

Strengthening Partnerships for Watershed Health



2018 Wisconsin Lakes Partnership Convention &
Water Action Volunteers Symposium
April 20, 2018

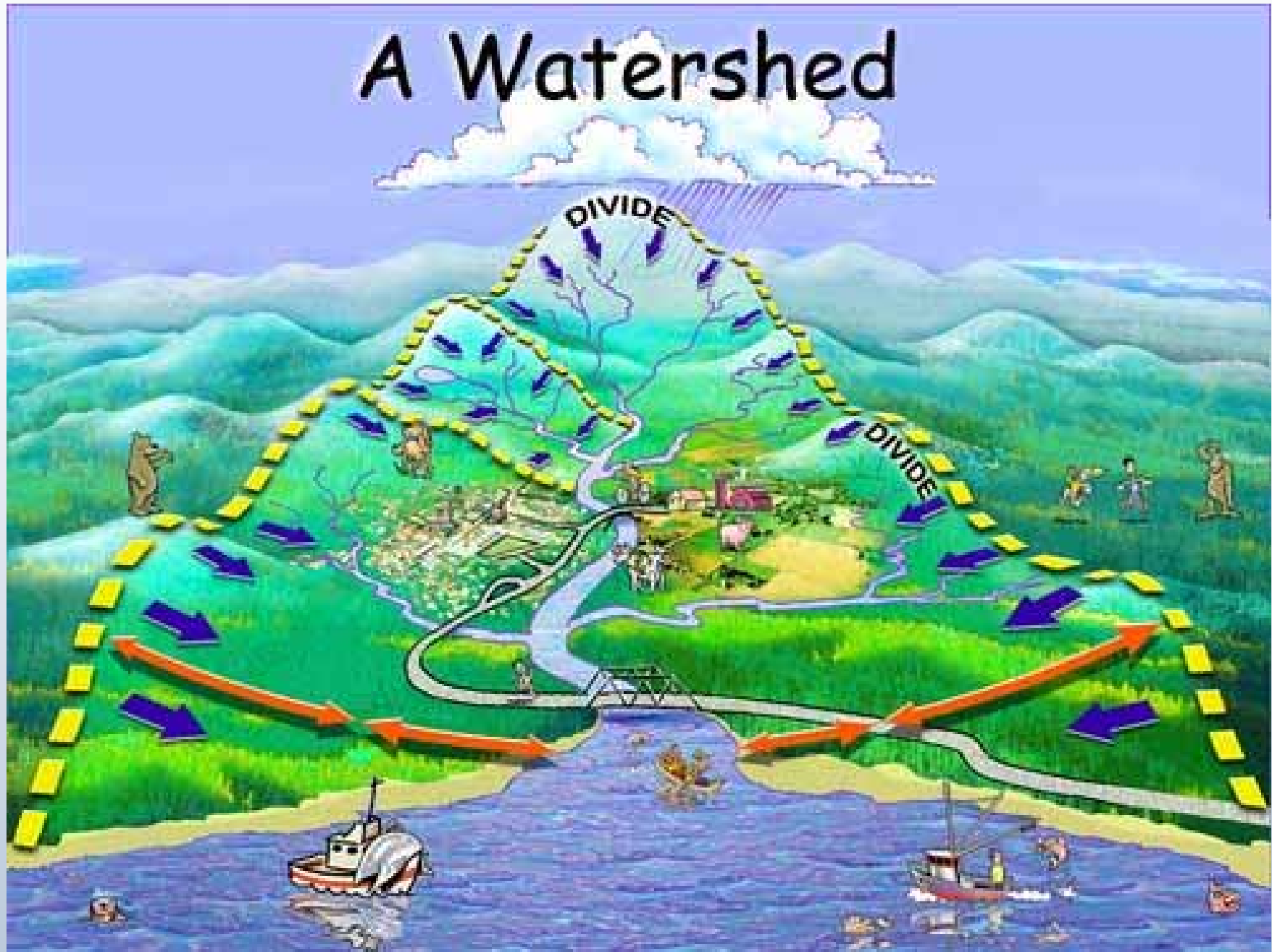
Ken Genskow

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Overview

- Watersheds, institutions, and governance
- Diagnostic questions

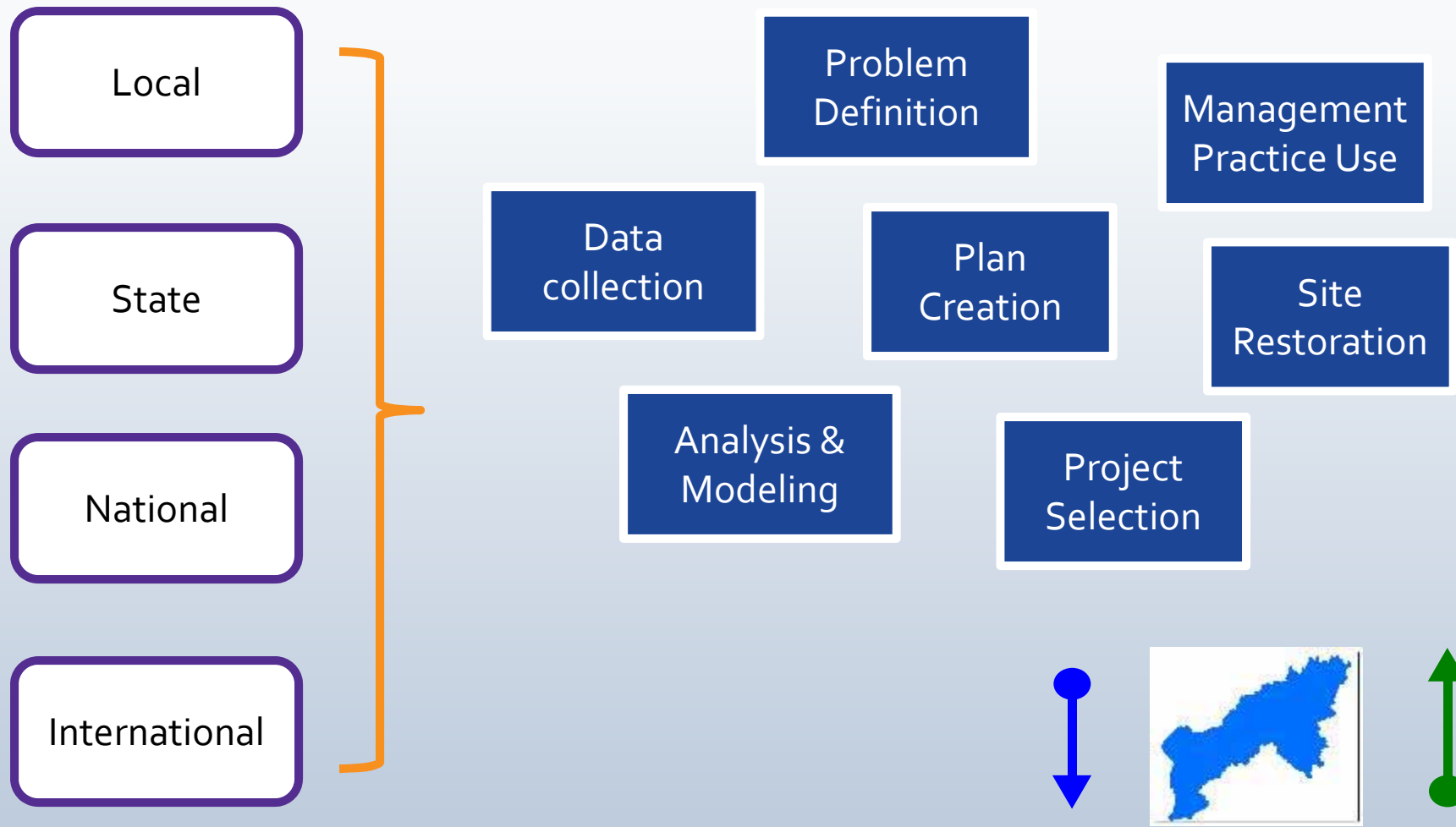
