

**What About All the  
JOBS  
that Will Be Lost?**

**The U.S. has nearly 5 times as many jobs in solar as in coal mining**

**Over the last five years (prior to the pandemic), U.S. solar energy jobs grew SIX TIMES faster than the overall economy**





Over 190 global companies have made a commitment to go 100% renewable



**There is reason for hope, but no time to waste**



**UN Secretary General  
António Guterres:**

**“Climate change  
is the defining issue  
of our time.”**



# **UN Secretary General António Guterres:**



**“A green economy is not one to be feared but an opportunity to be embraced.”**

**“By the end of [this] decade we will be on one of two paths – a path of hope, or a path of surrender.”**

# **UN Secretary General António Guterres:**

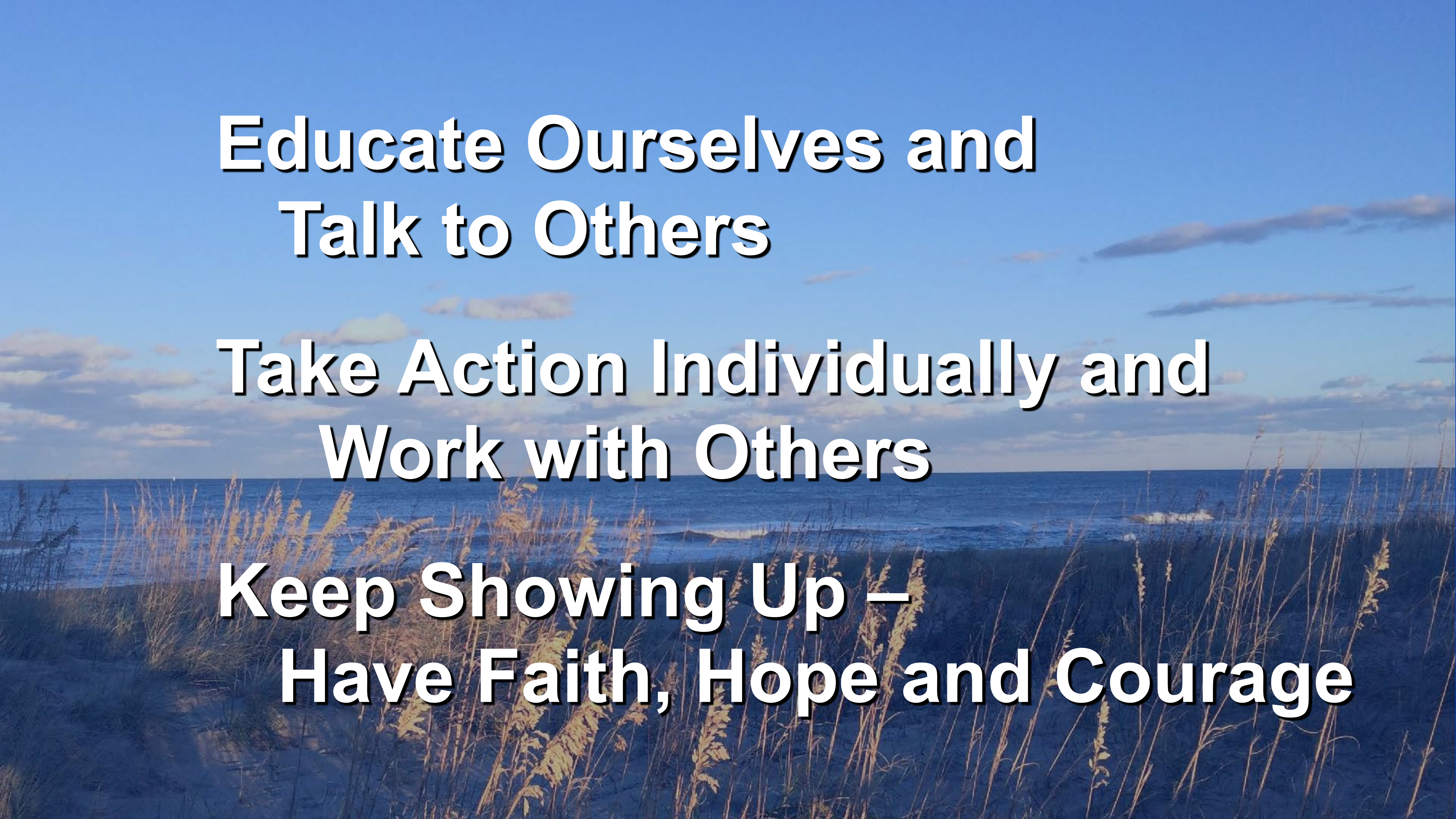


**“We have the tools,  
we have the science,  
we have the resources.**

**Let us show we also  
have the political will.”**

**WHAT CAN WE DO?**



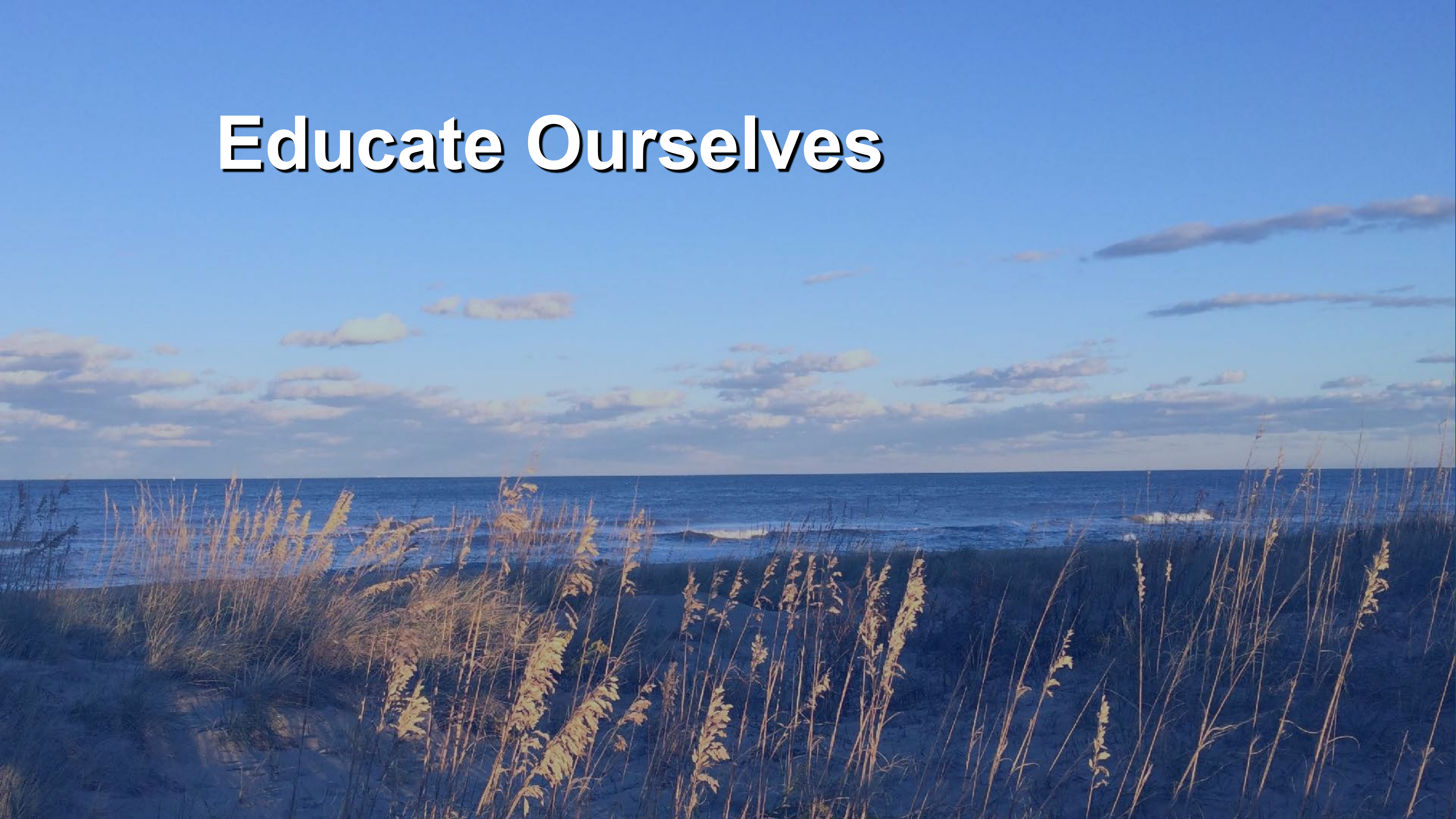


**Educate Ourselves and  
Talk to Others**

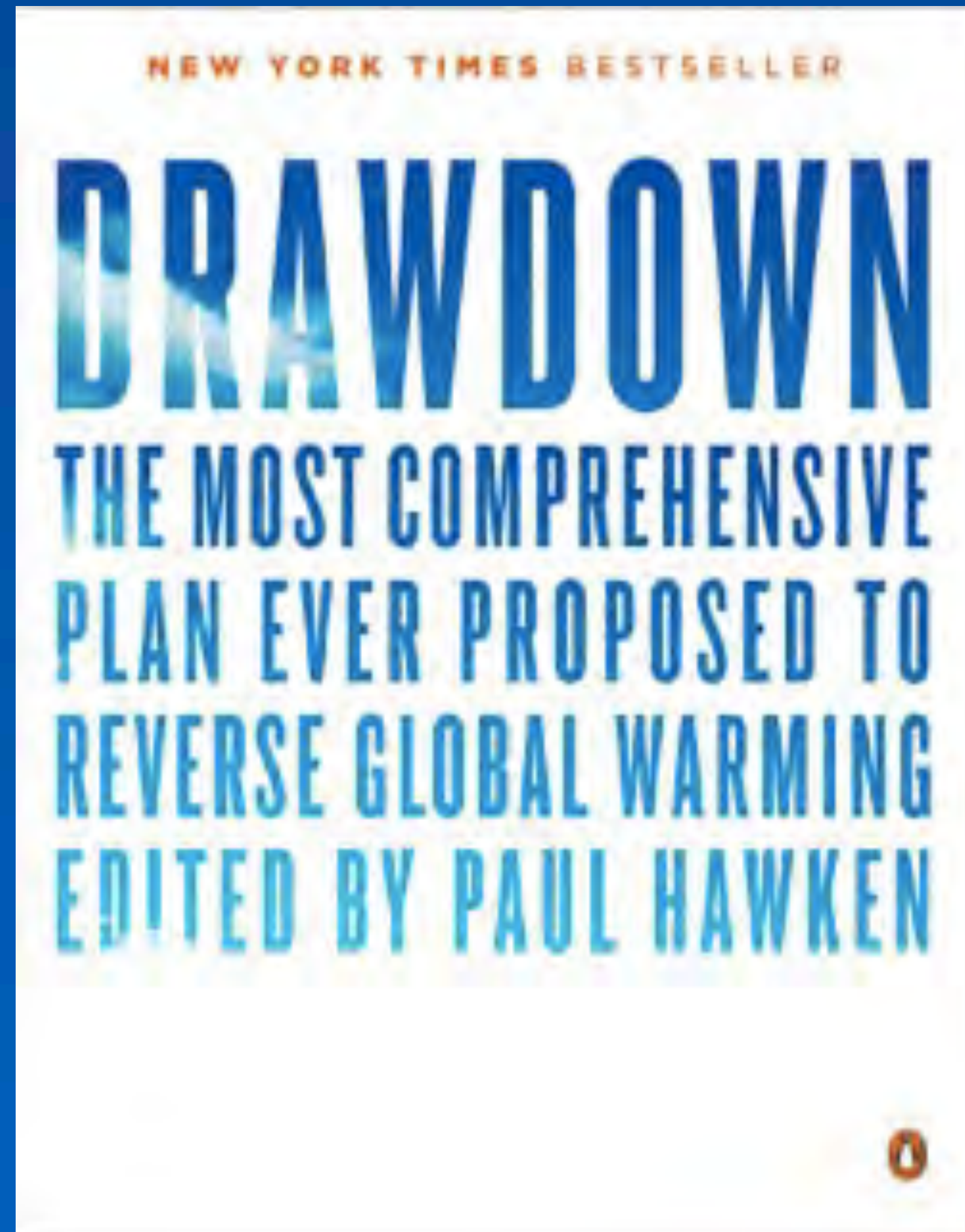
**Take Action Individually and  
Work with Others**

