

Materials will be available at: www.eesi.org/090925rivers
Post about the briefing: #eesitalk @eesionline

# The Ohio River Resilient and Healthy River Communities Series

### **About EESI**





- Nonpartisan Educational Resources for Policymakers
  - A bipartisan Congressional caucus founded EESI in 1984 to provide nonpartisan information on environmental, energy, and climate policies
- Direct Assistance for Equitable and Inclusive Financing Program

  In addition to a full portfolio of federal policy work, EESI provides direct assistance to utilities to develop "on-bill financing" programs
- Commitment to Diversity, Equity, Inclusion, and Justice

  We recognize that systemic barriers impede fair environmental, energy, and climate policies and limit the full participation of Black, Indigenous, people of color, and legacy and frontline
  - communities in decision-making

**Sustainable Solutions** 

Our mission is to advance science-based solutions for climate change, energy, and environmental challenges in order to achieve our vision of a sustainable, resilient, and equitable world

### Policymaker Education







### **Briefings and Webcasts**

Live, in-person and online public briefings, archived recordings, and written summaries

### **Climate Change Solutions**

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Bi-weekly newsletter with everything policymakers and concerned citizens need to know, including a legislation and hearings tracker



### **Fact Sheets and Issue Briefs**

Timely, objective coverage of environmental, clean energy, and climate change topics



### Social Media (@EESIonline)

Active engagement on Bluesky, Facebook, LinkedIn, X, and YouTube









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### eesi.org/rivers-briefings



### Resilient and Healthy River Communities Series

The Mississippi River

The Tennessee River

**The Columbia River** 

**The Colorado River** 



Artificial Intelligence: Implications for Energy and the Environment Thursday, September 25, 3:30-4:30 PM

Grid Modernization
Thursday, October 9, 3:30-4:30 PM

How Can We Cut Industrial Emissions? Wednesday, October 22, 9:00-10:00 AM

What Congress Needs to Know About COP30 November 4 – 6, 12:00-1:00 PM 5



### What did you think of the briefing?

Please take 2 minutes to let us know at: www.eesi.org/survey

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Ohio River Basin Alliance

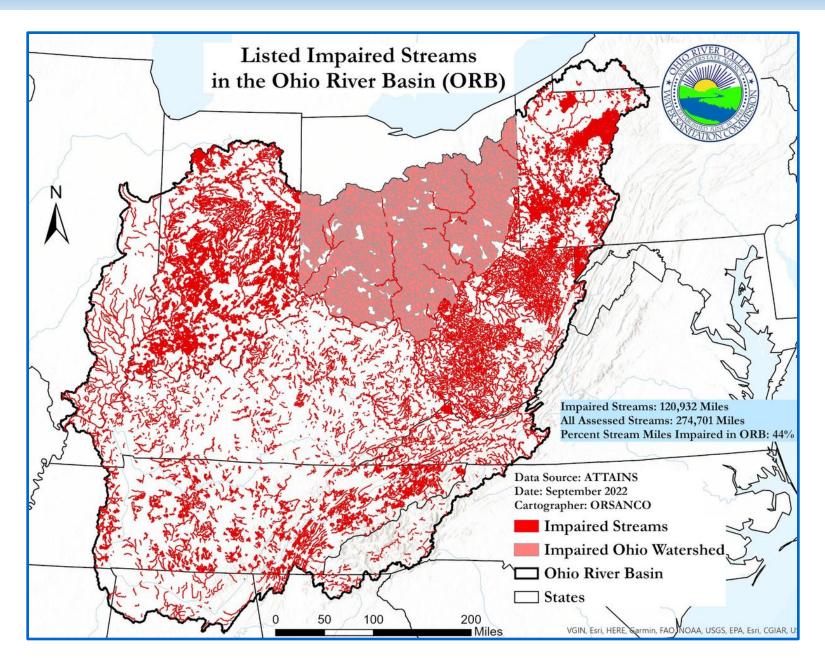
Uniting in Vision, Strategy, Voice



### Benefits of the Waterways of the ORB



# **Challenges and Threats**



# Solutions: Large-scale, designated federal investments



Geographic Ecological Restoration Funding (Infrastructure Investment and Jobs Act)