A Watershed



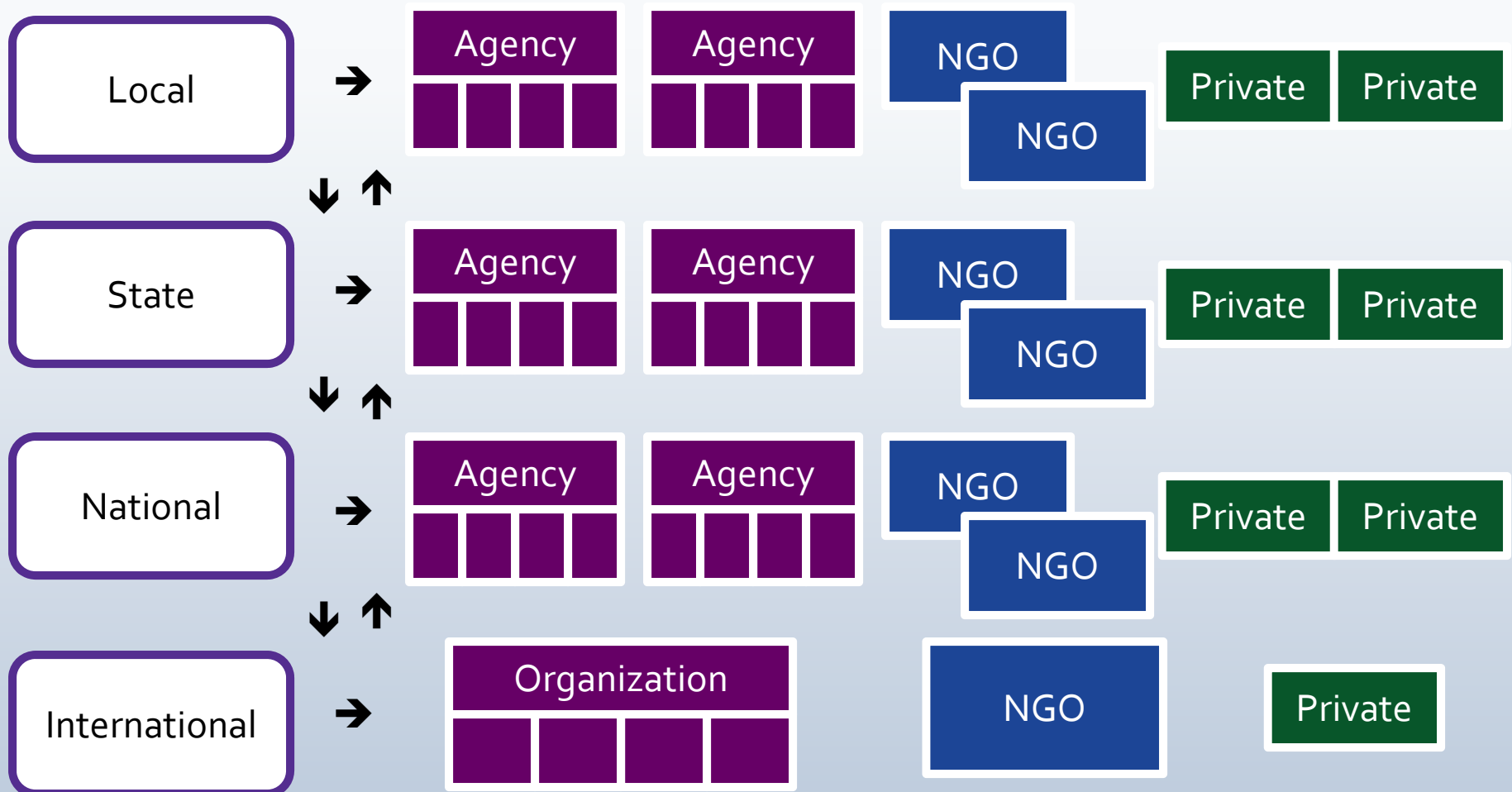
Watershed Nutrients



Integration: Functional/Vertical

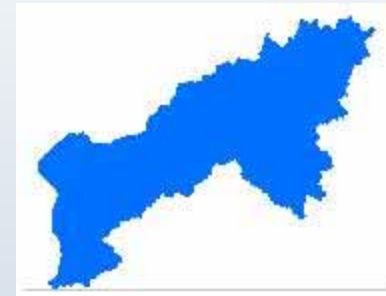


And Horizontal



Watershed as...

- Physical system
- A spatial framework for coordination & integration
- An institutional nexus



Forms

- Partnership
- Advisory Body
- Task Force
- Council
- Commission
- Authority
- Network



Terms

Governance: how decisions are made and put into practice

Institutions: the social and legal structures enabling governance

Watershed Governance

"Governance is a suite of procedures that use decision-making processes at different levels and among different sectors, stakeholders, and jurisdictions to enact, in this case, water resources management."