**Keep Showing Up –  
Have Faith, Hope and Courage**

# Educate Ourselves

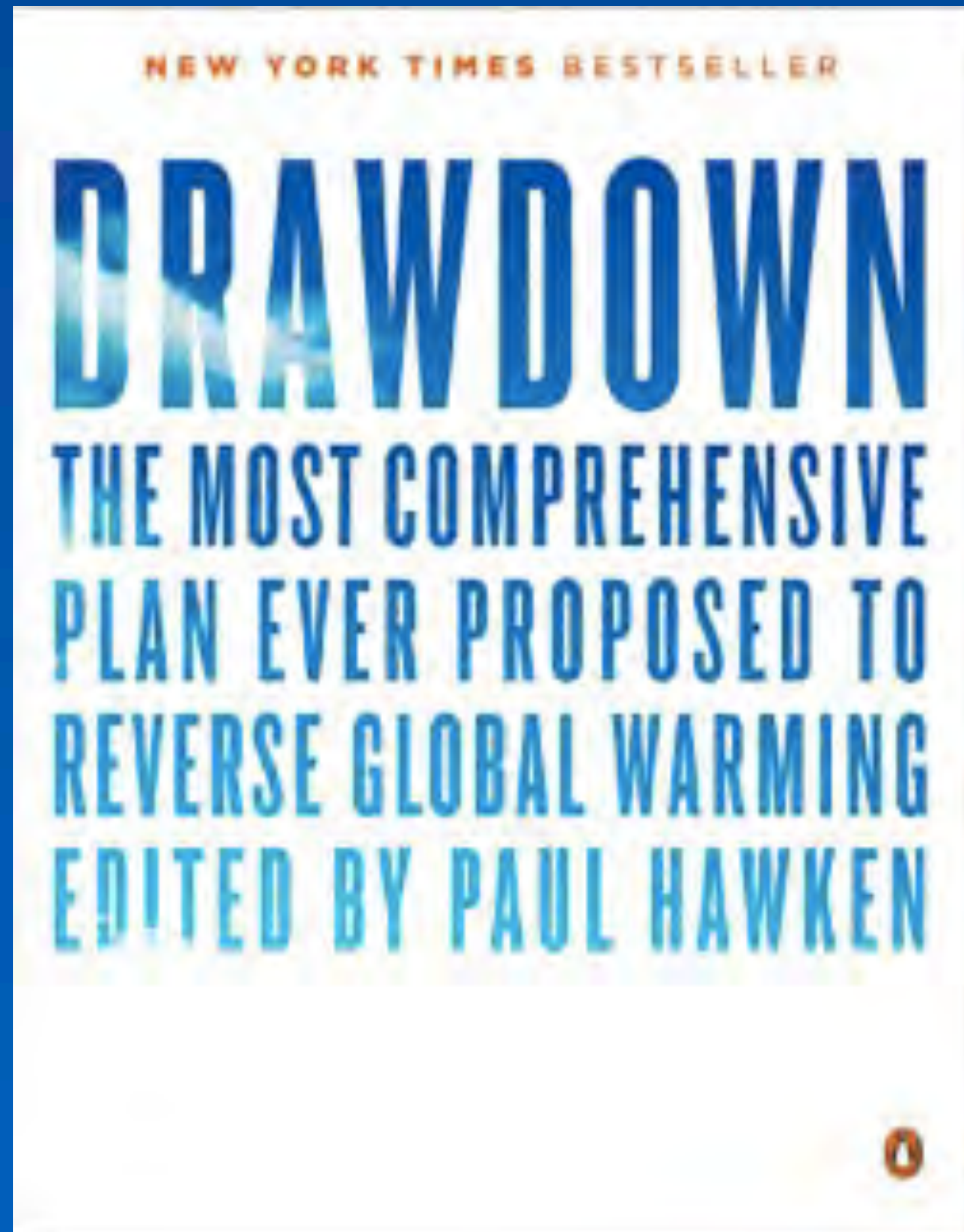


# “DRAWDOWN: The Most Comprehensive Plan Ever Proposed to Reverse Global Warming”



# Top 10 Most Effective Solutions to Global Warming

(by Gigatons of CO2 Reduction)



1. Refrigerant Management
2. Wind Turbines Onshore
3. Reduced Food Waste
4. Plant-Rich Diet
5. Tropical Forests
6. Educating Girls
7. Family Planning
8. Solar Farms
9. Silvopasture
10. Rooftop Solar

[drawdown.org/climate-solutions-101](https://drawdown.org/climate-solutions-101)

# CLIMATE SOLUTIONS 101





# SIMPLE STEPS

TO Save the Earth FROM

# Global Warming

The Green Patriot Working Group

*Introduction by David Steinman*

*Foreword by R. James Woolsey, Former Director of Central Intelligence*

# COOLER SMARTER

*Practical Steps  
for Low-Carbon Living*



EXPERT ADVICE

*from the*

UNION OF CONCERNED SCIENTISTS

*The Fight to Take Back*



*Our Planet*



# THE NEW CLIMATE WAR

MICHAEL E. MANN

MIKE BERNERS-LEE

# THERE IS NO PLANET B

*'massively important and massively entertaining' - Bill McKibben*

*'a handbook for how humanity can thrive' - Financial Times*

UPDATED

THE  
CLIMATE  
REPORT

The NATIONAL CLIMATE  
ASSESSMENT—  
IMPACTS, RISKS, and  
ADAPTATION  
*in the*  
UNITED STATES

U.S. Global Change Research Program

**BILL GATES**  
**HOW TO**  
**AVOID A**  
**CLIMATE**  
**DISASTER**

THE SOLUTIONS WE HAVE AND THE  
**BREAKTHROUGHS WE NEED**

THE  
**MADHOUSE**  
EFFECT



How  
Climate Change Denial  
Is Threatening Our Planet,  
Destroying Our Politics,  
and Driving Us Crazy

MICHAEL E. MANN  
and TOM TOLES

MIKE BERNERS-LEE



g' - Bill McKibben  
Financial Times

THE  
**THE FUTURE  
WE CHOOSE**



**Surviving the  
Climate Crisis**

Christiana Figueres and  
Tom Rivett-Carnac

**BILL GATES**

**ALL WE  
CAN SAVE**

Truth, Courage,  
and Solutions for the  
Climate Crisis

Edited by Ayana Elizabeth Johnson  
& Katharine K. Wilkinson

MIKE BERNERS-LEE

**THE  
MANIFESTO**

A Life on  
Our Planet

My Witness Statement  
and Vision for the Future

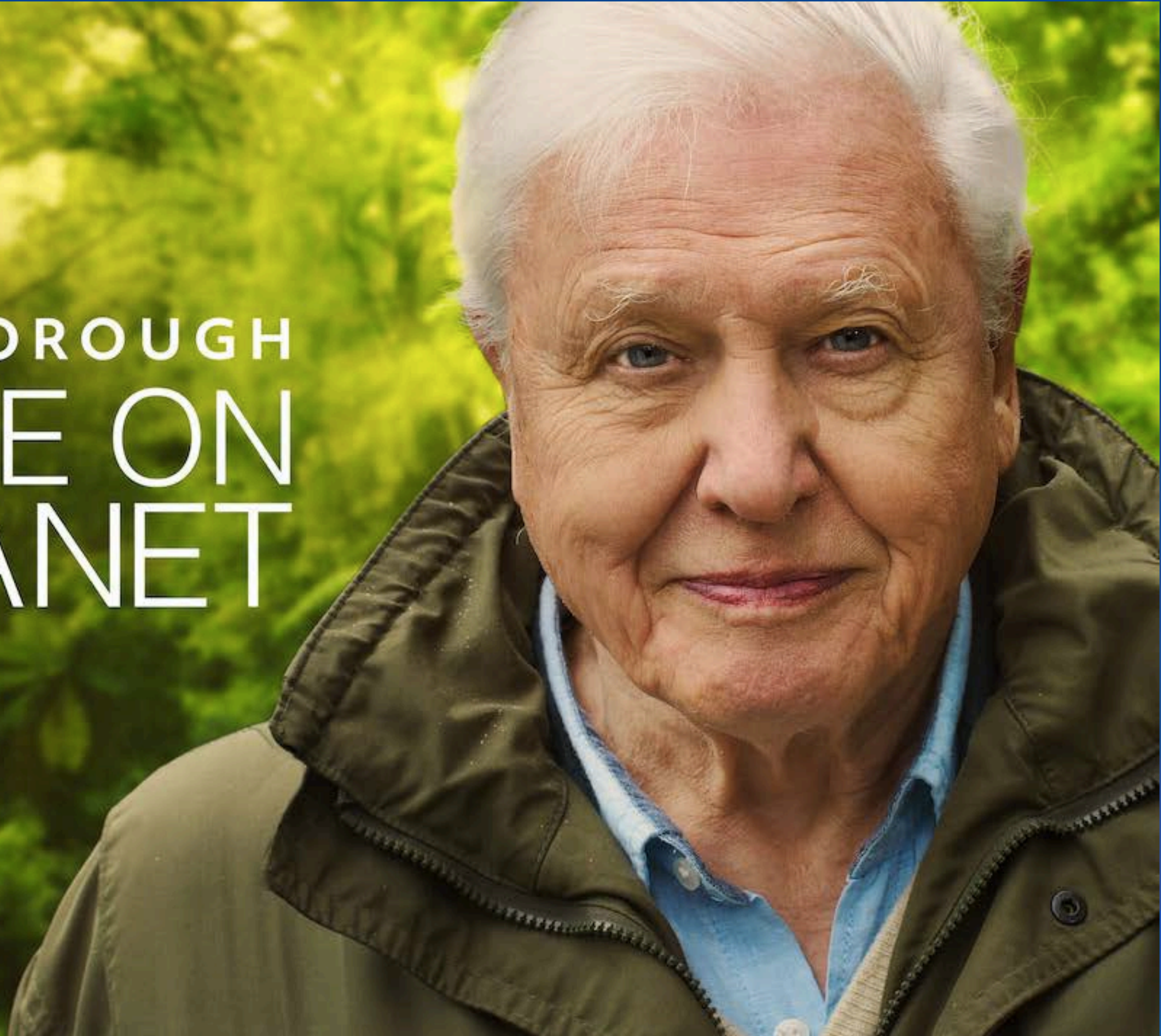
David  
Attenborough





N

DAVID ATTENBOROUGH  
A LIFE ON  
OUR PLANET



An aerial photograph of Pittsburgh, Pennsylvania, showing the city skyline, the Allegheny River, and the Three Sisters towers. The text "PARIS TO PITTSBURGH" is overlaid in large, white, bold, sans-serif font. The word "PARIS" is at the top, "TO" is in the middle, and "PITTSBURGH" is at the bottom. The background shows a mix of urban buildings, greenery, and a cloudy sky.

