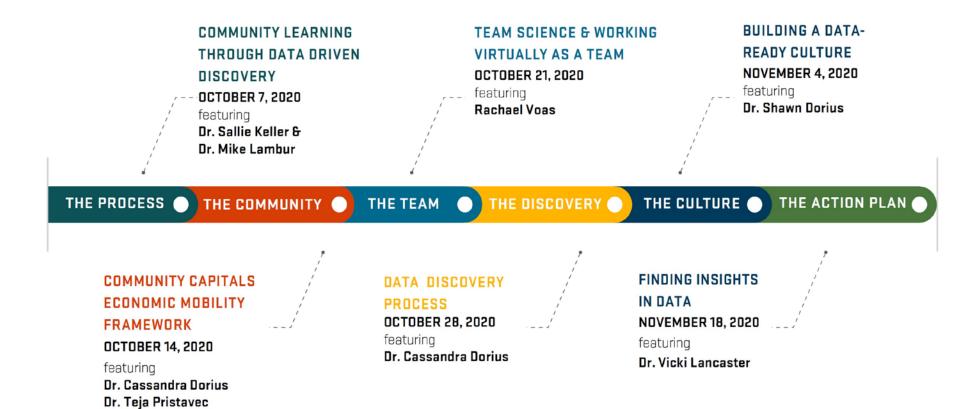


### COMMUNITY CATALYST WEBINAR SERIES OVERVIEW









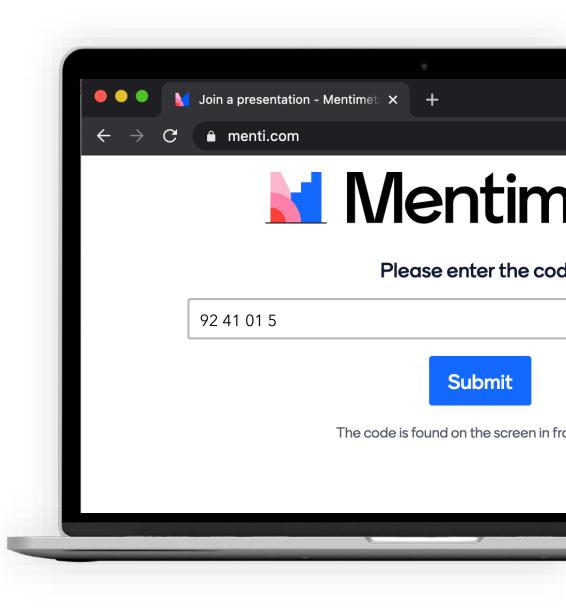


MADE POSSIBLE BY:



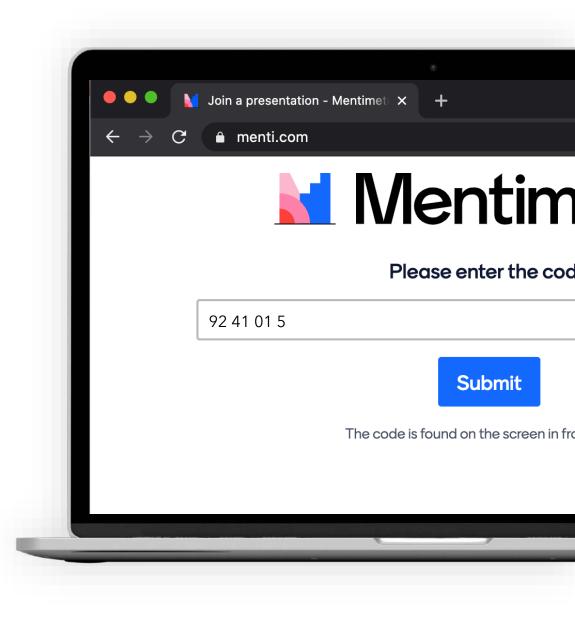
# WHAT IS LIFE LIKE IN RURAL AMERICA?

