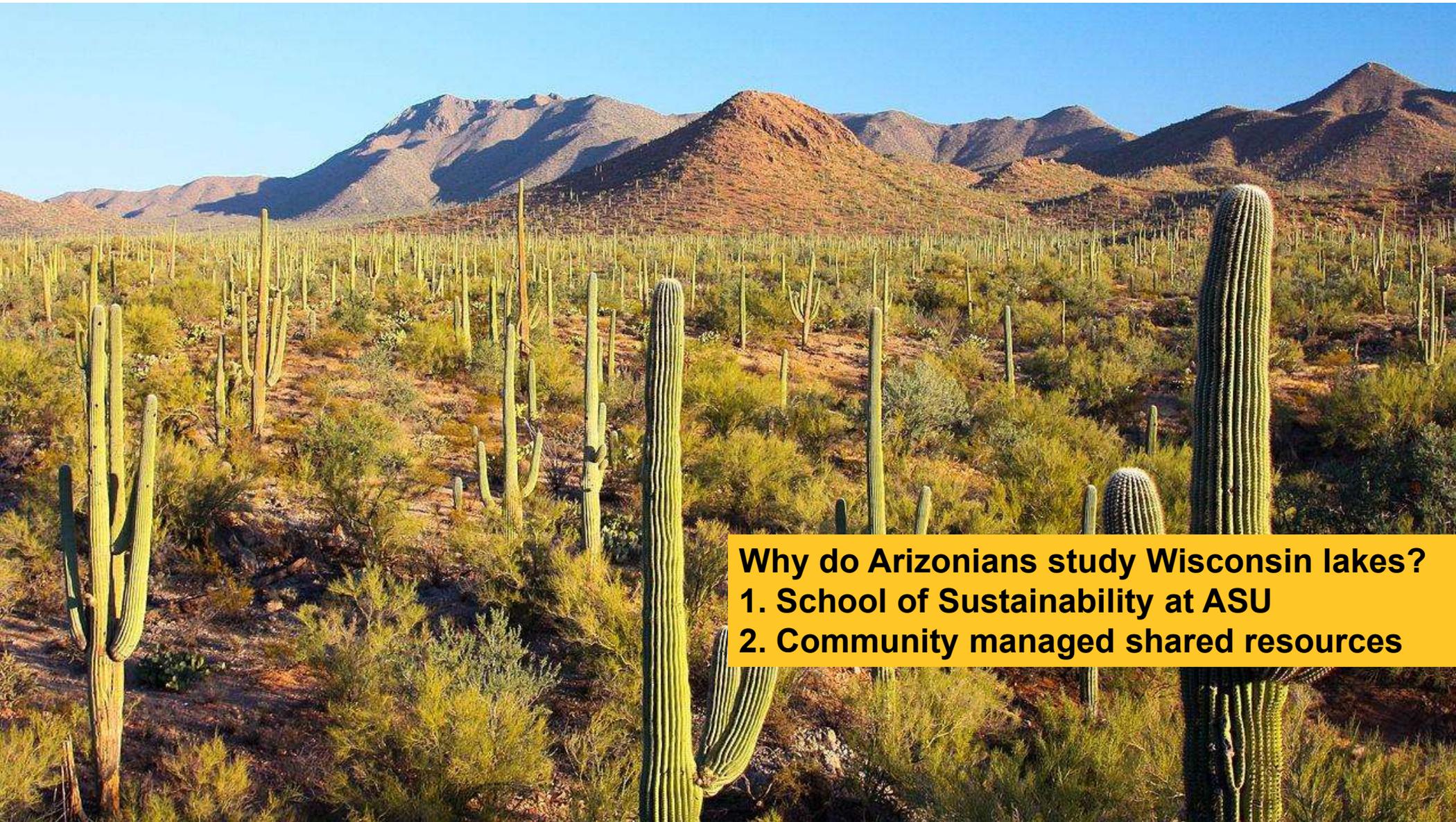


Dr. Marco Janssen & Dane Whittaker

Understanding Lake Organizations: Different Tools from Social Sciences to Foster Resilient Management

