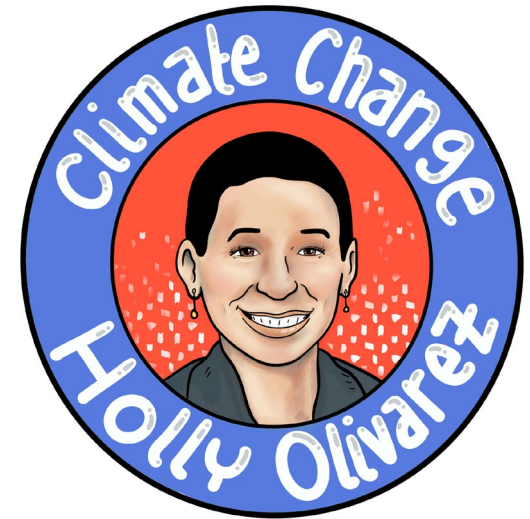
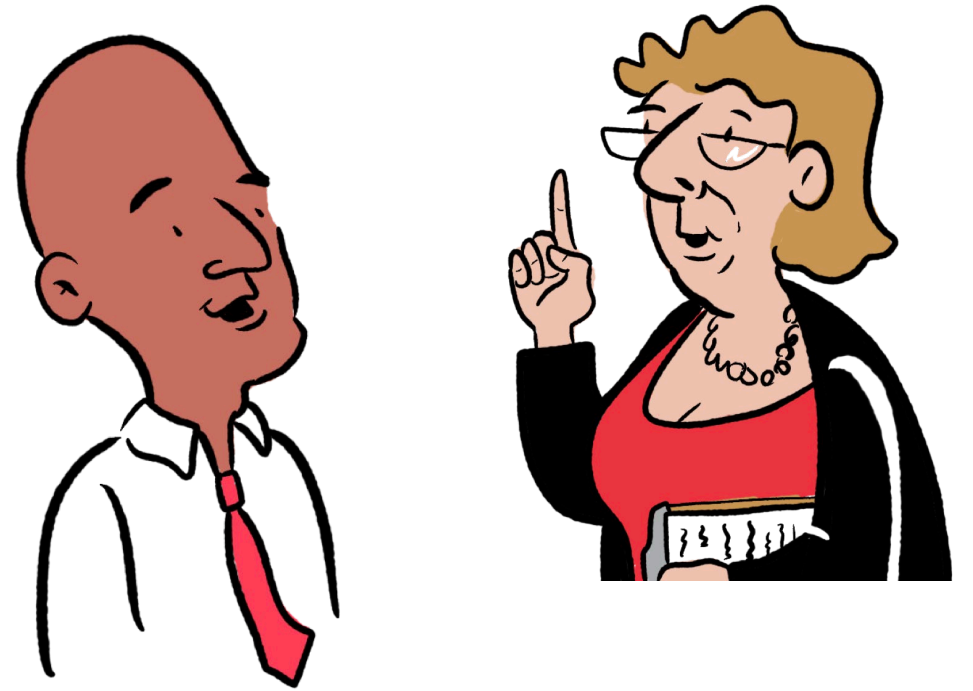


Talking with people about climate justice



@holivarez19

I am a
communicator
who now does
science.



Holly Olivarez
Mom / Oceanographer
@holivarez19



Ocean Biogeochemistry Research Group
Department of Atmospheric & Oceanic Sciences
Institute of Arctic & Alpine Research
UNIVERSITY OF COLORADO BOULDER





Global



Demands early action



Here now

What do we do?