GO TO WWW.MENTI.COM ENTER CODE 92 41 01 5



# WHAT IS LIFE LIKE IN URBAN AMERICA?

GO TO WWW.MENTI.COM ENTER CODE 92 41 01 5





# TODAY WE WILL EXPLORE HOW TO BUILD A DATA READY CULTURE:

- 1. WHAT IS A DATA READY CULTURE?
- 2. WHAT IS PLACE BIAS? WHERE DOES IT COME FROM? AND WHY SHOULD IT MATTER TO YOU?
- 3. HOW CAN EXTENSION PROMOTE A MORE EQUITABLE DATA READY CULTURE?
  - HOW CAN YOU DETECT BIAS?
  - HOW CAN YOU CORRECT BIAS?

- Data are powerful, both for good and for bad
- Communities can use their own data to chart their own, unique path (CLD3)
- Place-based bias limits opportunities for many rural communities
- We need new and better ways to measure and talk about rural places to reduce place bias



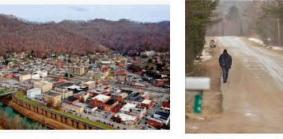






- When we search for information using a web browser (e.g. Google or Firefox),
   the results are determined by algorithms
- Algorithms are bits of code...a program...designed to help us find what we're looking for. They are based on:
  - Prior search history
  - Search histories of people like us
- Search results reveal hidden biases, assumptions, and unchecked stereotypes about people and places

# When people search for information about rural & urban places this is what they see



ming to Rural America ...







pressherald.com



Lower Life Expectancy in Rural America healthline.com



What rural America needs to succeed in ...



brookings.edu



Rural America Is To Invest ...



Health Reform Meant For Rural America ...



Unlocking the potential of rural America blog.aboutamazon.com



The Business Model 7 To Invigorate Rural ..



Rural America Faces A Crisis I





leading causes in rural America





Cancer in Rural America: Fewer Cases ...



H.I.V. Is Coming to Rural America ...



7 ways life improved in rural Am.. businessinsider.com



A Housing Agenda for Rural America upforgrowth.org

# What is life like in Google's <u>rural America</u>?

## What is life like in Google's urban America?



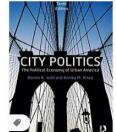
Urban Poverty in America Must Remain ...



Pruitt-Igoe: the troubled high-rise ...



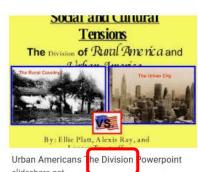
HD wallpaper: Times Square New York ... wallpaperflare.com



amazon.com

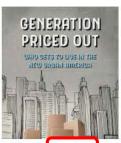








Drosscape-Wasting L



Generation Priced Out



The Rural and Urban Divides

Radial divides decline but still exist ...



Urban Resilience Strategy - Next City



Urban America likely to gain clout



Managing Urban Ameri... us.sagepub.com



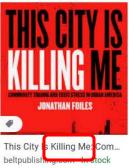
divide between rural and urban diosohio.org



Why rural America needs cities brookings.edu



future economic boom.



Rural and Urban America Aren't so ... bloomberg.com



Why rural America needs cities brookings.edu



playing into the 2020 presidential race ... cnn.com

# When people search for information about places, what they ask tells how they think

# Oregon

why is oregon so why is oregon so weird why is oregon so expensive why is oregon so beautiful why is oregon so dry why is oregon so foggy why is oregon so cold why is oregon so **poor** why is oregon so cheap why is oregon so hot right now why is oregon so green

## lowa

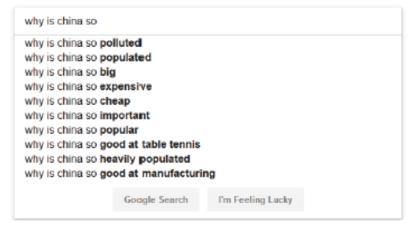
- Q why is iowa so
- why is iowa so humid
- why is iowa so boring
- why is iowa so flat
- why is iowa soil so good
- why is iowa caucus so important
- why is iowa so windy
- Q why is iowa and new hampshire so important
- why is iowa so important in the presidential nomination process
- why is iowa so important in elections
- why is iowa so important in politics

