

# The Impacts of Neighborhoods on Economic Opportunity

## New Evidence and Policy Lessons

Raj Chetty

Harvard University

Photo Credit: Florida Atlantic University

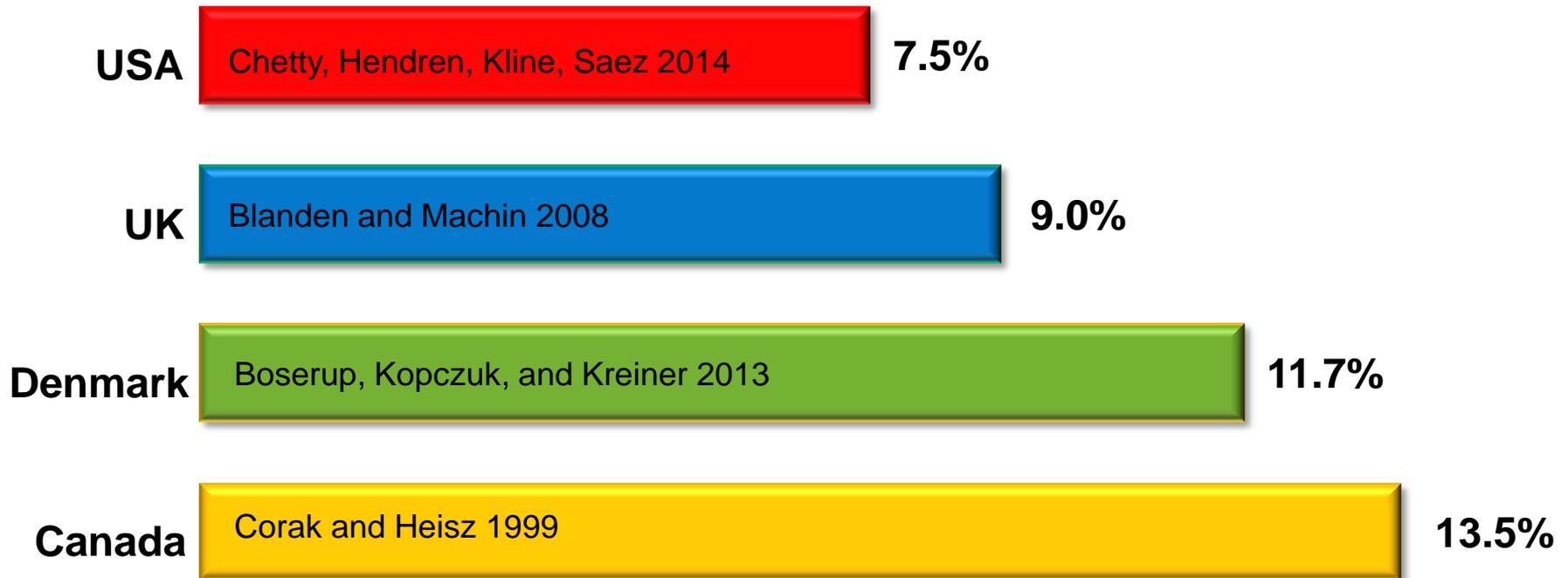


# The American Dream?

- Probability that a child born to parents in the bottom fifth of the income distribution reaches the top fifth:

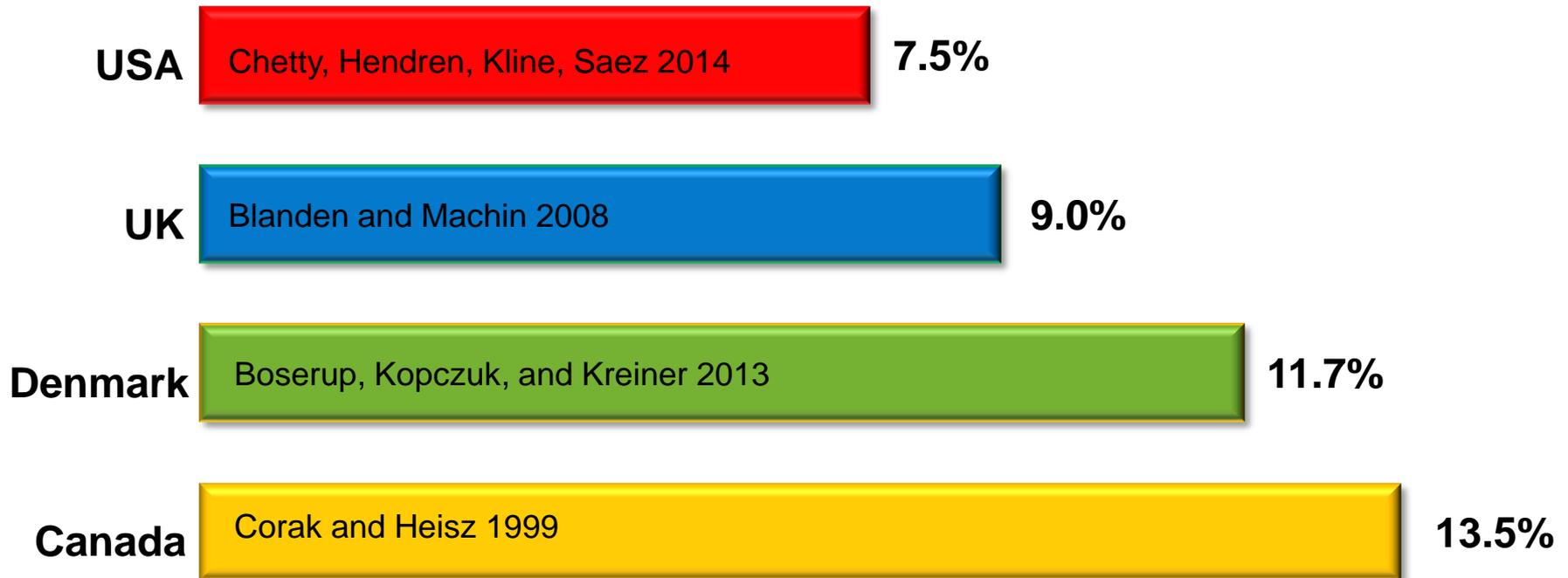
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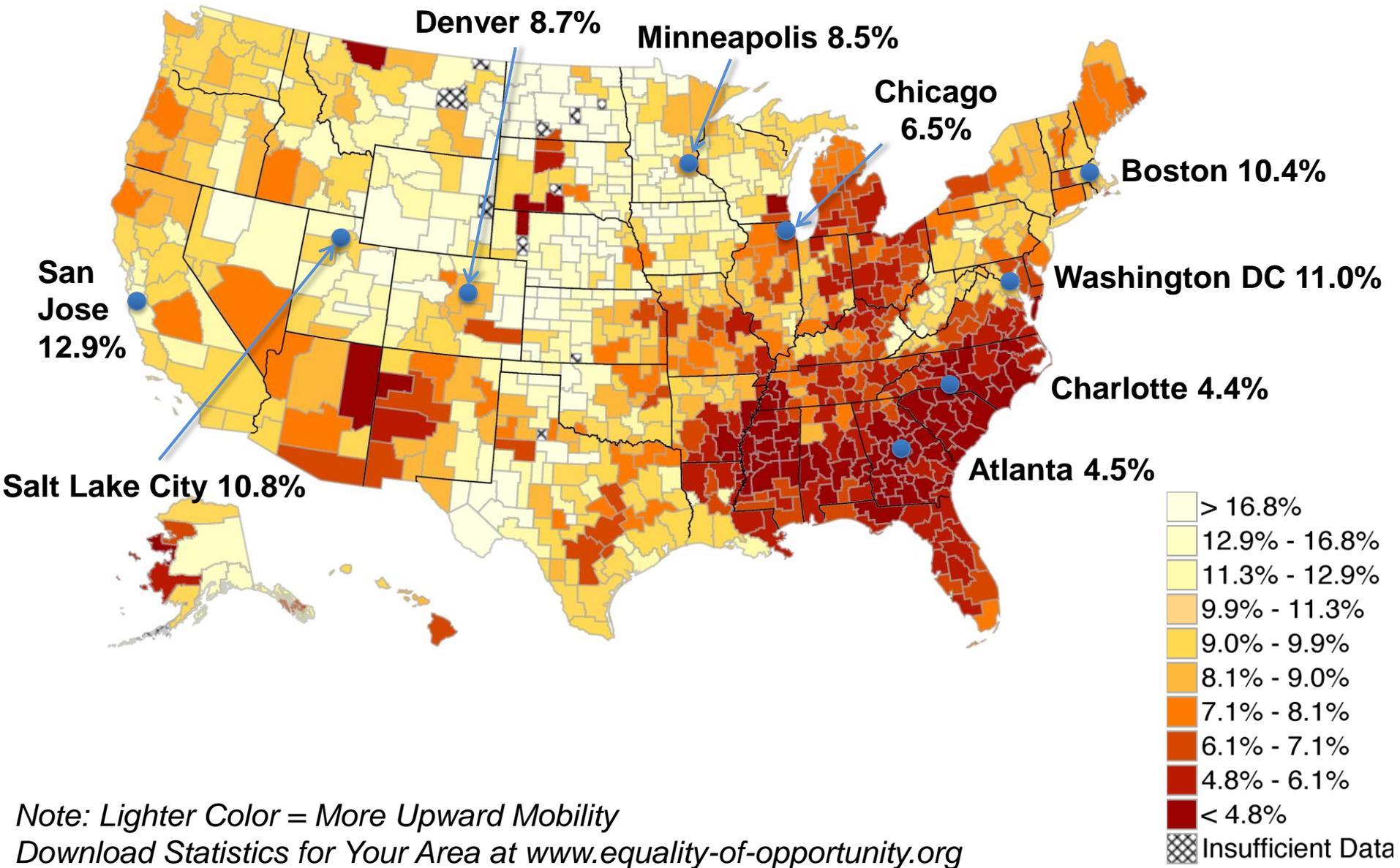
→ Chances of achieving the “American Dream” are almost two times higher in Canada than in the U.S.

