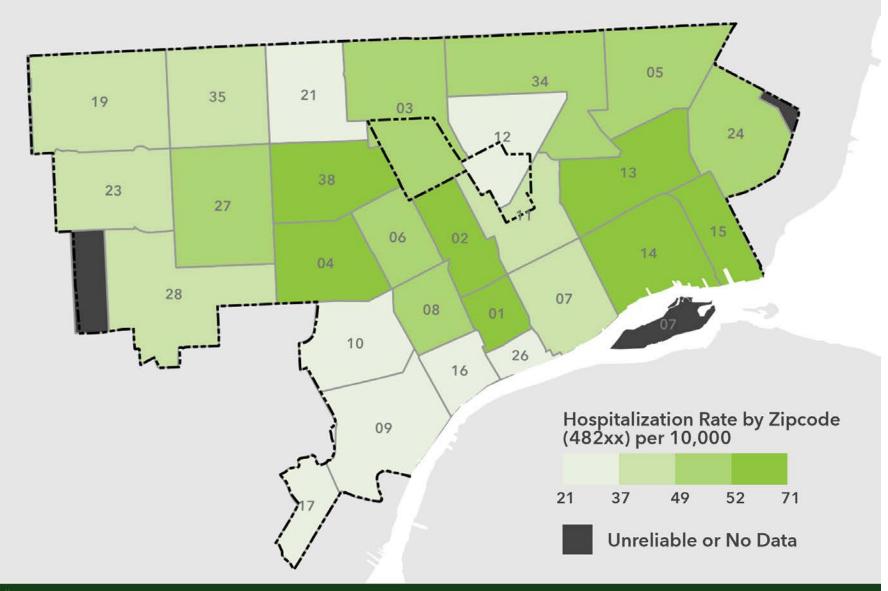
Prevalence of Persistent Asthma Among Children <18 on Medicaid in 2013

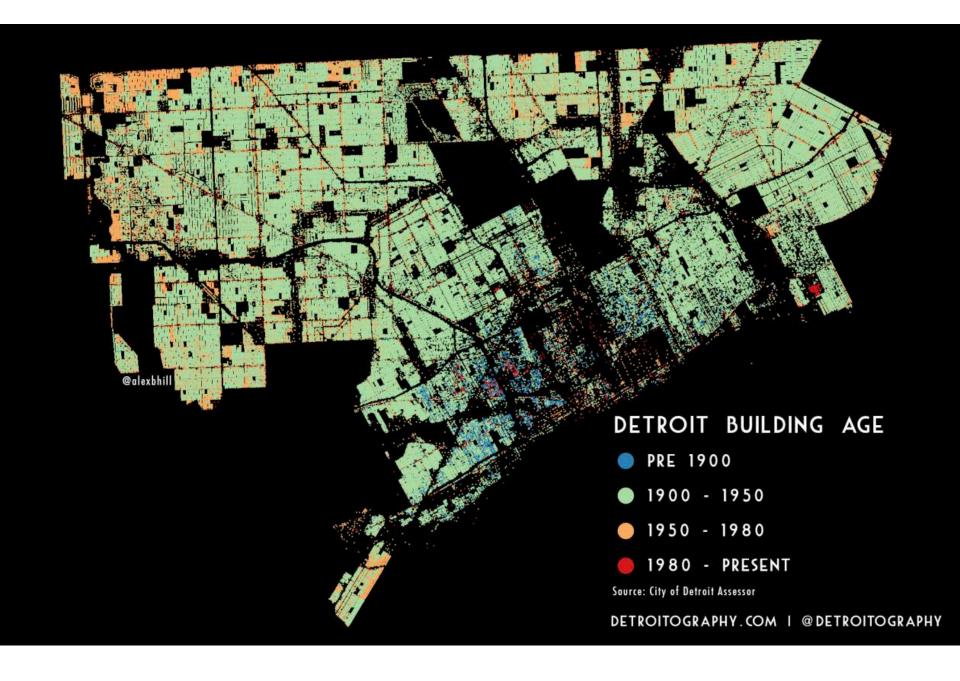


Rate of Asthma Emergency Department Visits Among Children <18 on Medicaid in 2013

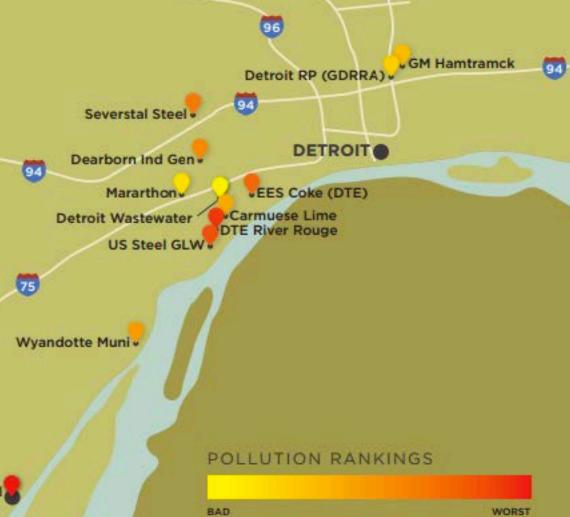


Asthma Hospitalization Rate 2009 - 2013





WAYNE COUNTY Sulfur Dioxide Emissions



Public health is what we, as a society, do collectively to assure the conditions for people to be healthy

Public health is about context

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