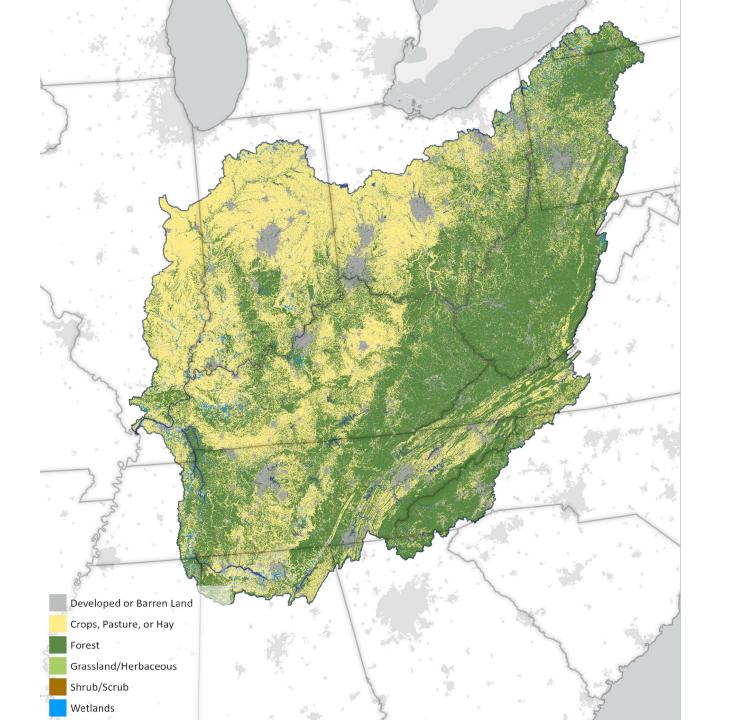




# 130.5 MILLION ACRES

in the Ohio River Basin across

**14 STATES** 





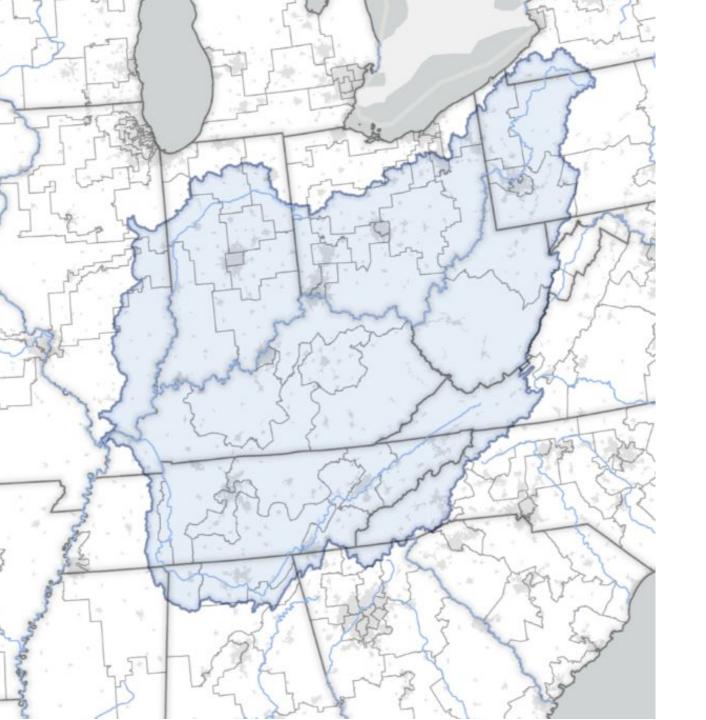
# 69 MILLION ACRES

of natural ecosystems





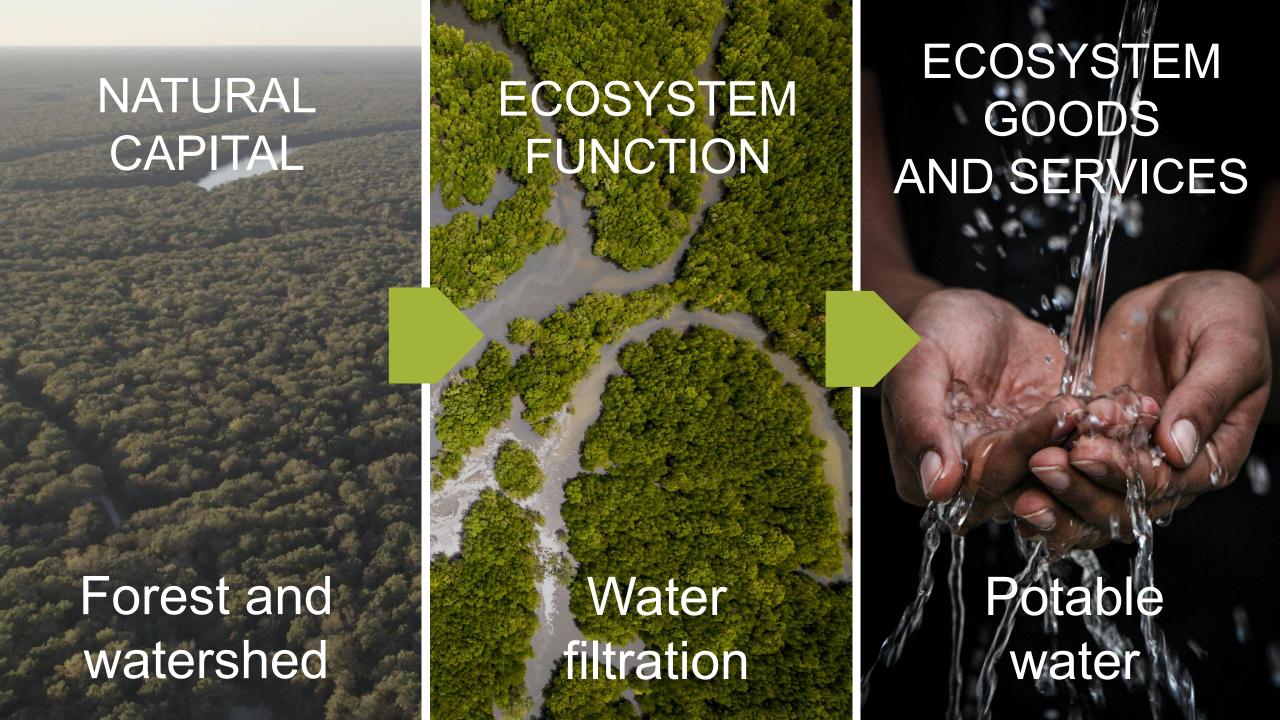
# \$50 BILLION PER YEAR

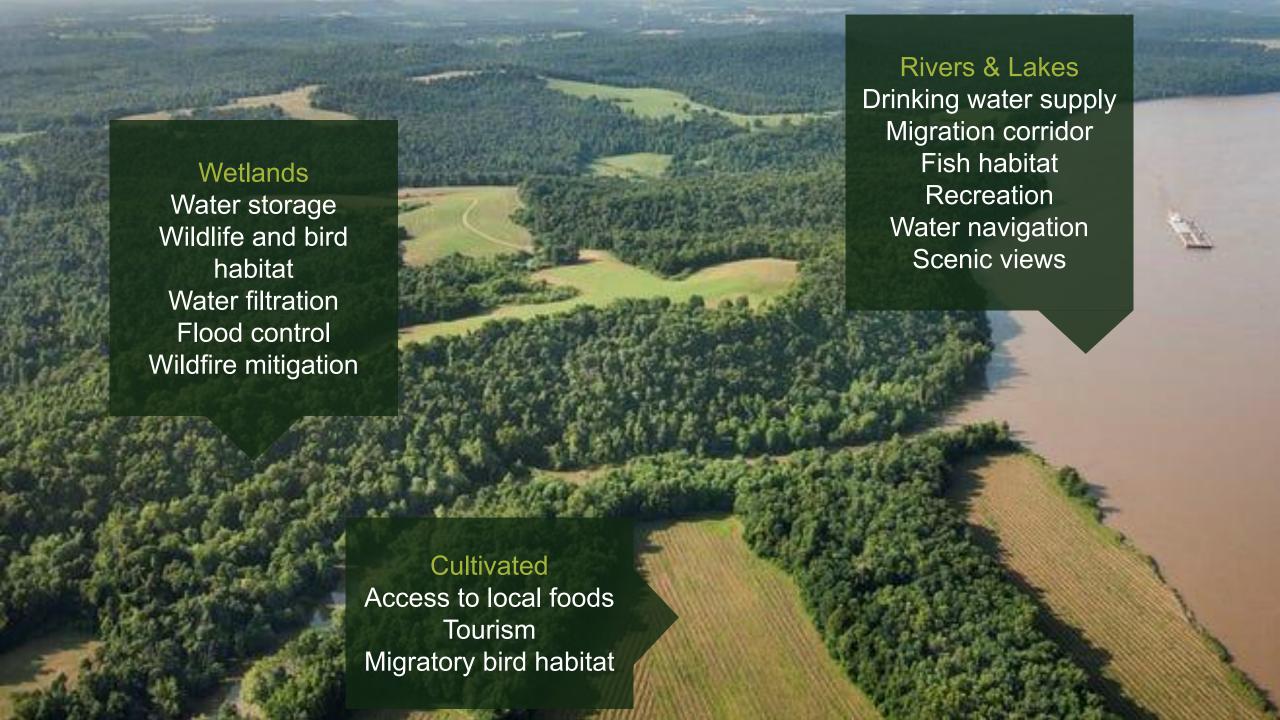




# \$1.17 TRILLION

asset value over 30 years





# Why do we value nature?



When the value of nature is better understood, we can make more effective decisions.

It strengthens the case for restoration and protection.

# How do we value nature?



Gathering information directly from the source