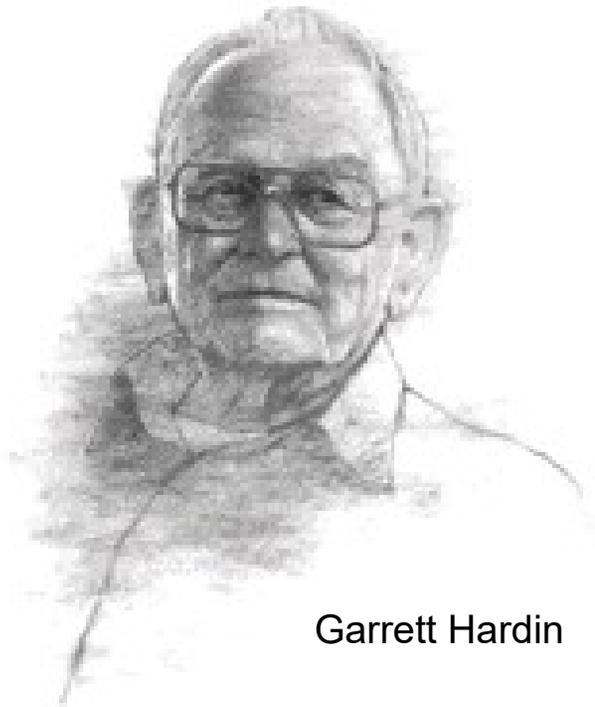
A Comparison of Lake Management Organizations
in Vilas County, Wisconsin, U.S.A.





Why do Arizonians study Wisconsin lakes?
1. School of Sustainability at ASU
2. Community managed shared resources

Tragedy of the Commons



Garrett Hardin

*“Freedom in a commons
brings ruin to all”*

- Communities cannot manage their own resources
- Intervention is needed to avoid a tragedy.

A struggle to govern the commons



Elinor Ostrom

“There’s no panacea to solve governance problems”

- Demonstrated it is possible to overcome the tragedy
- Defined eight principles that lead to success
- Won 2009 Nobel Prize in Economics

Key Findings of Ostrom

- Have local users involved in decision making
- Look at rules people use, not what is written on paper
- Implement effective monitoring and enforce violations
- Biophysical and social conditions vary, so avoid cookie cutter approach
- Communication!!
- Connect with other organizations