## Differences in Opportunity Within the U.S.

- Differences across countries have been the focus of policy discussion
- But upward mobility varies even more *within* the U.S.
- We calculate upward mobility for every metro and rural area in the U.S.
  - Use anonymous earnings records on 10 million children born between 1980-1982
  - Classify children based on where they grew up, and track them no matter where they live as adults

# The Geography of Upward Mobility in the United States

Chances of Reaching the Top Fifth Starting from the Bottom Fifth by Metro Area



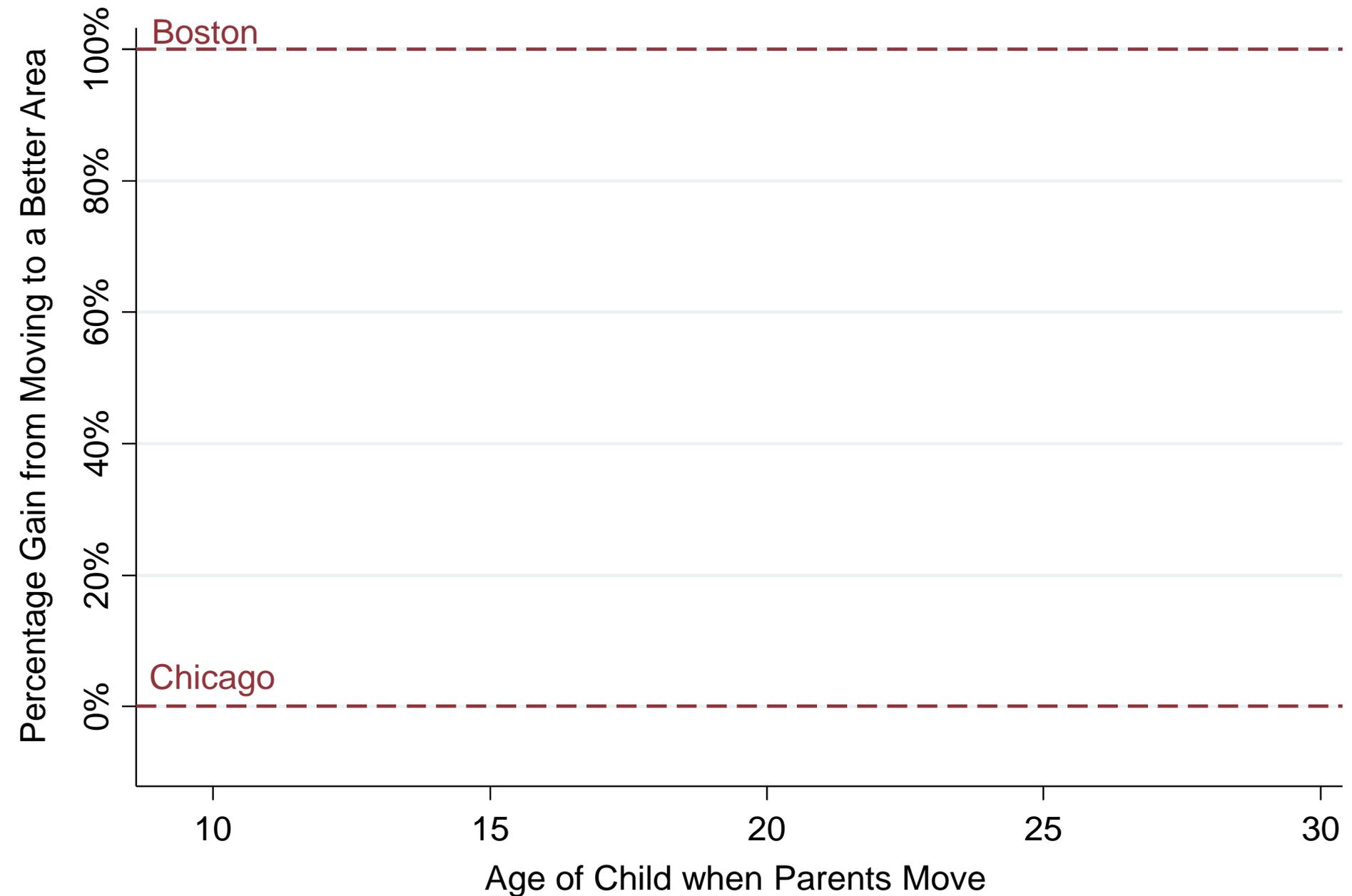
# Why Does Upward Mobility Vary Across Places?