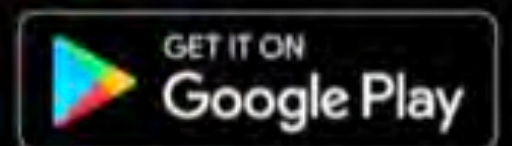
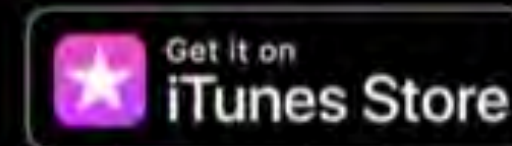
**PARIS**  
**TO**  
**PITTSBURGH**



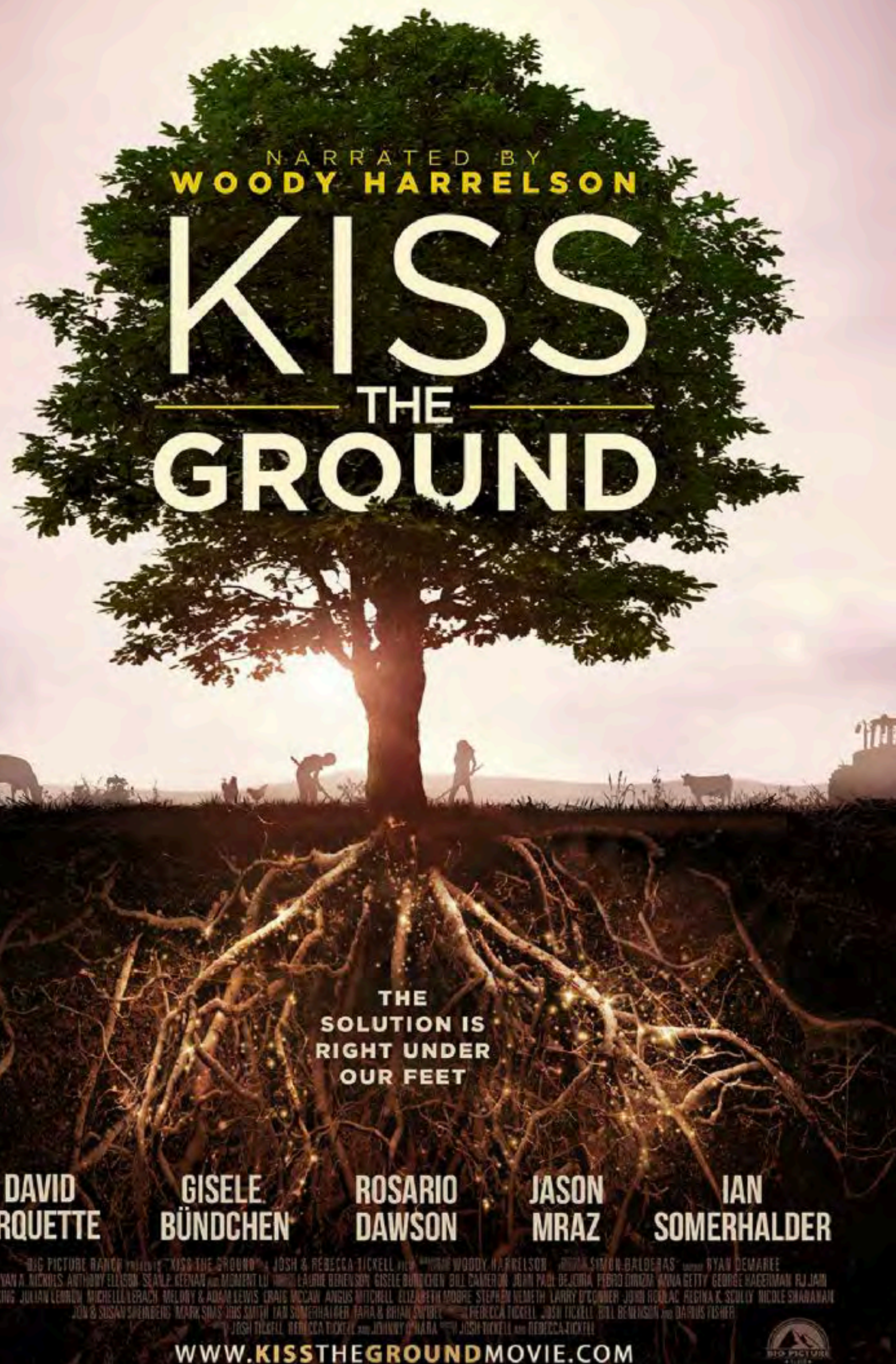
**EATING**  
**OUR WAY TO**  
**EXTINCTION**

<https://www.eating2extinction.com>

WATCH NOW ON



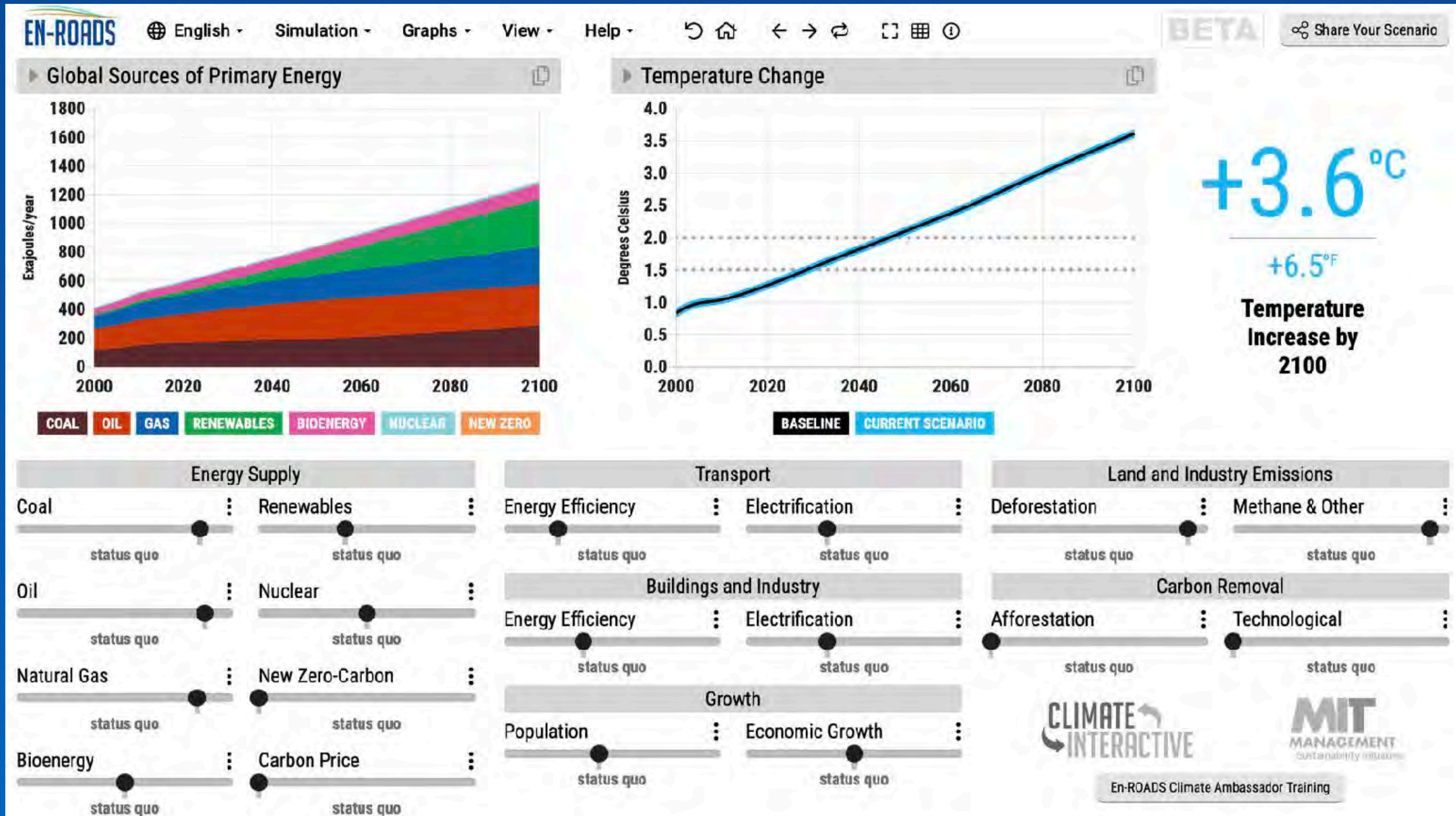
[www.KissTheGroundMovie.com](http://www.KissTheGroundMovie.com)



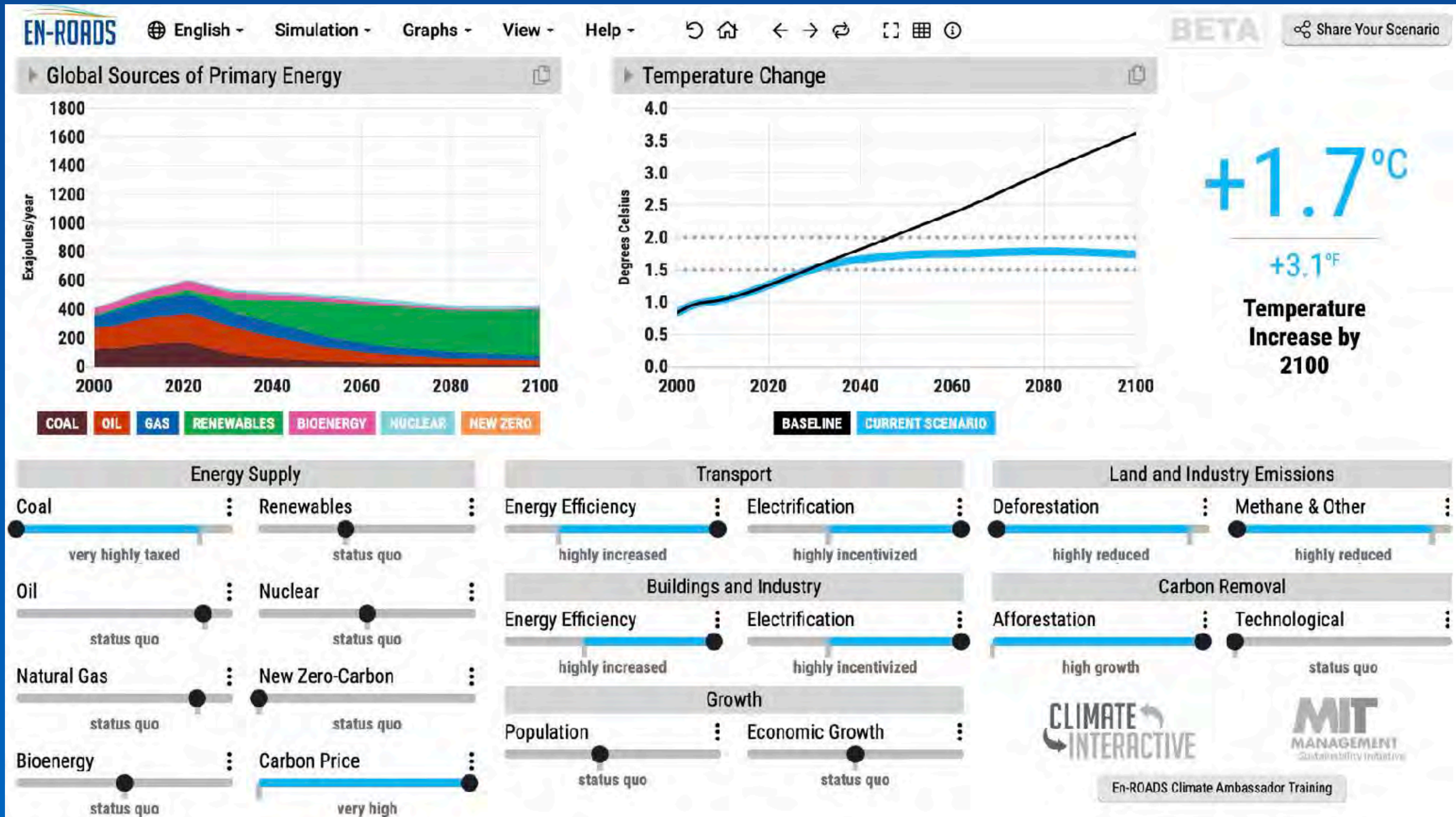
**“Inspires a rare feeling of hope”  
– NY Times**