**A landscape of case studies to ask,
what makes some lake organizations
more effective than others?**

The Commons + Resilience

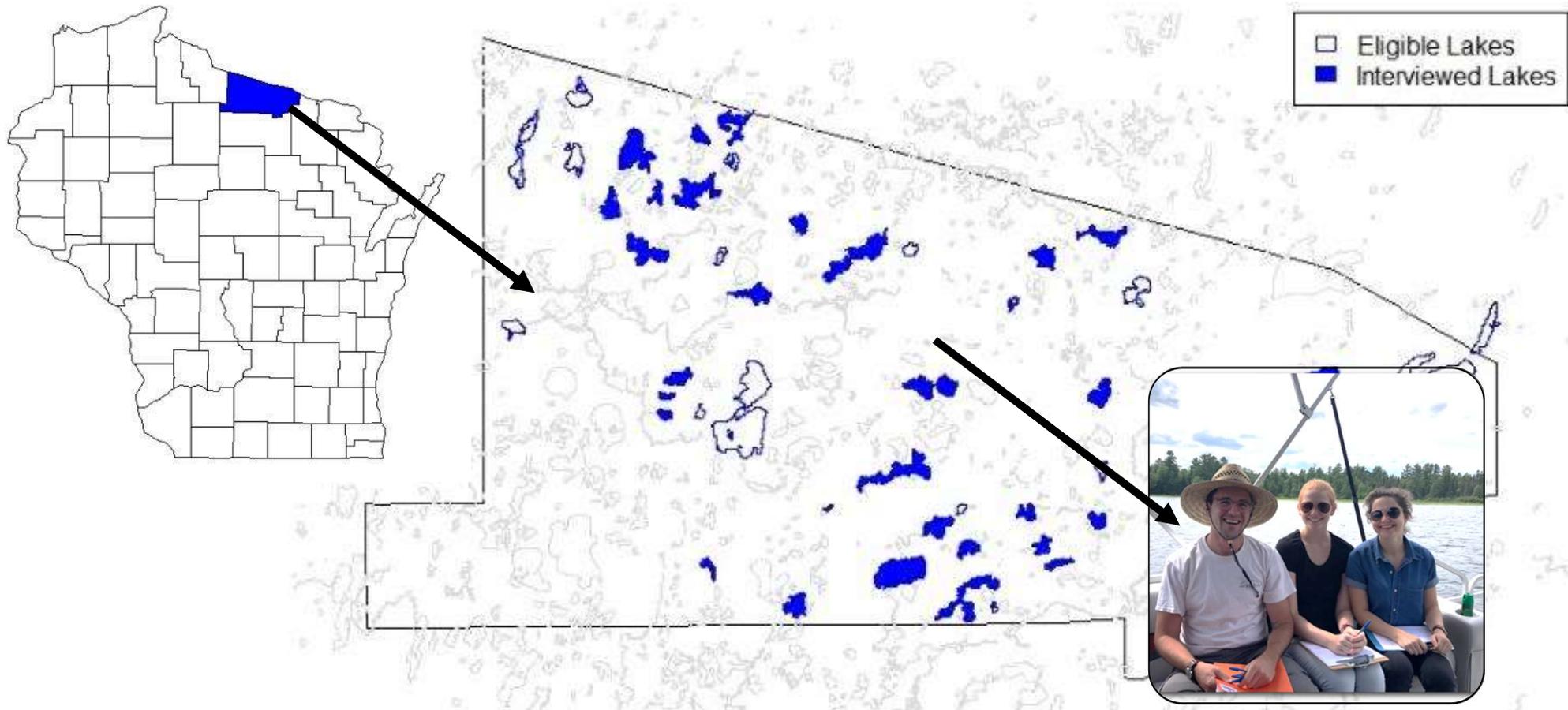




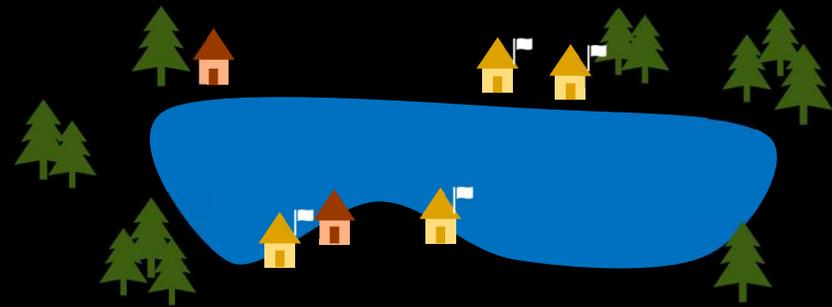
Vilas County, WI is home to 115 lake orgs & 1300 lakes; it is great for comparison.

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31 Vilas County Organizations Interviewed



How are lake management outcomes affected by **environmental**, **social**, and **institutional** conditions?