- Surveys / Interviews
- Observing behavior
- Running experiments / tests



# **Secondary Methods**

Using information others have already collected

- Reviewing academic studies
- Analyzing government statistics

Service	Methodology in ESVT
Aesthetic value	Hedonic price
Air quality	Avoided cost
Climate stability	Social cost
Disaster risk reduction	Avoided cost
Forage production	Market price
Habitat provision	Stated preference
Non-use value	Stated preference
Recreation	Travel cost
Stormwater regulation	Avoided cost
Water quality	Avoided cost
Water supply	Avoided cost

# **Ecosystem Services Valuation Tool**

- Model based on meta-analysis
- 1,467 values across 181 studies
- High-level estimates of the value of



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130.5
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69 MILLION ACRES

of natural ecosystems



# \$50 BILLION PER YEAR

in ecosystem services benefits, and

\$1.17
TRILLION

over 30 years in benefits















### **Ecological Benefits = Human Benefits**





















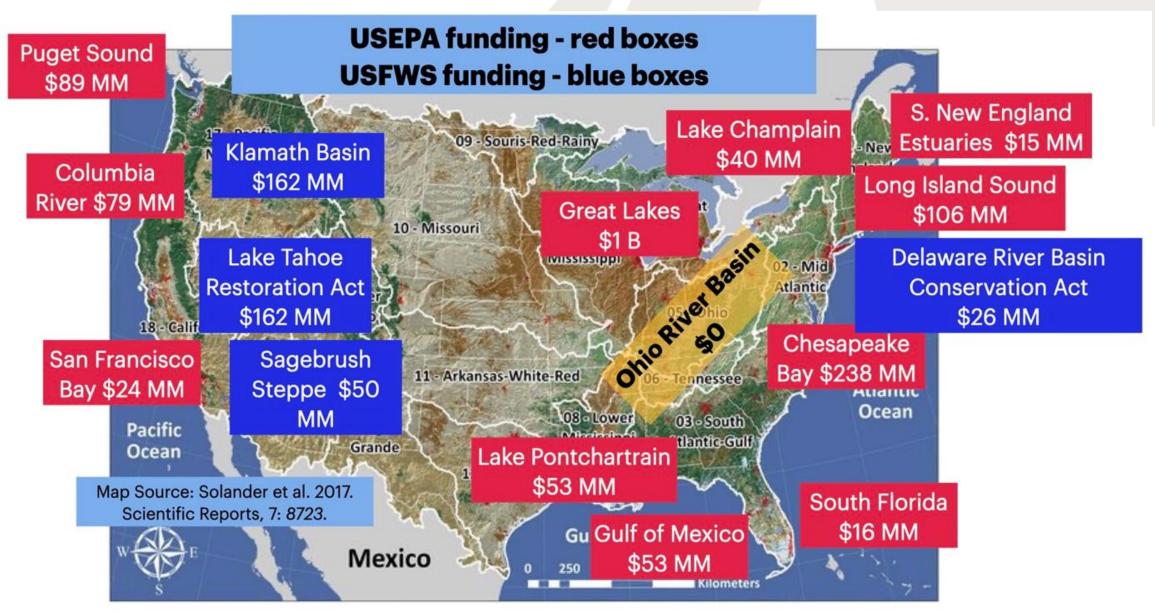


The value of (uncoordinated)
federal investments in Ohio
River Basin ecological
restoration (Nature Based Solutions &
Natural Infrastructure)