**“Earth’s climate savior.”  
– LA Times**

# en-roads.climateinteractive.org



# en-roads.climateinteractive.org



# Talking to Others



# Dr. Katharine Hayhoe

The Nature Conservancy



**GLOBAL WEIRDING**  
WITH KATHARINE HAYHOE  
KTTZ.ORG

NEW EPISODES  
EVERY OTHER WEDNESDAY

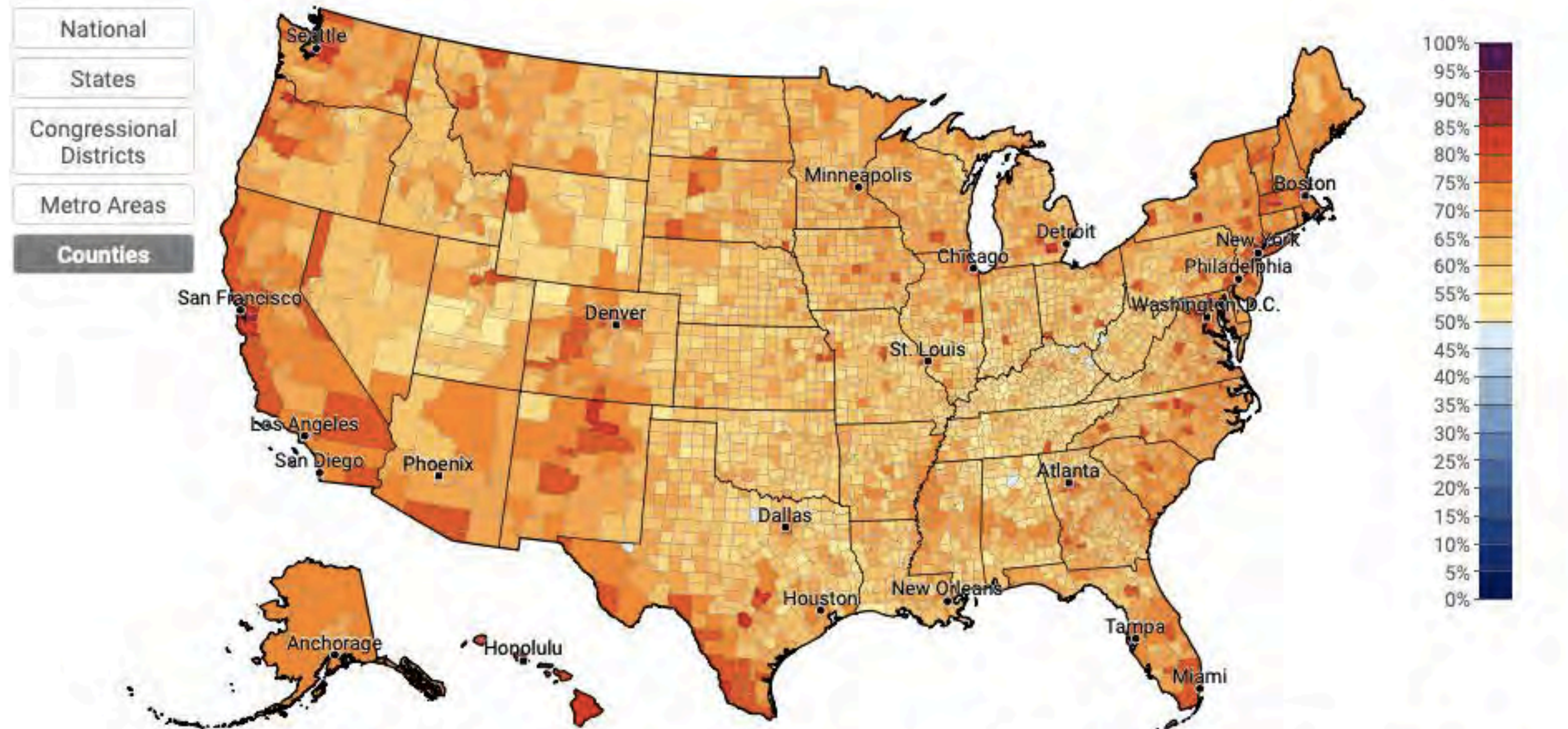




# Estimated % of adults who think global warming is happening (72%), 2020

Select Question: Global warming is happening Absolute Value

Click on map to select geography, or: Select a State Select a County



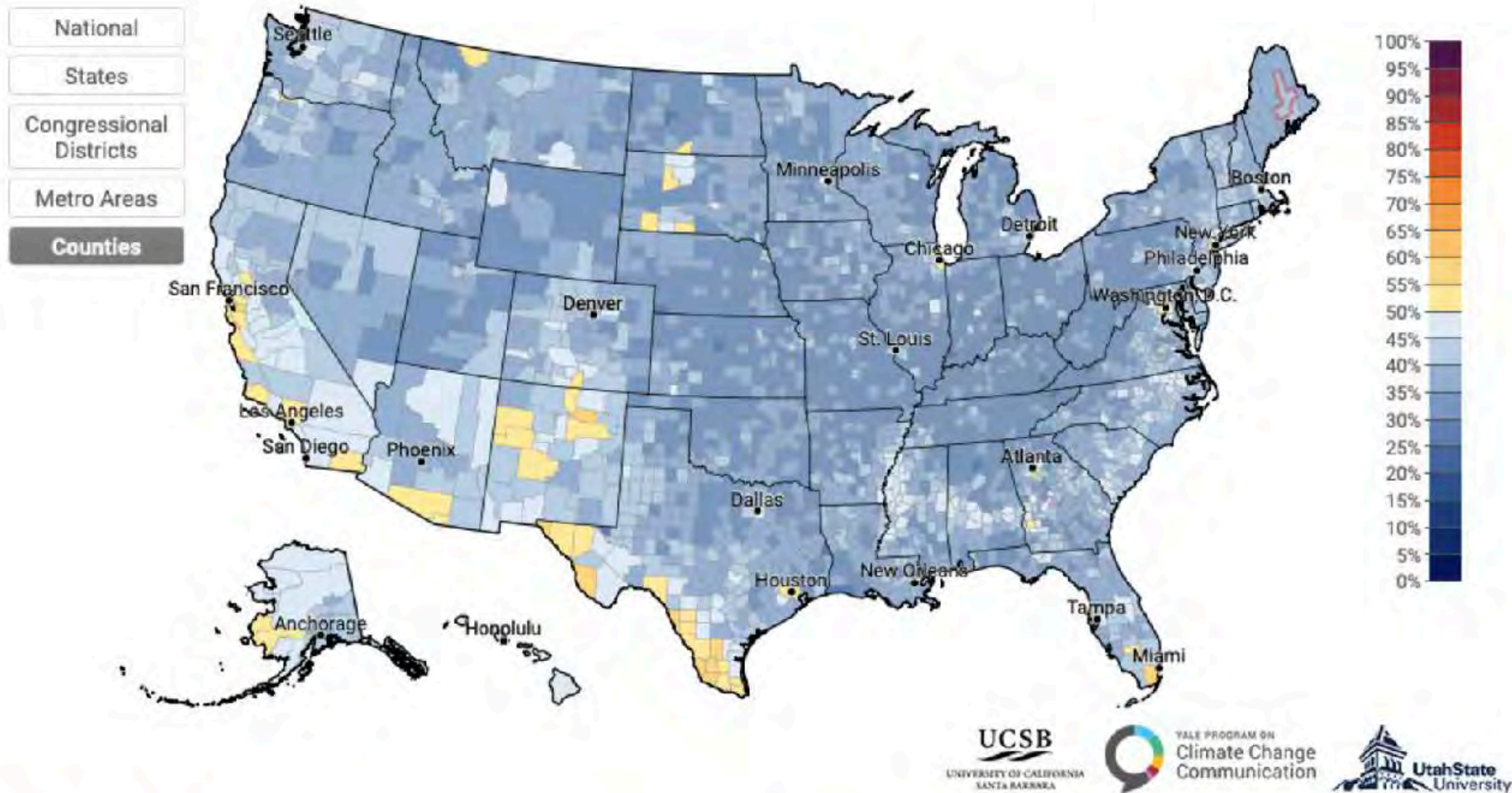
UCSB UNIVERSITY OF CALIFORNIA SANTA BARBARA YALE PROGRAM ON Climate Change Communication UtahState University



# Estimated % of adults who think global warming will harm them personally (43%), 2020

Select Question:  Absolute Value

Click on map to select geography, or:



United States

50%

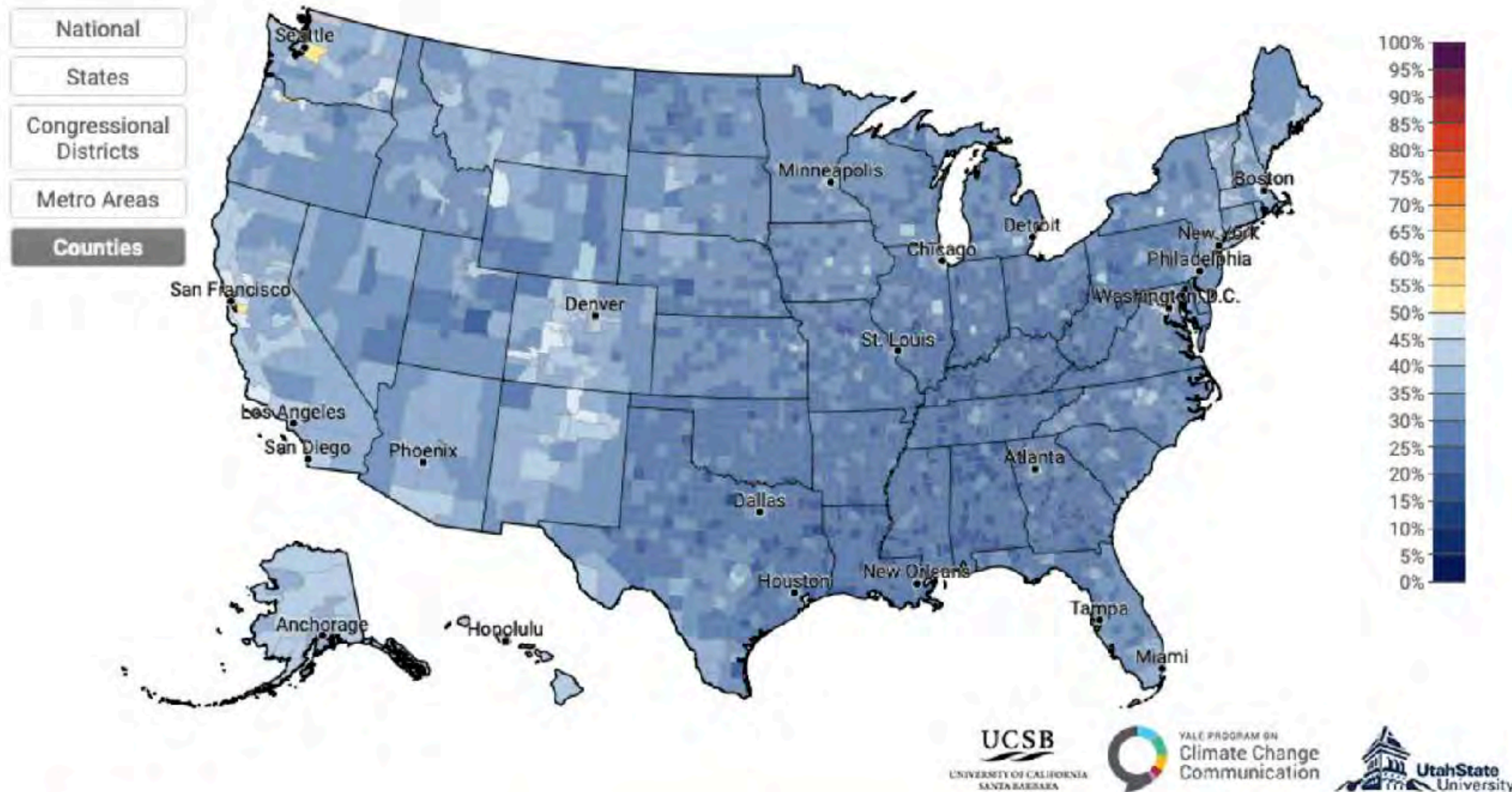
43%

47%

# Estimated % of adults who discuss global warming at least occasionally (35%), 2020

Select Question: Discuss global warming at least occasionally Absolute Value

Click on map to select geography, or: Select a State Select a County



United States


50%

35% 64%

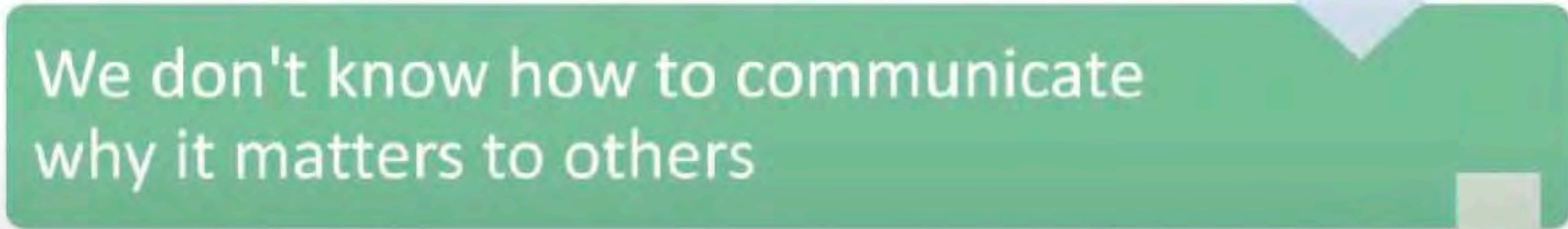
# WHY DON'T WE TALK ABOUT IT?