- Two very different explanations for variation in children's outcomes across areas:
  1. Heterogeneity: different people live in different places
  2. Neighborhood effects: places have a *causal* effect on upward mobility for a given person

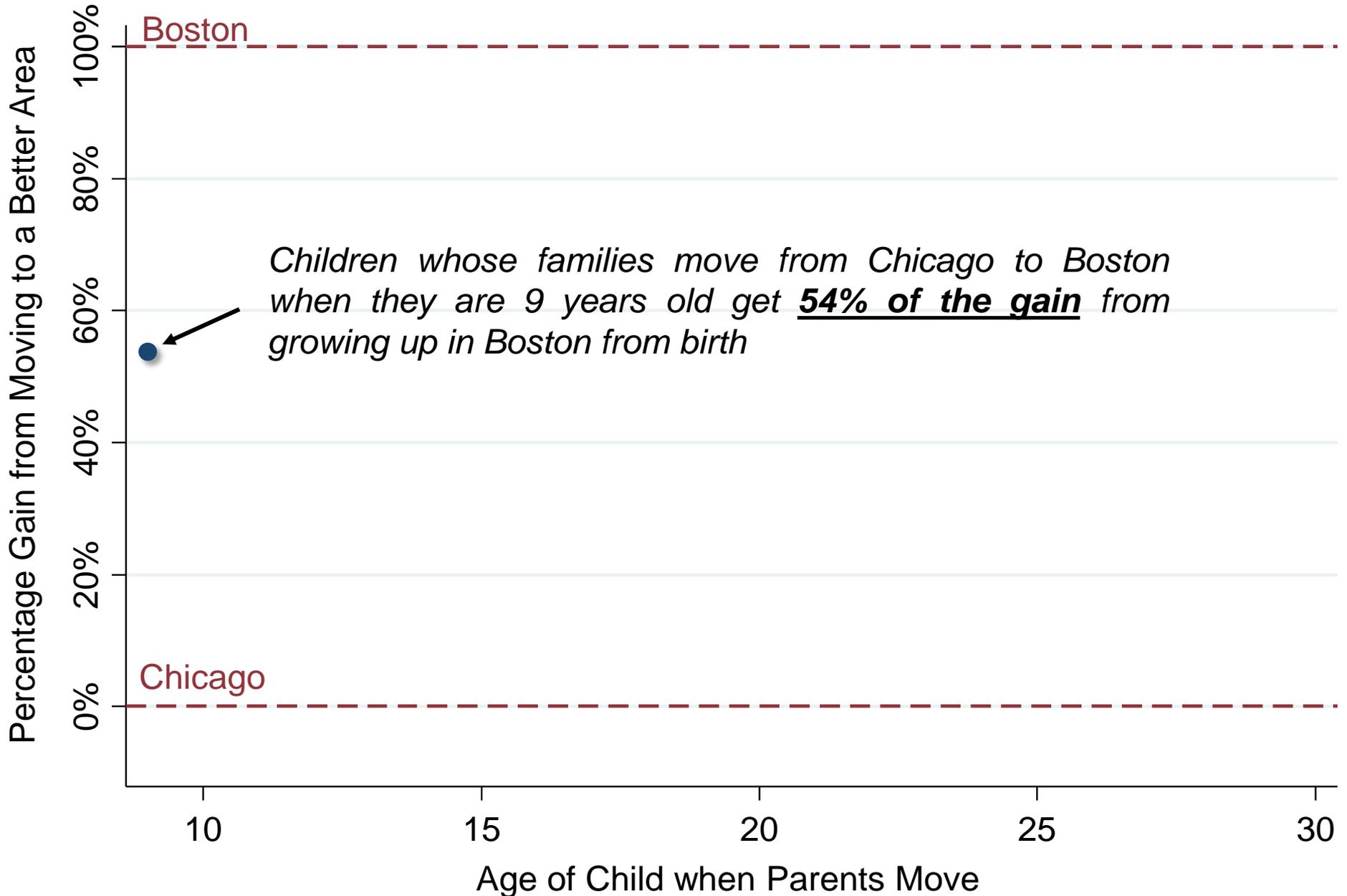
# Identifying Causal Effects of Place

- Ideal experiment: randomly assign children to neighborhoods and compare outcomes in adulthood
- We approximate this experiment using a quasi-experimental design [Chetty and Hendren 2015]
  - Study 5 million families who move across areas with children of different ages in observational data