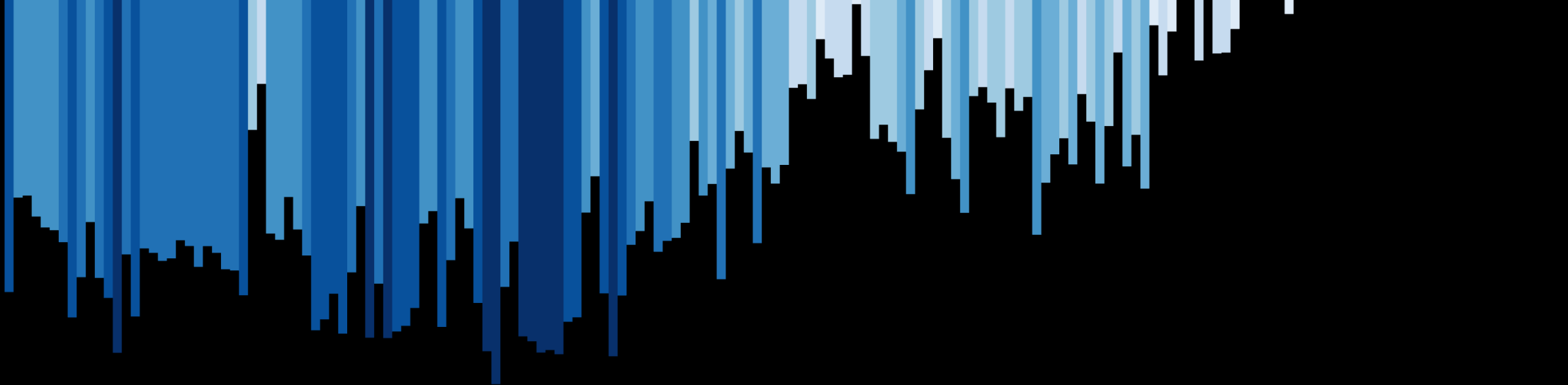


**We all want a safe
place to live.**

**We all want healthy
friends, family and
communities.**

Global temperatures have increased by over 1.2°C

