

# New Data Tools for Supporting Analysis of Equitable Development and Environmental Justice

March 11, 2016

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American Planning Association  
**Planning and the  
Black Community Division**

*Making Great Communities Happen*



# 'Making a Visible Difference in Communities'



- Equitable Development Webinar Series
  - March 11, 2016
  - June 26, 2016
  - September 2016

# New Data Tools for Supporting Analysis of Equitable Development and Environmental Justice Webinar Learning Objectives



Introduce analytical tools that can give communities rich and accessible information for supporting local goals targeting environmental protection and equitable development in cities and regions:

- Track, measure, and make the case for inclusive growth.
- Understand the challenges and opportunities communities face in quantitative terms.
- Screen for areas that require additional consideration, analysis, or outreach when developing programs and policies that may affect communities.

New Data Tools for Supporting Analysis of  
Equitable Development and Environmental Justice

Presenters

- Sarah Treuhaft, Director of Equitable Growth Initiatives  
PolicyLink
- Kevin Olp, Acting Communications Director,  
Office of Environmental Justice  
U.S. Environmental Protection Agency



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# The National Equity Atlas:

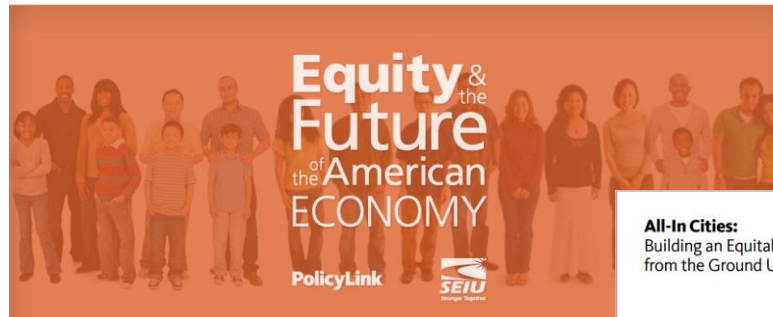
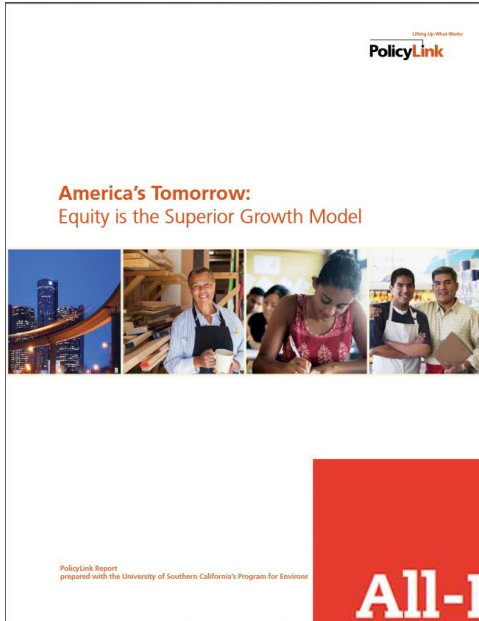
## Data to Build an Equitable Economy

EPA Office of Environmental Justice / Planning and the Black Community Division of the APA

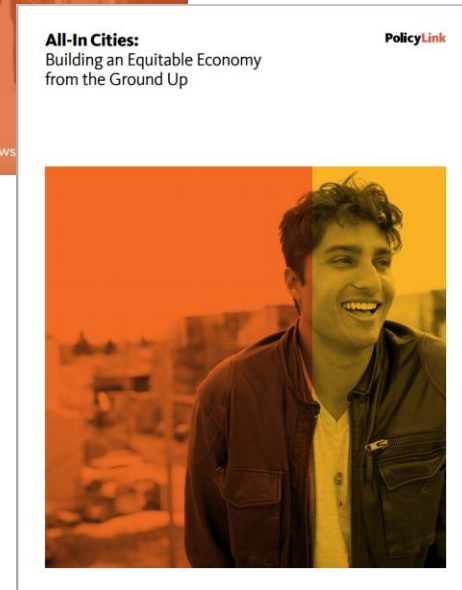
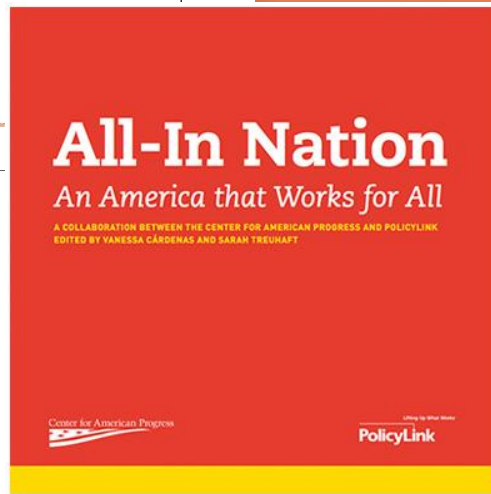
March 11, 2016



# Shifting the Narrative



11:45 pm | Knight Conference Center at the News



# The Face of America is Changing



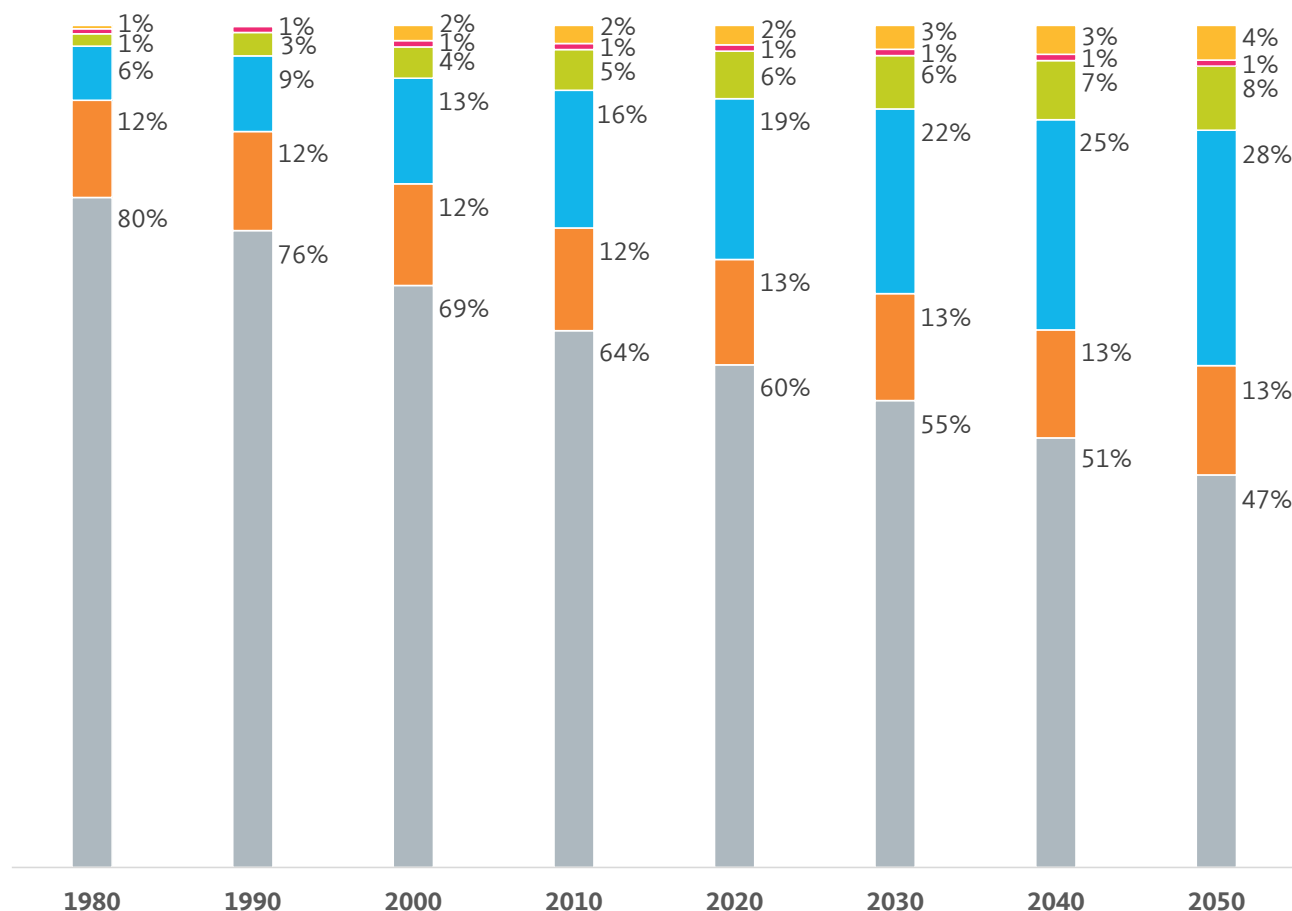
**PolicyLink**



Lifting Up What Works®

# Demographic transformation: 1980-2050

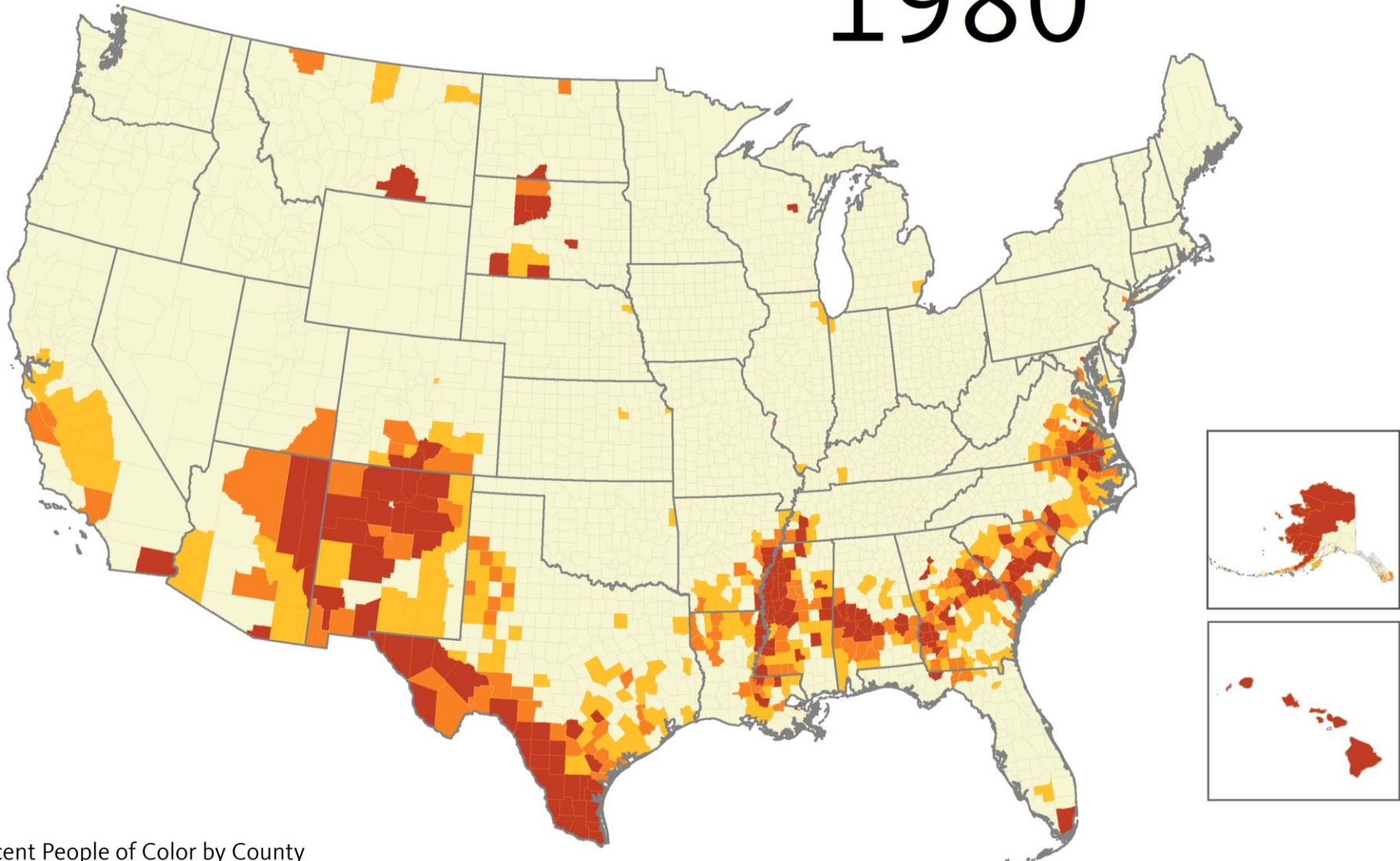
- Other
- Native American
- Asian/Pacific Islander
- Latino
- Black
- White