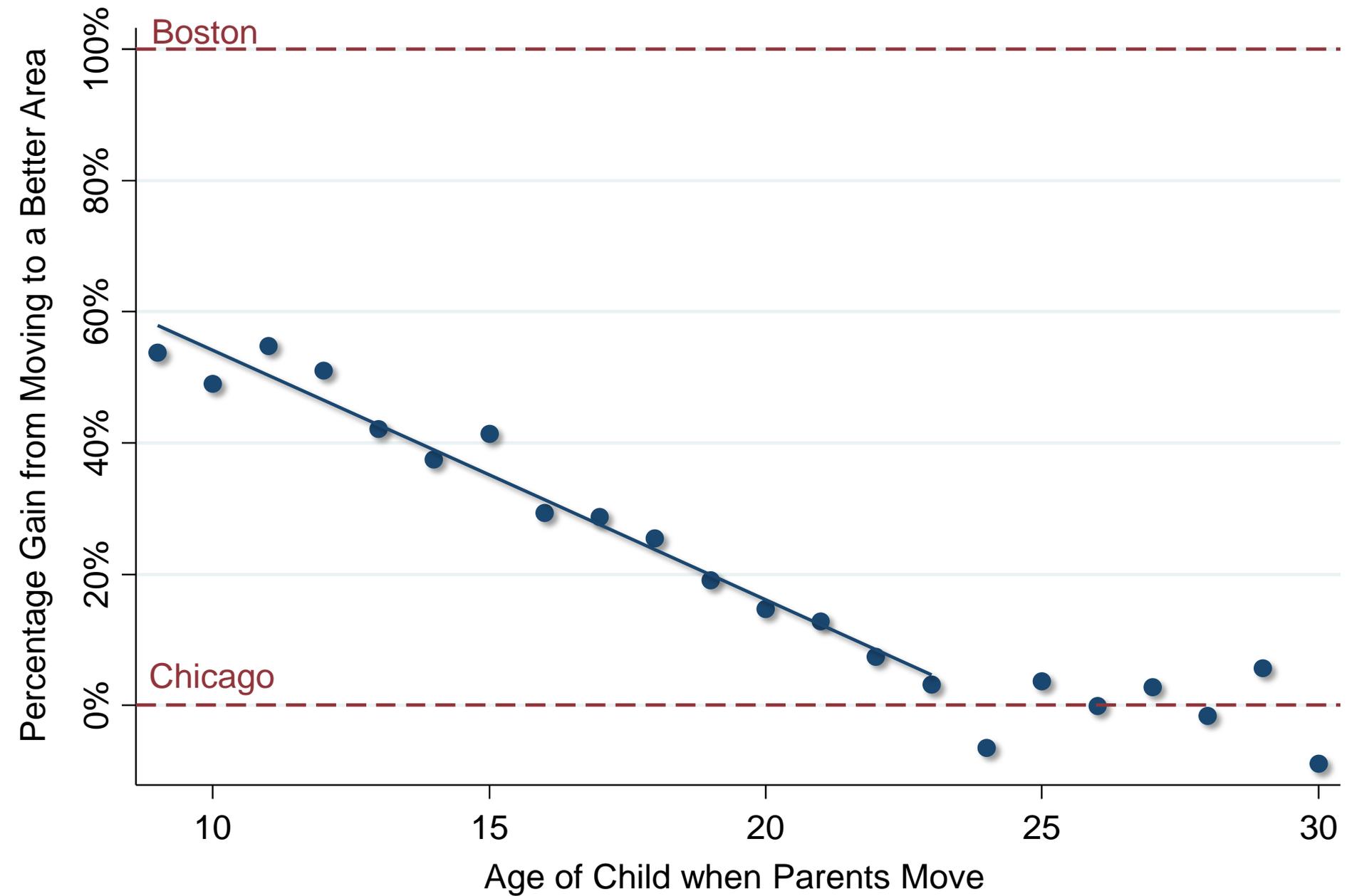
# Effects of Moving to a Different Neighborhood on a Child's Income in Adulthood by Age at Move



