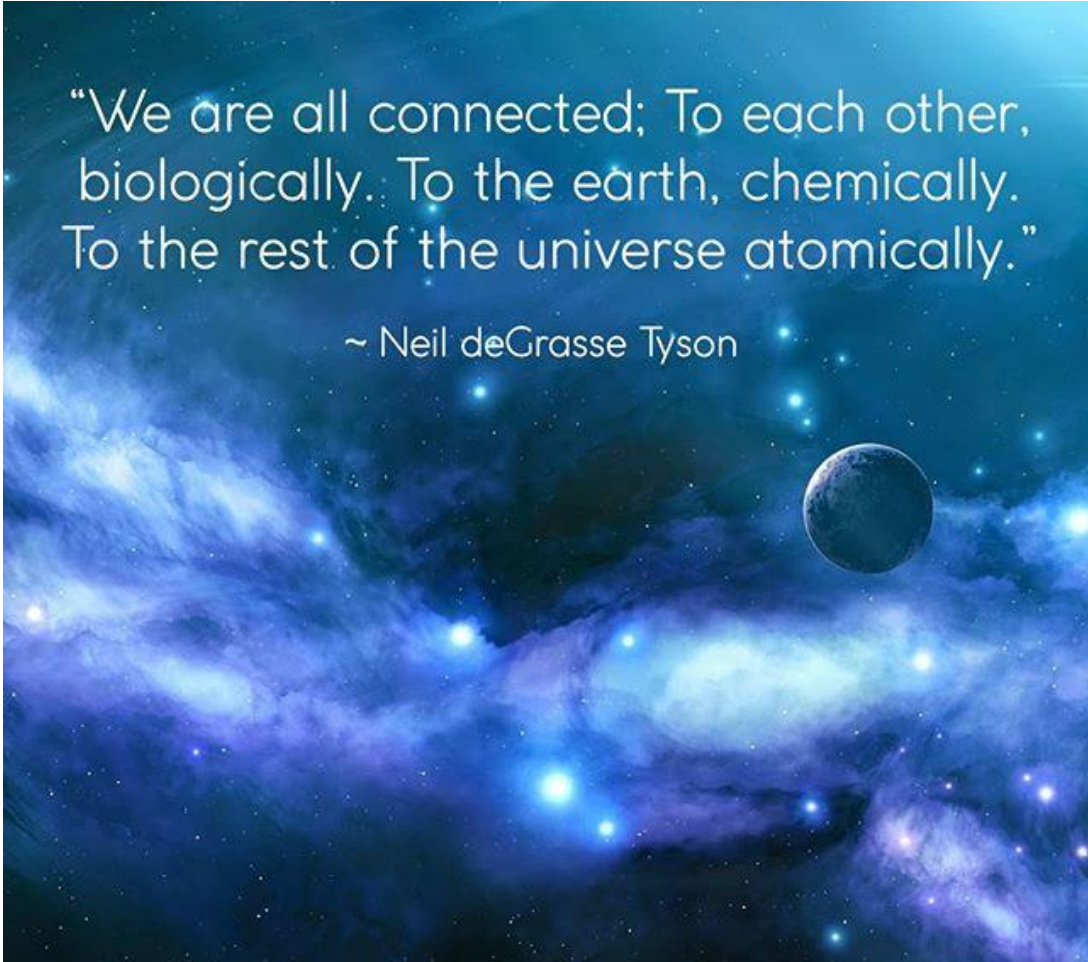


A vibrant clownfish with orange, white, and black stripes is nestled within the green, tube-like tentacles of a sea anemone. The background is a soft-focus underwater scene with blue and green hues.

# Welcome to the Webinar

We'll get started shortly!

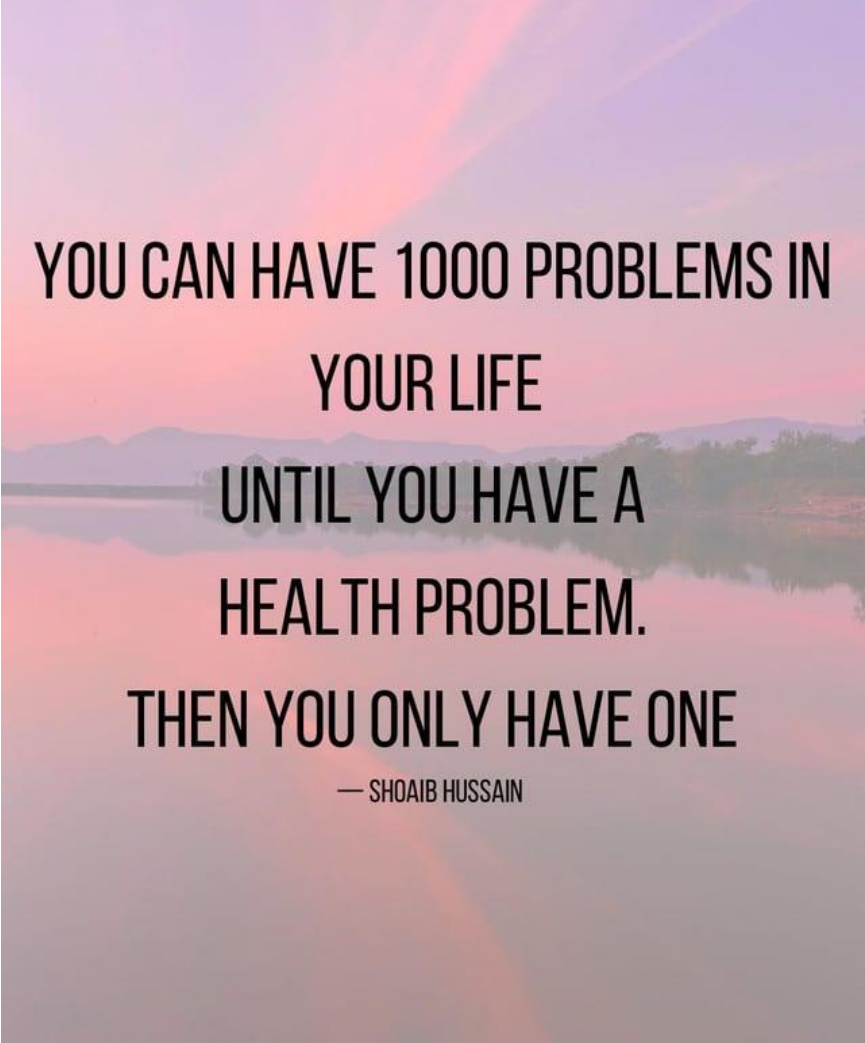


"We are all connected; To each other,  
biologically. To the earth, chemically.  
To the rest of the universe atomically."

~ Neil deGrasse Tyson

# Welcome to the Webinar

We'll get started shortly!



YOU CAN HAVE 1000 PROBLEMS IN  
YOUR LIFE  
UNTIL YOU HAVE A  
HEALTH PROBLEM.  
THEN YOU ONLY HAVE ONE

— SHOAIB HUSSAIN

# Welcome!

Please put your name,  
organization, and  
where you're zooming  
in from in the chat!

# Welcome to the Webinar!

*“Human or livestock or wildlife health can't be discussed in isolation anymore. There is just one health. And the solutions require everyone working together on all the different levels”*

*--William Karesh, The Washington Post*

Please put your name and where you're zooming in from in the chat!



**One Health is an integrated, unifying approach that aims to sustainably balance and optimize the health of people, animals and ecosystems.**

# Welcome to the Webinar!

Please put your name and where you're zooming in from in the chat!