## What happens when you search for countries?

- We collected the top-10
   English language terms
   about every country of
   the world
- We collected these data as though the searches were coming from each country, about every country







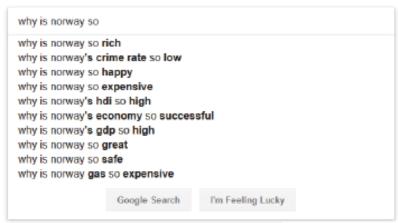
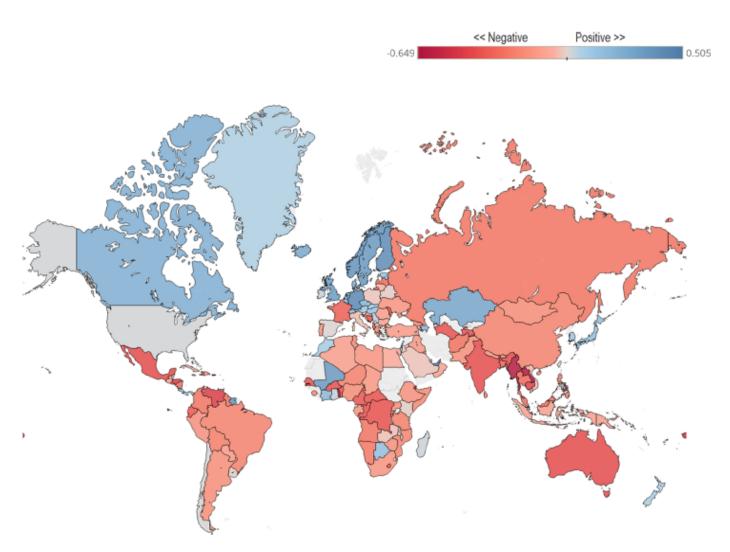


FIGURE 1. Measuring national and developmental perceptions in Google search data

# A Developmental Worldview



POOR COUNTRY
SEARCH TERMS

Poor
Dangerous
Underdeveloped
Messed up
Homophobic
Mean
Undernourished
Economy bad
Unhappy
Crazy
Isolated
Disgusting

RICH COUNTRY
SEARCH TERMS

Safe
Great
Clean
Awesome
Health
Prosperous
Productive
Smart
Important
Good

FIGURE 3. Average sentiment toward countries, according to Google search queries about countries

Dorius, S. & Swindle, J. (2019). *Developmental Idealism in Internet Search Data*. Sociology of Development.

# A Developmental Worldview

The **less we know** about a place, the more negatively we perceive it.

The **less developed** a place, the more negatively we perceive it.

What might this mean for how people view rural places in the US?

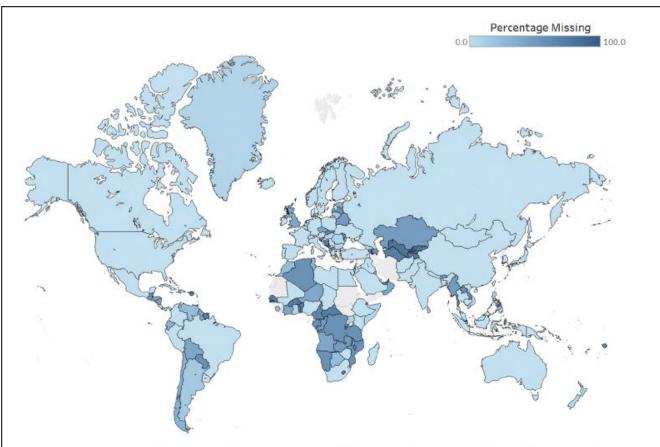


FIGURE 4. Country visibility according to percentage of missing data in Google search queries about countries

Note: Darker shading identifies low-visibility countries: those for which there were few or no search queries. Lighter shading identifies highly visible countries: those for which there were many search queries.