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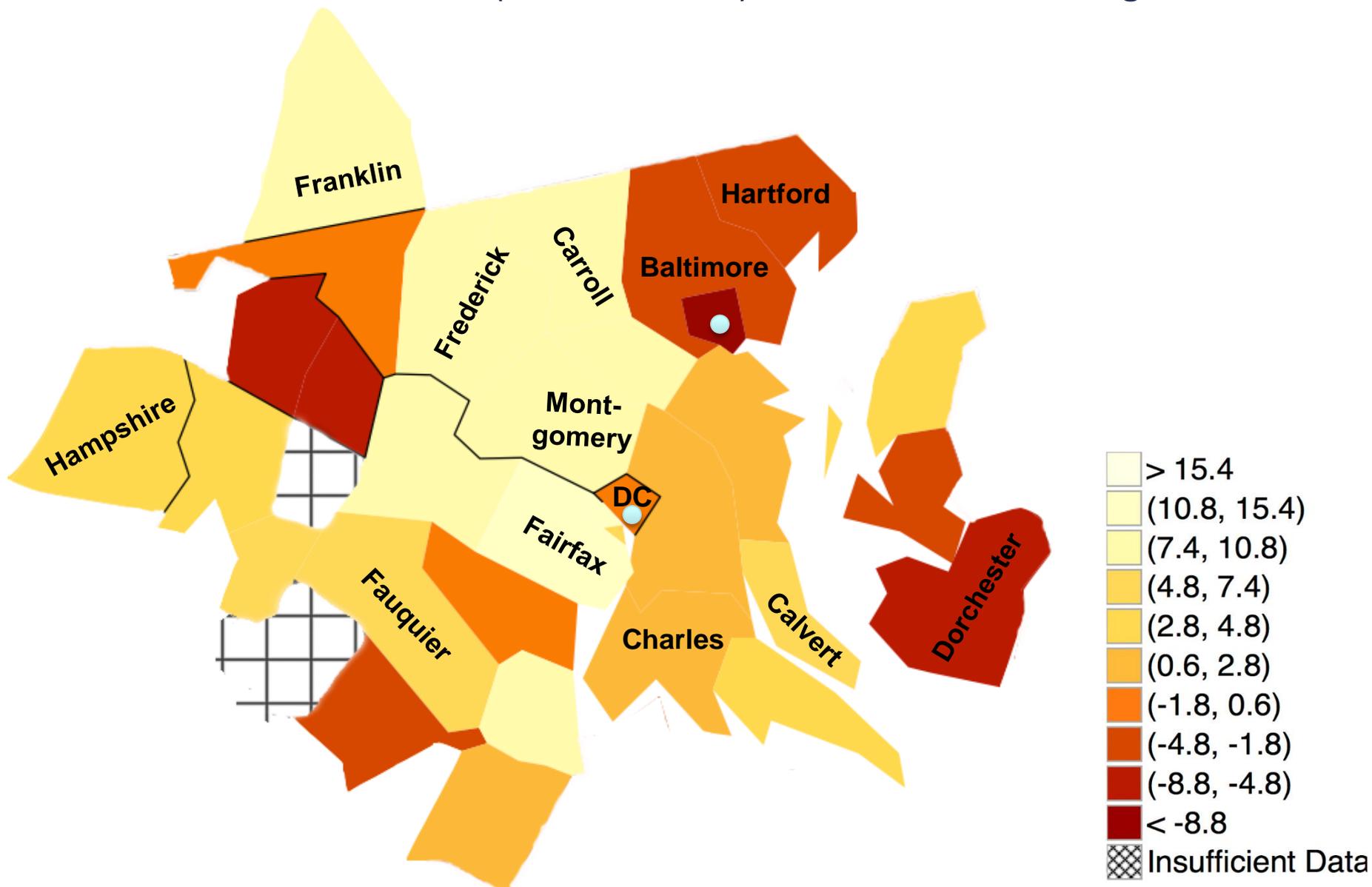
# Effects of Moving to a Different Neighborhood on a Child's Income in Adulthood by Age at Move



# County-Level Estimates of Causal Effects

- By studying families who move, we identify causal effect of every county in the U.S. on a given child's earnings
  - Predict how much a child would earn on average if he/she had grown up in a different county
- For example, children who move from Washington DC to Fairfax county at younger ages earn more as adults
  - Implies that Fairfax has a positive effect relative to DC
- Use a statistical model to combine such information for all 5 million movers to estimate each county's effect

# Causal Effects of Growing up in Different Counties on Earnings in Adulthood For Children in Low-Income (25<sup>th</sup> Percentile) Families in the Washington DC Area



*Note: Lighter colors represent areas where children from low-income families earn more as adults*

# Causal Effects on Earnings for Children in Low-Income (25<sup>th</sup> Percentile) Families

Top 10 and Bottom 10 Among the 100 Largest Counties in the U.S.