Source: 1980-2010 decennial censuses; U.S. Census Bureau, 2012 National Population Projections.



# 1980

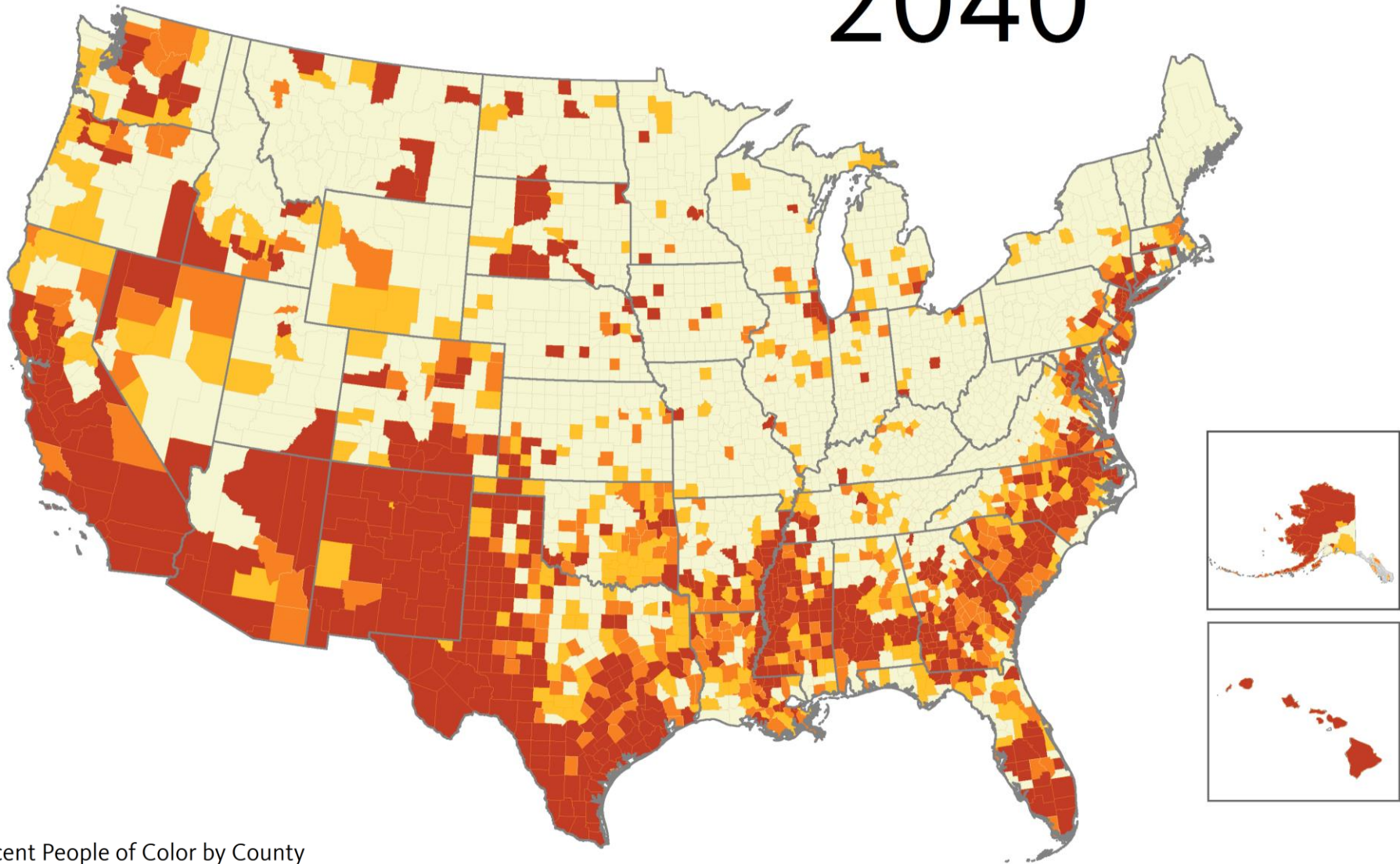


Percent People of Color by County

0 30 40 50%



# 2040

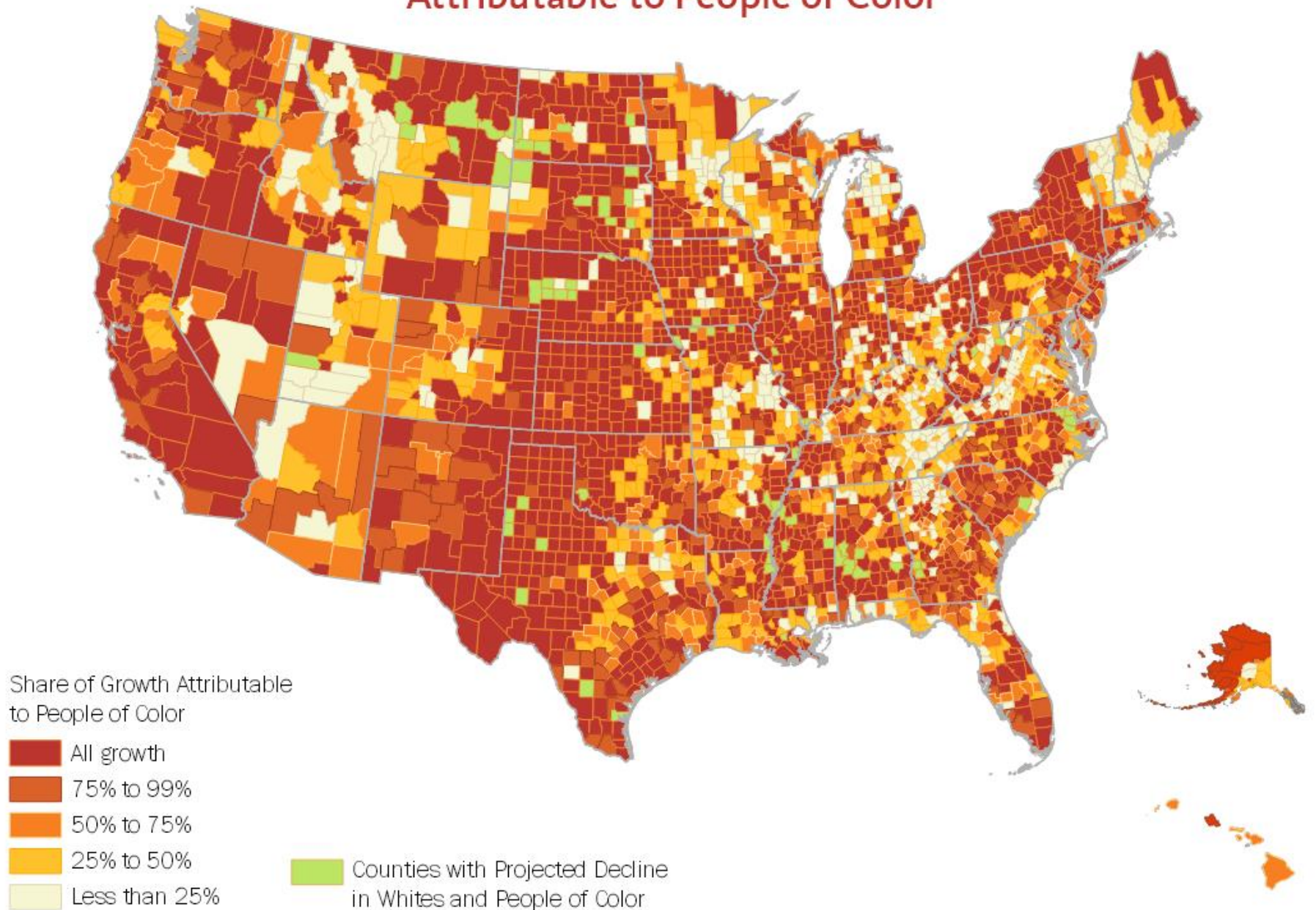


Percent People of Color by County

0 30 40 50%



# Projected Population Growth from 2010 to 2040 Attributable to People of Color



Map created by PolicyLink and the Program for Environmental and Regional Equity (PERE) using data from the 2010 Decennial Census, Woods & Poole Economics projections data (adjusted using 2010 census data), Census TIGER/Line, NHGIS, and ESRI.

# Inequity Threatens Economic Prosperity



Image source: [KCRW](#).