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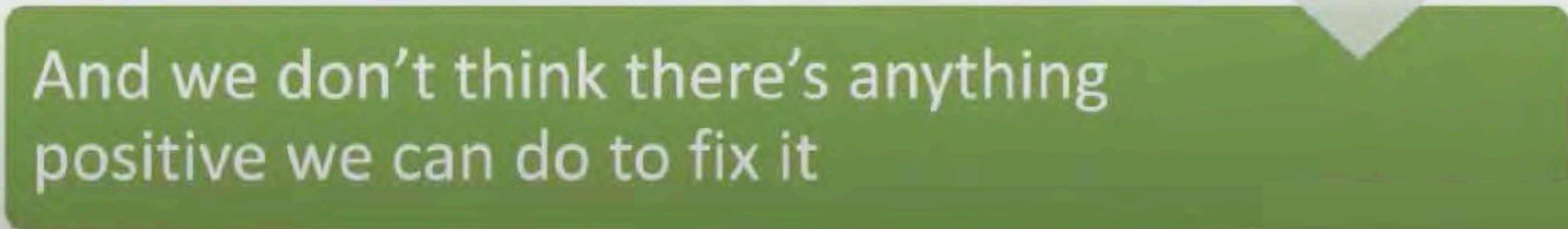
We don't think it matters to us



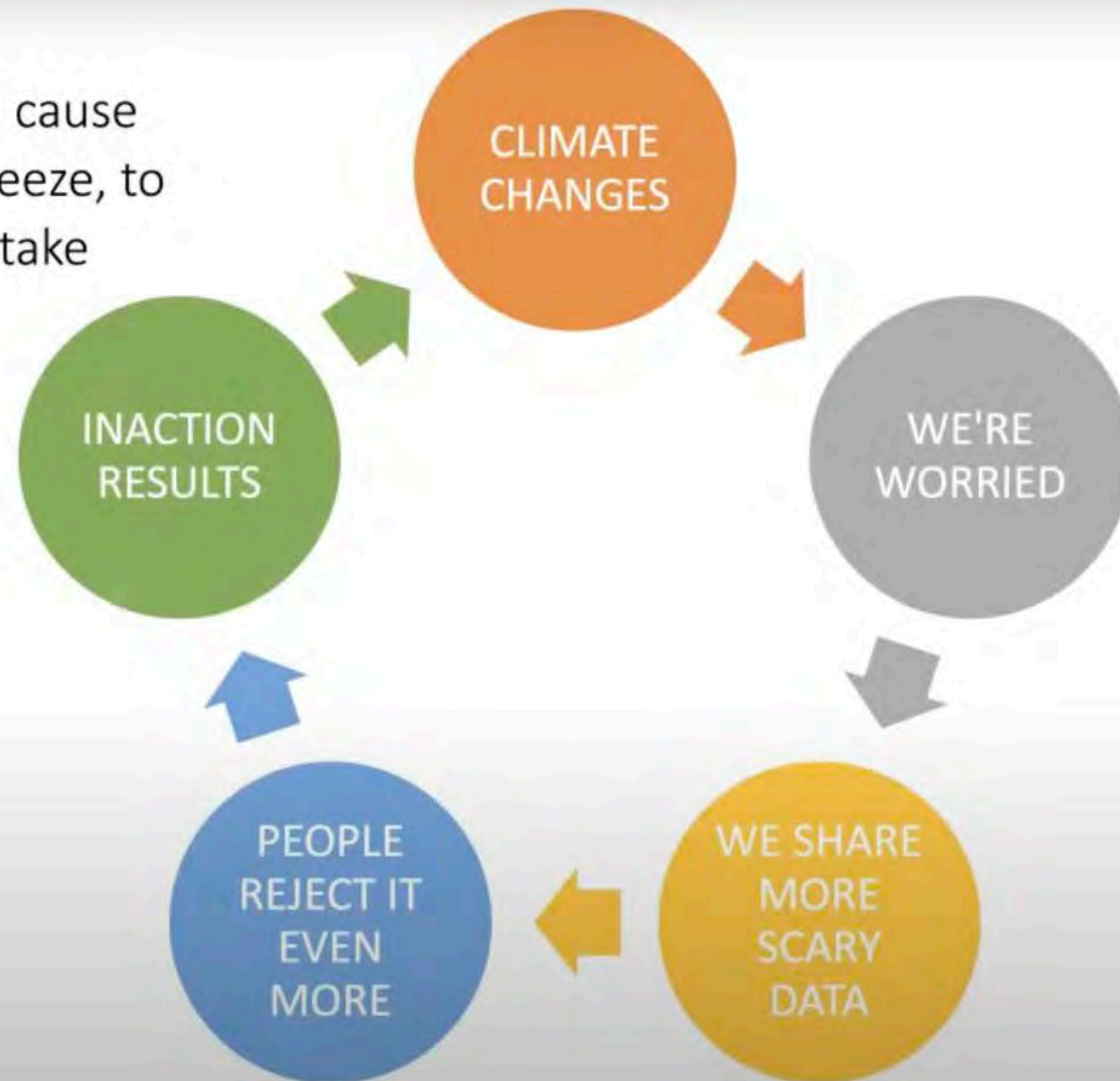
We don't know how to communicate why it matters to others



And we don't think there's anything positive we can do to fix it

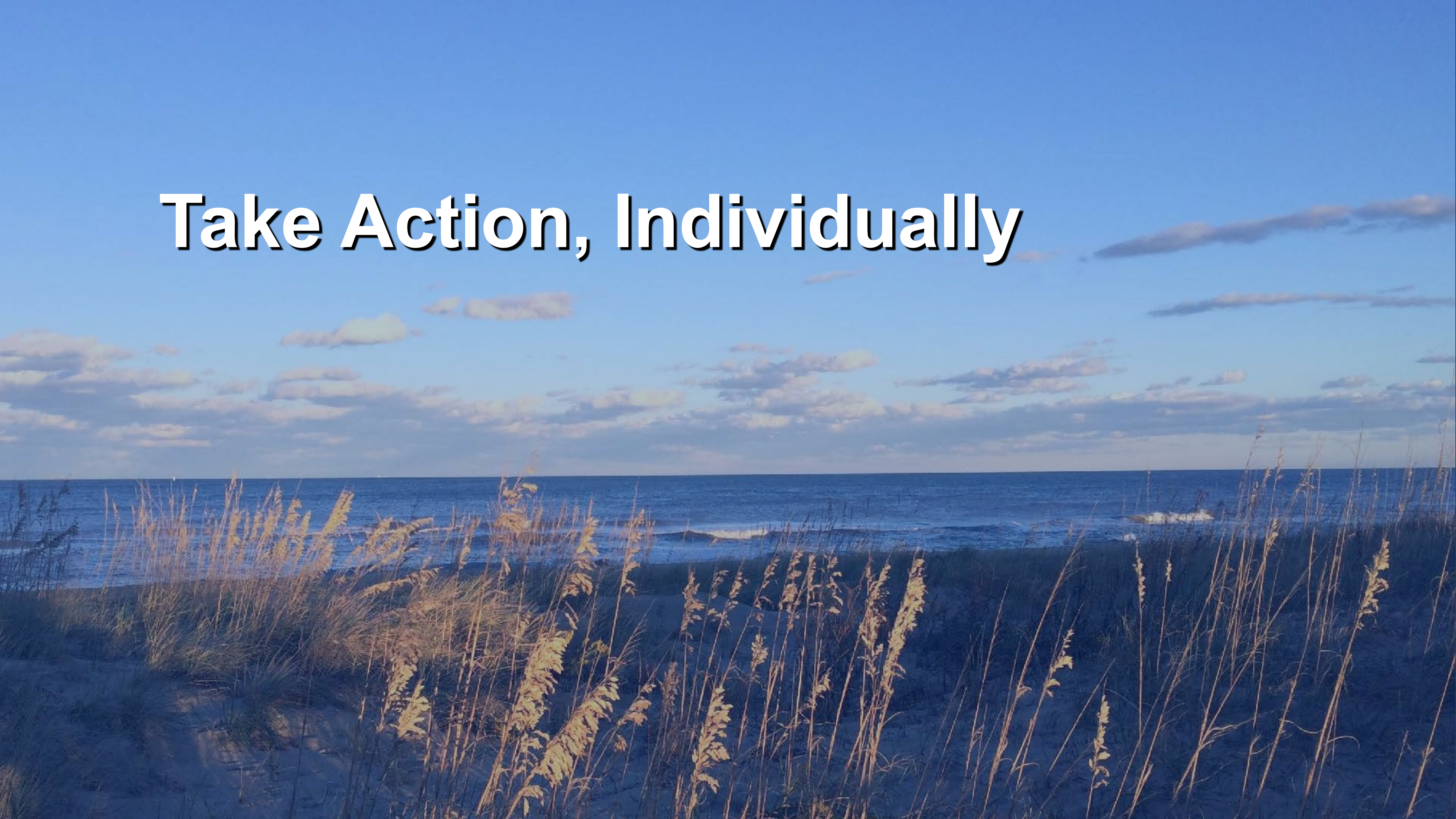


Fear and anxiety will cause us to withdraw, to freeze, to give up, rather than take action – Tali Sharot





**Take Action, Individually**



# Speak out!





# Energy Choices



# Transportation choices



# Consumer Choices



# Take Action by Working with Others



**Be  
Active!**





**The Climate  
Reality Project**

NORTHERN VIRGINIA CHAPTER

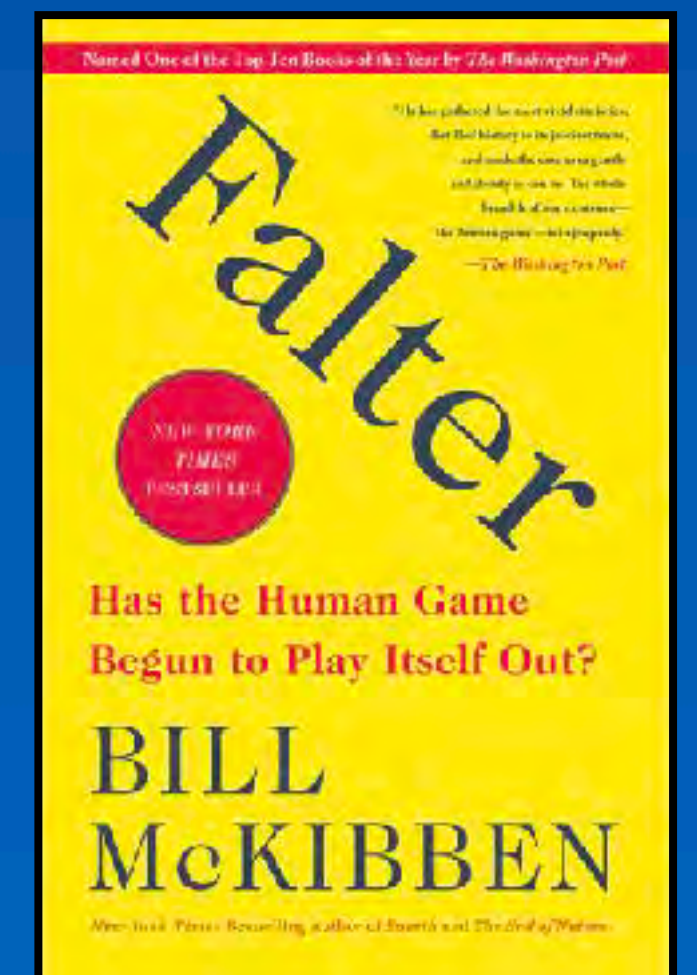
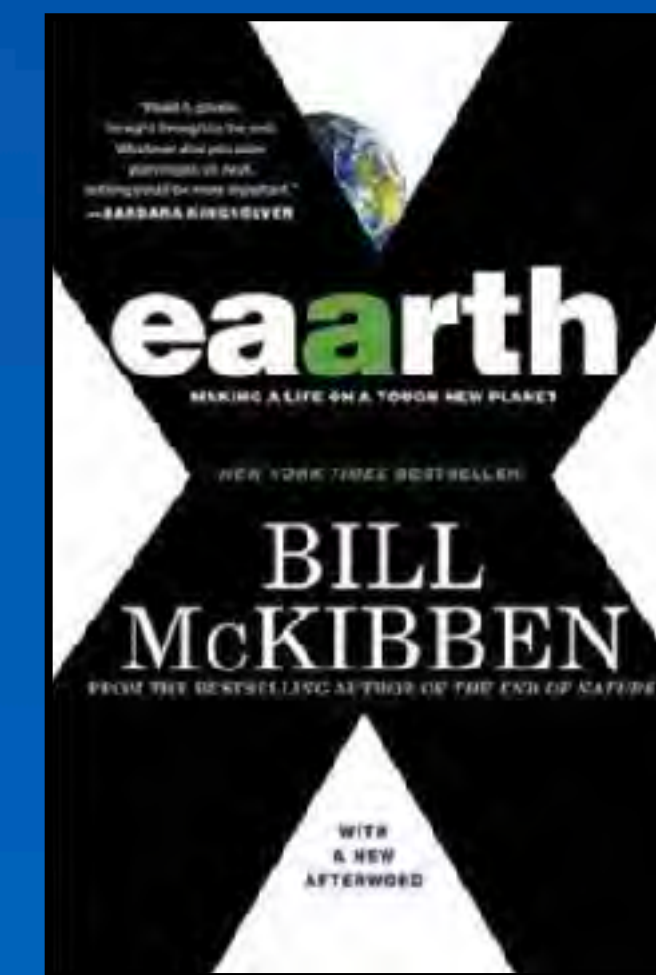
# Bill McKibben

Environmentalist, author, and journalist

Founder of climate advocacy group 350.org

Schumann Distinguished Scholar at  
Middlebury College in Vermont

Recipient of the Right Livelihood Award  
(known as the Alternative Nobel Prize)



Join our Banking on our Future pledge. [Click Here.](#)

TH!RD ACT

[Why Third Act](#) [What we do](#) [Who we are](#) [Resources](#) [Merch](#) [News](#) [Contact](#)

[Get Involved](#)

## THIRD ACT: OUR TIME IS NOW

### WHAT WE DO



### FIGHTING VOTER SUPPRESSION

The right of all Americans to vote freely and easily—enshrined in the 1965 Voting Rights Act—is under siege. We can help press for laws that will make it easy for everyone to play a robust role in our democracy. You can help us now by filling in our form.