# How Implicit Attitudes (Bias) Work

#### **Attitudes in Theory**

#### **COGNITIVE:**

What we *think* about someone or something

#### **AFFECTIVE:**

How we feel about someone or something

#### **BEHAVIORAL:**

What we (intend to) do to someone or something

#### **Attitudes in Practice**

#### COGNITIVE:

I think people are poor because they are lazy

#### AFFECTIVE:

Poor people disqust me

#### **BEHAVIORAL:**

I'm not going to administer the program in Poor Town because it will only reward bad behavior.

# Do Place-based Biases Impact Your Work?

- People have well-developed perceptions of places
- Often highly stylized and stereotypical beliefs about urban and rural places
- Beliefs shape actions
- Place-based bias lives in the shadow of more visible biases

#### Place Bias and Extension:

Extension programming is largely place-based

2. Extension professionals, and the people they serve, are not immune to the effects of and exposure to place-based stereotyping

### Place Bias in Extension Culture

It is difficult to change place bias, but a good starting place is to recognize it exists and be aware of our preferences, attitudes, and stereotypes about places and the people that live there.

Where do we start?

#### We can start with data

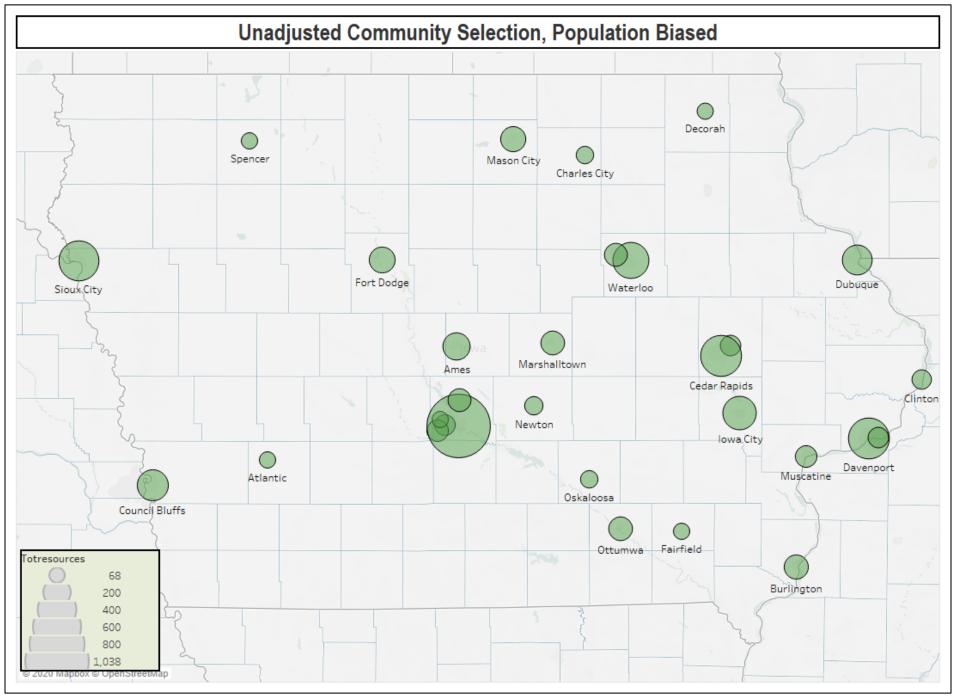
- Measure for presence of bias
- Both anti-rural and anti-urban (cosmopolitan)
- Correct for bias in our teams and in our data



# When Resources Matter: Identifying Recovery Ready Communities

- Community resources significantly predict substance use recovery
- We collected data on 17 different types of resources for every community in lowa
- Over 15,000 individual resources were mapped and analyzed to identify Recovery Ready Communities in Iowa