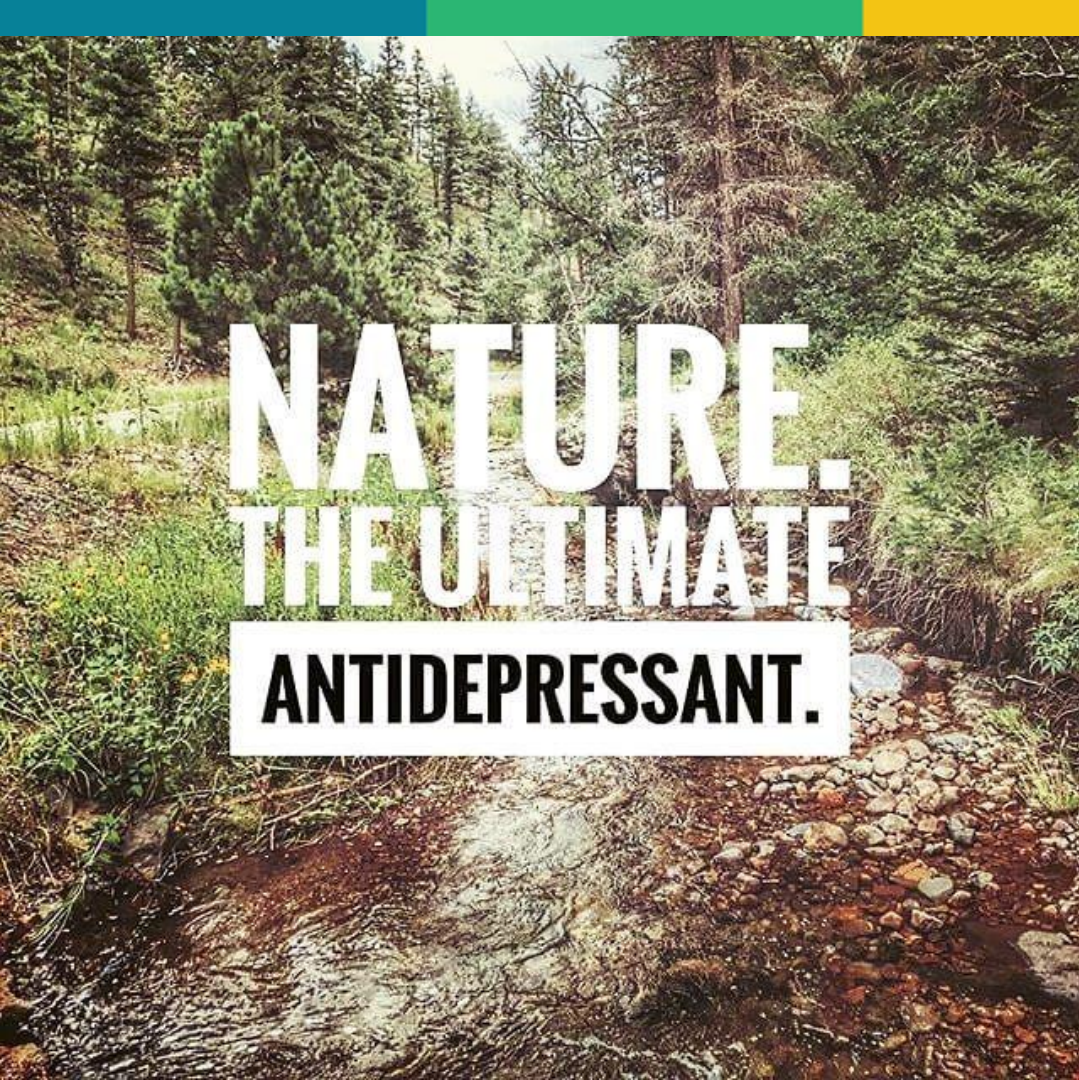
Food and Agriculture  
Organization of the  
United Nations



World Health  
Organization



World Organisation  
for Animal Health  
Founded as OIE



**NATURE.**  
**THE ULTIMATE**  
**ANTIDEPRESSANT.**

# Welcome to the Webinar!

Please put your  
name and where  
you're zooming in  
from in the chat!



Welcome to Today's Webinar!



# *One Health in Action*

Connecting Nature, Community, and Well-Being



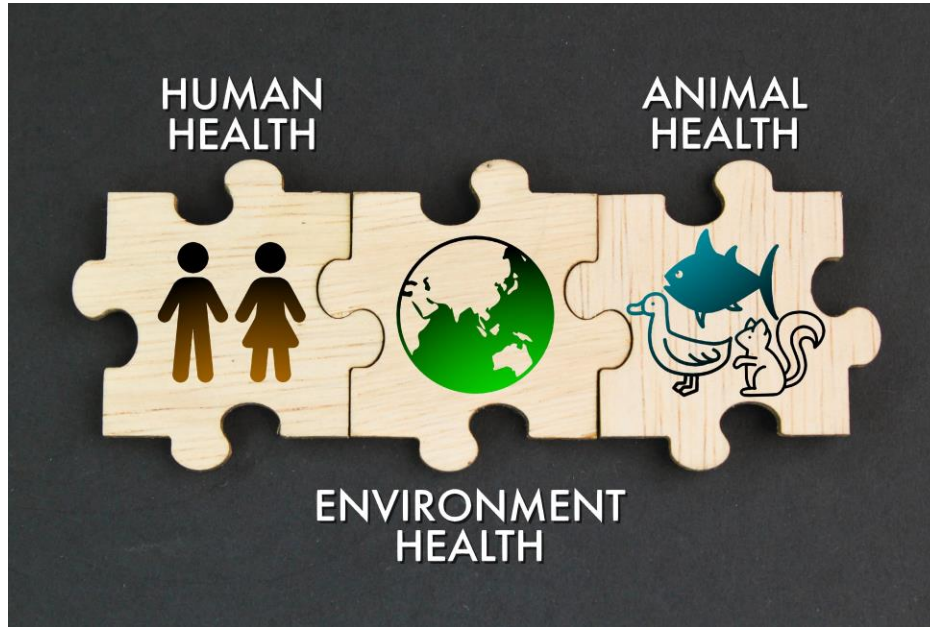
*July 29, 4:00-5:00 PM ET*



[bit.ly/OneHealthConnectingNature](https://bit.ly/OneHealthConnectingNature)



**Today is all about the One Health Movement and what it means for all of us working in education.**



Focus on  
Interdisciplinary  
Education and  
Sustainability!





# How do we better understand the health connections: human health, ecosystem health, and animal/wildlife health?



**Does anyone know when the term  
“One Health” was first coined?  
(put your answers in the chat)**

*“Human or livestock or wildlife health can't be discussed in isolation anymore. There is just one health. And the solutions require everyone working together on all the different levels”  
--William Karesh, 2003, The Washington Post*



# Two Wonderful Presenters



**Roger Still**

Managing Partner  
One Health Advisors  
Former Audubon and  
Nature Conservancy  
Executive



**Jaime González**

Executive Director  
University of Houston's  
Institute for Ecological  
Resilience  
Board Chair: NAAEE

**Thanks for sending in your questions!**  
**We'll get to as many as we can!**



**NAAEE's Webinar Series:  
Bringing New Ideas and  
Insights to the Our Field  
and Beyond!**



# Thanks to our Affiliate Co-hosts!





Thanks to EPA and ee360+!

---

ee360+



- **Type questions in the chat throughout**
- **For closed captions and translated captions, click Closed Captions**
- **This webinar will be recorded and shared**



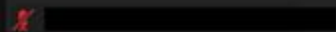
I love closed captions!



Use chat to join conversation & ask questions



For captioning and translations click “Closed Captions”



Unmute



Start Video



Participants



Chat



Share Screen



Record



Show Captions



Reactions



Apps

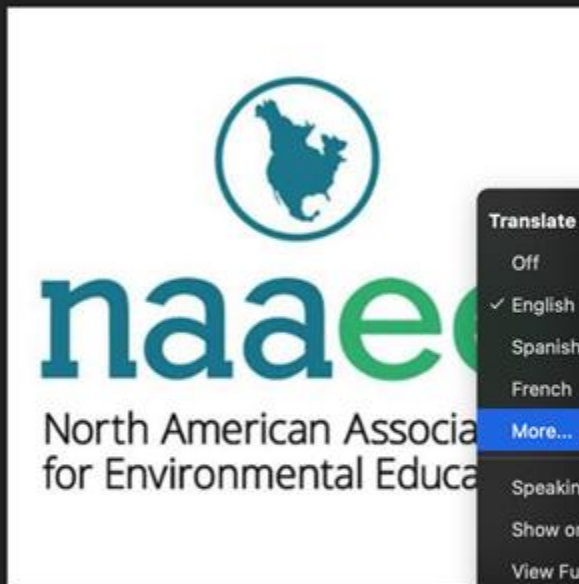


Whiteboards

Leave

A participant has enabled Closed Captioning

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Spanish  
French

More...

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Show original and translated  
View Full Transcript  
Subtitle Settings...

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Chinese (Traditional)

Czech

Dutch

✓ English

Estonian

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German

Hebrew

Hindi

Hungarian

Indonesian

Italian

Japanese

Korean

Malay

Polish

Portuguese

Romanian

Russian



fore

- Automate translated captions
- Select your preferred language (31 options!)



Participants



Chat



Share Screen



Polls/Quizzes



Record



Hide Captions



Breakout Rooms



Reactions



# Thanks, Carrie!



**Carrie Albright,**  
Senior Communications and Data Specialist

# Introducing Our Speakers!



# Our Two Speakers Today



**Roger Still**  
Managing Partner  
One Health Advisors  
Audubon and The Nature  
Conservancy Executive



**Jaime González**  
Executive Director University  
of Houston's Institute for  
Ecological Resilience  
Board Chair: NAAEE





- Roger is **Managing Partner** at One Health Advisors
- More than 25 years of experience in conservation leadership
- **Executive Director, Missouri**, The Nature Conservancy
- Was the **VP of Mississippi River Programs** at the National Audubon Society.
- Landmark initiatives such as the acquisition of the **Grand River Grasslands**, shortleaf pine restoration in the Ozarks, and the development of multiple Audubon centers.
- As a consultant, he has supported a wide range of environmental organizations and is now focused on demonstrating and **scaling One Health approaches** from his home community in Missouri.