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Top 10 Counties			Bottom 10 Counties		
Rank	County	Change in Earnings (%)	Rank	County	Change in Earnings (%)
1	Dupage, IL	+15.1	91	Pima, AZ	-12.2
2	Snohomish, WA	+14.4	92	Bronx, NY	-12.3
3	Bergen, NJ	+14.1	93	Milwaukee, WI	-12.3
4	Bucks, PA	+13.3	94	Wayne, MI	-12.5
5	Contra Costa, CA	+12.1	95	Fresno, CA	-12.9
6	Fairfax, VA	+12.1	96	Cook, IL	-13.3
7	King, WA	+11.3	97	Orange, FL	-13.5
8	Norfolk, MA	+10.8	98	Hillsborough, FL	-13.5
9	Montgomery, MD	+10.5	99	Mecklenburg, NC	-13.8
10	Middlesex, NJ	+8.6	100	Baltimore City, MD	-17.3

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*Estimates represent % change in earnings from growing up a given county instead of an average place*

# Causal Effects on Earnings for Children in Low-Income (25<sup>th</sup> Percentile) Families

## Male Children

Top 10 Counties			Bottom 10 Counties		
Rank	County	Change in Earnings (%)	Rank	County	Change in Earnings (%)
1	Bucks, PA	+16.8	91	Milwaukee, WI	-14.8
2	Bergen, NJ	+16.6	92	New Haven, CT	-15.0
3	Contra Costa, CA	+14.5	93	Bronx, NY	-15.2
4	Snohomish, WA	+13.9	94	Hillsborough, FL	-16.3
5	Norfolk, MA	+12.4	95	Palm Beach, FL	-16.5
6	Dupage, IL	+12.2	96	Fresno, CA	-16.8
7	King, WA	+11.1	97	Riverside, CA	-17.0
8	Ventura, CA	+10.9	98	Wayne, MI	-17.4
9	Hudson, NJ	+10.4	99	Pima, AZ	-23.0
10	Fairfax, VA	+9.2	<b>100</b>	<b>Baltimore City, MD</b>	<b>-27.9</b>

*Estimates represent % change in earnings from growing up a given county instead of an average place*

# Causal Effects on Earnings for Children in Low-Income (25<sup>th</sup> Percentile) Families

## Female Children

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Top 10 Counties			Bottom 10 Counties		
Rank	County	Change in Earnings (%)	Rank	County	Change in Earnings (%)
1	Dupage, IL	+18.2	91	Hillsborough, FL	-10.2
2	Fairfax, VA	+15.1	92	Fulton, GA	-11.5
3	Snohomish, WA	+14.6	93	Suffolk, MA	-11.5
4	Montgomery, MD	+13.6	94	Orange, FL	-12.0
5	Montgomery, PA	+11.6	95	Essex, NJ	-12.7
6	King, WA	+11.4	96	Cook, IL	-12.8
7	Bergen, NJ	+11.2	97	Franklin, OH	-12.9
8	Salt Lake, UT	+10.2	98	Mecklenburg, NC	-14.7
9	Contra Costa, CA	+9.4	99	New York, NY	-14.9
10	Middlesex, NJ	+9.4	100	Marion, IN	-15.5

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*Estimates represent % change in earnings from growing up a given county instead of an average place*

# Two Policy Approaches to Improving Upward Mobility

- Importance of place for mobility motivates two types of policies:
  1. Help people move to better areas
  2. Invest in places with low levels of opportunity to replicate successes of areas with high upward mobility

# Policy Approach 1: Moving to Opportunity

- One way to improve outcomes: give low income families subsidized housing vouchers to move to better areas
  - U.S. already spends \$45 bil per year on affordable housing, \$20 bil. of which goes to Section 8 housing vouchers
- HUD Moving to Opportunity Experiment: gave such vouchers using a randomized lottery
  - 4,600 families in Boston, New York, LA, Chicago, and Baltimore in mid 1990's

# Most Common MTO Residential Locations in New York



# Moving to Opportunity Experiment

- Children who moved to low-poverty areas when young (e.g., below age 13) do much better as adults:
  - 30% higher earnings = \$100,000 gain over life in present value
  - 27% more likely to attend college
  - 30% less likely to become single parents
- But moving had little effect on the outcomes of children who were already teenagers
- Moving also had no effect on parents' earnings
- Reinforces conclusion that *childhood exposure* is a key determinant of upward mobility

# Implications for Housing Policy

- Encouraging families with young kids to move to lower-poverty areas improves outcomes for low-income children
  - Increase in tax revenue from kids' higher earnings more than offsets cost of voucher relative to public housing
- Such integration can help the poor without hurting the rich
  - Mixed-income neighborhoods produce, if anything, slightly *better* outcomes for the rich