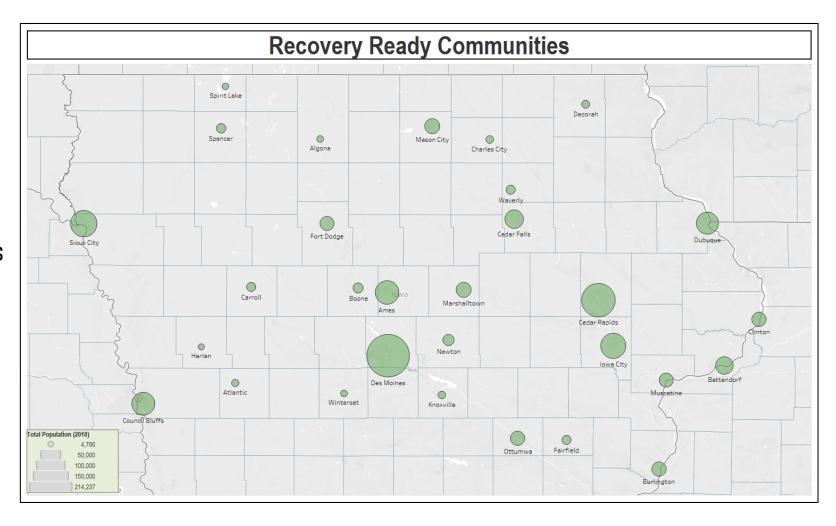
Mapping recovery resources helped us to identify recovery hotspots & recovery infrastructure deserts

Larger circles identify larger number of total resources

But this approach favors large and populous cities

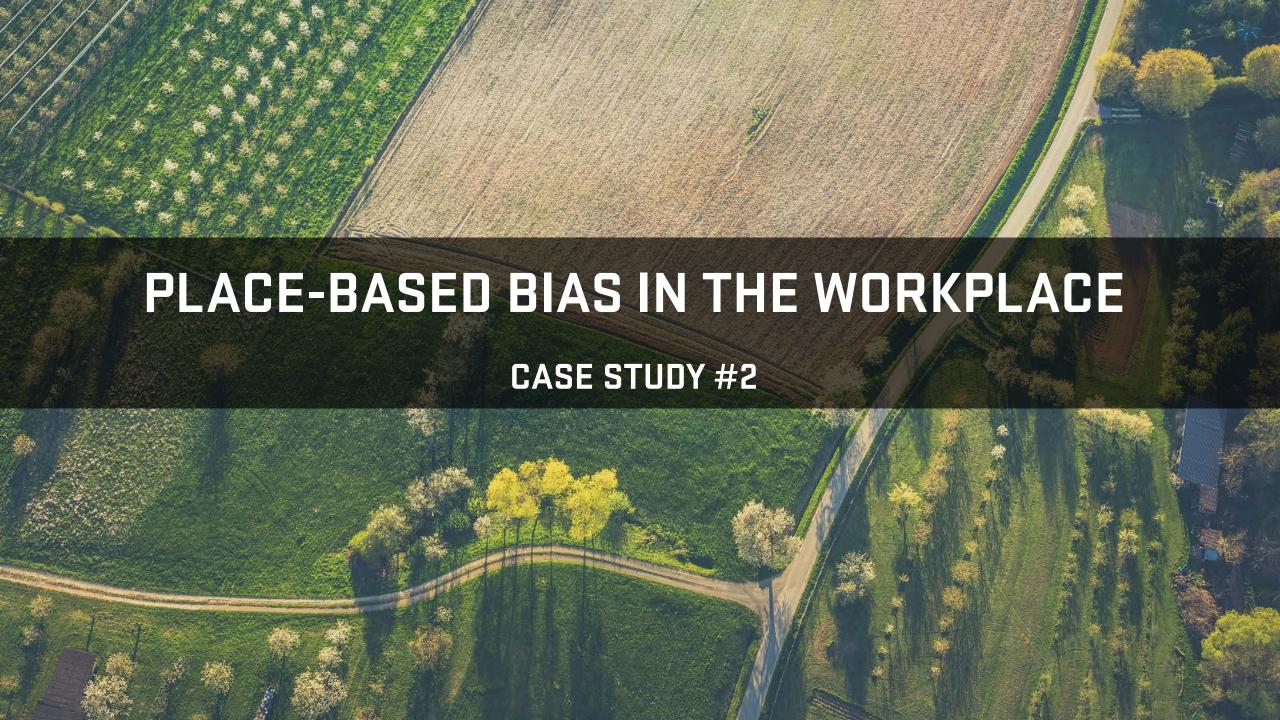
# Tips for Correcting for Place Bias in Research