- Jaime González, M.Ed., is an **award-winning conservationist, environmental educator, and coalition builder** working at the intersection of human and ecological health, equity, and climate resilience.
- Currently serves as **Executive Director of the University of Houston's Institute for Ecological Resilience**.
- **Board Chair** of the North American Association for Environmental Education.
- Worked for **TNC and the Student Conservation Association**.
- Has **professional credentials** from institutions like Cornell, Yale, and Duke, Jaime is deeply committed to catalyzing systems change through community-based nature initiatives.
- Sought after **speaker and creative thinker!**

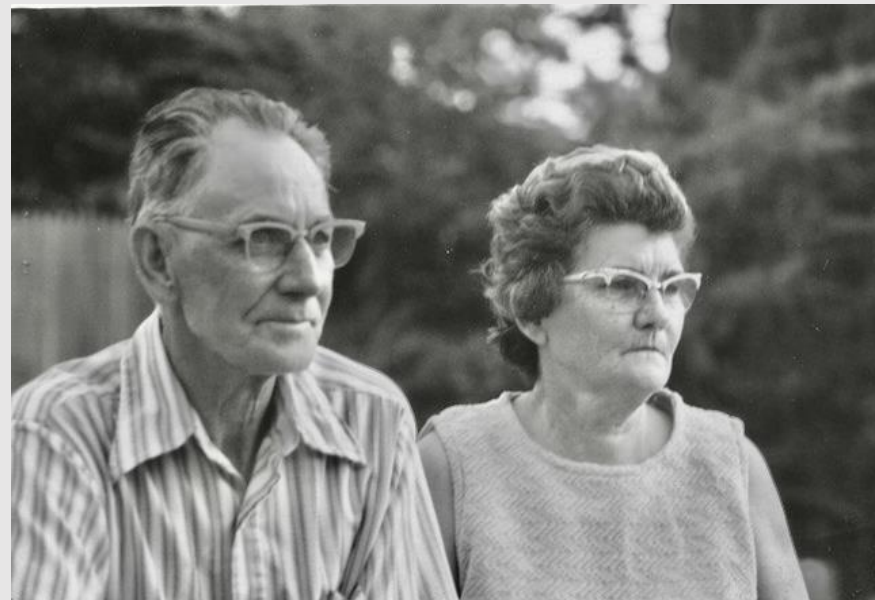


Over to you,  
Roger!











# SINCE 1970

**CHILDHOOD  
OBESITY INCREASED  
300 PERCENT**  
(FROM 1 IN 20 TO 1 IN 5)

**ONE  
HEALTH**

**3 BILLION  
BIRDS LOST**  
(1 IN 4)

**2.1 MILLION  
FARMS GONE**  
(OVER 1 IN 3)

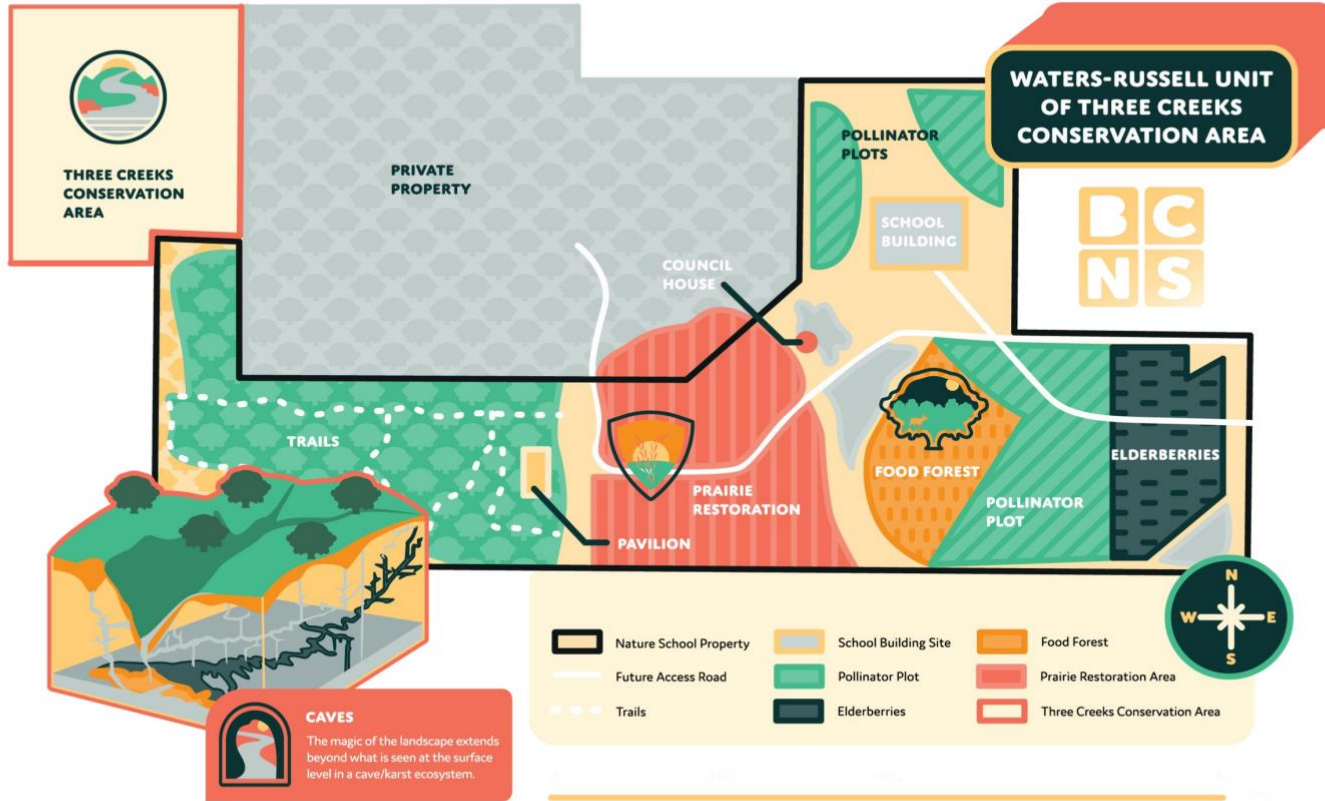
A Venn diagram with three overlapping circles. The top circle is blue and contains text about childhood obesity. The bottom-left circle is green and contains text about birds lost. The bottom-right circle is yellow and contains text about farms gone. The central area where all three circles overlap contains the text 'ONE HEALTH'.







# Boone County Nature School Campus



PHASE 1: NATURE SCHOOL CAMPUS



### DAY 1: DISCOVERING OUR PLACE

Students will arrive at BCNS and be greeted with a building and property tour, and an introduction to the daily flow and pacing of their educational experience while on site. Students will be offered opportunities to compare the BCNS campus and ecosystems to natural areas of their sending school and community, and engage in an interpretive forest hike and DNS Fishing activities.



### DAY 2: ECOSYSTEM EXPLORATION

Students will explore one of the ecosystems on BCNS property, including foodweb analysis and citizen science field work. Students will research the life cycle of monarch butterflies (a thematic element in BCNS curriculum), and identify evidence of monarch butterflies on site. With an emphasis on stewardship, students will work with their classes to initiate a sustainability project which they will complete over the course of the school year. Students will finish the day at the BCNS ponds engaging in fishing activities.



### DAY 3: CONNECTING TO OUR ROOTS

Overview: Students will visit Boone County History and Culture Center to explore the museum and associated native dwellings. Students will make additional historical connections at the Charles Green Conservation Area and Forest Hill Plantation Site. They will finish their Session 1 experience with a hike out of BCNS to Turkey Creek for educational stations about karst formations, creek history, and other natural phenomena of the area.



### DAY 4: CYCLES IN THE ECOSYSTEM

Overview: Students will return to BCNS for a late fall/winter look at the property. Their citizen science field work will continue in the BCNS ecosystems, followed by an in-depth look at Missouri's phenological happenings. With a collected subject of study, students will develop a decomposition timeline of the specimen, and explore the benefits of controlled decomposition in the garden through composting.

## DAY 5: OUR CHANGING PLANET

Overview: Students will analyze data and graphs illustrating human-caused changes to earth's climate on both local and global scales, and answer a call to action about these changes. Students will conduct a historical photograph analysis of BCNS and identify changes over the last 100 years, and enjoy a read-aloud picture book that illustrates the dangers of human impacts on the ecosystem. Students will also have the opportunity to check in with BCNS staff about their sustainability project, who will offer encouragement and suggestions for a plan to move forward.