# New research: Inequity threatens economic growth



**“As an economist, I worry that these inequities pose a serious threat to future economic growth... As people of color become a majority of the population, the failure to end their economic exclusion means a failure of the American economy.”**

theguardian

**“IMF study finds inequality is damaging to economic growth”**

# Equity Is the Superior Growth Model



**PolicyLink**

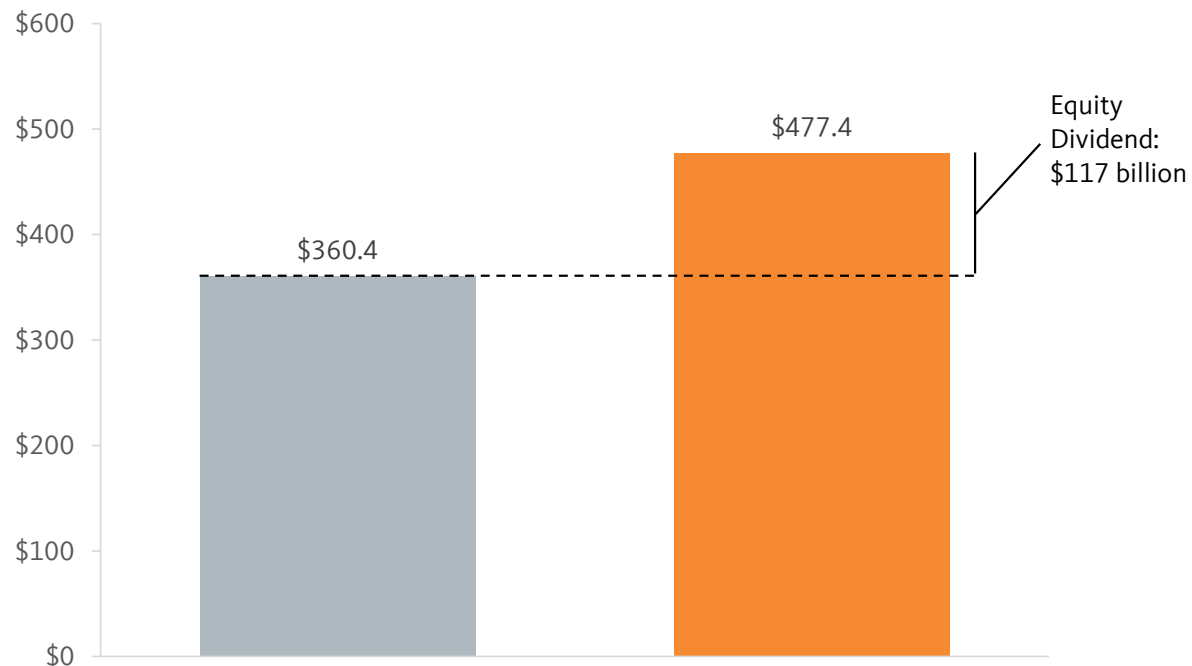


Lifting Up What Works®

# Racial inequities hinder economic prosperity

## San Francisco Bay Area: Actual GDP and Estimated GDP without Racial Gaps in Income, 2012

- GDP in 2012 (billions)
- GDP if racial gaps in income were eliminated (billions)



Sources: Bureau of Economic Analysis, Bureau of Labor Statistics, and IPUMS.

# Tailoring the Frame to Regional Realities



Image source: [ACLD](#)

**PolicyLink**



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# What is an equitable region?

Regions are equitable when all residents – regardless of their race/ethnicity and nativity, gender, family income, or neighborhood of residence – are fully able to participate in the region’s economic vitality, contribute to the region’s readiness for the future, and connect to the region’s assets and resources.

# Indicators framework

## Demographics

- Who lives in the region and how is this changing?

## Economic Vitality

- Can all residents participate in and contribute to economic vitality?

## Readiness

- Is the workforce prepared for the 21st century economy?

## Connectedness

- Are residents connected to each other and the region's assets and opportunities?

# Equity profiles: Informing community dialogue & action

- 1) Minnesota
- 2) Rhode Island
- 3) Bay Area
- 4) Houston
- 5) Piedmont Triad, NC
- 6) Research Triangle, NC
- 7) Cape Fear, NC
- 8) Southeast Florida
- 9) Omaha
- 10) Kansas City
- 11) Fairfax County
- 12) Detroit



# National Equity Atlas



Welcome to the National Equity Atlas, a comprehensive data resource to track, measure, and make the case for inclusive growth.

New Indicator: [School Poverty](#) > Nationwide, half of Black and Latino students attend high-poverty schools, compared with one in ten White students. Access the data for your community.



By 2044, the majority of Americans will be people of color. Rising diversity is a tremendous asset—if all can access the resources and opportunities they need to thrive.

Explore the Atlas to get data on changing demographics, racial inclusion, and the economic benefits of equity—in your city, region, state, and nationwide. Begin with the [U.S. Summary](#) to explore indicators like the map below.

People of color by county and region: United States, 2040

- 0% - 20%
- 20% - 40%
- 40% - 59%
- >59%

# National Equity Atlas



## Indicators

Select an indicator from the menus below:

Enter a state, region, or city name:

- Demographics ▾
- Equity ▾
- Economic Benefits ▾

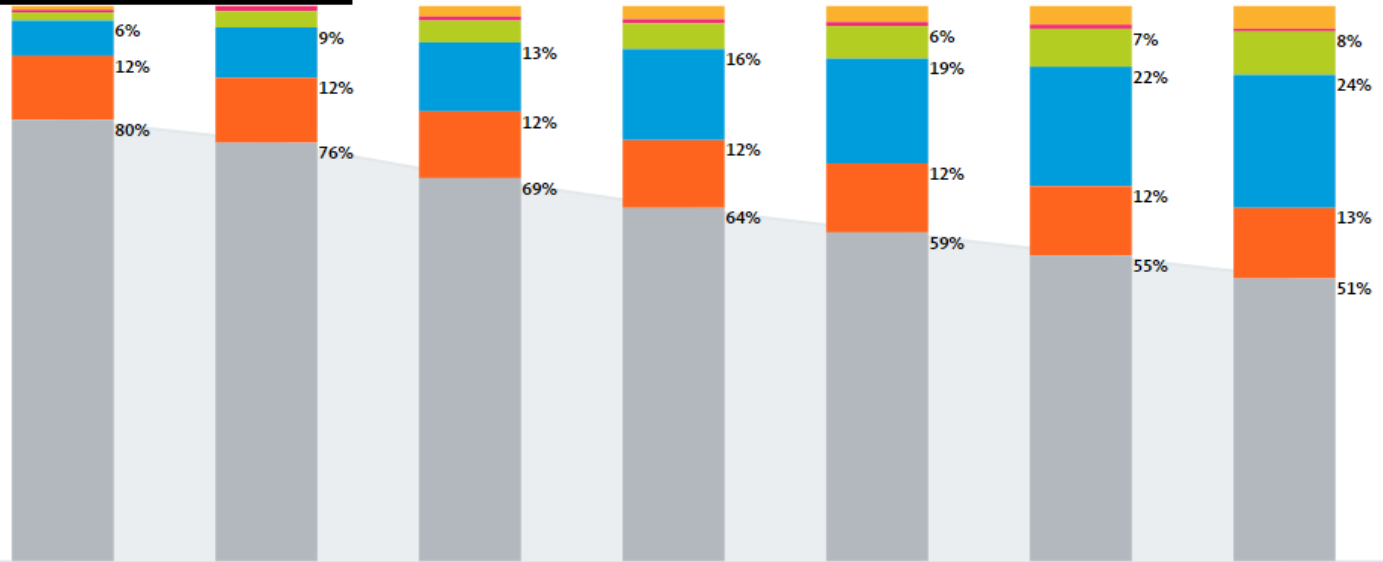
United States

Explore

- People of color
- Race/ethnicity
- Population growth rates
- Contribution to growth: Immigrants
- Contribution to growth: People of color
- Racial generation gap
- Race/ethnicity/nativity
- Diversity index
- Median age

### United States

United States, 1980-2040



Data to Build an Equitable Economy

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# National Equity Atlas



About the Atlas Data Summaries Indicators Reports Data in Action Search

## Indicators

Select an indicator from the menus below:

Enter a state, region, or city name:

- Demographics
- Equity**
- Economic Benefits

United States Explore

### Race/ethnicity

Breakdown:  
Racial/ethnic composition

- White
- Black
- Latino
- Asian
- Native American
- Mixed/other
- U.S. percent white

### Economic Vitality

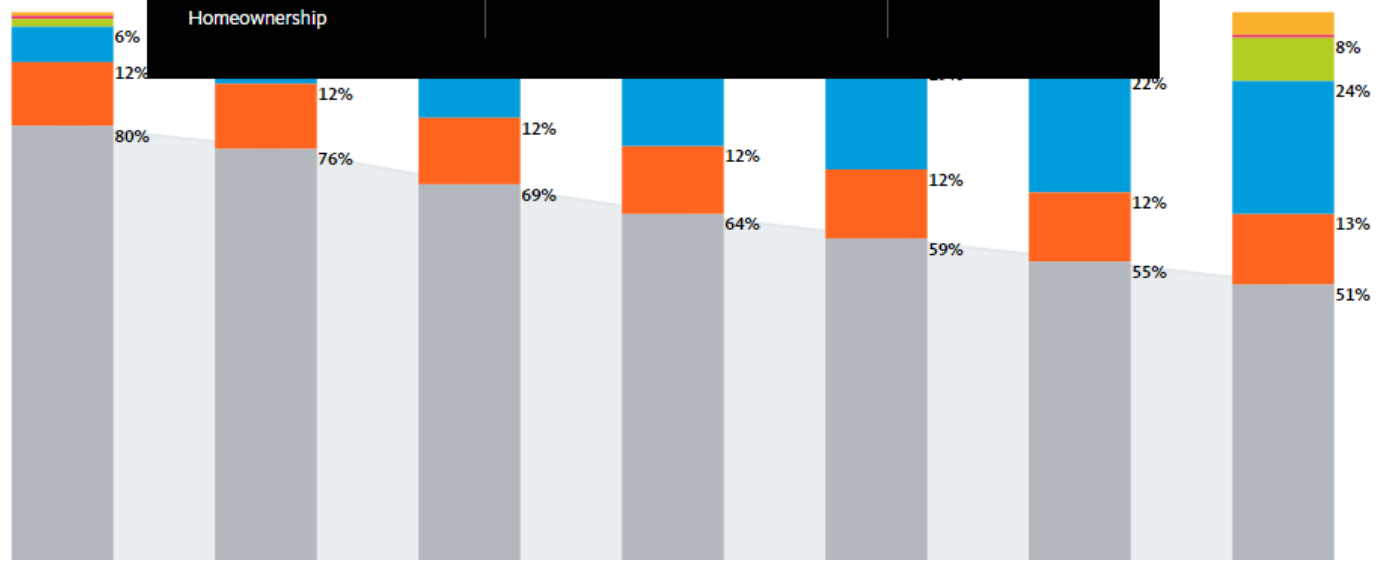
- Unemployment
- Wages: Median
- Wages: \$15/hr
- Income growth
- Job and wage growth
- Job and GDP growth
- Income inequality: Gini
- Income inequality: 95/20 ratio
- Homeownership

### Readiness

- Air pollution: Exposure index
- Air pollution: Unequal burden
- School poverty
- Education levels and job requirements
- Disconnected youth
- Overweight and obese
- Asthma
- Diabetes

### Connectedness

- Neighborhood poverty
- Housing burden
- Car access
- Commute time



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Demographics Equity Economic Benefits