- Include rural places in your sample
- 2. Use many different measures to capture strengths & assets of various groups and places
- 3. Adjust data for population size (e.g. per capita)



**Result: Rural places were better represented.** Initially, just 7 of 30 communities selected were small towns (populations of less than 15,000). After adjustment, **13** of 30 communities selected were small towns.





# WE ASKED TEAMS...

We measured top-of-mind associations about rural places among students in a data science training program



# How can a data scientist help rural communities?

LISTEN LISTEN! Hear what they need!

By working with them not by studying them

Find out what their main concerns are and figure out insights that help mitigate those concerns

Deploy the resources that they have within their communities to solve the problems that they want to solve.

By collecting data and set measuring indicators and do data analytics and interpreting the result

Analyzing data from diverse sources but working with the local government

A data scientist can help present ways that the communities can overcome the challenges that they do face

Work with DSPG on the projects that we will be doing this summer and beyond

The same way a data scientist would help any other group by informing the rural community, with data, about the issues they want to know about and presenting them with effective options for solving those problems.

We can collect the problems that they most want to solve, and then help them solve those problems with social source.

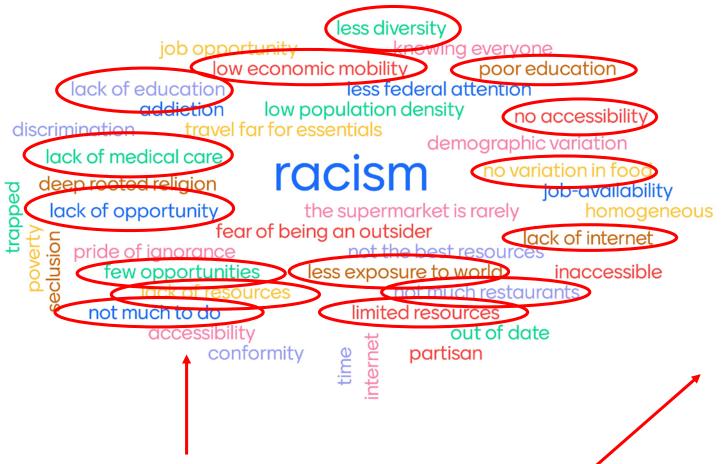
Responses point to a collaborative, partner-oriented approach to community engagement (e.g. appreciative inquiry).

## What is life like in rural America?





# What is the worst thing about living in rural America?



Primary Keywords	Frequency
lack	5
resources	3
less	3
racism	3
variation	2
education	2
opportunity	2
much	2
job	2
accessibility	2
internet	2
low	2
limited	1



# Tips for Correcting for Place Bias in the Workplace

- Embed opportunities in your workplace to become aware of bias
- 2. Discuss how bias might impact your outreach, study design, analysis, or results. Then keep discussing!
- 3. Employ strategies to break the habit of bias, such as:
  - Individuation
  - Perspective taking
  - Counter-stereotypic imaging



Published in final edited form as:

J Exp Soc Psychol. 2012 November; 48(6): 1267–1278. doi:10.1016/j.jesp.2012.06.003.