## DAY 6: LIFE THROUGH THE SEASONS

Overview: Students will return to BCNS for the third session, and experience a final opportunity for citizen science field work. Having seen the Nature School during three different seasons of the year, students will make observations and inferences about annual changes to Missouri's ecosystems. Time will be offered for classes to make final preparations for tomorrow's presentations. Students will also take a geology hike to learn about, identify, and appreciate the area's karst topography, and be introduced to orienteering with a map and compass.

## DAY 7: AGENTS FOR CHANGE - BUILDING A BETTER PLACE

Overview: Students will present the results of their sustainability projects to stakeholders and peers, and reflect on their time at BCNS. Students will celebrate their work with field day activities and an orienteering treasure hunt on the BCNS campus.



## Sessions Calendar

- Session 1 (3 consecutive days): August 29 through November 22
- Session 2 (2 consecutive days): November 28 through February 28
- Session 3 (2 consecutive days): March 1 through May 24









## NatureScore

Determine the quality and quantity of natural elements for a location.

NatureQuant has synthesized multiple nature quantification data-sources through a machine-learning process to deliver a "NatureScore" algorithm that maximizes the health benefits of nature exposure.









He's one of the busiest men in town. While his door may say *Office Hours 2 to 4*, he's actually on call 24 hours a day.

The doctor is a scientist, a diplomat, and a friendly sympathetic human being all in one, no matter how long and hard his schedule.



*According to a recent Nationwide survey:*

## MORE DOCTORS SMOKE CAMELS THAN ANY OTHER CIGARETTE

DOCTORS in every branch of medicine—113,597 in all—were queried in this nationwide study of cigarette preference. Three leading research organizations made the survey. The gist of the query was—What cigarette do you smoke, Doctor?

*The brand named most was Camel!*

The rich, full flavor and cool mildness of Camel's superb blend of costlier tobaccos seem to have the same appeal to the smoking tastes of doctors as to millions of other smokers. If you are a Camel smoker, this preference among doctors will hardly surprise you. If you're not—well, try Camels now.



Your "T-Zone" Will Tell You...

T for Taste ...  
T for Throat ...

that's your  
proving ground  
for any cigarette.  
See if Camels  
don't suit your  
"T-Zone" to a "T."



H. J. Reardon  
Tobacco Company  
Washington, D. C.

# CAMELS

*Costlier Tobaccos*

# No wonder smokers cough.



## The tar and discharge that collects in the lungs of an average smoker.



HEALTH EDUCATION AUTHORITY



Teens & Tech

The Winston National Center on Technology Use, Brain, and Psychological Development

[ABOUT US](#) [OUR RESEARCH](#) [HANDBOOK](#) [VIDEOS](#) [RESOURCES](#) [FOR EDUCATORS](#) [MEDIA COVERAGE](#) [SUPPORT US](#)

Studying how the use of technology and social media impact teen relationships, behavior, and well-being

# STOP

LETTING SOCIAL MEDIA  
CONTROL YOUR LIFE



Children **Under 13** should not be allowed on Social Media.  
They might become a victim of **online bullying** or **become one**.





## 6 Pillars of Lifestyle Medicine

Discover evidence-based education, practice resources and a network of colleagues that support the therapeutic use of lifestyle change as the foundation of health care.



### Nutrition

Consuming a fiber-filled, nutrient-dense, antioxidant-rich eating pattern based predominantly on a variety of minimally processed vegetables, fruits, whole grains, legumes, nuts and seeds.



### Physical Activity

Engaging in regular and consistent physical activity.



### Stress Management

Incorporating stress-reducing behaviors may be difficult in modern society but is essential for whole-person health.



### Nature as Health

Spending time in nature and the outdoors has many physical and mental health benefits



### Restorative Sleep

Striving for 7-9 hours of high-quality sleep, allowing the body to reset and recover.



### Social Connection

Strengthening and maintaining relationships and connections with others that bring meaning and purpose to life.

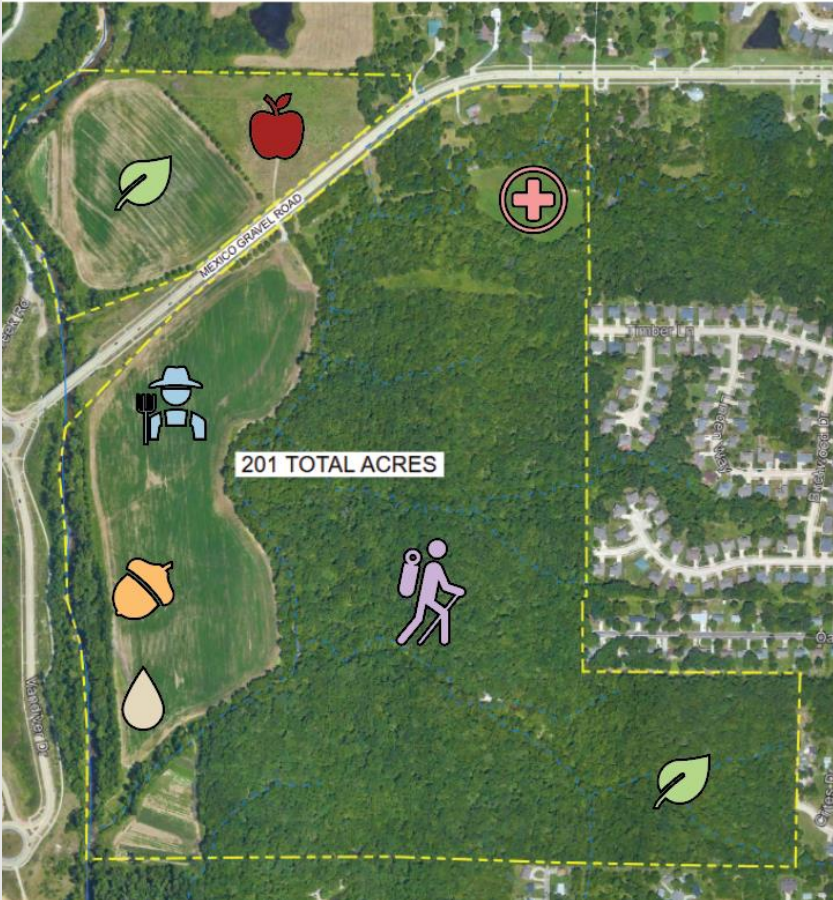


### Avoidance of Risky Substances

Reducing or eliminating the consumption of or exposure to any substances that cause harm through toxicity, addiction, physical damage, or adverse side effects.



# City of Columbia Alsapough Park Vision



## Legend

-  One Health Nature Clinic/Center
-  Agriculture Incubator Farm
-  'You Pick'
-  Walking & Hiking Trails
-  Ecological Restoration
-  Agroforestry Project
-  Wetland Restoration



# Data suggest a few potential focus areas for One Health Nature Clinic



## Mental Health

- City/county health priority
- Data indicate disparities by income
- Higher prevalence of need in neighborhoods adjacent to Alspaugh Park



## Chronic Disease

- State health priority
- Data indicate disparities by race
- Data indicate disparities by income
- Higher prevalence of need in neighborhoods adjacent to Alspaugh Park

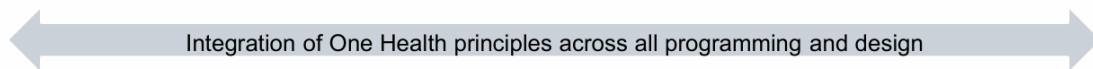


## Maternal Health

- State health priority
- Included in Medicaid MCO incentive programs
- Data indicate disparities by race
- Data indicate disparities by income



# Clinic services will integrate access to nature-based programming and local, healthy food systems



## Shared Medical Visit Programs and Services

### Lifestyle Medicine Clinic

- Behavioral therapy
- Doula care
- Exercise physiology
- Health coaching
- Nutrition education