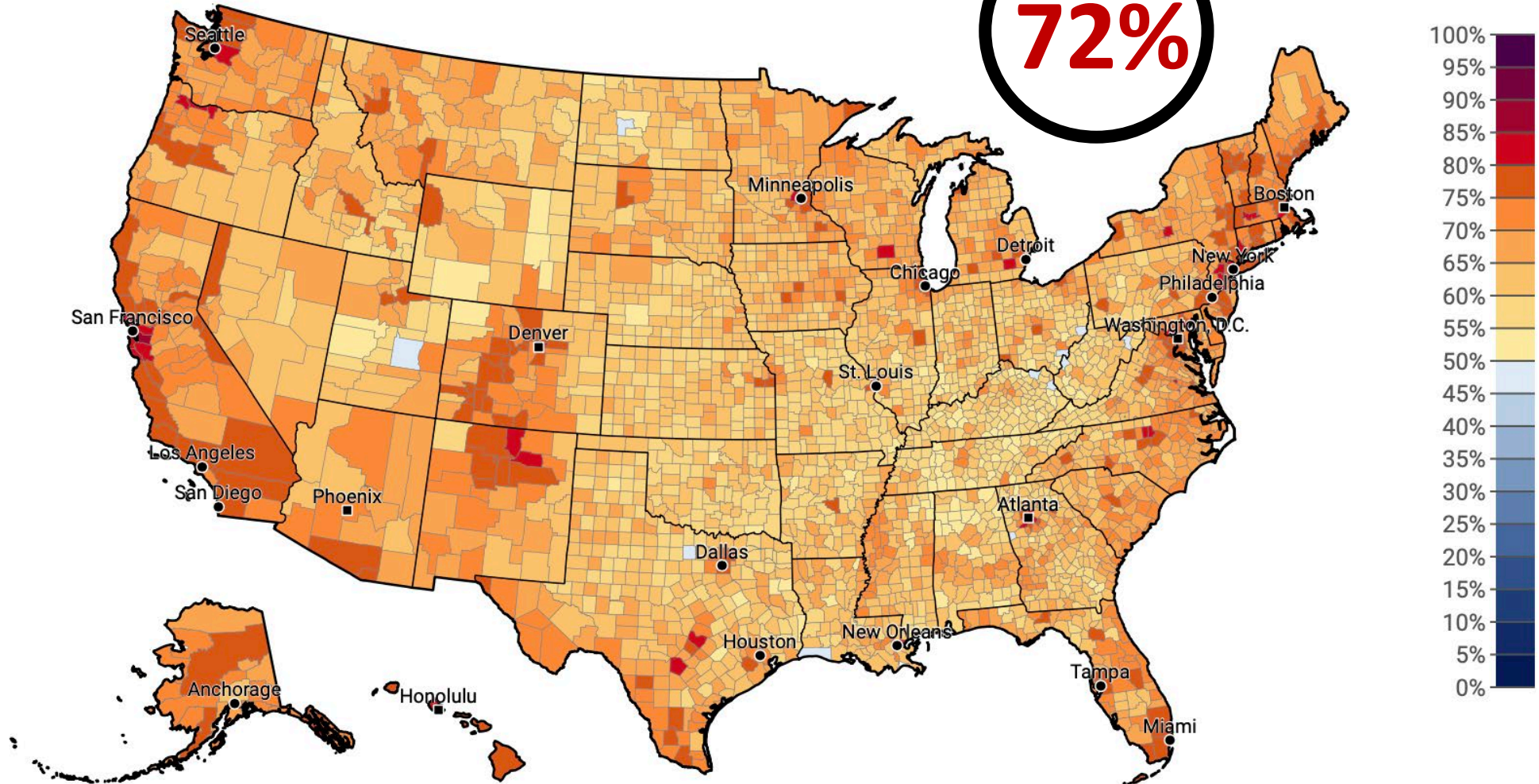
1850 2022



showyourstripes.info

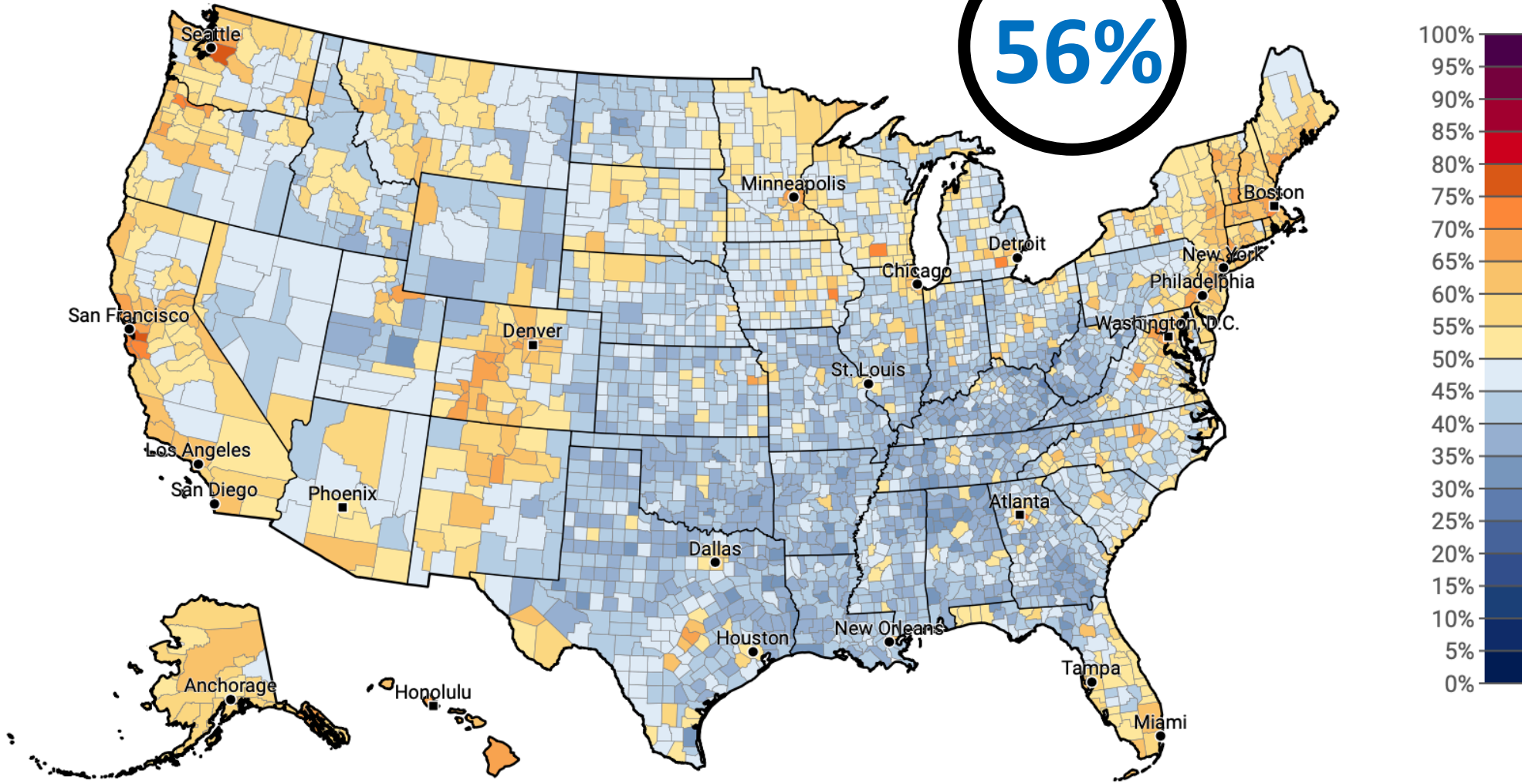
Estimated number of adults who think global warming is happening, 2023:

72%



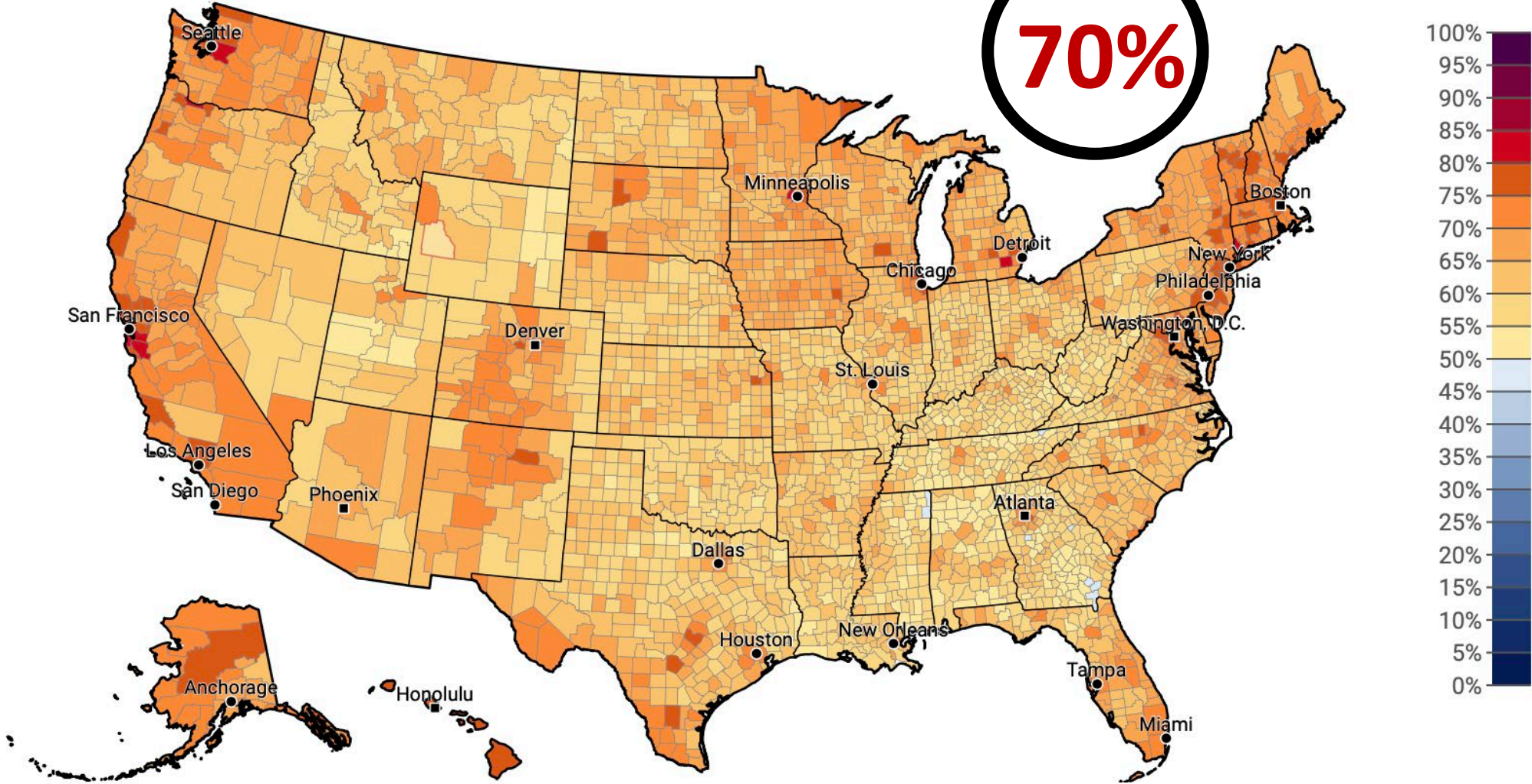
Estimated number who believe most scientists think global warming is happening, 2023:

56%



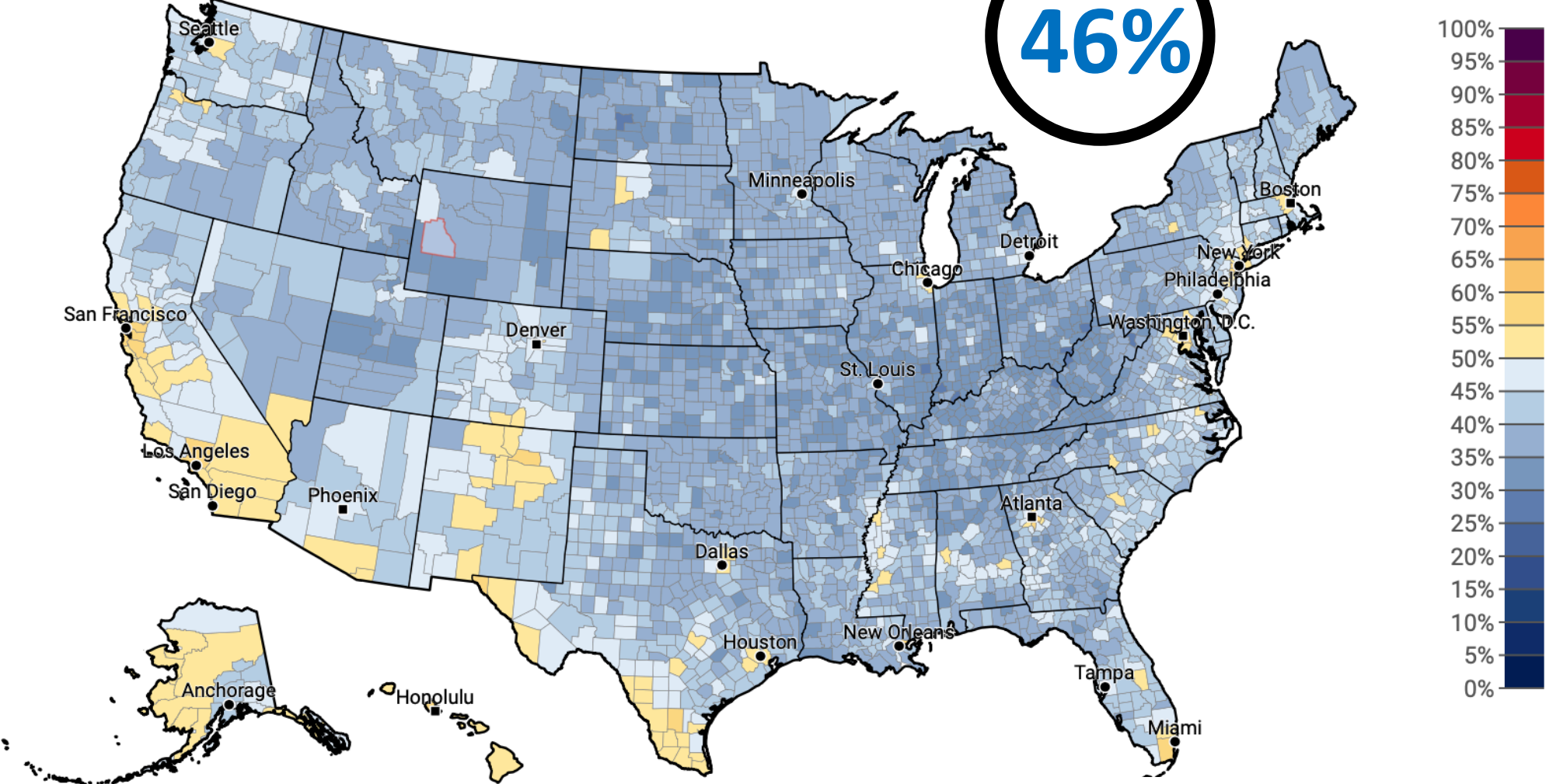
Estimated number of adults who think global warming will harm future generations, 2023:

70%



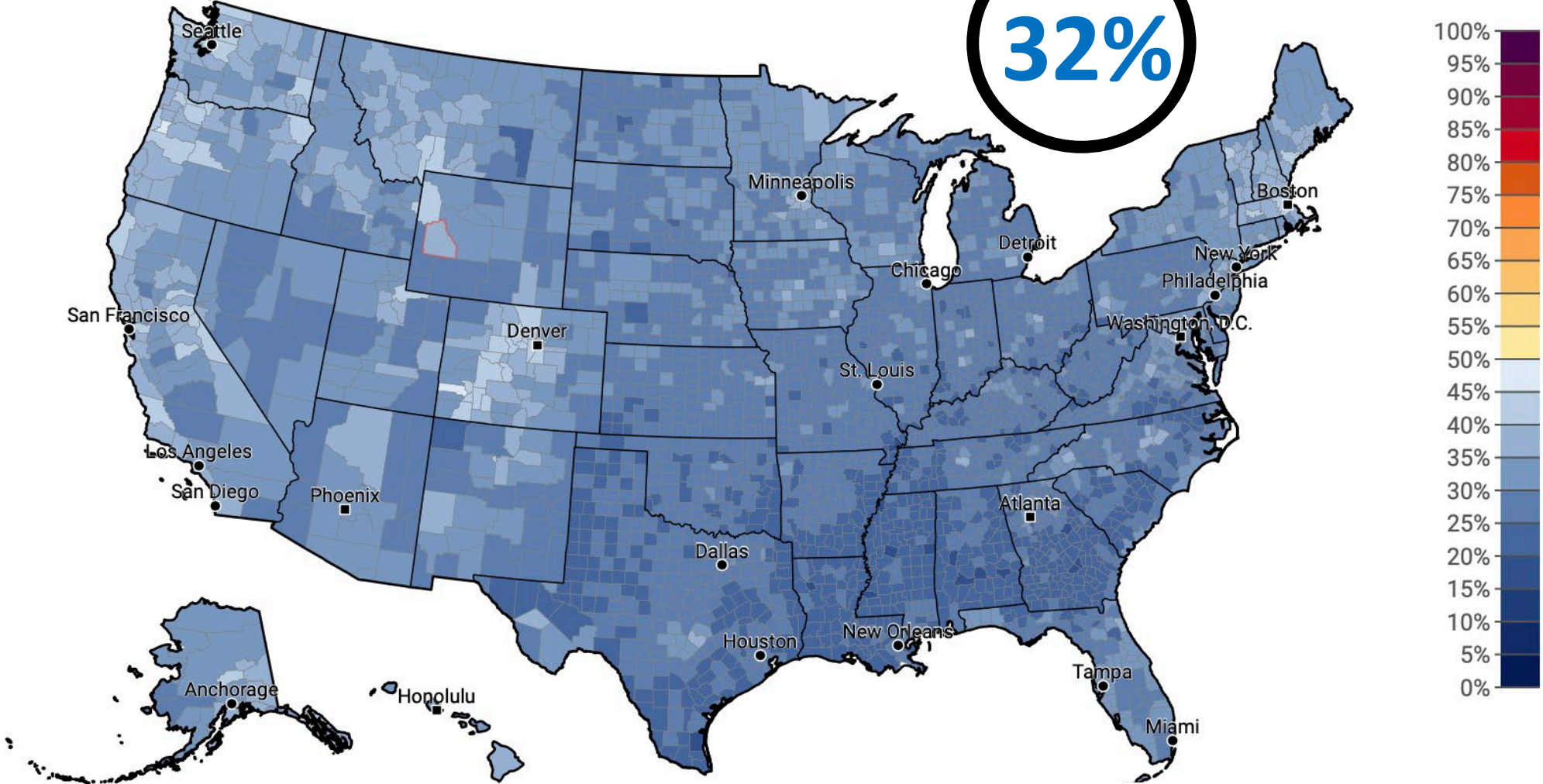
Estimated number of adults who think global warming will harm them personally, 2023:

46%



Estimated number who hear about global warming in the media at least once a week, 2023:

32%



How did we get here?