Hooper, B. 2006. "IWRM: Governance, Best Practice, and Research Challenges"

Watershed Governance

"...every watershed is 'managed' by a wide range of governmental and non-governmental actors, whose decisions influence the health and integrity of ecological systems.

The challenge for a watershed governance program is to get this portfolio of actors and programs to work together more effectively.

Watershed management should therefore be viewed as an effort to build, manage, and maintain inter-organizational networks;

in other words, to develop an institutional ecosystem."

Imperial and Hennessey, 2000. "Environmental governance in watersheds"

Example: Agriculture

- Excess nutrients creating water resources problems
- Many plans at multiple scales
- Solutions rely heavily on voluntary action by farmers
- How to engage farmers?
- And maintain practices for watershed health?



Many Plans

“...**best approaches** will entail...**working collaboratively** to develop **watershed-scale plans** that **target** the most effective practices to the acres that need it most.”

- USEPA Memorandum, March 2011

Wisconsin's Nitrogen Reduction Strategy
November 2011

Gulf Hypoxia Action Plan 2008
For Reducing, Mitigating, and Controlling Hypoxia in the Northern Gulf of Mexico and Improving Water Quality in the Mississippi River Basin

Chesapeake Bay Total Maximum Daily Load for Nitrogen, Phosphorus and Sediment
Established by the U.S. Environmental Protection Agency

ML

SUBJECT: Working in Partnership with States to Address Nitrogen Pollution through Use of a Framework for State Nutrient Management

FROM: Nancy K. Stoner, Acting Assistant Administrator

TO: Regional Administrators, Regions 1-10

This memorandum reaffirms EPA's commitment to partner with stakeholders to make greater progress in accelerating phosphorus loadings to our nation's waters. The memorandum also provides guidance on how to use the framework and urges the Regions to place new emphasis on working with states to achieve near-term reductions in nutrient loadings.

Shawn M. Gorka, Regional Administrator, U.S. Environmental Protection Agency, Region 3
12/29/10
Judith A. Enck, Regional Administrator, U.S. Environmental Protection Agency, Region 2

Common Theme

Change
farmer
management
practices

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MEMORANDUM

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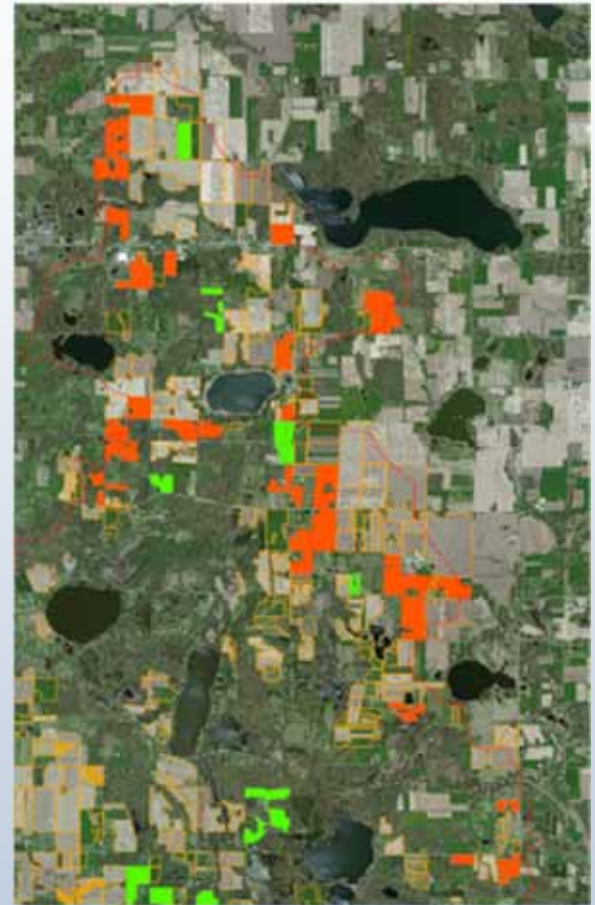
12/29/10

Whose Plans?

But for many farmers:

“...**the prescribed strategies for water improvement are someone else’s**, not the persons whose land management practices are being targeted.”