### Nature and Wildlife

- Outdoor group fitness
- Outdoor medical visits when feasible
- NatureRx

### Local Food Systems

- Nutrition education in the garden
- Therapeutic gardening
- ProduceRx

## Complementary One Health Programs and Services

- Lifestyle health education classes

- Bird watching
- Plant identification
- Group invasive plant removal

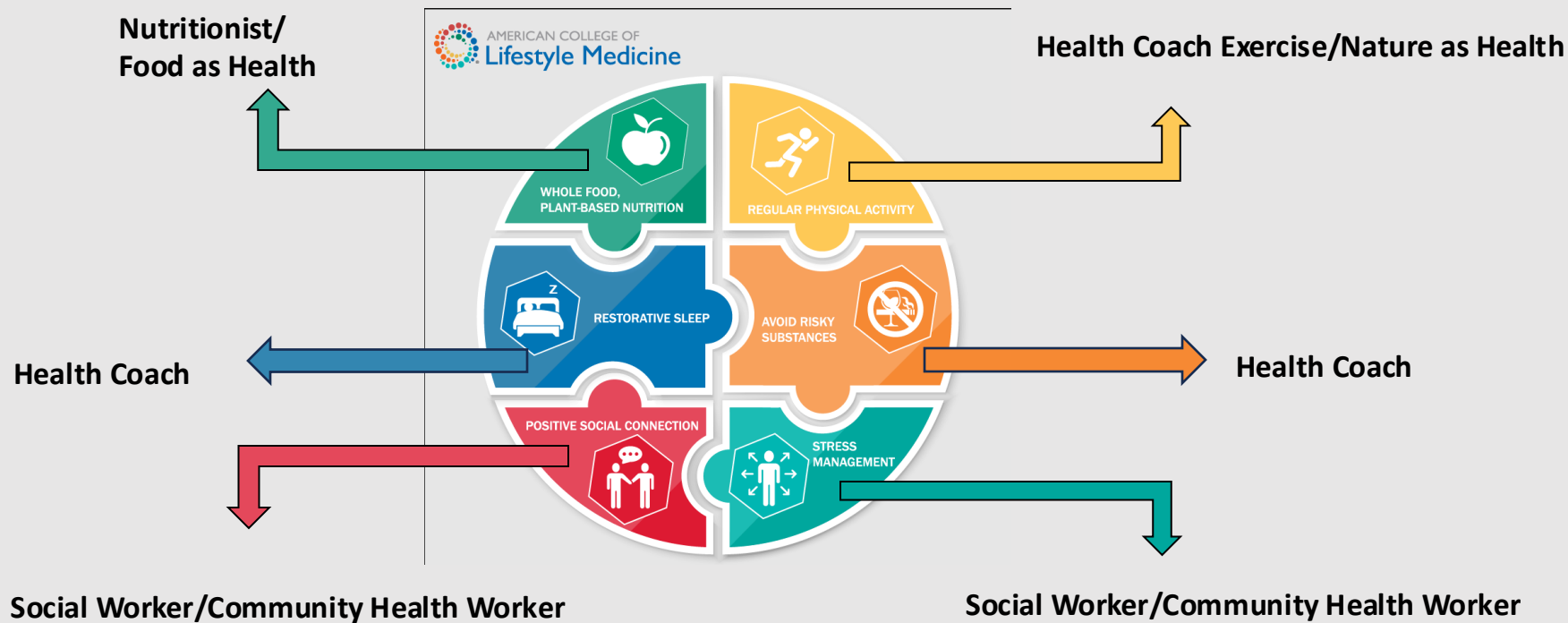
- Community garden
- Healthy eating / cooking demonstrations and education



## Complementary Infrastructure


Meditation garden; pavilions for hosting outdoor group sessions; secluded benches that allow rest and privacy; walking paths of varying distances

# From Sick Care to Healthcare: Outdoors Focused

Director: Primary Care Physician--Lifestyle Certified  
Clinical Support: Nurse Practitioner







**Roger Still** 


One Health Conservationist | Working at the intersection of nature, food, and human health in communities


Columbia, Missouri, United States · [Contact info](#)

500+ connections

[Open to](#) [Add profile section](#) [Enhance profile](#) [Resources](#)

 One Health Advisors, LLC

 University of Missouri-Columbia



# ONE HEALTH ACTION FOR HARRIS COUNTY

AN CROSS-DISPLINARY APPROACH FOR PEOPLE & PLANET

Presented by Jaime González, M.Ed.





A person is climbing a large tree in a forest, holding binoculars to their eyes. The person is wearing a green t-shirt, red shorts, and orange shoes. The tree trunk is thick and brown, and the background is filled with green foliage. The text "What if...?" is overlaid in white on the lower part of the image.

**What if...?**

# Roadmap

**What Is One Health?**



**Why Is It Different?**



**What Is Happening Now?**



# What is One Health?



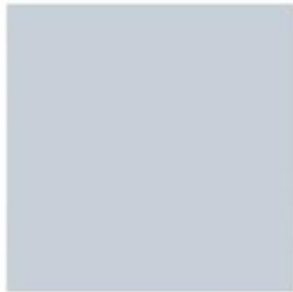




**ONE HEALTH** embraces interconnections between people, animals, plants, and their shared environment.

**One Health Actions** aim to achieve optimal health outcomes for all residents (human and wild).





**HARRIS COUNTY RESIDENTS**

MADE IN *Canva*

# Why Is It Different?



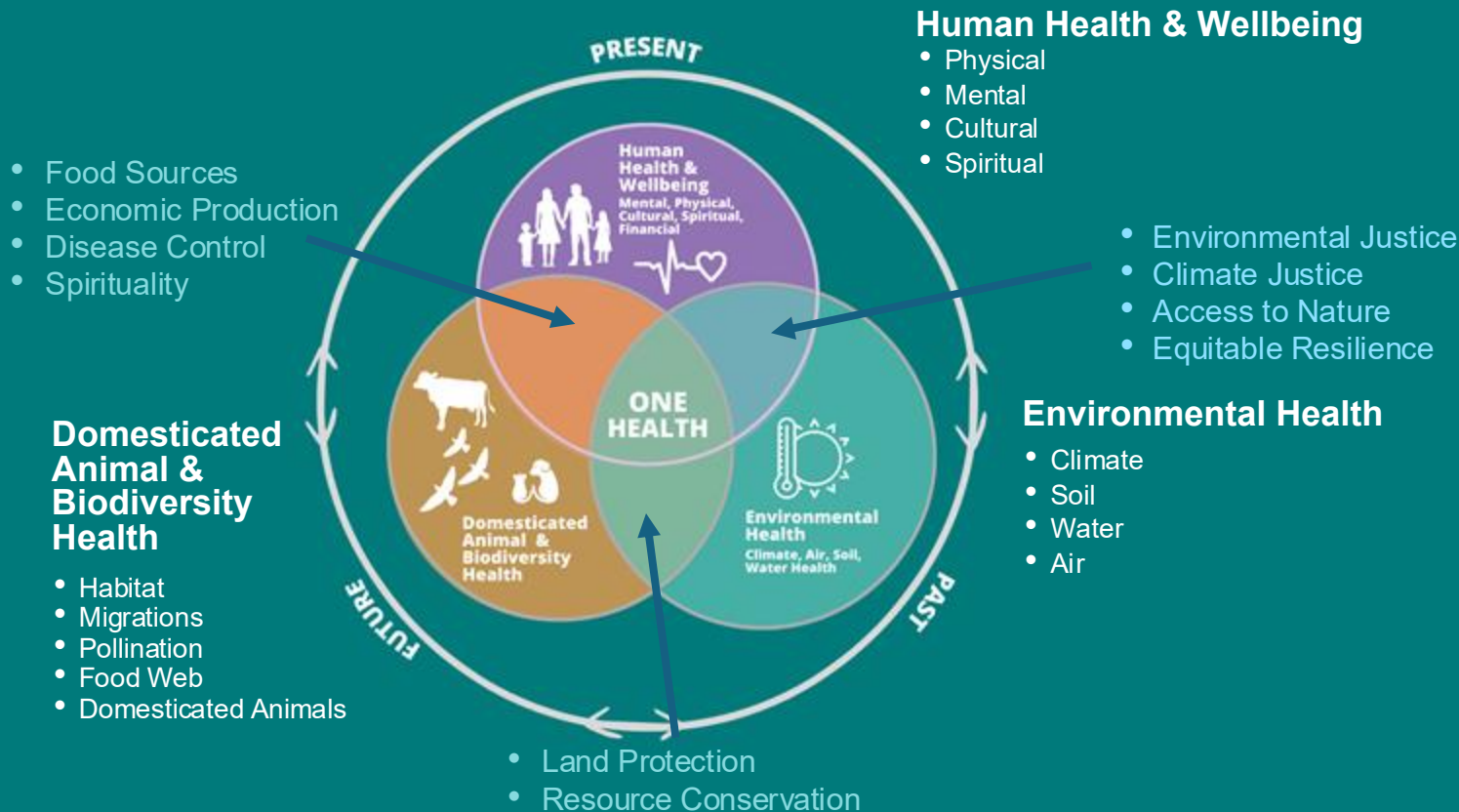


## IT IS CROSS- DISCIPLINARY IN ACTION & DIALOGUE

- Conservation
- Environmental Justice
- Climate Action
- Public Health
- Park Space Advocacy
- Indigenous
- Communities
- Faith Communities



# One Health Framework attends to each component while building essential **connections** for additive and synergistic **outcomes**



Home > Learn > Climate Change > AlaskaX: One Health: A Ten-Thousand-Year-Old View into the Future



# AlaskaX: One Health: A Ten-Thousand-Year-Old View into the Future

Learn to see the connections between human, animal, and environmental. Understanding these connections allows us to approach challenges in a holistic and constructionist approach and address problems at their root causes rather than treating their outcomes.