Zoom Polling, indicate your organization goals:

- A. AIS Prevention & Management**
- B. Community Building**
- C. Education**
- D. Lake Stewardship**
- E. Water Clarity**
- F. Other, please explain via message**

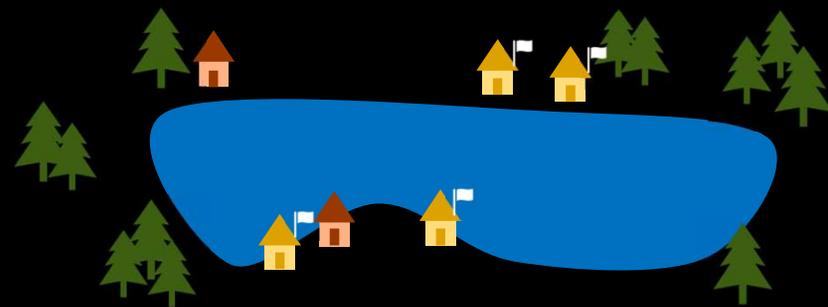
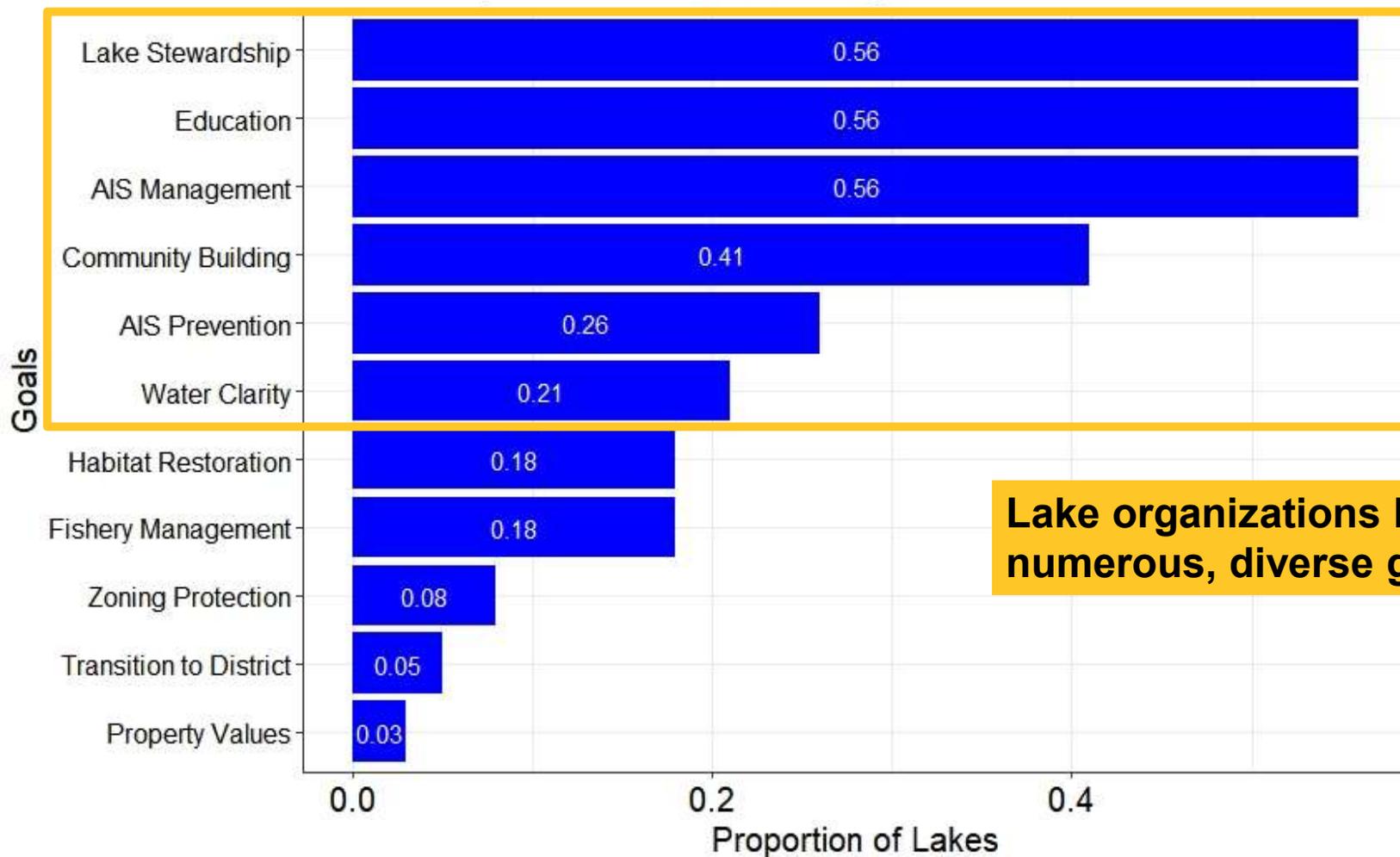