## Policy Approach 2: Improving Neighborhoods

- Limits to scalability of policies that move people
  - Also need policies that improve existing neighborhoods
- Challenging to identify causal effects of local policies
  - But we can characterize the features of areas that generate good outcomes

# What are the Characteristics of High-Mobility Areas?

## Five Strongest Correlates of Upward Mobility

### 1. Segregation

- Racial and income segregation associated with less mobility
- Long commute times (sprawl) associated with less mobility

# What are the Characteristics of High-Mobility Areas?

## Five Strongest Correlates of Upward Mobility

1. Segregation
2. Income Inequality
  - Places with smaller middle class have much less mobility

# What are the Characteristics of High-Mobility Areas?

## Five Strongest Correlates of Upward Mobility

1. Segregation
2. Income Inequality
3. Family Structure
  - Areas with more single parents have much lower mobility
  - Strong correlation even for kids whose *own* parents are married

# What are the Characteristics of High-Mobility Areas?

## Five Strongest Correlates of Upward Mobility

1. Segregation
2. Income Inequality
3. Family Structure
4. Social Capital
  - “It takes a village to raise a child”
  - Putnam (1995): “Bowling Alone”

# What are the Characteristics of High-Mobility Areas?

## Five Strongest Correlates of Upward Mobility

1. Segregation
2. Income Inequality
3. Family Structure
4. Social Capital
5. School Quality
  - Greater expenditure, smaller classes, higher test scores correlated with more mobility
  - Clear evidence of *causal* effects from other studies

# Race and Upward Mobility

- Areas with larger African-American populations have significantly lower levels of upward mobility
- Movers evidence shows that this is not only because of differences in mobility across racial groups
  - When a *given* family moves to a county with a larger African-American population, children's outcomes fall
- Areas with larger African-American populations tend to have less investment in public goods, schools, etc.
- Key implication: place effects amplify racial inequality
  - We estimate that 20% of black-white earnings gap can be attributed to county in which blacks vs. whites grow up

# Policy Lessons

1. Tackle social mobility at a local, not just national level
  - Focus on specific cities such as Baltimore and neighborhoods within those cities

# Policy Lessons

1. Tackle social mobility at a local, not just national level
2. Improve childhood environment
  - Childhood environment matters at *all* ages until age 20, not just in early childhood

# Policy Lessons

1. Tackle social mobility at a local, not just national level
2. Improve childhood environment
3. Harness big data to evaluate other policies scientifically and measure local progress and performance
  - Identify which neighborhoods are in greatest need of improvement and which policies work

# Download County-Level Data on Social Mobility in the U.S.

[www.equality-of-opportunity.org/data](http://www.equality-of-opportunity.org/data)

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## Downloadable Data on Intergenerational Mobility

Data Description		
Preferred Mobility Measures by Commuting Zone	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 1: National 100 by 100 Transition Matrix	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 2: Marginal Income Distributions by Centile	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 3: Intergenerational Mobility Statistics and Selected Covariates by County	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 4: Intergenerational Mobility Statistics by Metropolitan Statistical Area	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 5: Intergenerational Mobility Statistics by Commuting Zone	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 6: Quintile-Quintile Transition Matrices by Commuting Zone	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 7: Income Distributions by Commuting Zone	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 8: Commuting Zone Characteristics	<a href="#">Stata file</a>	<a href="#">Excel file</a>
Online Data Table 9: Commuting Zone Characteristics Definitions and Data Sources		<a href="#">Excel file</a>
Geographic Crosswalks (Tolbert and Sizer 1996, Autor and Dorn 2009 & 2013)	<a href="#">Zip file</a>	
Replication Stata Code and Datasets	<a href="#">Zip file</a>	
<a href="#">Downloadable Map of Absolute Upward Mobility</a>		

Version 2.0, released January 17, 2014. For Version 1.0 (released on July 22, 2013), click [here](#). Version 2.0 reports statistics using the 1980-82 birth cohorts (rather than 1980-81) and includes new data such as mobility statistics by county and MSA, new CZ-level covariates, and marginal income distributions for parents and children.

For more information on the data, please email [info@equality-of-opportunity.org](mailto:info@equality-of-opportunity.org)

# An Opportunity and a Challenge

Metro Area	Odds of Rising from Bottom to Top Fifth
Dubuque, IA	17.9%
San Jose, CA	12.9%
Washington DC	10.5%
<i>U.S. Average</i>	7.5%
Chicago, IL	6.5%
Memphis, TN	2.6%