**4 weeks**

4–6 hours per week



**Self-paced**

Progress at your own speed



**Free**

Optional upgrade available

# SOME KEY PLAYERS



**Cullen Geiselman,**  
Ph.D.

Conservation &  
Health Leader



**Carolyn White, CERP,**  
CPESC, ENV-SP

Harris County Public  
Health



**Isabelle Asakura,**

Asakura Robinson



**Arleigh Reynolds,**  
DVM

University of Alaska  
Fairbanks Center for One  
Health Research



**Ryan Bare, Ph.D.,**  
CAPM

Houston Advanced  
Research Center (HARC)



**Jaime González,**  
NAAEE &  
Conservation  
Consultant



**Andrew Knuppel,**  
AICP, CFM

Asakura Robinson





HOUSTON

CONSERVATION

MOONSHOT

2030  
Case  
for  
Action



# ONE HEALTH MEETS THE EXPOSOME

Human, Wildlife, and Ecosystem Health



Mary Ann Ottinger  
Cullen Geiselman





## Where?

- Project
- Planning
- Policy
- Funding
- Communication
- Evaluation
- Action!

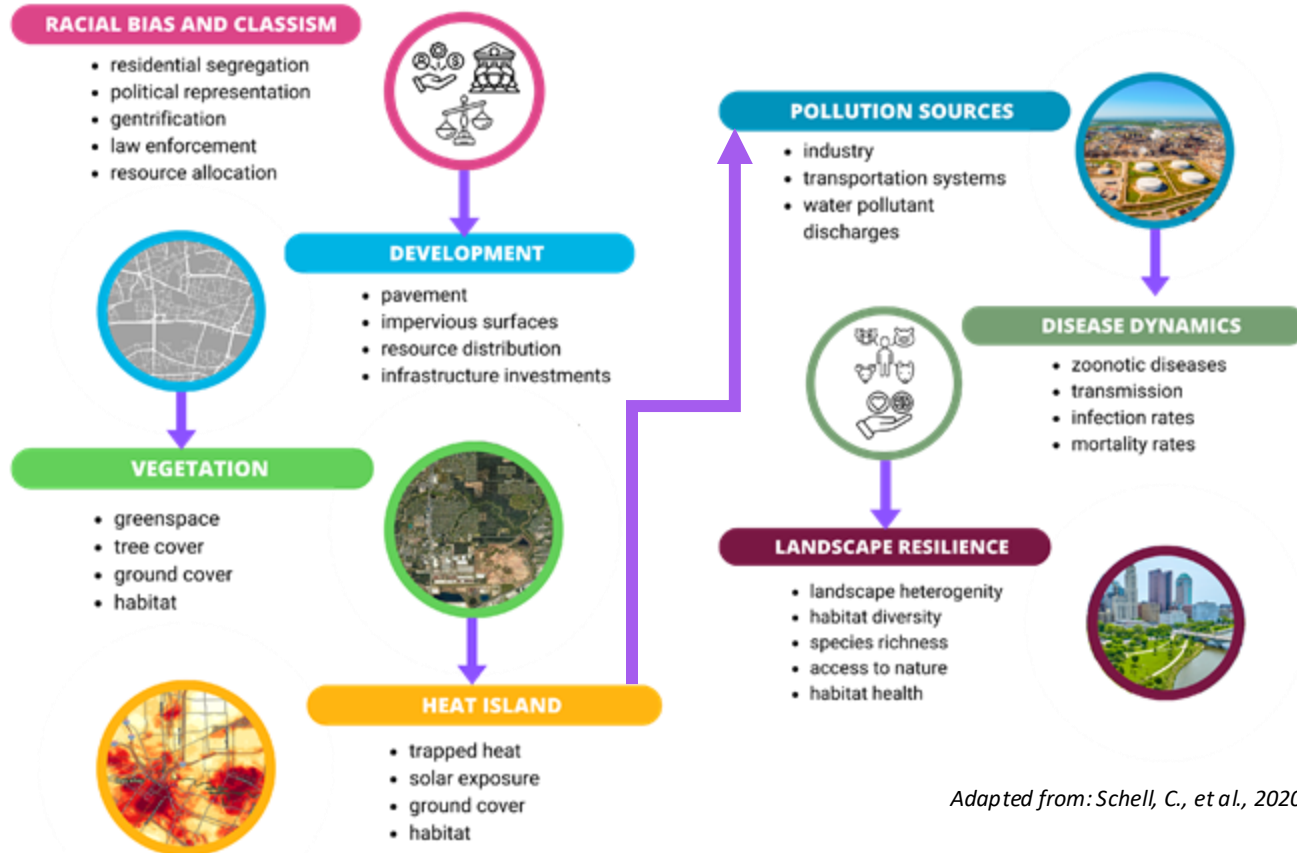


# What does it look like?



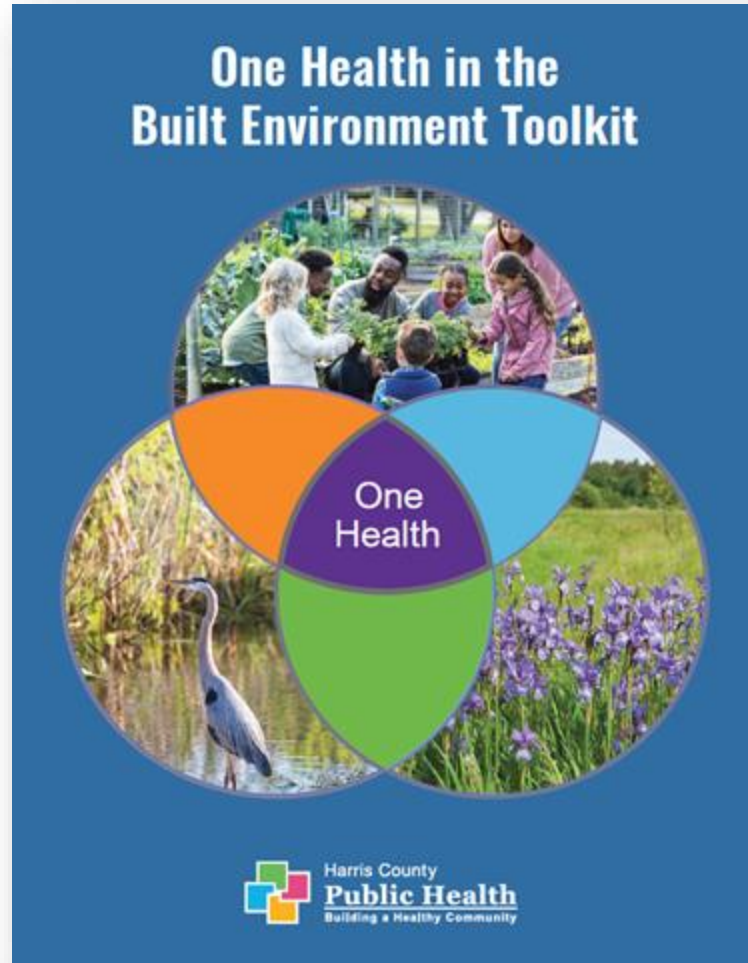


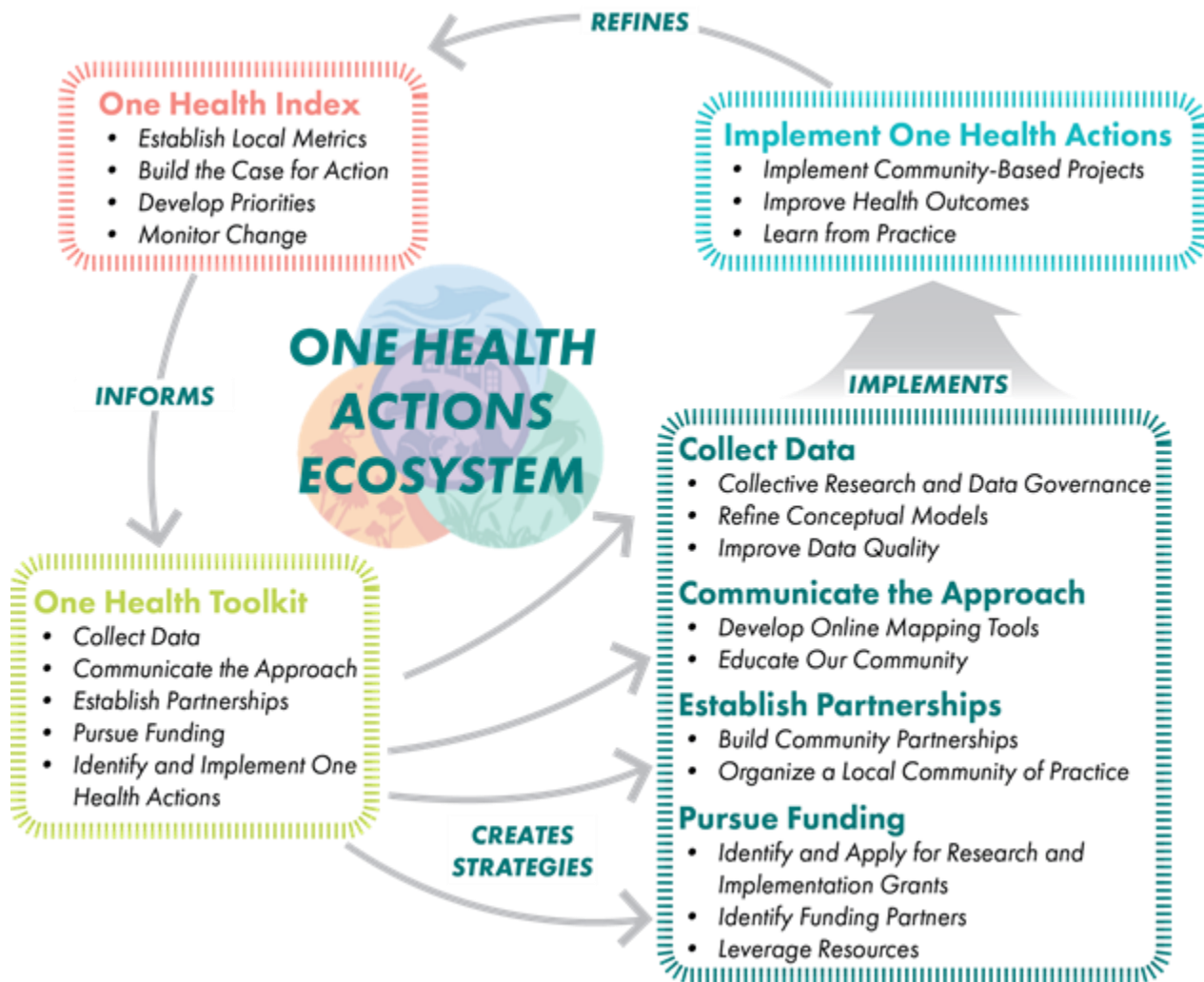
# Community Health



*Adapted from: Schell, C., et al., 2020*

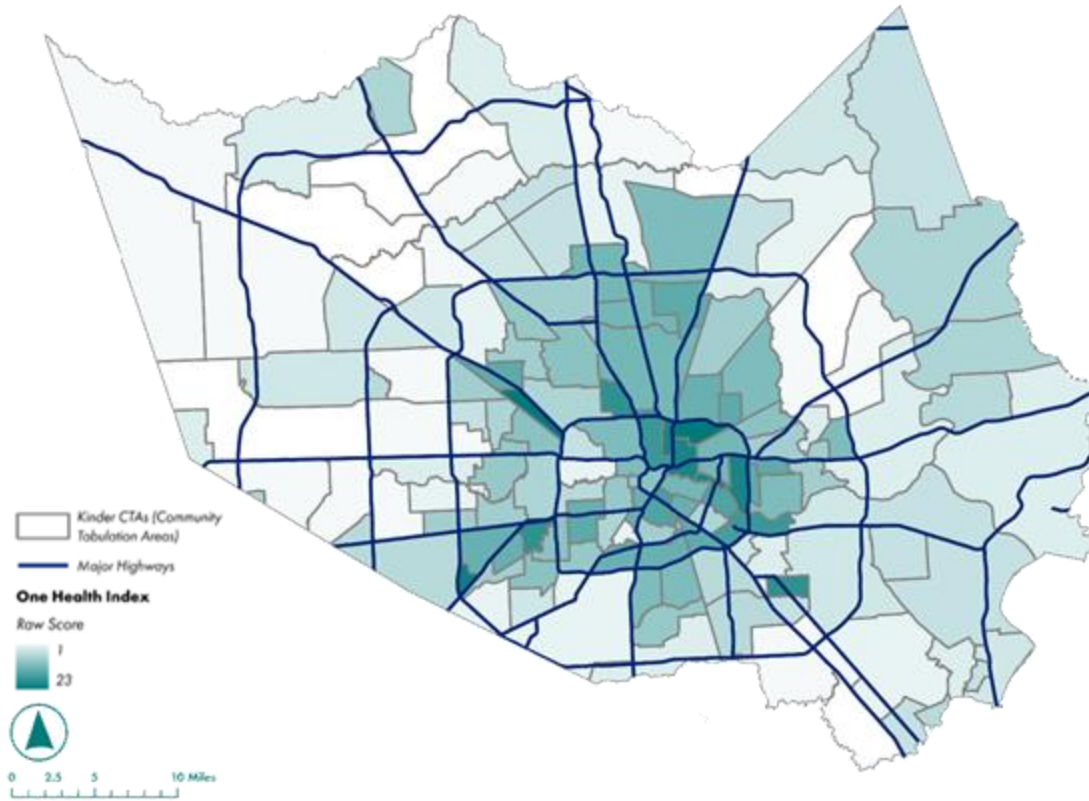
# One Health Actions







# One Health Index



## HUMAN HEALTH & WELLBEING

PERSON-RELATED HEALTH

ENVIRONMENT-RELATED

Access

Hazards

## ENVIRONMENTAL HEALTH

SYSTEMS SCALE LANDSCAPE

Land Cover and Composition

Quality

SITE-SPECIFIC GREENSPACE

Spatial Configuration

Vegetation Structure

## ANIMAL/ BIODIVERSITY HEALTH

DIVERSITY

HABITAT QUALITY

CONNECTIVITY