Climate change is not affecting all communities equally.





Housing proximity to toxic places



Poor air quality



Poor water quality



Chronic “pre-existing” medical issues



Reliable access to quality health care



Lack of equitable opportunities



“Approximately 71% of African Americans live in areas in violation of air pollution standards.”

- NAACP Environmental and Climate Justice Program, naacp.org

Least polluters:

- cannot change the system to create equity**
- surviving takes the focus**



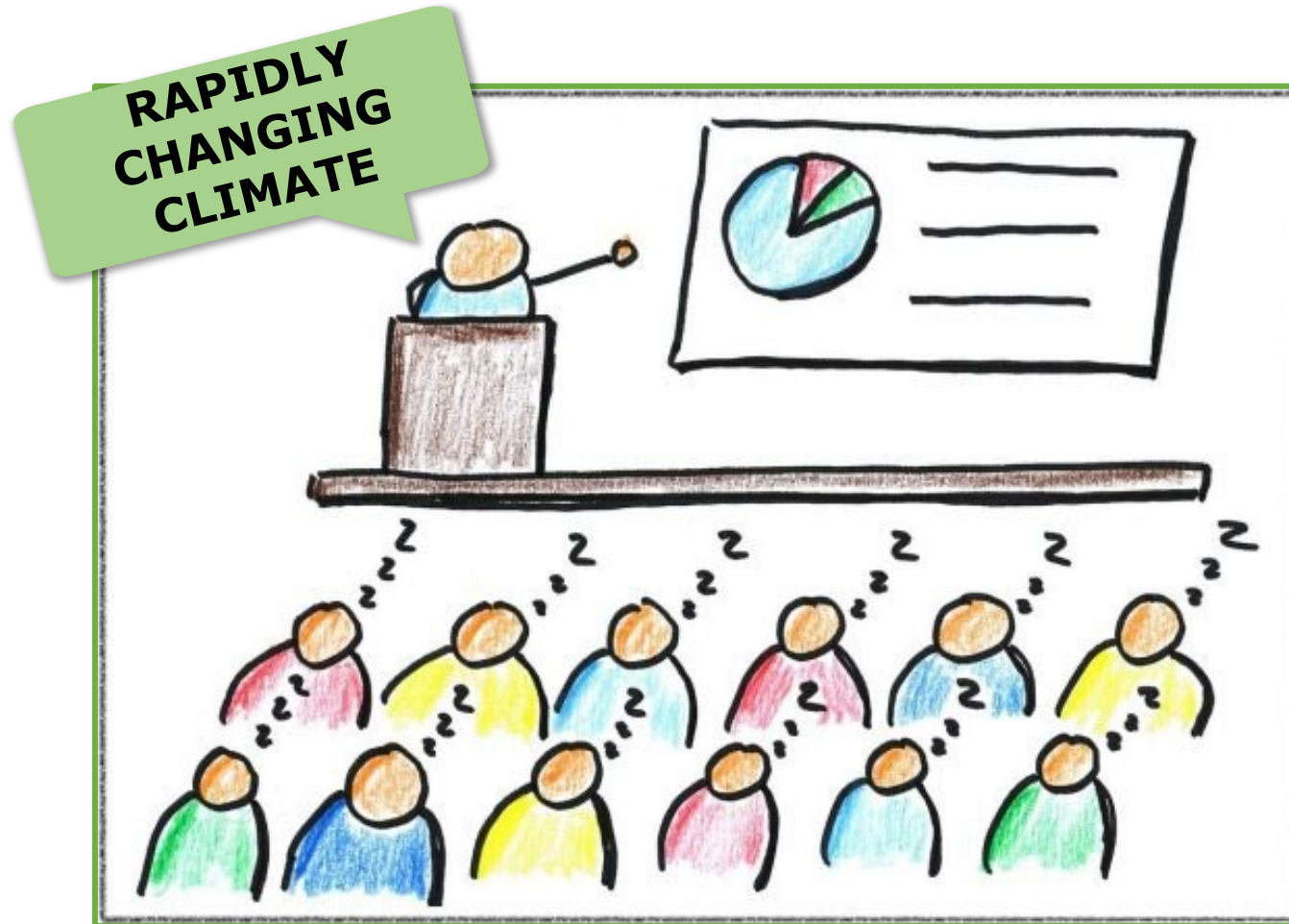
Other groups (53%):

- say they don't expect to feel the impacts**

If those in positions to change policies that create inequities do so with urgency, we can make space for those who are impacted the most...

Folks who are thinking about how to solve climate change because they have been impacted for some time now.