United States

Explore

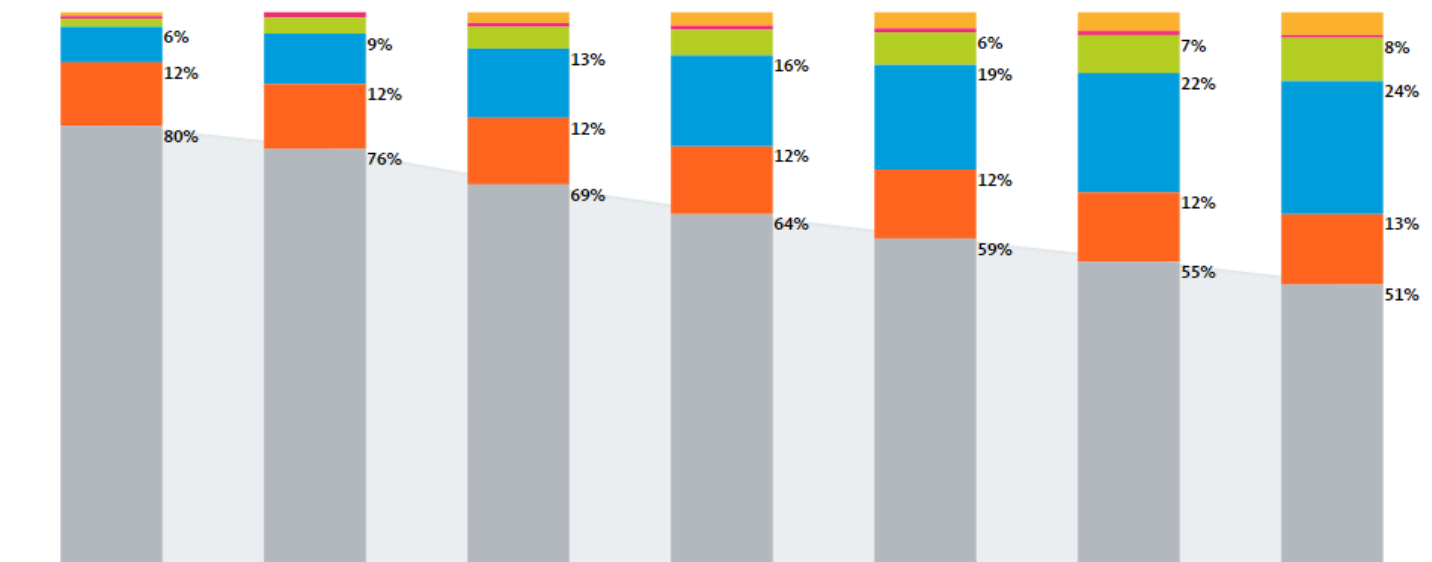
### Race/ethnicity

Breakdown:

Racial/ethnic composition: U

GDP gains with racial equity  
Income gains with racial equity

- White
- Black
- Latino
- Asian
- Native American
- Mixed/other
- U.S. percent white



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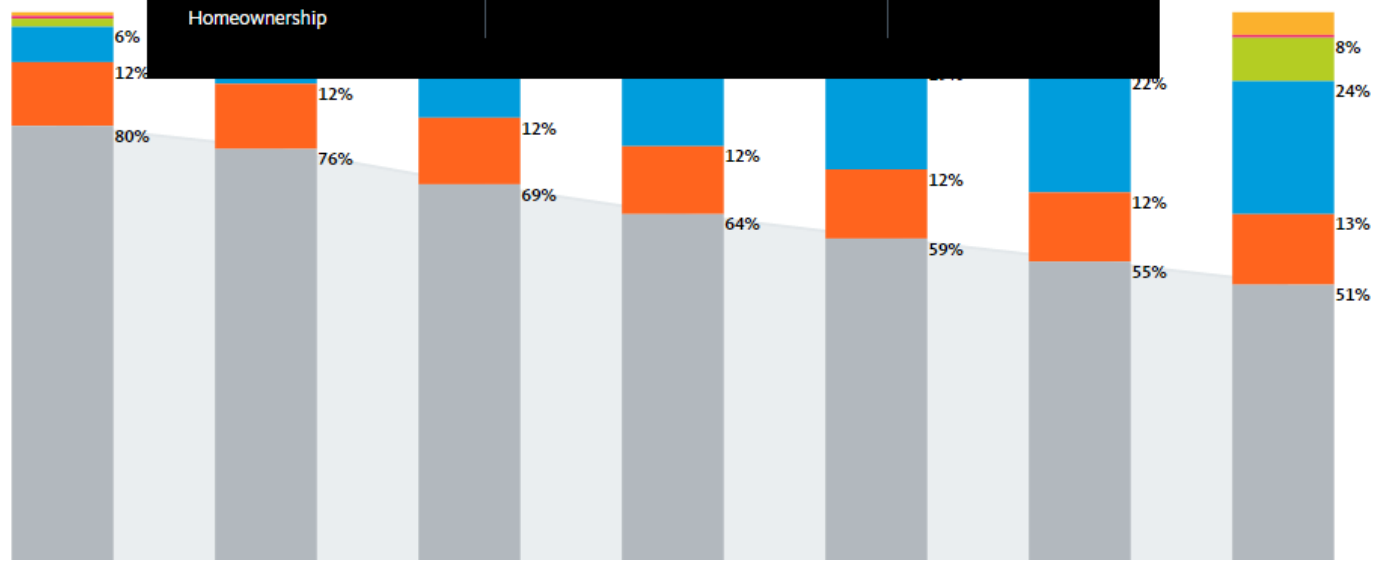
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# National Equity Atlas



## Indicators

Select an indicator from the menus below:

Enter a state, region, or city name:

Demographics

Equity

Economic Benefits

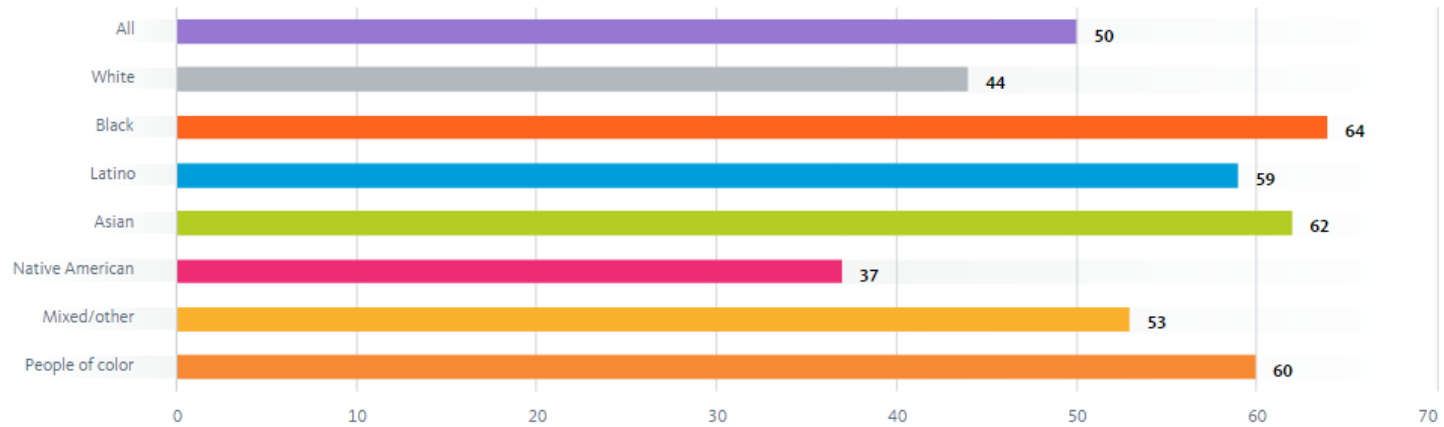
United States

Explore

### Air pollution: Exposure index United States

Breakdown:

Air pollution exposure index, by race/ethnicity: United States, 2014



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity By source By poverty status Ranking

Risk type: Cancer and non-cancer Cancer only Non-cancer only

Compare: Enter a city, region, or state

Download: Graphic (jpeg)

Share: [Social media icons]

### Can all residents access clean air?

In 2014, the air pollution exposure index scores ranged from **89** in Tallahassee, FL Metro Area to **12** in Corpus Christi, TX Metro Area.



### Why it matters

Healthy neighborhoods are free of pollution and toxins that undermine the safety, health, and well-being of their residents. Neighborhoods with high concentrations of low-income families and people of color are more likely to be exposed to environmental hazards, putting them at higher risk for chronic diseases and premature death.



### Grow an equitable economy: Policies to promote healthy environments for all

- Ensure [development processes and land use planning](#) produce healthy neighborhood environments
- Require [health impact assessments](#) of new developments for potential threats to air quality
- Prioritize [green affordable housing near transit](#) and institute safeguards to prevent displacement
- Reduce [hazardous chemicals, pesticides and emissions](#) from industrial plants, automobiles, and diesel engines
- Increase [community voice and leadership](#) in planning and policymaking
- Grant local government the [authority and capacity](#) to take legal action and enforce [indoor air quality standards](#) and laws



#### Comprehensive Review Processes Can Protect Vulnerable Communities

In 2012, the Allegheny County Board of Health (PA) approved new air toxics guidelines and evaluation criteria. Under the old rule, county regulators could only consider the environmental impact of the development under review for permitting. The new process allows the health department's air quality program to examine the cumulative impact of nearby pollution sources when evaluating an application for a new source of toxic air emissions, focusing on the combined environmental burden for nearby communities. [Read more.](#)

### Learn more about these strategies:

- [Pollution is segregated, too](#)
- [Advancing Environmental Justice](#)
- [Enviro-Health Links](#)

### Additional data resources:

- [Open Opportunity Data](#)
- [EJSCREEN: Environmental Justice Screening and Mapping Tool](#)
- [Air Quality Index](#)
- [EnviroAtlas](#)

# National Equity Atlas



## Indicators

Select an indicator from the menus below:

Enter a state, region, or city name:

Demographics

Equity

Economic Benefits

Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

Explore

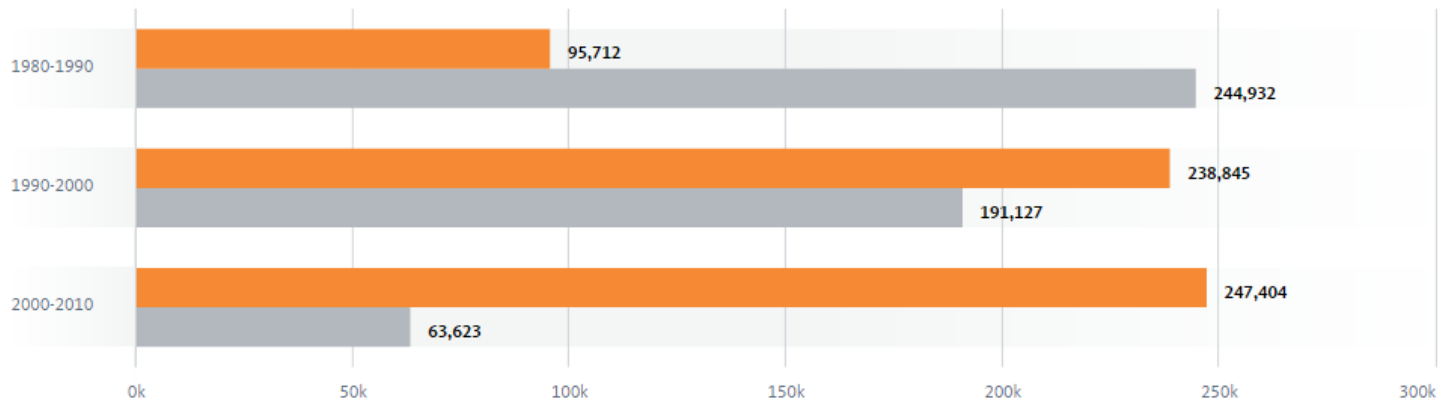
### Contribution to growth: People of color

#### Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

Breakdown:

Change in population by race: Minneapolis-St. Paul-Bloomington, MN-WI Metro Area, 1980-2010

People of color  
White



U.S. Census Bureau; Woods & Poole Economics, Inc.