	HUMAN HEALTH & WELLBEING	ENVIRONMENTAL HEALTH	BIODIVERSITY & ANIMAL HEALTH	ONE HEALTH RAW SCORE
GARDENS	Pre-Conditions: 10 (5 red, 5 light red) Environmental: 10 (5 red, 5 light red)	Systems Scale: 10 (5 green, 5 light green) Site Scale: 10 (5 green, 5 light green)	Diversity: 10 (5 teal, 5 light teal) Quality: 10 (5 teal, 5 light teal) Connectivity: 10 (5 teal, 5 light teal)	23
FOOD	Pre-Conditions: 10 (5 red, 5 light red) Environmental: 10 (5 red, 5 light red)	Systems Scale: 10 (5 green, 5 light green) Site Scale: 10 (5 green, 5 light green)	Diversity: 10 (5 teal, 5 light teal) Quality: 10 (5 teal, 5 light teal) Connectivity: 10 (5 teal, 5 light teal)	23
FOOD	Pre-Conditions: 10 (5 red, 5 light red) Environmental: 10 (5 red, 5 light red)	Systems Scale: 10 (5 green, 5 light green) Site Scale: 10 (5 green, 5 light green)	Diversity: 10 (5 teal, 5 light teal) Quality: 10 (5 teal, 5 light teal) Connectivity: 10 (5 teal, 5 light teal)	22
HUSTON	Pre-Conditions: 10 (5 red, 5 light red) Environmental: 10 (5 red, 5 light red)	Systems Scale: 10 (5 green, 5 light green) Site Scale: 10 (5 green, 5 light green)	Diversity: 10 (5 teal, 5 light teal) Quality: 10 (5 teal, 5 light teal) Connectivity: 10 (5 teal, 5 light teal)	19
TIVILLE	Pre-Conditions: 10 (5 red, 5 light red) Environmental: 10 (5 red, 5 light red)	Systems Scale: 10 (5 green, 5 light green) Site Scale: 10 (5 green, 5 light green)	Diversity: 10 (5 teal, 5 light teal) Quality: 10 (5 teal, 5 light teal) Connectivity: 10 (5 teal, 5 light teal)	21