[→ Learn More](#)



### BANKING ON OUR FUTURE

The biggest banks in the country continue to invest in fossil fuel expansion and pollution. We don't want our money used to bankroll the climate crisis. Join our Pledge and together we can get the big banks to stop financing climate destruction!

[→ Learn More](#)

The New York Times

OPINION  
GUEST ESSAY

## Call It 'Codger Power.' We're Older and Fighting for a Better America.

Feb. 7, 2022

By **Bill McKibben and Akaya Windwood**

Mr. McKibben is the founder of Third Act, helped found the climate advocacy group 350.org and is the author of the forthcoming memoir "The Flag, the Cross, and the Station Wagon." Ms. Windwood is the lead adviser of Third Act and a co-author of the forthcoming "Leading With Joy."



# Two Paths To Climate Action



# Climate and Trees



Photo by Paul Summers on Unsplash

# Benefits of Trees

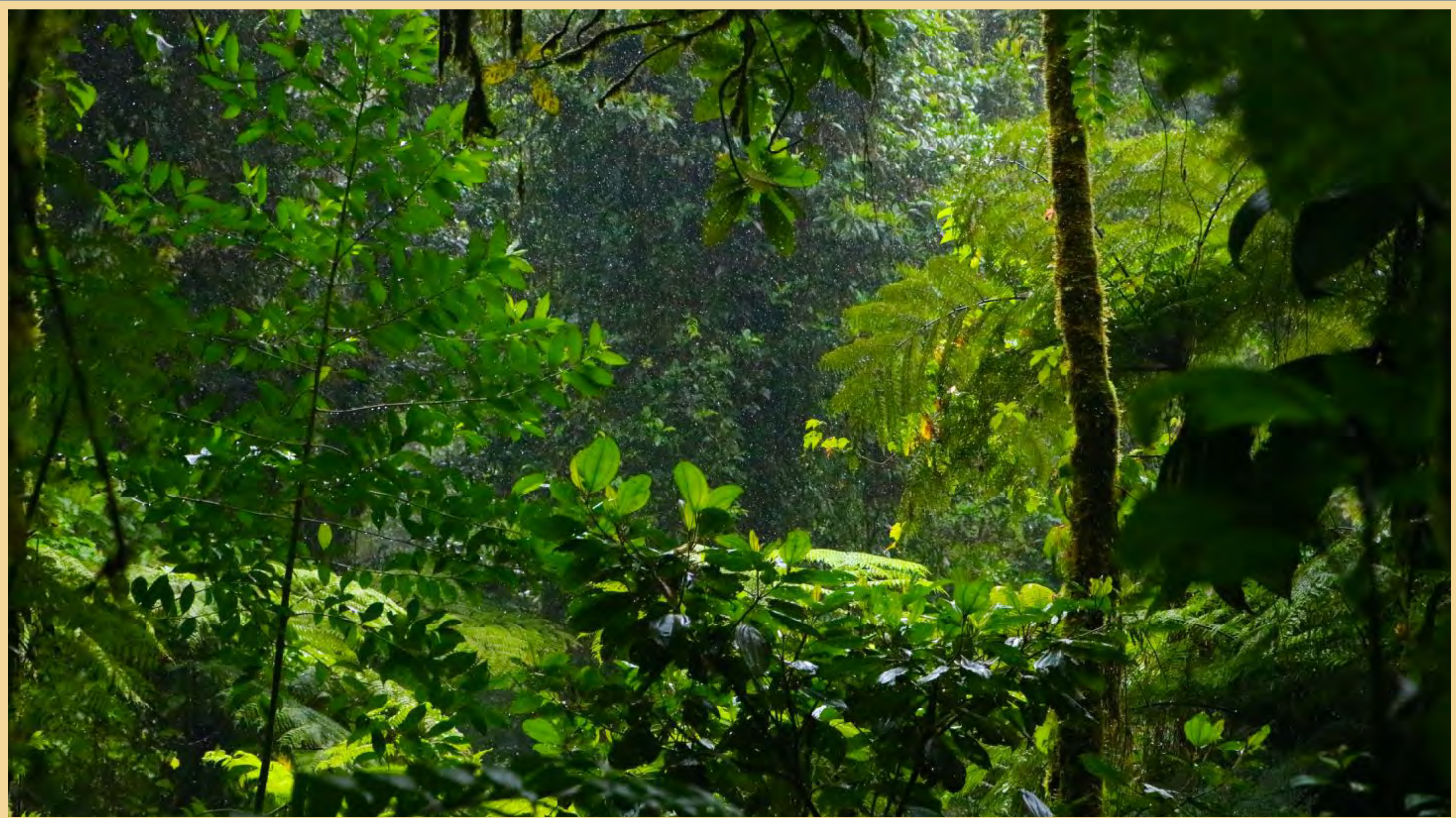


Photo by Marcel Christen on Unsplash

# Our Urban Forest



Photo by CHUTERSNAP on Unsplash

# Climate Benefits

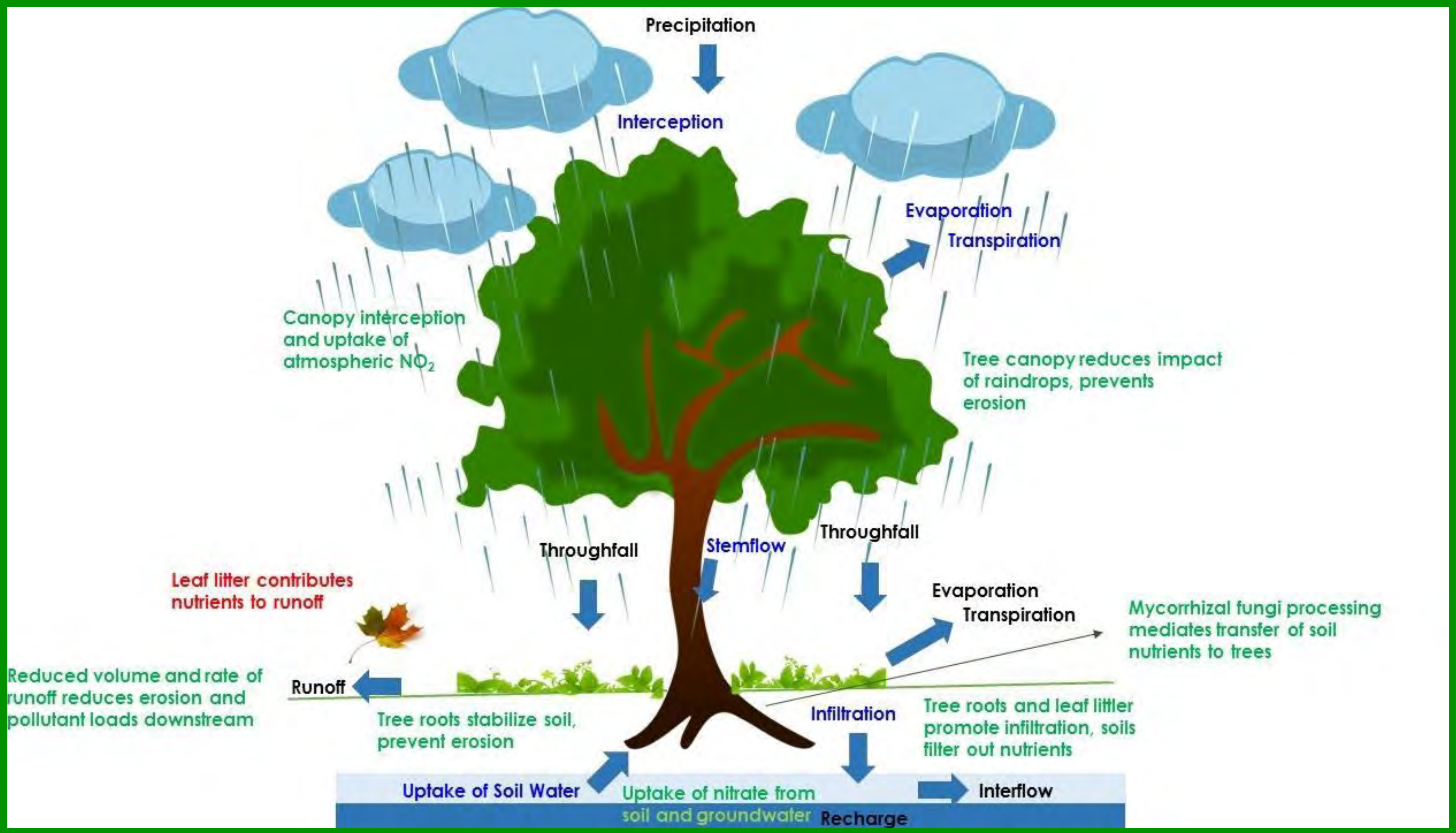
- Sequester carbon
- Shade for cooler summers and wind protection in the winters
- Store water after storms, slowing stormwater runoff

<https://gicinc.org/book.htm> Green Infrastructure Center

<https://www.cwp.org> Center for Watershed Protection

<https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions>





# Economic Benefits

- Lower utility costs annually
- Higher property values
- More profitable business
- Shaded pavement lasts longer

[GreenInfrastructureCenter.org](https://www.GreenInfrastructureCenter.org)