Breakdown: By race/ethnicity By county

Time Period: 1980-2010 2010-2040

Download: Graphic (jpeg)

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# National Equity Atlas



## Indicators

Select an indicator from the menus below:

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Demographics

Equity

Economic Benefits

Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

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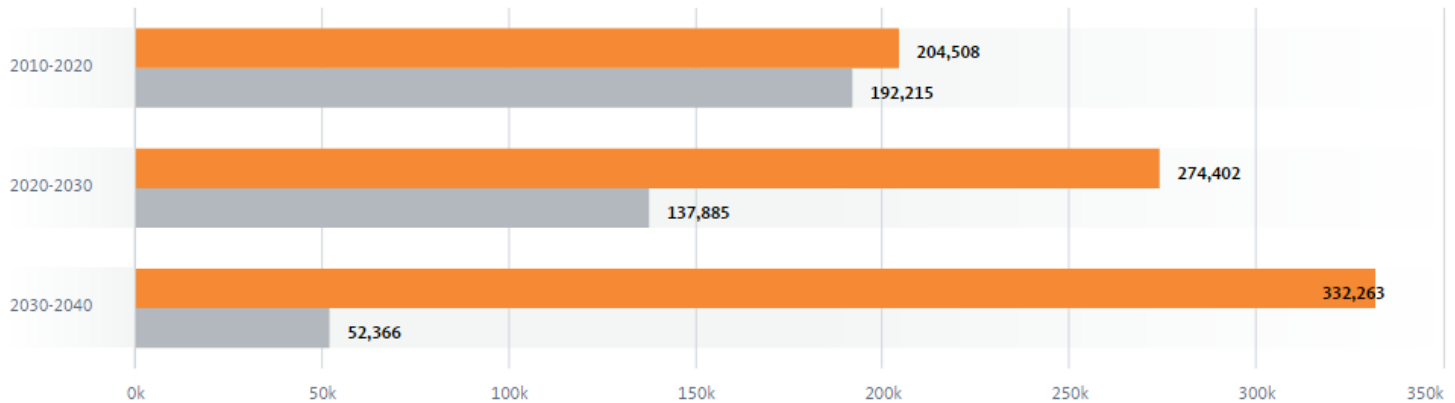
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People of color  
White



U.S. Census Bureau; Woods & Poole Economics, Inc.

Breakdown: By race/ethnicity By county

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Download: Graphic (jpeg)

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# National Equity Atlas



About the Atlas Data Summaries Indicators Reports Data in Action

Search

## Indicators

Select an indicator from the menus below:

Enter a state, region, or city name:

Demographics Equity Economic Benefits

Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

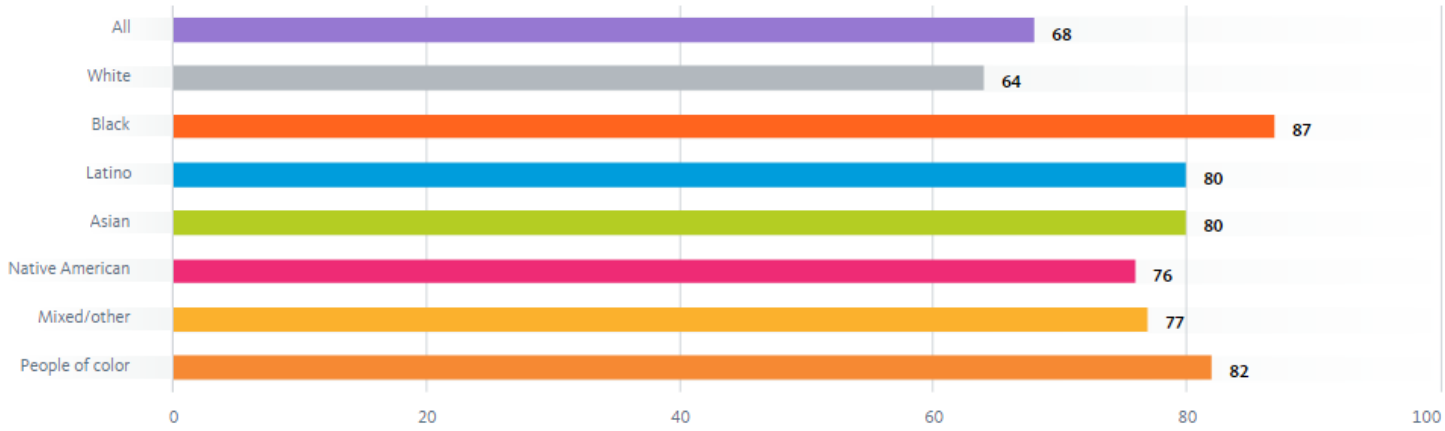
Explore

### Air pollution: Exposure index

#### Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

Breakdown:

Air pollution exposure index, by race/ethnicity: Minneapolis-St. Paul-Bloomington, MN-WI Metro Area, 2014



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity By source By poverty status Ranking

Risk type: Cancer and non-cancer Cancer only Non-cancer only

Compare: Enter a city, region, or state

Download: Graphic (jpeg)

Share: Facebook, Twitter, Email icons

## Indicators

Select an indicator from the menus below:

Demographics ▾

Equity ▾

Economic Benefits ▾

Enter a state, region, or city name:

Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

Explore

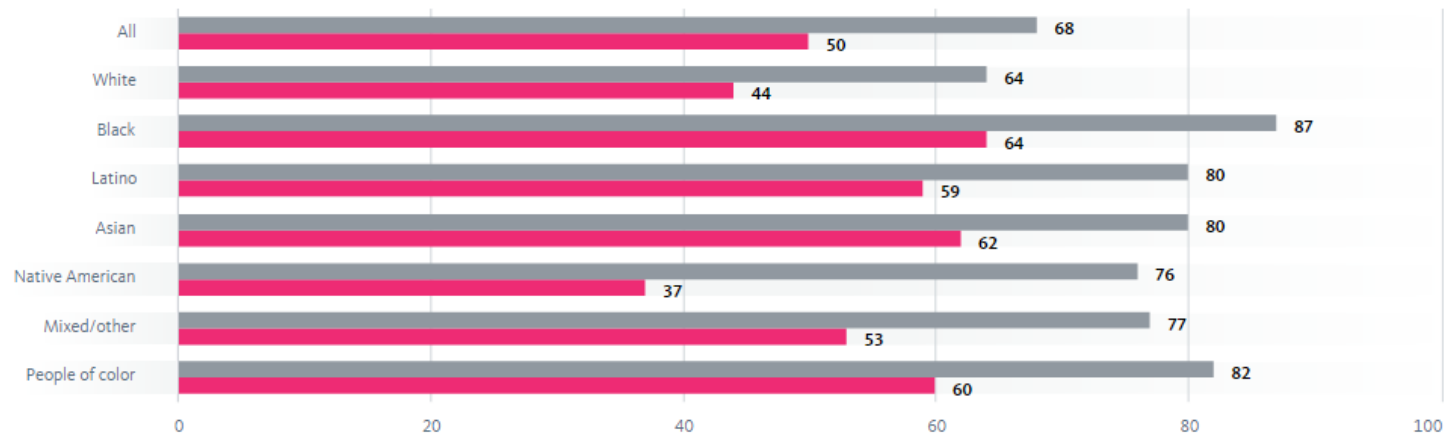
Air pollution: Exposure index [?](#)

## Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

Breakdown:

Air pollution exposure index, by race/ethnicity: Minneapolis-St. Paul-Bloomington, MN-WI Metro Area, 2014

■ Minneapolis-St. Paul-Bloomington, MN-WI Metro Area  
■ United States



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown:

By race/ethnicity

By source

By poverty status

Ranking

Risk type:

Cancer and non-cancer

Cancer only

Non-cancer only

Compare:

Enter a city, region, or state



✕ United States

Download:

Graphic (jpeg)

Share:



## Indicators

Select an indicator from the menus below:

Demographics ▾

Equity ▾

Economic Benefits ▾

Enter a state, region, or city name:

Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

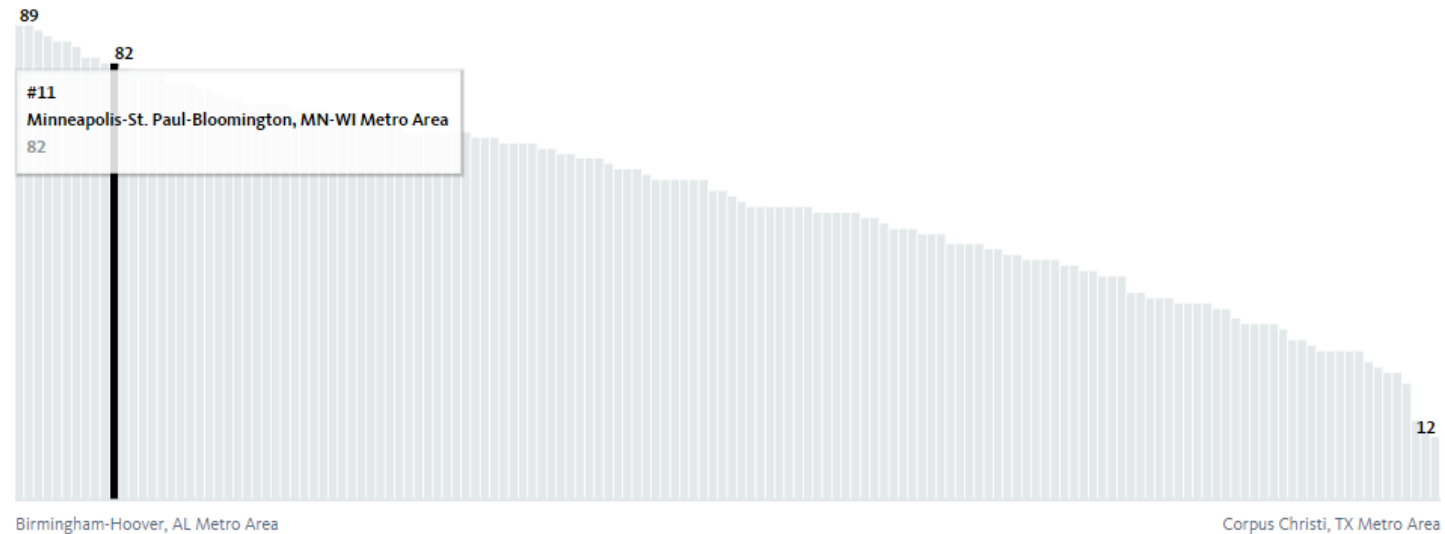
Explore

### Air pollution: Exposure index [?](#)

#### Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

Breakdown:

Air pollution exposure index, ranked: Minneapolis-St. Paul-Bloomington, MN-WI Metro Area



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown:

By race/ethnicity

By source

By poverty status

Ranking

Geography:

State

Region

City

Race/ethnicity:

All

White

People of color

Compare:

Enter a city, region, or state



Nearby Areas

## Indicators

Select an indicator from the menus below:

Demographics

Equity

Economic Benefits

Enter a state, region, or city name:

Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

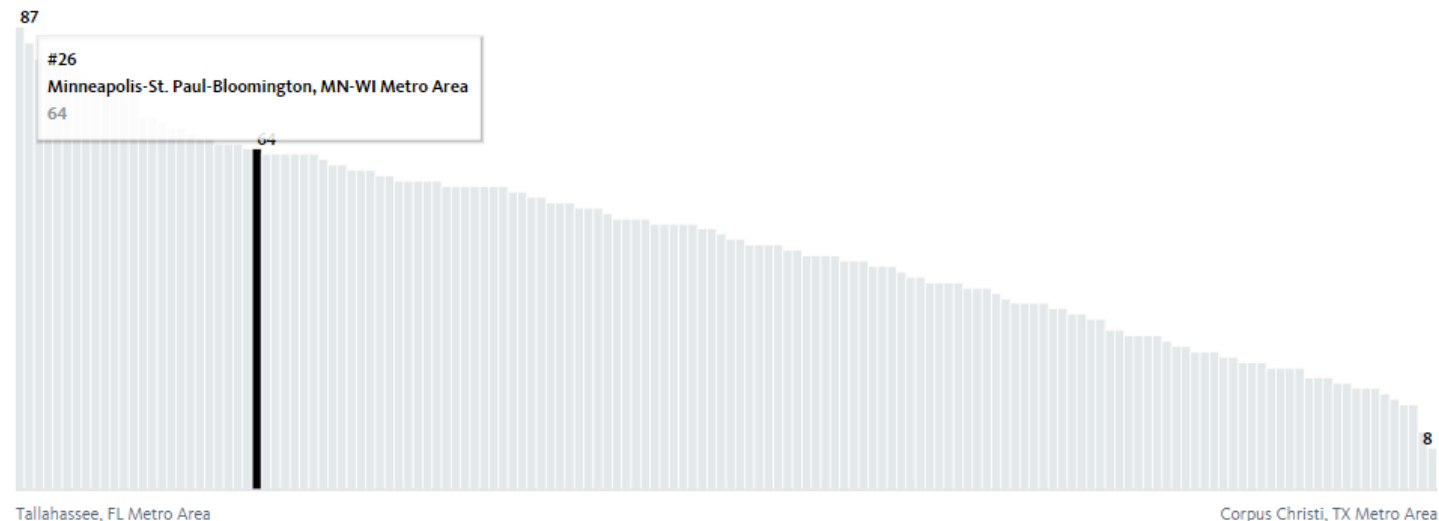
Explore

### Air pollution: Exposure index

#### Minneapolis-St. Paul-Bloomington, MN-WI Metro Area

Breakdown:

Air pollution exposure index, ranked: Minneapolis-St. Paul-Bloomington, MN-WI Metro Area



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity | By source | By poverty status | **Ranking**

Geography: State | **Region** | City

Race/ethnicity: All | **White** | People of color

Compare: Enter a city, region, or state → Nearby Areas



# National Equity Atlas



## Indicators

Select an indicator from the menus below:

Enter a state, region, or city name:

Demographics ▾

Equity ▾

Economic Benefits ▾

Seattle-Tacoma-Bellevue, WA Metro Area

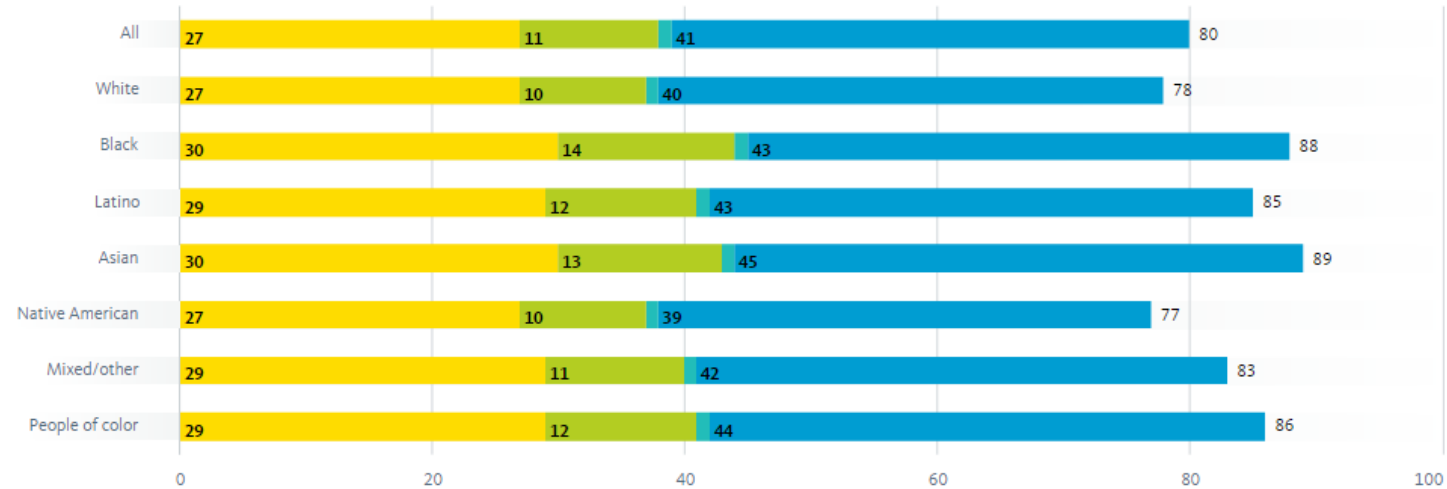
Explore

### Air pollution: Exposure index 📍 Seattle-Tacoma-Bellevue, WA Metro Area

Breakdown:

Air pollution exposure index, by source: Seattle-Tacoma-Bellevue, WA Metro Area, 2014

- On-road mobile
- Off-road mobile
- Major stationary
- Area and other



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity **By source** By poverty status Ranking

Risk type: Cancer and non-cancer Cancer only Non-cancer only

Download: Graphic (jpeg)

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# National Equity Atlas



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Enter a state, region, or city name:

Demographics

Equity

Economic Benefits

Seattle-Tacoma-Bellevue, WA Metro Area

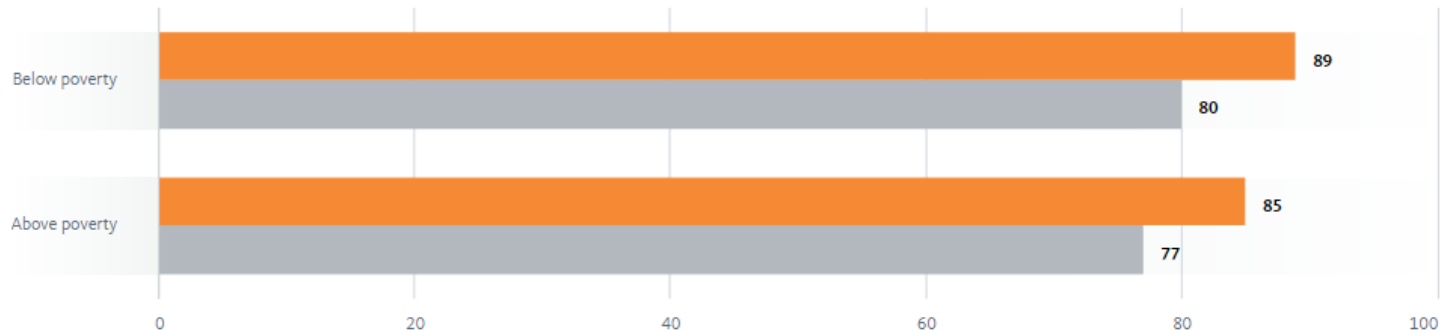
Explore

### Air pollution: Exposure index Seattle-Tacoma-Bellevue, WA Metro Area

Breakdown:

Air pollution exposure index, by poverty status: Seattle-Tacoma-Bellevue, WA Metro Area, 2014

People of color  
White



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity By source **By poverty status** Ranking

Risk type: Cancer and non-cancer Cancer only Non-cancer only

Download: Graphic (jpeg)

Share: f t e

#### Can all residents access clean air?

Seattle-Tacoma-Bellevue, WA Metro Area: In 2014, for

#### Why it matters

Healthy neighborhoods are free of pollution and toxins that

# National Equity Atlas



## Indicators

Select an indicator from the menus below:

Enter a state, region, or city name:

- Demographics ▾
- Equity ▾
- Economic Benefits ▾

Reading, PA Metro Area

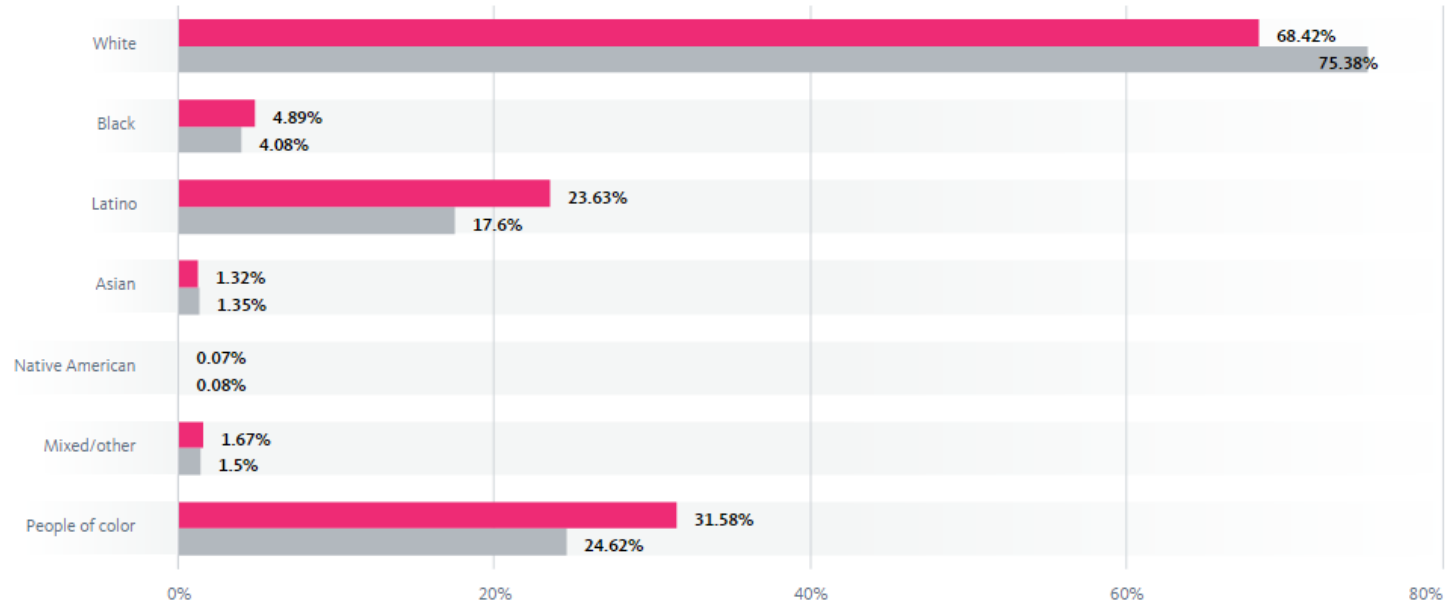
Explore

### Air pollution: Unequal burden • Reading, PA Metro Area

Breakdown:

Share of population and pollution burden, by race/ethnicity: Reading, PA Metro Area, 2014

- Share of pollution burden
- Share of population



## Indicators

Select an indicator from the menus below:

Demographics ▾

Equity ▾

Economic Benefits ▾

Enter a state, region, or city name:

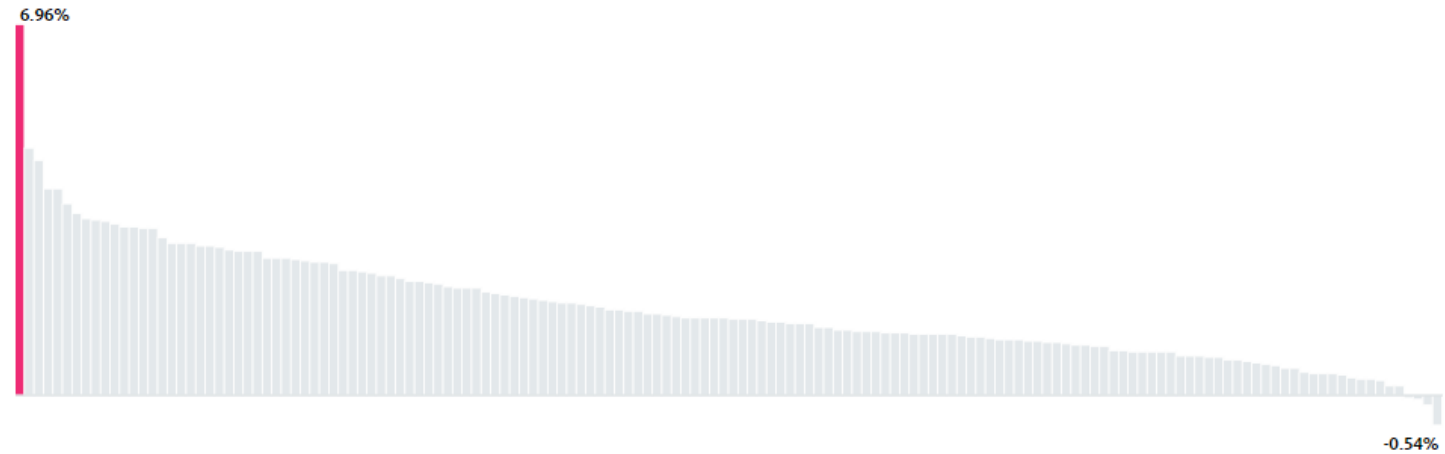
Reading, PA Metro Area

Explore

### Air pollution: Unequal burden ▶ Reading, PA Metro Area

Breakdown:

Unequal burden index, ranked: Reading, PA Metro Area



Reading, PA Metro Area

Visalia-Porterville, CA Metro Area

U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity | By poverty | **Ranking**

Geography: State | **Region** | City

Risk type: **Cancer only** | Non-cancer only

Race/ethnicity: **People of color** | Black | Latino | Asian | Native American | Mixed/other | White

Compare: Enter a city, region, or state

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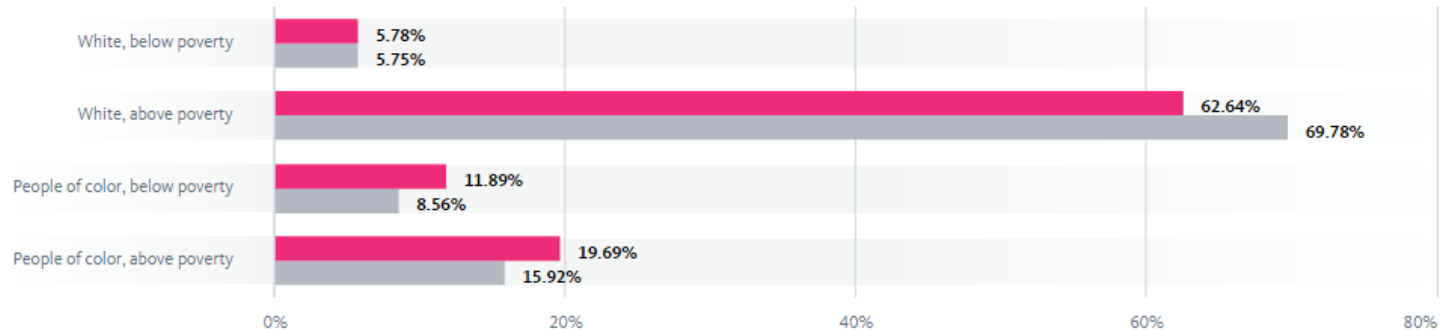
Explore

### Air pollution: Unequal burden Reading, PA Metro Area

Breakdown:

Share of population and pollution burden, by poverty status: Reading, PA Metro Area, 2014

Share of pollution burden  
Share of population



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity **By poverty** Ranking

Risk type: Cancer only Non-cancer only

Source type: All sources On-road mobile Off-road mobile Major stationary Area and other

Download: Graphic (jpeg)

Share: [Facebook] [Twitter] [Email]

Can all residents access clean air?

Why it matters

## Indicators

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Equity ▾

Economic Benefits ▾

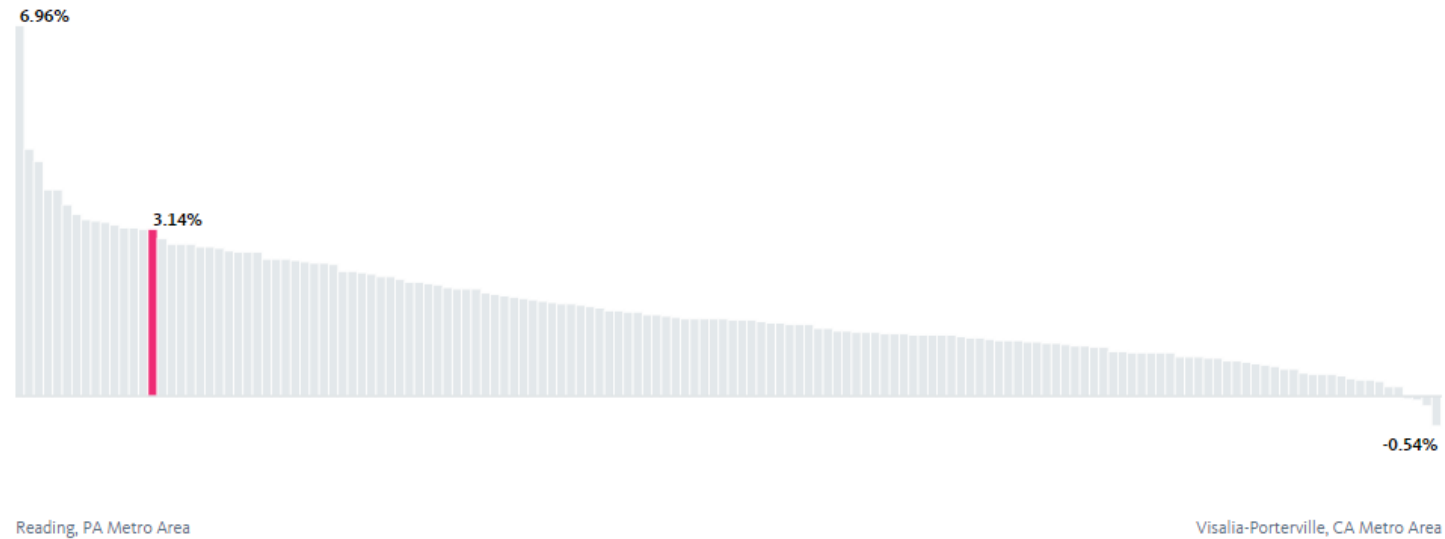
Birmingham-Hoover, AL Metro Area

Explore

### Air pollution: Unequal burden [↗](#) Birmingham-Hoover, AL Metro Area

Breakdown:

Unequal burden index, ranked: Birmingham-Hover, AL Metro Area



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity | By poverty | **Ranking**

Geography: State | **Region** | City

Risk type: **Cancer only** | Non-cancer only

Race/ethnicity: **People of color** | Black | Latino | Asian | Native American | Mixed/other | White

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Equity ▾

Economic Benefits ▾

Enter a state, region, or city name:

Birmingham-Hoover, AL Metro Area

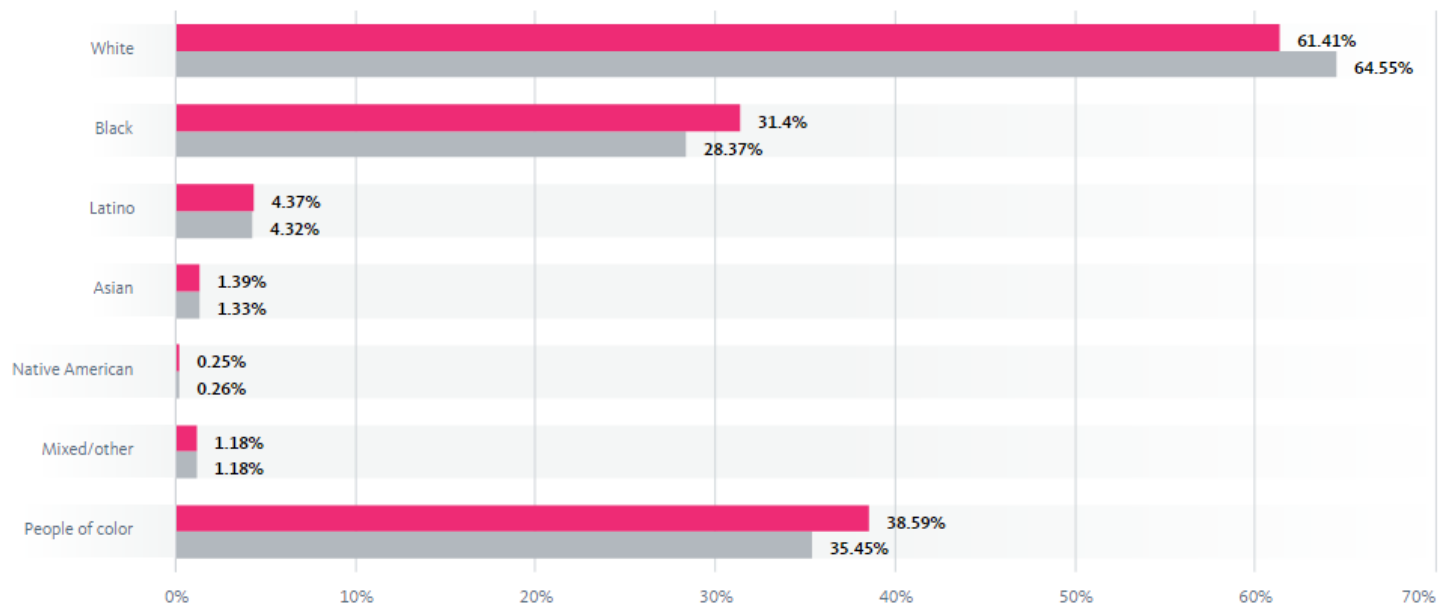
Explore

Air pollution: Unequal burden [↗](#) Birmingham-Hoover, AL Metro Area

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Share of population and pollution burden, by race/ethnicity: Birmingham-Hoover, AL Metro Area, 2014