# THE SHADE WE'VE LOST

An "OH, Really?" Story



**A NEIGHBORHOOD  
LEFT BEHIND**



**HEAT RISES**



**NATURE FADES**



**A STRESSED COMMUNITY**



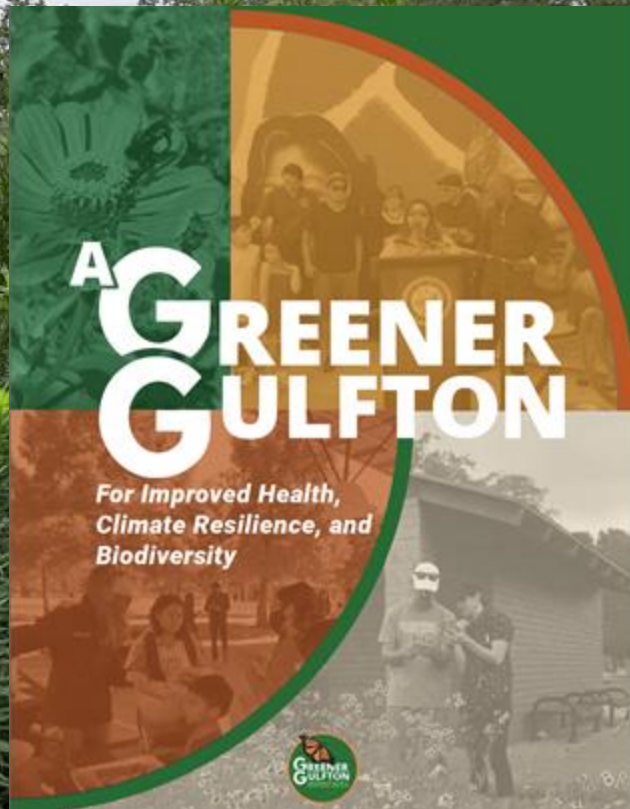
**VIOLENT CRIME CAN WORSEN**



**BUT WE CAN GROW  
OUR WAY BACK-TOGETHER.**



# PLANNING





# THE LOST SCHOOL CAMPUS

An "OH, Really?" Story



**A BORING, MOWED CAMPUS**



**HOT, UNINTERESTED STUDENTS**



**LITTLE HABITAT FOR WILDLIFE**



**UNHEALTHY AIR &  
CARBON EMISSIONS**

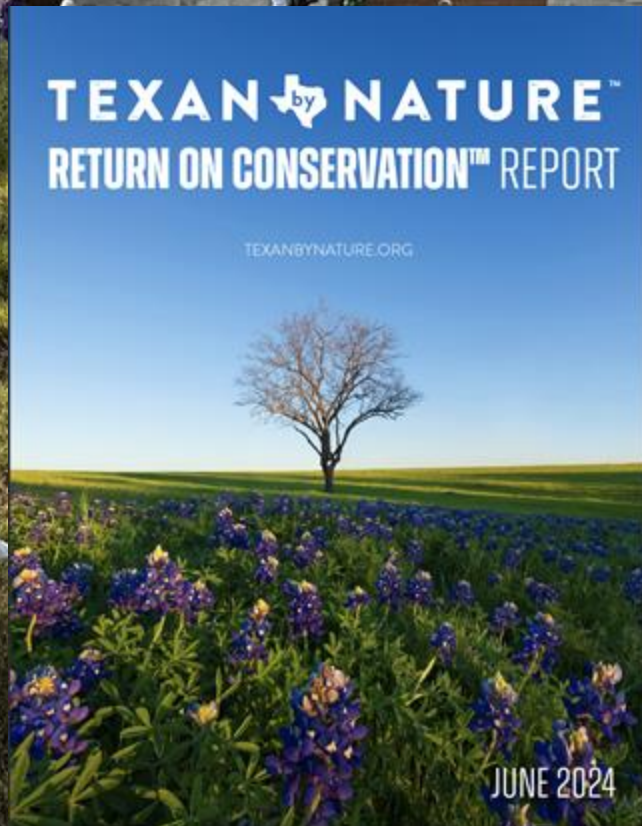
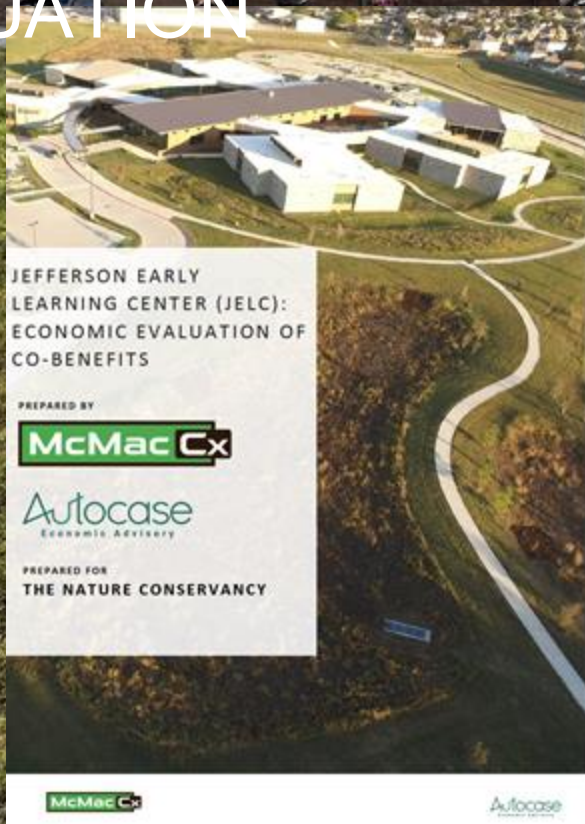


**HARD SOILS THAT DON'T  
ABSORB AS MUCH RAIN**

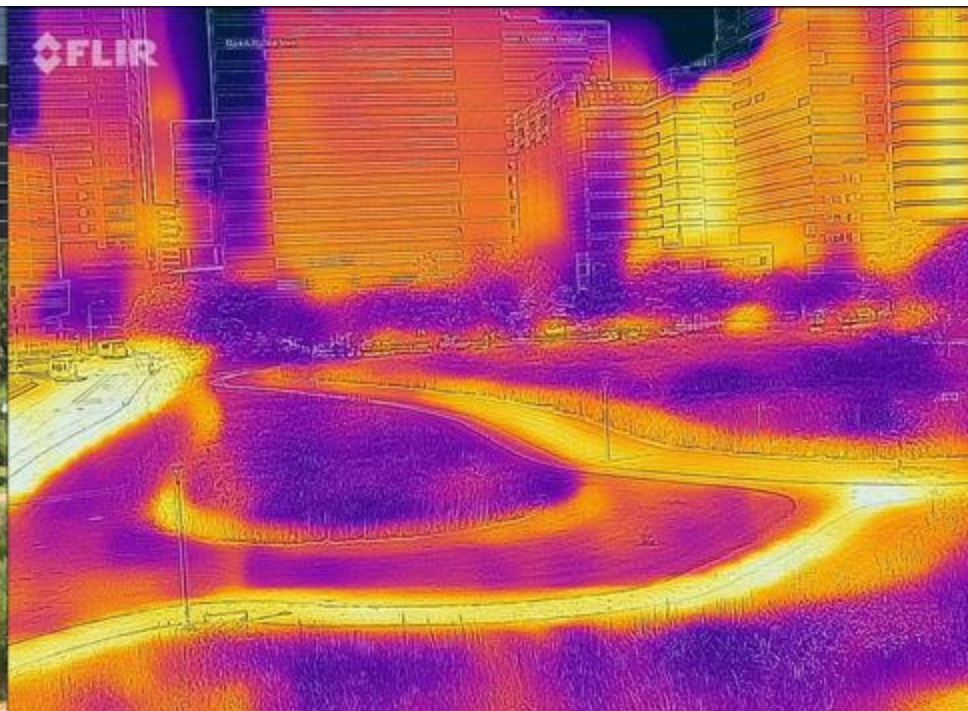


**WE CAN GROW OUR WAY  
TO RESILIENCE & HEALTH**

# MEASUREMENT & EVALUATION







# What Is Happening Now?





# A ONE HEALTH HUB FOR HARRIS COUNTY





# Questions?





**Modular One Health  
Shade Structure for  
Greener Gulfton**  
(Design by UltraBarrio)



**Rain Garden at  
Memorial Park –  
Eastern Glades**





**Community Tree  
Planting – Trees for  
Houston**



**Skylawn – The Post,  
Houston**





**Questions,  
reactions, or  
thoughts?**

**Thank you!!**



**Thank you for joining us!**



# *One Health in Action*

Connecting Nature, Community, and Well-Being



*Recording coming soon!*



[bit.ly/OneHealthConnectingNature](https://bit.ly/OneHealthConnectingNature)





**naaee**

North American Association  
for Environmental Education

 **FORWARD  
TOGETHER**



**22ND ANNUAL  
RESEARCH  
SYMPOSIUM**

October 30

**54TH ANNUAL  
CONFERENCE**

November 3–6

**[conference.naaee.org](https://conference.naaee.org) | VIRTUAL**





**GEEP Webinar**

# **Education as Ethical Action in the Polycrisis**

**August 4, 2025 | 10:00 AM ET**



**Lausanne Olvitt**

**Editor-in-Chief,  
Southern African Journal of  
Environmental Education**

 [\*\*bit.ly/EducationAsEthicalAction\*\*](https://bit.ly/EducationAsEthicalAction)

**GEEP**

 **naaee**  
North American Association  
for Environmental Education



# WHERE WILL WE **GROW** NEXT?



**Let us know what topics you'd  
us to dig into in future webinars!**



# Thank you for joining us!