90 on-the-ground projects Investments in improving rivers, floodplains, wetlands, and forests

\$6 million in federal investment matched by \$14 million non-federal funds





Source: National Wildlife Federation



# Life Depends on Rivers On Rivers



<u>lhollingsworth-segedy@americanrivers.org</u> www.americanrivers.org

Lauren Anderson, MPA University of Louisville



### Pollution in the Ohio River

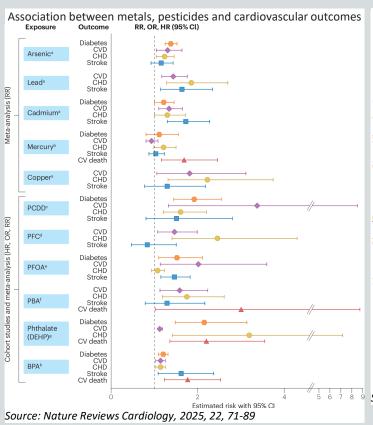
### **Exposure is multi-source and cumulative:**

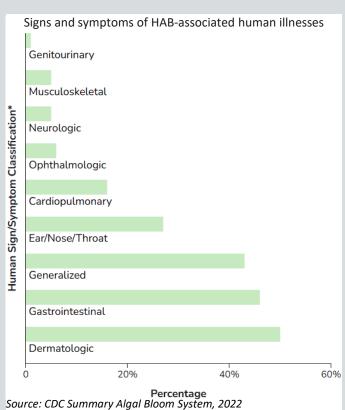
- Pollution primarily stems from industry, agriculture, and urban wastewater.
- Exposure impacts fish, wildlife, and humans via water, air, and food sources.

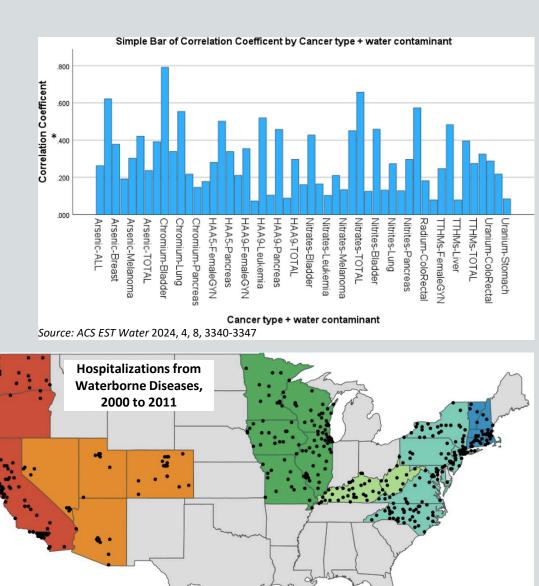




# Impacts on Public Health









Source: PLOS Water 2024, 3, 8, e0000206

## Mitigation and Remediation

• Mitigation: Rubbertown Industrial Corridor, Louisville, KY

#### 1990's

Initial assessment and identification of chemical storage and spill sites.

#### 2000's

Remediation and monitoring begins under RCRA and Superfund.

#### 2010's

Remediation and monitoring continue, public health guidance.

#### 2020-present

Continued monitoring and integration air toxics exposure burdens into health assessments.

• Remediation: Allied Chemical & Ironton Coke, Ironton, OH

#### 1980's

Site added to
National Priorities
List. Cleanup begins
with installation of
underground
barriers.

#### 1990's

Soil remediation, groundwater containment, sediment caps, and solid waste cover.

#### 2000 and 2010's

Part of site returned to city for reuse, reuse planning begins, and site assessments.

### 2020-present

Majority of site removed from NPL, installation of solar project, active industrial and commercial use.



NVIROME INSTITUTE

### River and Watershed Interventions

- Cincinnati and Pittsburgh Green
   Streets Initiatives
- Recreational Access and Riverfront Restoration