■ Share of pollution burden  
■ Share of population



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown:

By race/ethnicity

By poverty

Ranking

Risk type:

Cancer only

Non-cancer only

Source type:

All sources

On-road mobile

Off-road mobile

Major stationary

Area and other

# National Equity Atlas



## Indicators

Select an indicator from the menus below:

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- Equity ▾
- Economic Benefits ▾

Birmingham-Hoover, AL Metro Area

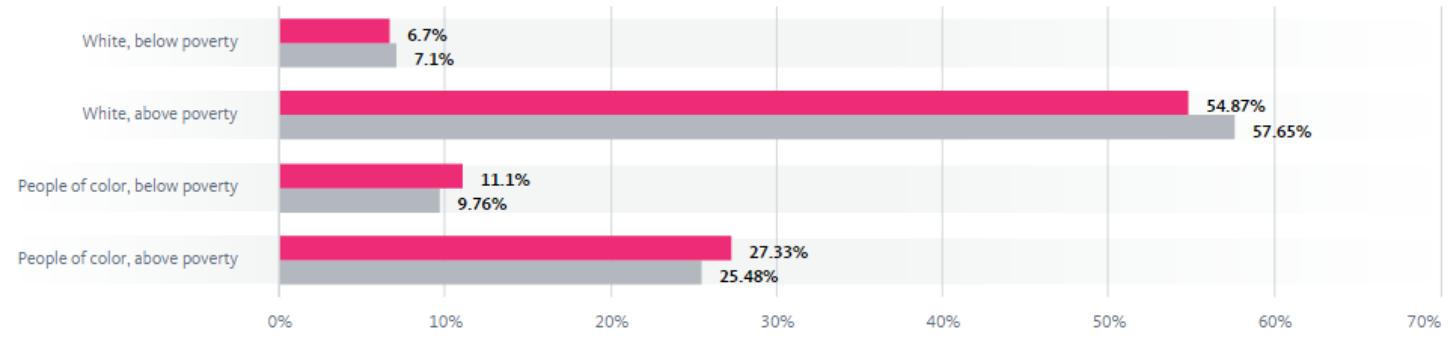
Explore

### Air pollution: Unequal burden • Birmingham-Hoover, AL Metro Area

Breakdown:

Share of population and pollution burden, by poverty status: Birmingham-Hoover, AL Metro Area, 2014

- Share of pollution burden
- Share of population



U.S. Environmental Protection Agency (National Air Toxics Assessment); U.S. Census Bureau

Breakdown: By race/ethnicity **By poverty** Ranking

Risk type: Cancer only Non-cancer only

Source type: All sources On-road mobile Off-road mobile Major stationary Area and other

Download: Graphic (jpeg) Share: [Social Media Icons]

Can all residents access clean air?

Why it matters



# Using the Frame & Data to Advance Equitable Development

Supporting advocacy:

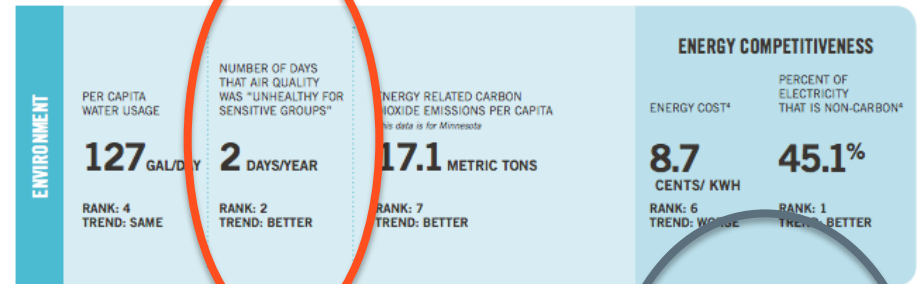
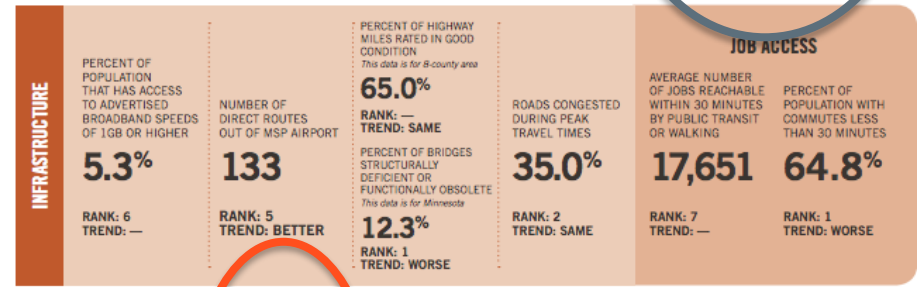
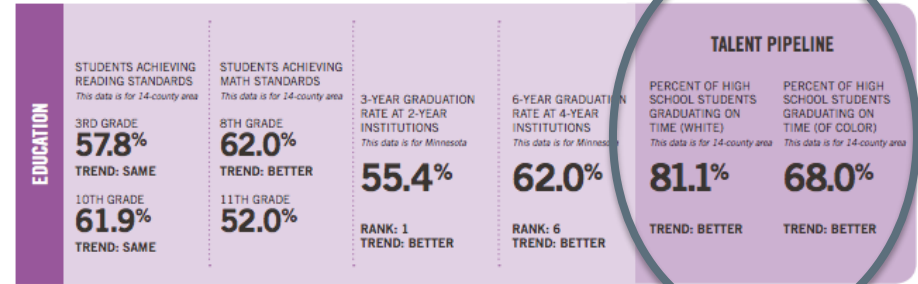
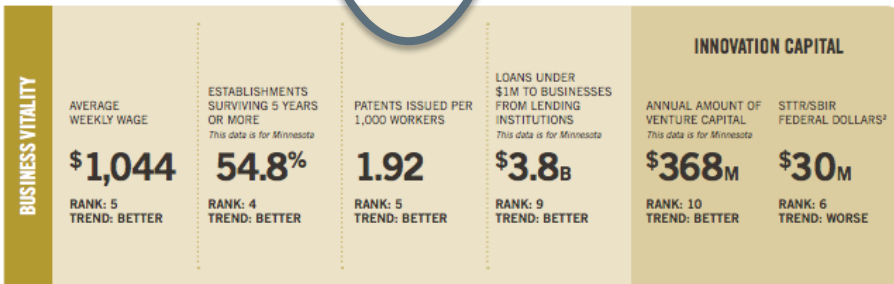
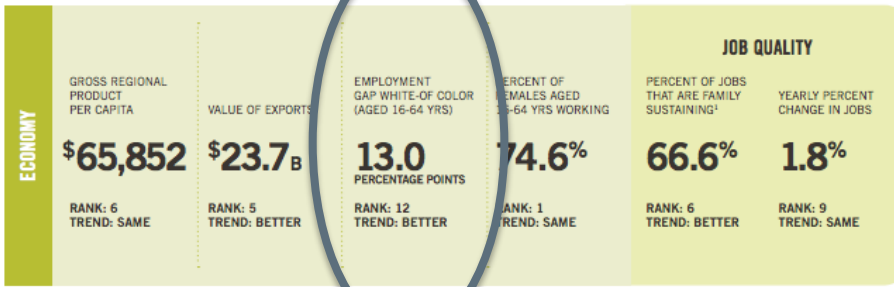
## California Boys and Men of Color Alliance



# Monitoring change: Greater MSP Regional Indicators Dashboard

**THIS REGIONAL INDICATORS DASHBOARD** is a set of shared metrics that will track the region's change on critical economic, environmental, and social outcomes. Measuring change in the areas that matter most for continued long-term success will help improve our region's economic competitiveness.

**Rank: 1=Best, 12=Worst** All data reflects the 16-county region unless otherwise indicated. Trend data reflects change between most current data available and the last prior data available. This dashboard is the first set of annual measures. The dashboard will evolve in future years as metrics are refined and analyzed.



1. Annual wage > \$31,000, or 130% of poverty for a household of 4, as per USDA's requirements for SNAP benefits. 2. Small Business Technology Transfer (STTR) The Small Business Innovation Research (SBIR).

3. As defined by Brookings, industries are advanced if a greater share of their workforce is STEM oriented than the U.S. average (21 percent) and their R&D spending is at least \$450 per worker. 4. This data is for each metro's largest electric utility. 5. HUD model based on median household income.

# Powering data-driven journalism

Money doesn't matter: White people breathe cleaner air

By Aura Bogado on 11 Mar 2016 7:00 am 0 comments

Share Tweet

Not everybody gets to breathe clean air. So how do we decide who winds up wheezing through the smog and who winds up inhaling fresh air? Too often it depends on your skin color.

For the most part, even when controlling for poverty, race is a far better indicator when it comes to determining who lives under a cloud of pollution in the United States. Thanks to a new, [interactive air pollution index](#) created by the National Equity Atlas, you can have a closer look at what that means, state to state and city to city.

Here's how it works: The average person in the U.S. lives in a place that ranks in

The Atlantic

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The Concentration of Poverty in American Schools

An exclusive analysis uncovers that students of color in the largest 100 cities in the United States are much more likely to attend schools where most of their peers are poor or low-income.

JANIE BOSCHMA AND RONALD BROWNSTEIN FEB 29, 2016

NEXT AMERICA: COMMUNITIES

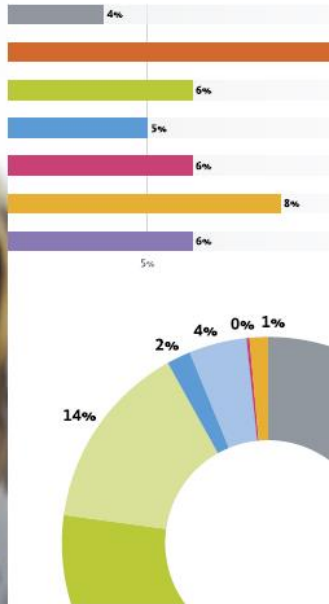
In almost all major American cities, most African American and Hispanic

Visit the National Equity Atlas at  
[www.nationalequityatlas.org](http://www.nationalequityatlas.org)

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Data to Build  
an Equitable  
Economy



New Data Tools for Supporting Analysis of  
Equitable Development and Environmental Justice

# Questions and Answers

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*Making Great Communities Happen*