What used to work isn't working when it comes to climate change:



This model does not work:



(Information-deficit model, Lester and Hutchins 2013)

Blaming folks for any knowledge gaps does not work either:



(The Drum)

(Creative (Climate) Communications: Productive Pathways for Science, Policy and Society, Boykoff 2019)



**We all want a safe
place to live.**

**We all want healthy
friends, family and
communities.**

Examples of things to talk about:

Weird weather

Flowers and trees blooming earlier

Spring starting earlier than ever

Ski and rafting seasons are shorter than they used to be

Family, neighborhoods, schools

Shared values, faith and interests



Think about your climate change 'a-ha' story

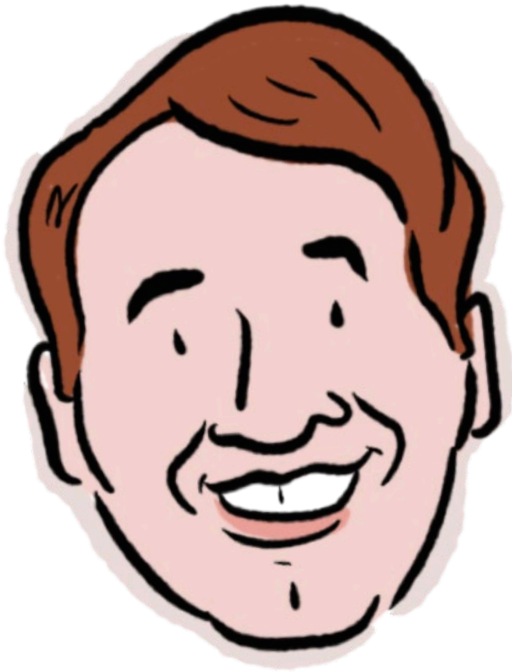
**Mine began after overhearing a
conversation in a grocery store!**



Think about your 'why'

People do not make lifestyle changes because of data and facts!





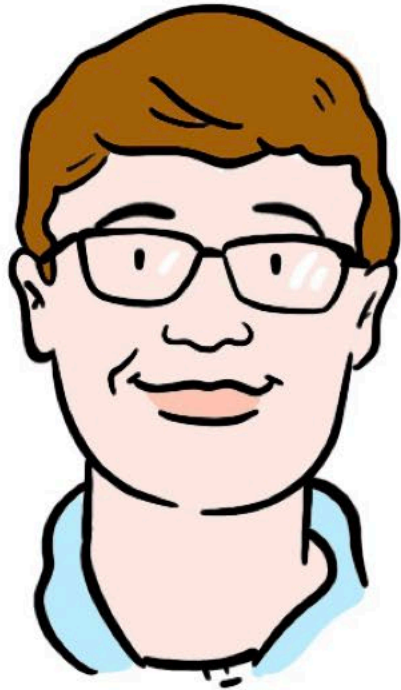
think
local



Follow reliable resources on social media

- ✓ **Easy to understand**
- ✓ **Easy to share**

Today's illustrations are by:



onboardinnovations.com

calbrackin.com

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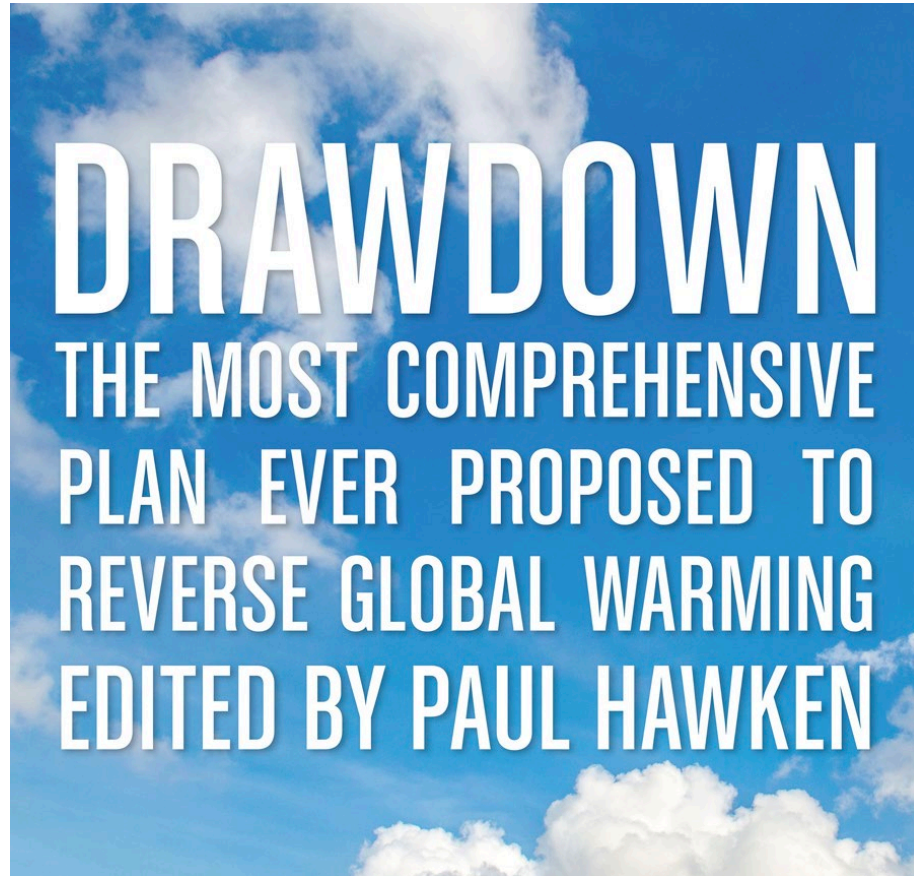
THANK YOU

I am available to give this presentation to other groups, too!