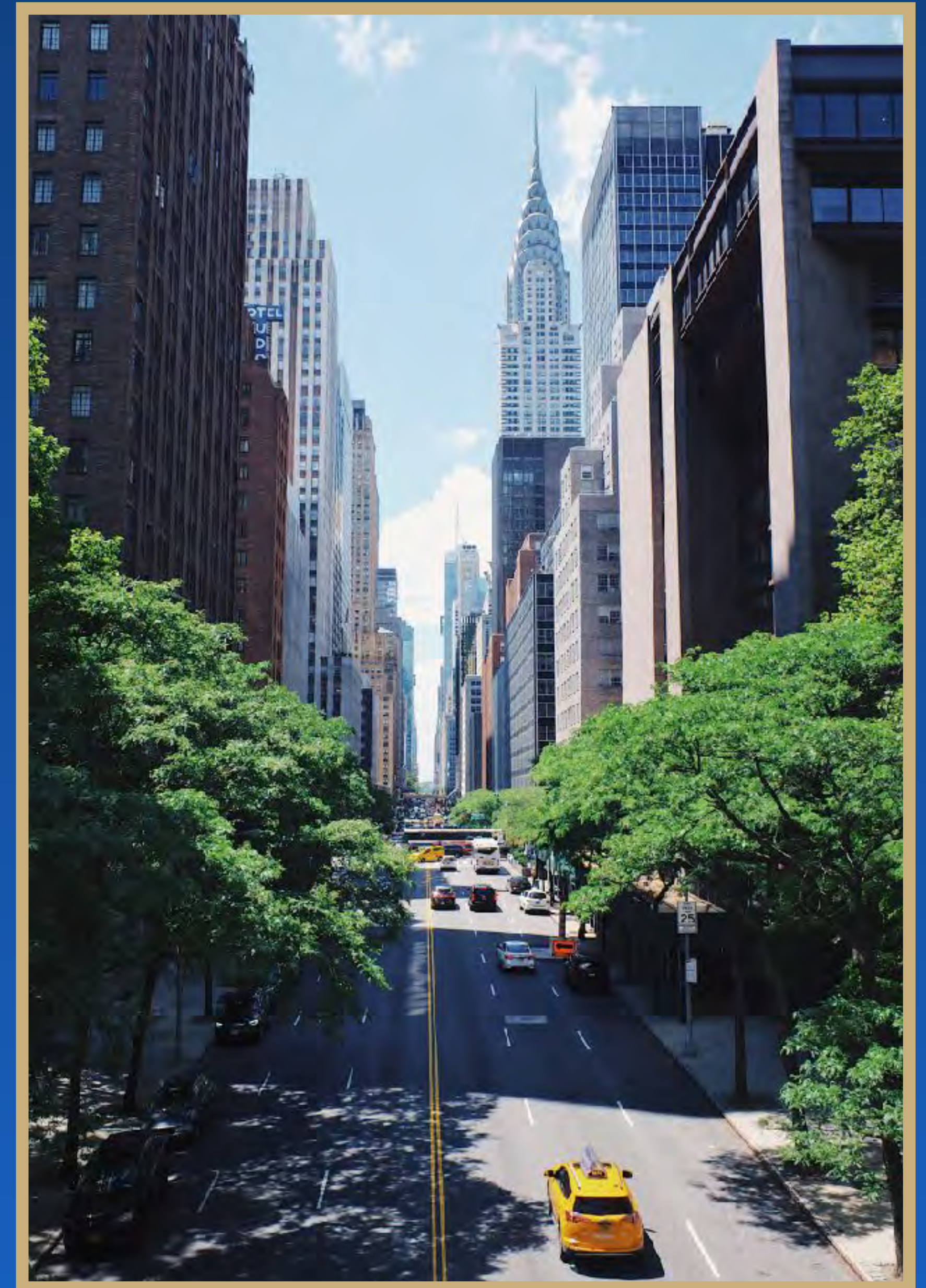


Photo by Robert Bye on Unsplash

# Social & Health Benefits

- Reduce crime
- Reduce childhood asthma
- Increase human activity
- Absorb particulate matter
- Reduce heat stress illnesses
- Promote spiritual reflection and calm





# Deforestation




# Pests



Photo by Dilyara Garifullina on Unsplash

**GONE IN A GENERATION**

See more stories 

# Gone in a Generation: WaPo 2019

<https://www.washingtonpost.com/graphics/2019/national/gone-in-a-generation/>

# Logging

Industry takes 900 million trees a year; replants 2.5 billion.  
<https://daneson.com/pages/reforestation>

Forests cover 1/3 of US land  
<https://www.fs.usda.gov/science-technology/energy-forest-products>



Photo by Sebastian Kurpiel on Unsplash

# Wildfires

**1/2/21–9/19/21 =  
45,000+ wildfires in  
the U.S., 5.7 million  
acres burned**

<https://www.nifc.gov>

National Interagency Fire Center



Photo by Raoul Cross on [Unsplash](#)

# Wildfires Set by Humans

Burning debris, arson, campfires,  
fireworks, celebrations etc. =  
90% of all wildfires



Photo by Keenan Barber on Unsplash

# Fires set for commerce



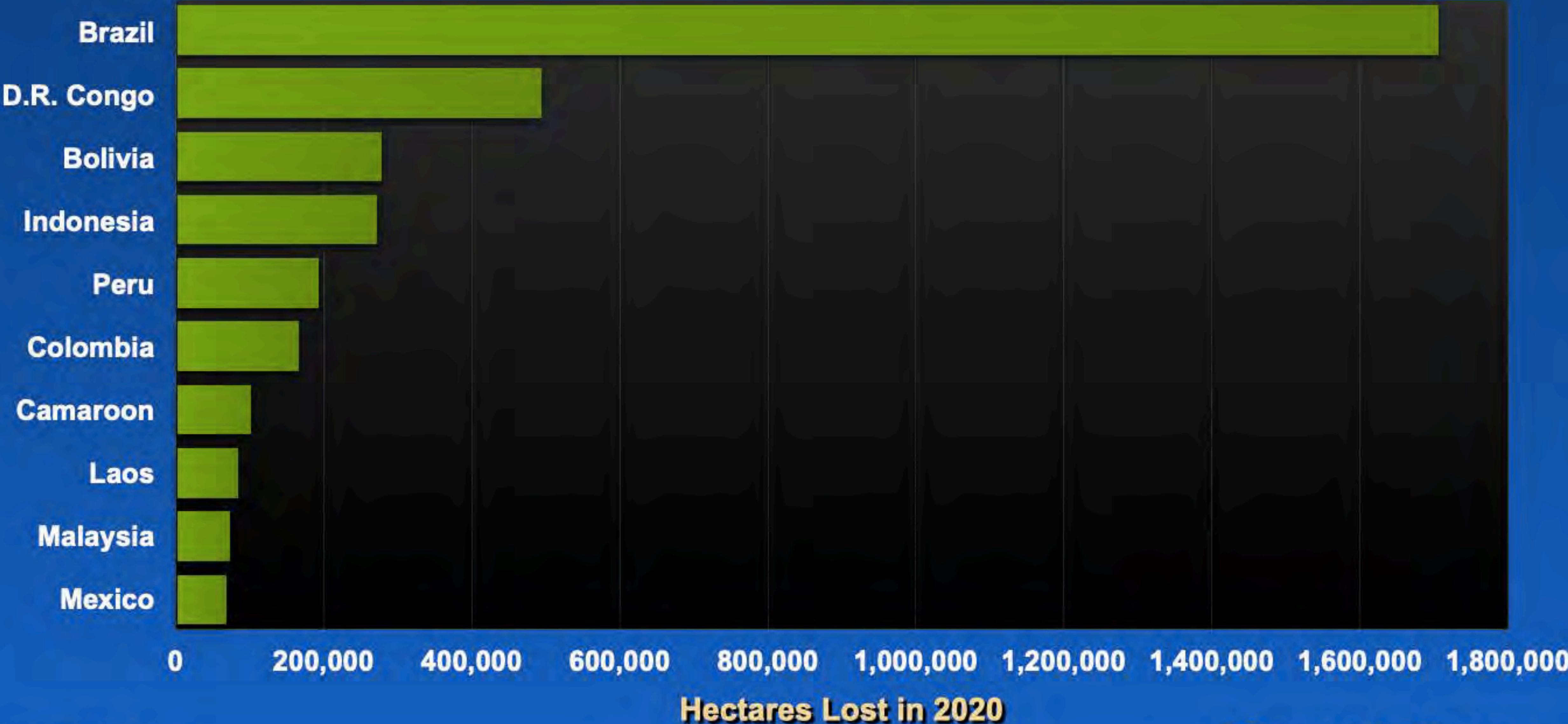
Photo by Samuel Jeronimo on Unsplash



2010 Caroline Bennett - Climate Reality

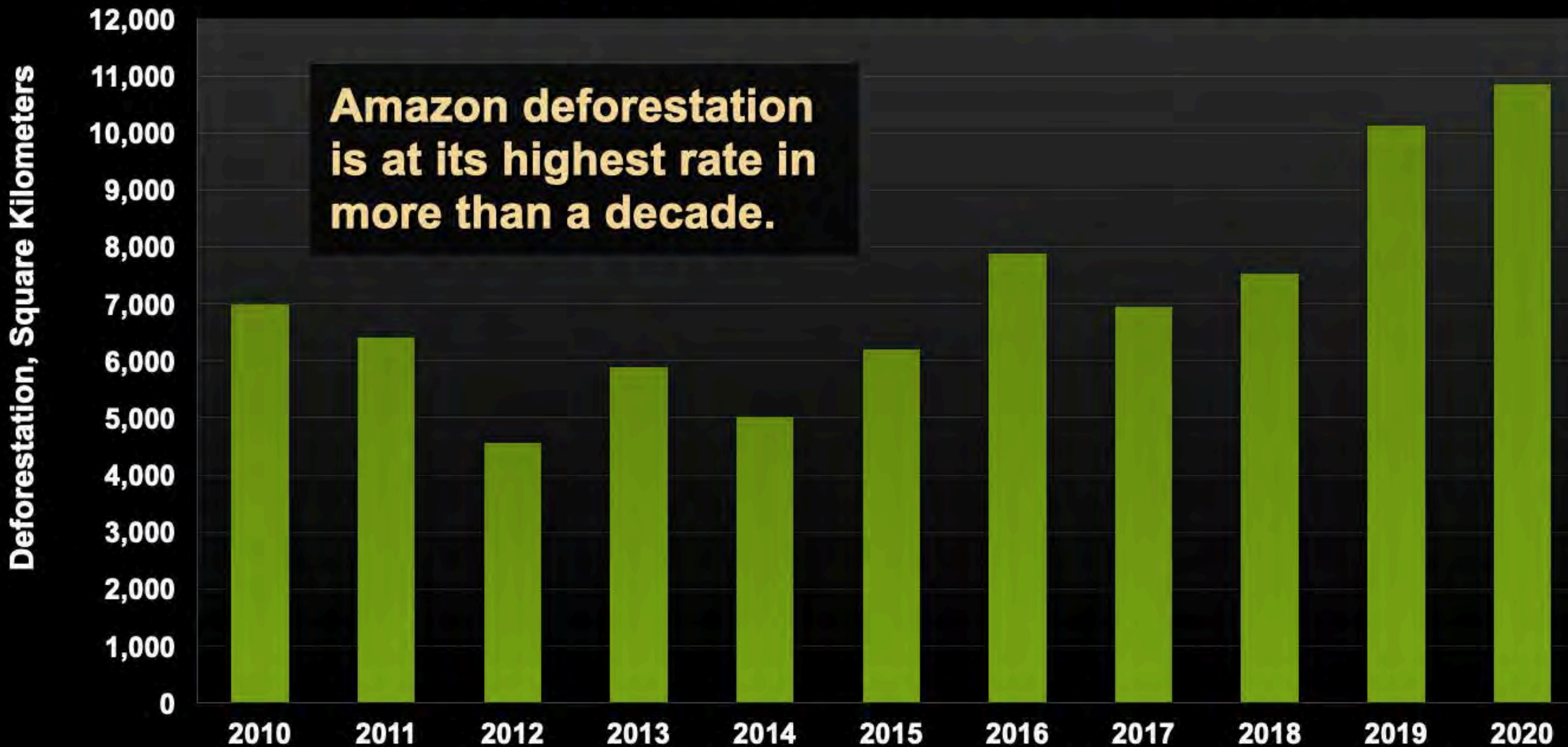


# Tree Cover Loss in 2020



Data: WRI via Axios

# Yearly Deforestation in the Amazon






**Fires in Indonesia's  
peatlands and rain forests  
released more CO<sub>2</sub> than  
the Amazon fires in 2019.**

<https://www.bloomberg.com/news/articles/2019-11-26/forest-fire-emissions-from-indonesia-worse-than-amazon-eu-says>

An aerial photograph showing a vast, dense plantation of palm trees. A long, straight dirt road runs vertically through the center of the plantation, extending from the foreground towards the horizon. The sky is blue with scattered white clouds. The overall scene illustrates the scale of palm oil production and its impact on the landscape.

<https://rainforest-rescue.org/topics/palm-oil#start>

**Palm oil production is one of the key drivers of rainforest and tropical deforestation worldwide**

A scenic landscape photograph showing a dense forest of evergreen trees in the foreground, with some trees showing autumnal colors. In the background, there are large, rugged mountains with patches of snow under a clear sky. The overall scene is bright and natural.