Chart 1. Proportion of lakes with each goal



Lake organizations have numerous, diverse goals.

(2019 Interviews)

environmental, social, & institutional conditions

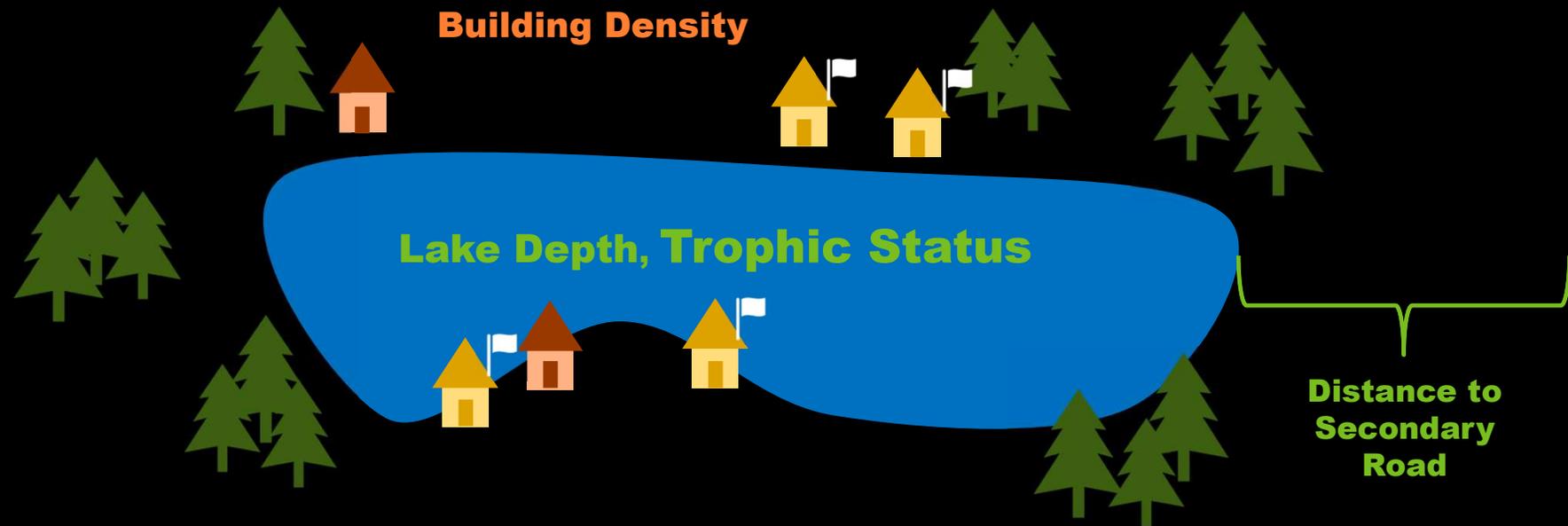


Exclusion, Graduated
Sanctions, Conflict
Resolution Mechanisms



Town Lakes Committee,
Consultant

AIS Prevention

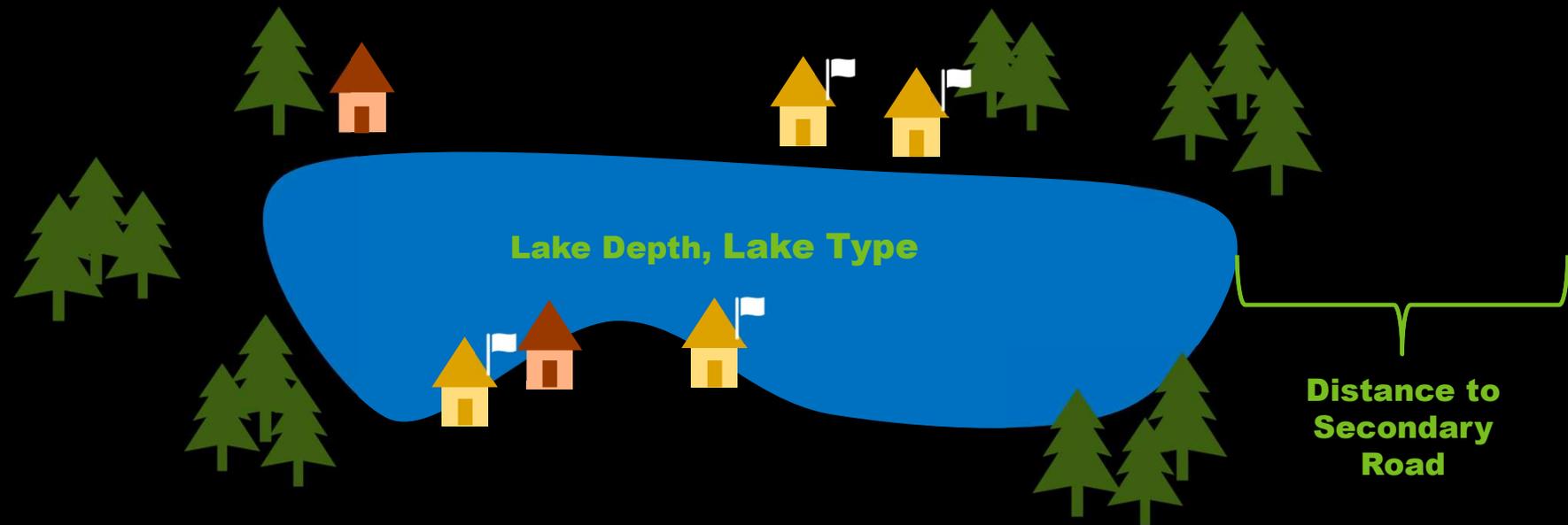


Graduated Sanctions



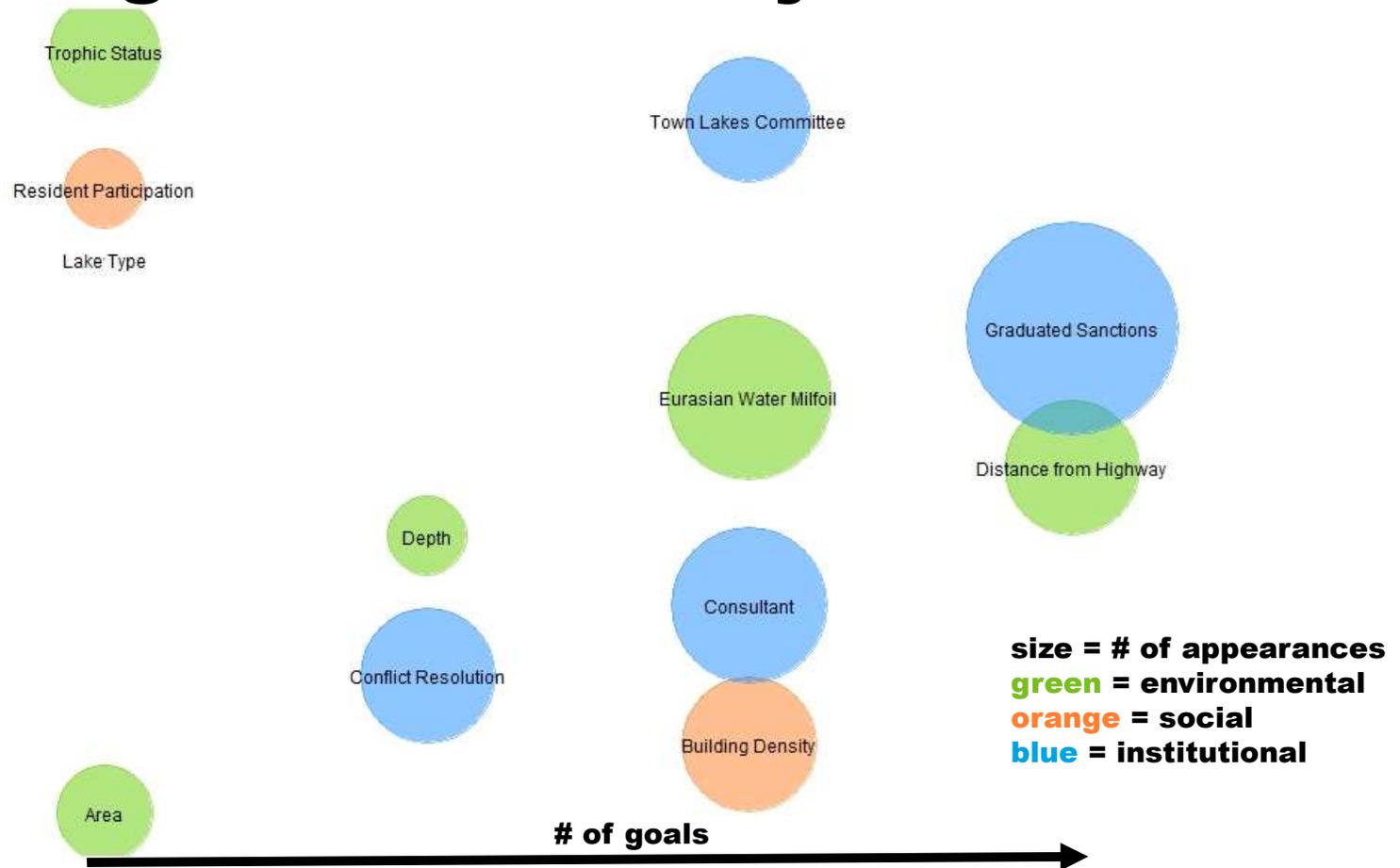