@holivarez19



Additional resources



**PROJECT DRAWDOWN:
100 existing solutions to
reverse global warming**

www.drawdown.org

Katharine Hayhoe, PhD



**Global Weirding series on
PBS and YouTube**

**Twitter: over 3,000 scientists
on her list of “scientists who
do climate”**

DENVER SPRING COMING EARLIER



Change in average date of first spring leaf emergence (1981-2019)
Source: U.S.A. National Phenology Network

CLIMATE  CENTRAL

CLIMATE CENTRAL:
**Reporting the science and
impacts of climate change**

www.climatecentral.org



SKEPTICAL SCIENCE:

**Skeptical about climate
skepticism**

www.skepticalscience.com



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Climate Feedback is a worldwide network of scientists sorting fact from fiction in climate change media coverage. Our goal is to help readers know which news to trust.

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Annotations 1 Page Notes

ScienceFeedback
Public (edited 1 min ago) 5 mins ago

Melting glaciers reveal LOST island in Antarctica – and humans are already visiting it

Overall scientific credibility: 'low' according to the scientists who analyzed this article.

"Melting glaciers reveal LOST island..."
Charlotte Edwards, The Sun

Scientific Credibility

+2	Very high
+1	High
0	Neutral
-1	Low

-1

Article in The Sun misrepresents Antarctic discovery and misplaces it on map

The Sun

This article in The Sun describes the chance discovery of a small island in Antarctica's Pine Island Bay, which seems to have appeared in the last decade. But the article sensati...

CLIMATE FEEDBACK

Scientists checking news articles and ranking the credibility

www.climatefeedback.com

GLOBAL CLIMATE CHANGE
Vital Signs of the Planet

FACTS ARTICLES SOLUTIONS EXPLORE RESOURCES NASA SCIENCE

NEWS
NASA, FEMA Release Comprehensive Climate Action Guide
NASA and the Federal Emergency Management Agency (FEMA) have released a guide that provides resources for adapting to and mitigating impacts of climate change.
[FULL STORY](#)

Metric	Value	Unit / Description
CARBON DIOXIDE	↑ 418	parts per million (current)
GLOBAL TEMPERATURE	↑ 1.01	°C since 1880
ARCTIC SEA ICE EXTENT	↓ 13.0	percent per decade since 1979
ICE SHEETS	↓ 427	billion metric tons per year since 2002
SEA LEVEL	↑ 4.0	inches since January 1993

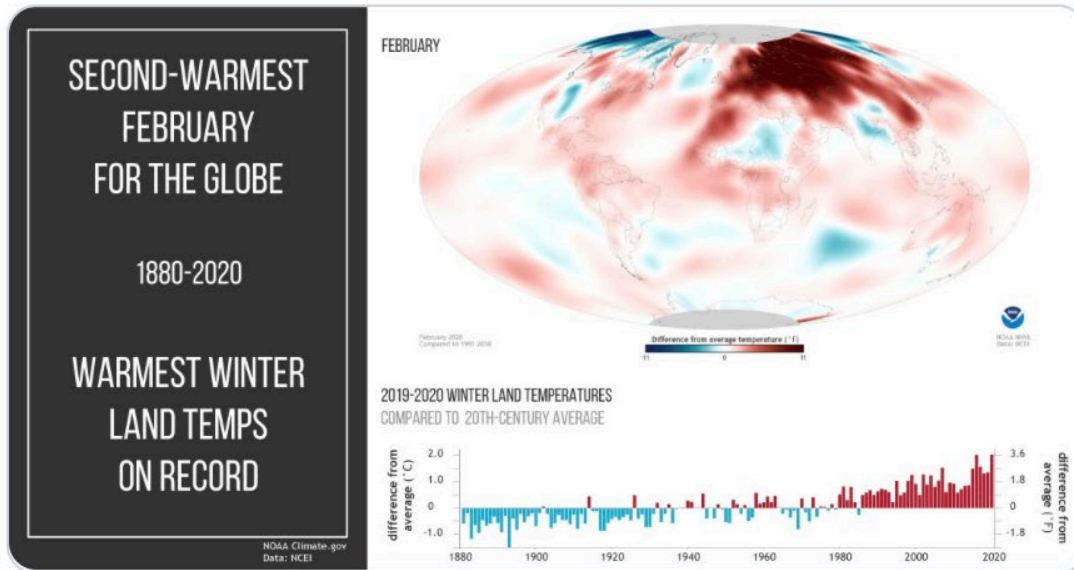
NASA GLOBAL CLIMATE CHANGE

www.nasa.climate.gov



NOAA Climate.gov @NOAAClimate · Mar 16

From the latest Global Climate Report issued by @NOAANCElclimate, global temperatures for **February 2020** and this past winter were the second warmest on record, continuing an upward trend. [climate.gov/news-features/..](https://climate.gov/news-features/)



NOAA

www.climate.gov



University of Colorado Boulder

INSIDE THE GREENHOUSE

**Stand up for climate change
comedy show!**

www.insidethegreenhouse.org