# Climate Emergency:

[Feedbackloopsclimate.com/forests/](https://feedbackloopsclimate.com/forests/)

# Land Use Policies





# What Can We Do?

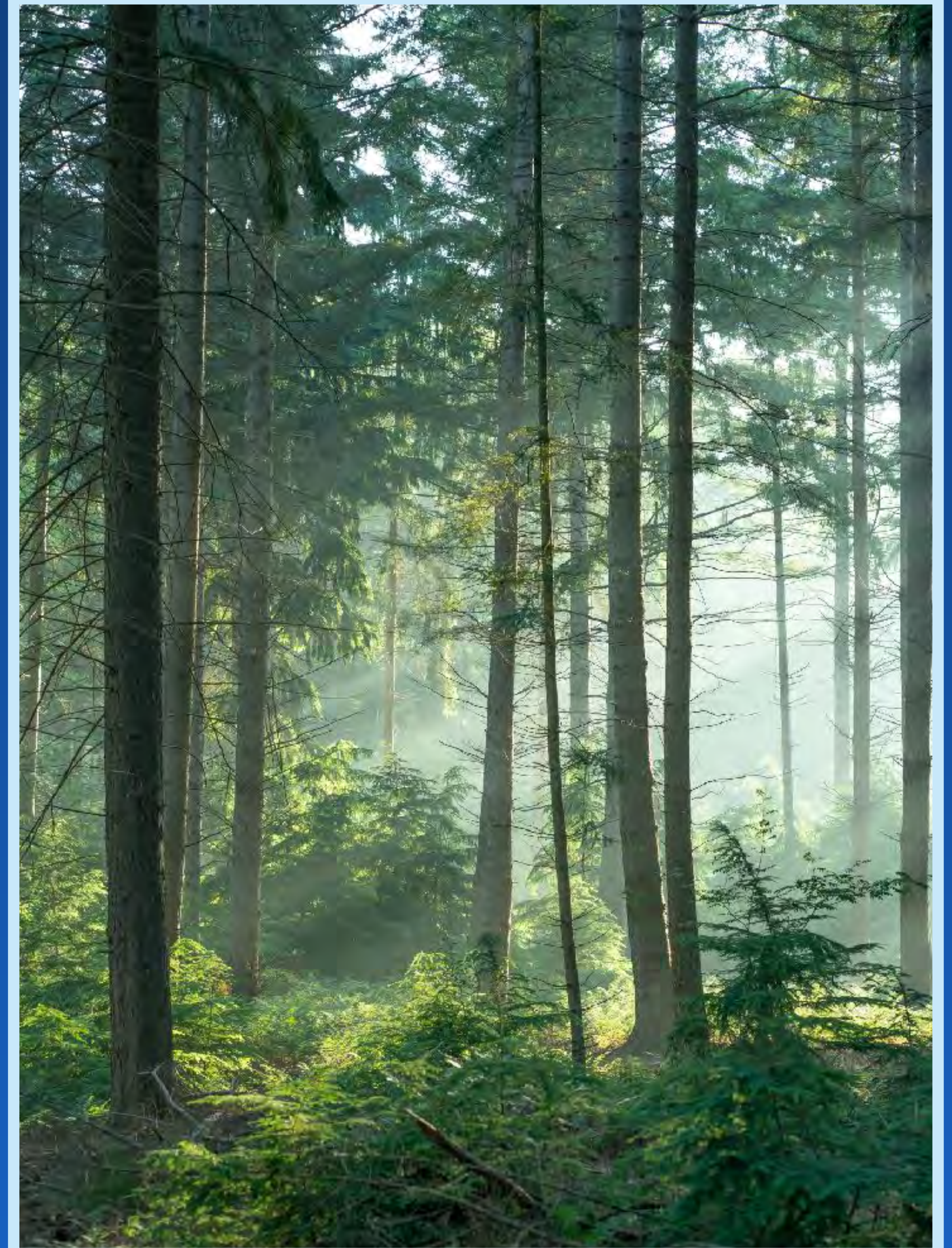


Photo by Léonard Cotte on Unsplash



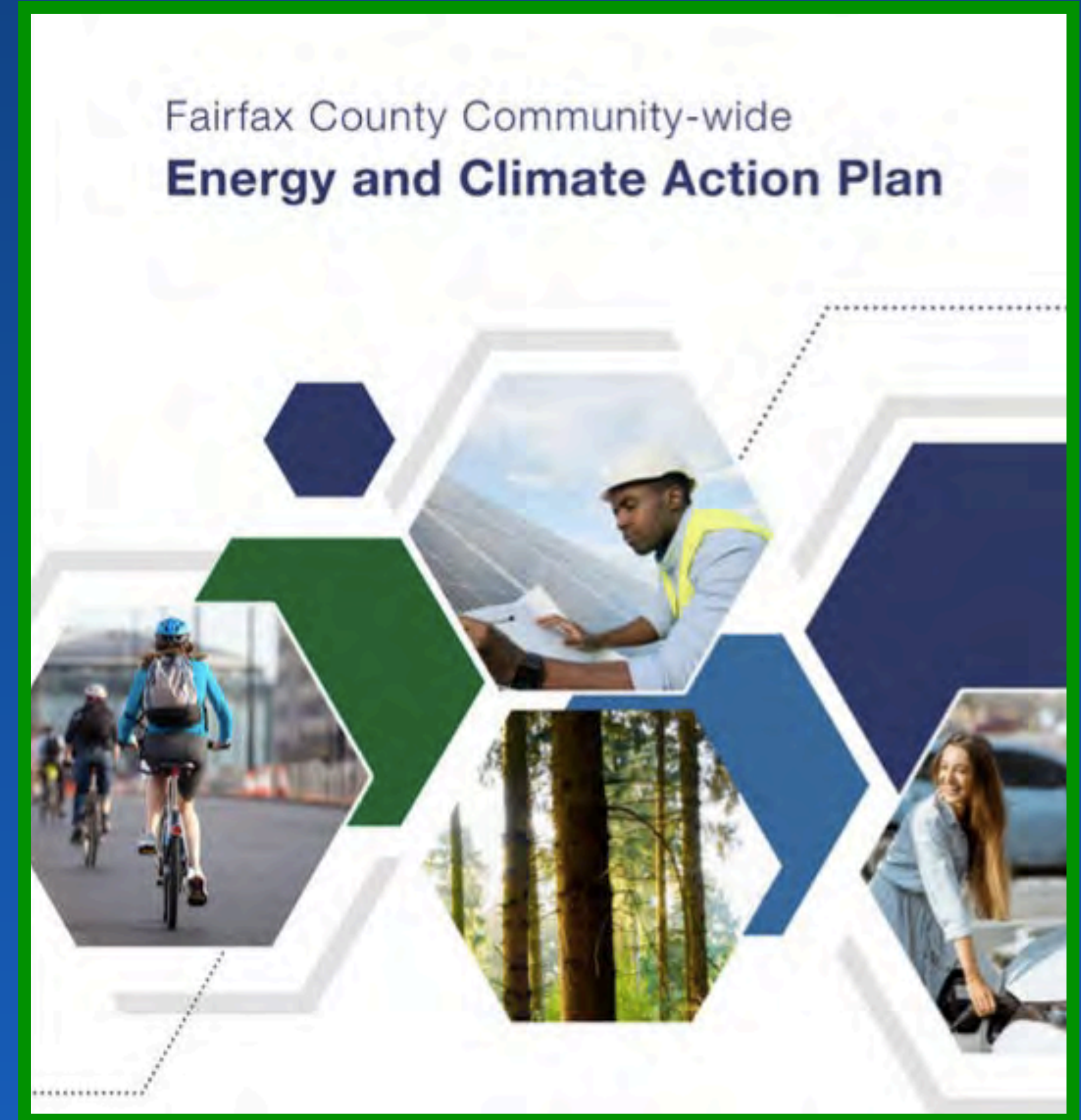
**Support  
policies  
that save trees!**

**Photo by Ingmar on Unsplash**



# Look for Opportunities!

- JET
- CECAP
- Strategic Plan
- Resilient Fairfax
- Comprehensive Plan



[CECAP report](#)

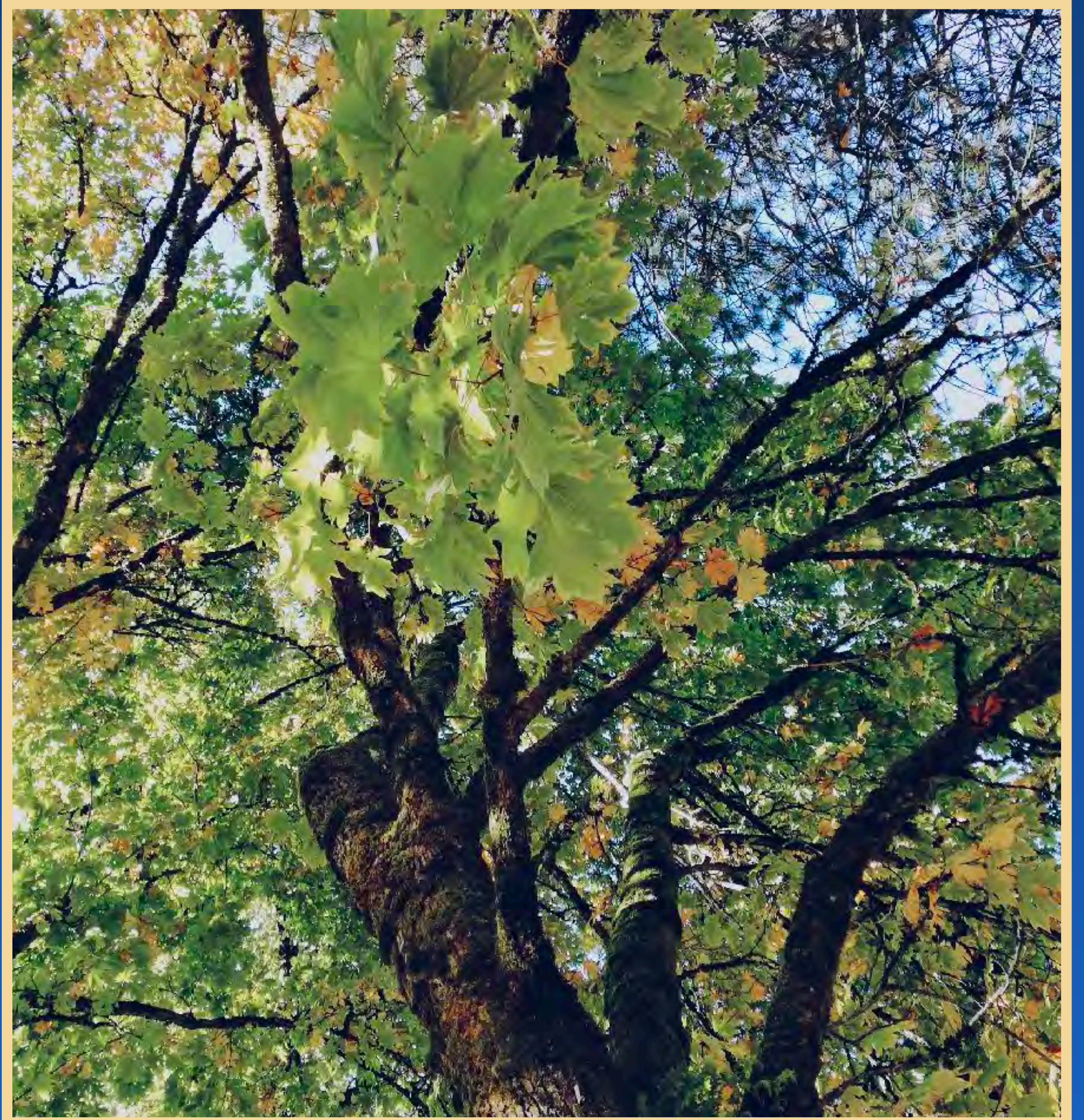
# **The Fairfax County Tree Commission**

Photo: Fairfax County website



# The Tree Action Plan With iTreetools

Photo: Fairfax County website



**Let's plant  
more trees!**

**Photo by Crema Joe on Unsplash**





# NOW IS THE TIME. THE TIME FOR TREES.

Trees provide the very necessities of life itself. They clean our air, protect our drinking water, create healthy communities, and feed the human soul. But these life necessities are threatened around the globe.

To address this, we're launching an unprecedented undertaking: the *Time for Trees* initiative. Together, we can create change ... through trees.

## Arbor Day Foundation

*Climate Reality 2021*

**In January 2020, the  
World Economic Forum  
launched a global  
initiative to plant  
1 trillion trees.**

Photo © 2019 Phil Walter/Getty Images

*Auckland, New Zealand*





# Friends of Holmes Run

Connecting neighbors to nature.

Phone and info at: [https://sites.google.com/  
view/friends-of-holmes-run/home](https://sites.google.com/view/friends-of-holmes-run/home)



# Plant NoVaNatives and Plant NoVa Trees

<https://www.plantnovanatives.org>

<https://www.plantnovatrees.org>





Greta Thunberg  
and tree initiative