

One Health and Why it Matters to Fish and Wildlife Agencies

Sara Parker Pauley

June 26, 2023



One Health...

- Is a collaborative, multisectoral, and **transdisciplinary** approach
- Works at the local, regional, national, and global levels
- Has the goal of achieving **optimal health** outcomes recognizing the interconnection between **people, animals, plants, and their shared environment.**

Wildlife Disease with a One Health lens



The number of infectious disease outbreaks related to wildlife has dramatically increased.

The number of human health challenges are also increasing.



Health is a basic human concern:

- Compelling experiences with nature change attitudes regarding conservation.
- Nature is a bridge to health.
- Healthy people need healthy environments.
- Healthy environments produce healthy people.

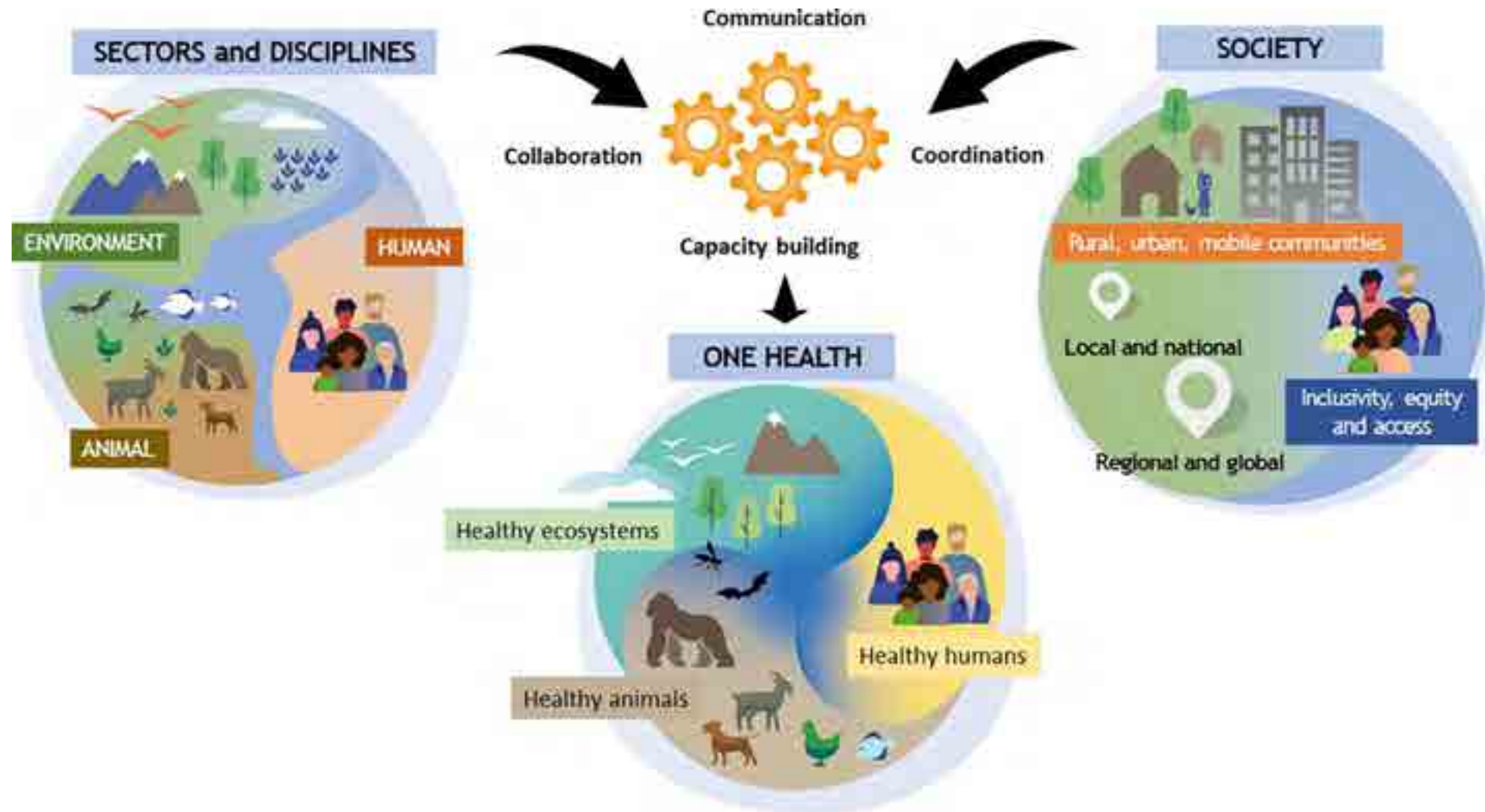
A close-up photograph of several green leaves, likely from a plant like a fern or a similar species, showing intricate vein patterns. The leaves are covered with numerous small, clear water droplets, suggesting a recent rain or dew. The lighting is soft, highlighting the texture of the leaf surfaces.

Linking human health to conservation
creates a relevant message.



This “health” is not the job of one group or one agency. Collective problems require collective action.

One Health toward a sustainable healthy future





One Missouri Approach

Missouri's vision as a leader in

ONE HEALTH

*Enhancing quality of life for a more independent Missouri:
Healthy lives, economies and communities*



One Health Collaboration Partners



Missouri Department of
Agriculture
Animal Health Laboratory



Missouri Department of
Natural Resources
Environmental Services



Missouri Department of
Conservation
Wildlife Disease



*The One Health Laboratory Campus will be located near the existing Missouri State Public Health Laboratory and allow for many **benefits to our citizens**, if approved. This will be achieved by bringing four agency laboratories under one roof so we will all have access to BSL-3 laboratory functions and share more resources.*



Shared Health Outcomes

90% of Missourians said the outdoors and wildlife are important for the mental and emotional benefits



Science confirms
that nature is
good for us

- Greater psychological well-being
- Reduced anger, stress, sadness, and aggression
- Improved attention and cognition

- Improved psychosocial function
- Better sleep
- Increased resilience

Partnering with Physicians

- Connect People to Nature
- Get Patients Outside for Improved Health
- Physician Wellness



Fish and Wildlife agencies are changing the vision of their role because of a change of reality.

Our Conception of One Health

New Name Old Ideas

Land ethic
Aldo Leopold



Emphasizing Community conservation





Human Microbiome and Mental Health – the biodiversity link



Serving nature and you[®]