#### Long-term reduction in implicit race bias: A prejudice habitbreaking intervention

Patricia G. Devine,

Psychology Department, University of Wisconsin - Madison

Patrick S. Forscher,

Psychology Department, University of Wisconsin - Madison

Anthony J. Austin, and

Psychology Department, University of Wisconsin - Madison

William T. L. Cox

Psychology Department, University of Wisconsin - Madison

#### Abstract

We developed a multi-faceted prejudice habit-breaking intervention to produce long-term reductions in implicit race bias. The intervention is based on the premise that implicit bias is like a habit that can be reduced through a combination of awareness of implicit bias, concern about the effects of that bias, and the application of strategies to reduce bias. In a 12-week longitudinal study, people who received the intervention showed dramatic reductions in implicit race bias. People who were concerned about discrimination or who reported using the strategies showed the greatest reductions. The intervention also led to increases in concern about discrimination and personal awareness of bias over the duration of the study. People in the control group showed none of the above effects. Our results raise the hope of reducing persistent and unintentional forms of discrimination that arise from implicit bias.

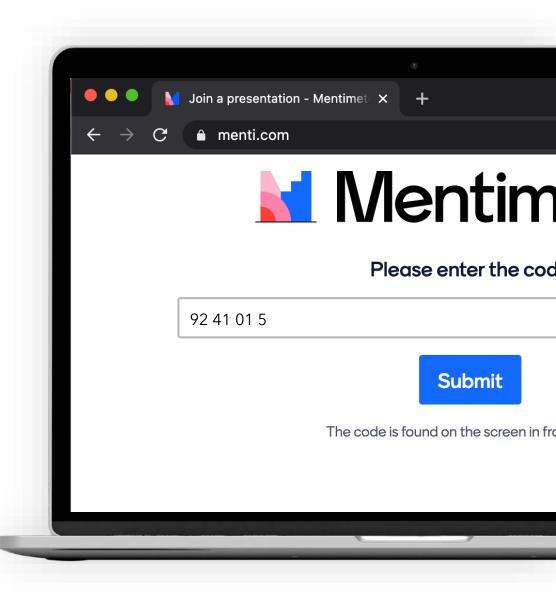
#### Keywords

prejudice; stereotyping; intervention; reduction; implicit bias; self-regulation

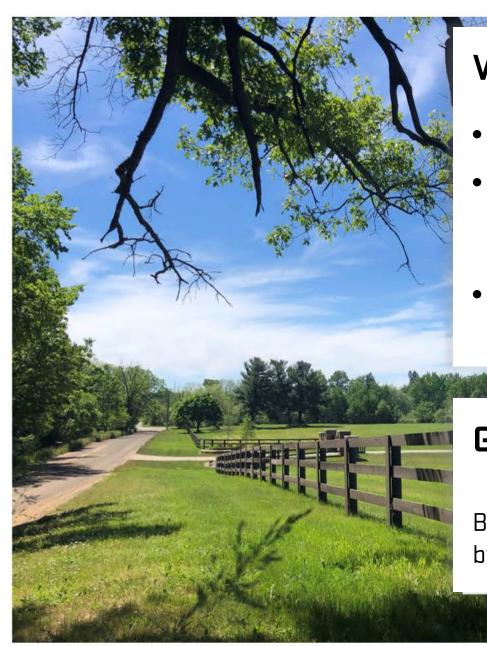
**Result:** After perspective-taking discussion, students committed to explore asset-based approaches to data collection and analysis during their data science internship (e.g., Community Capitals + health resources).

# WHAT IS LIFE LIKE IN RURAL AMERICA?

LET'S LOOK AT YOUR DATA







#### **VISION**

- Build a data ready culture for community work
- Be aware of your own place-based biases, the biases of your teams, and the biases in your data (this is an ongoing and iterative effort)
- Be intentional about minimizing the harmful effects of these biases on others

#### GOAL

Better support the communities we live, learn, and work in by reducing place-based biases



TOWARDS A NATIONAL COMMUNITY LEARNING NETWORK

WE APPRECIATE THE
OPPORTUNITY TO TALK WITH
YOU ABOUT BUILDING A DATAREADY CULTURE FOR
EXTENSION!

**CONTACT:** 

**SHAWN DORIUS** 

SDORIUS@IASTATE.EDU