**Town Lakes
Committee**

Water Clarity



Town Lakes Committee

The total number of appearances and number of goals affected by each condition



environmental,
social,
and institutional
conditions affect
lake management
outcomes

Lake organizations have numerous, diverse goals

Lake organizations adapt to local conditions to meet goals

Consultants and town lakes committees play an important role

**Of the 31 lake organizations we spoke with,
7 said they collaborate with other lake orgs.**

**Use Zoom messaging to tell us why your
organization does or does not collaborate
with other lake organizations.**

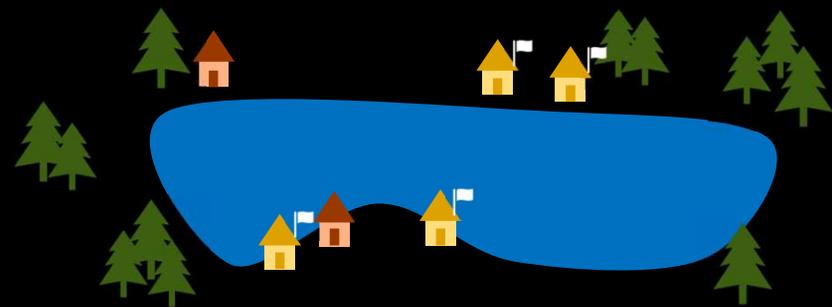




Photo Credit: VCLRA.org



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Thank you!

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