Morton and Brown (2011, p 34)



Diagnostic Questions

1. What are the goals?

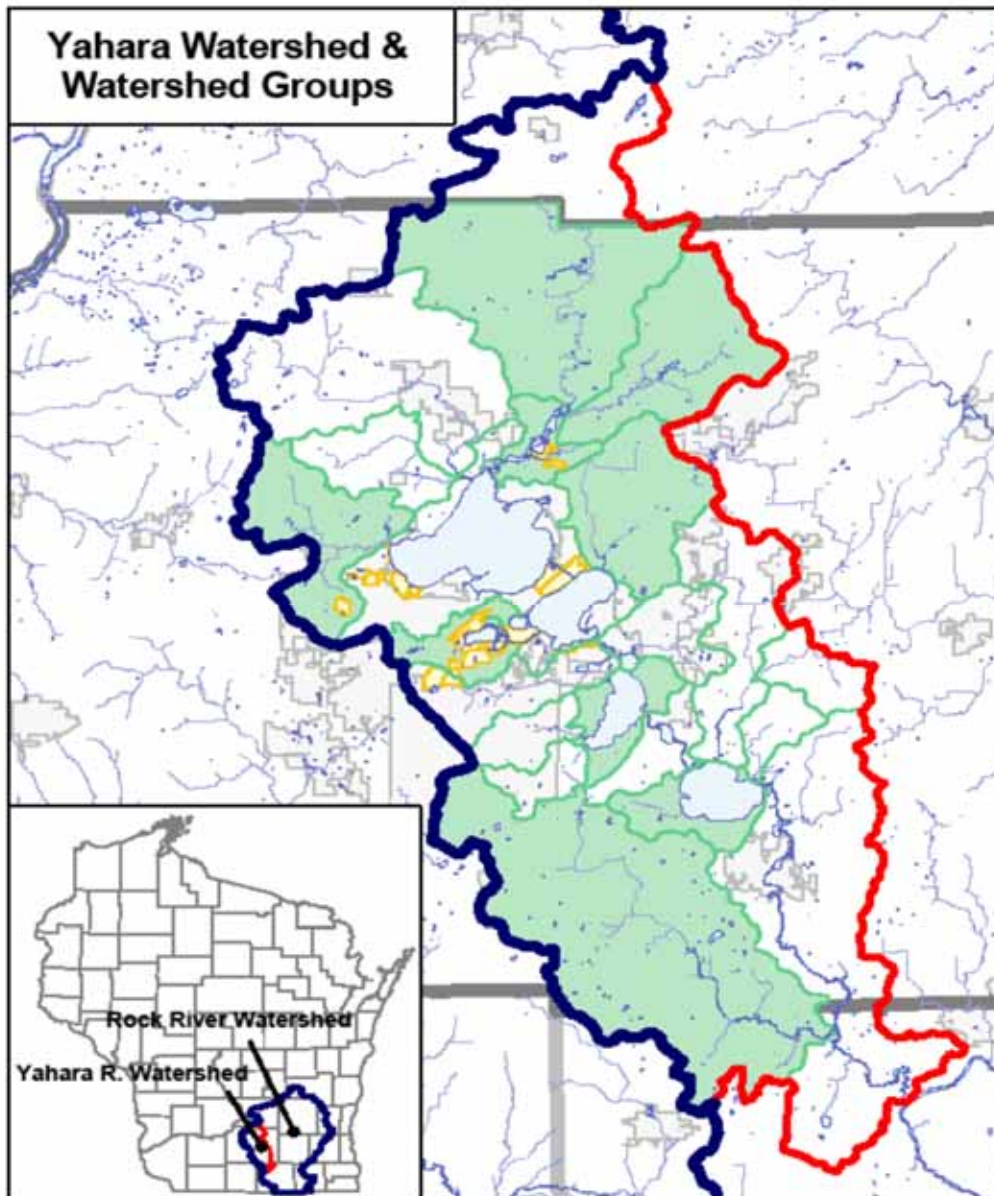
- How are the problems defined?
- Environmental Outcomes
- Other Outcomes
 - Informed public
 - Efficient processes
 - Equity
- Charge or authority?
 - Explicit
 - Implicit



2. Who should be involved, and in what way?

- Relevant to the issue
- Horizontal and vertical
- Boundary conditions and expectations
 - Open, in flux
 - Closed, by appointment/invitation
- What relationship/trust with each other?

Yahara Watershed & Watershed Groups



List of Stakeholders Identified 12-13 June 2008

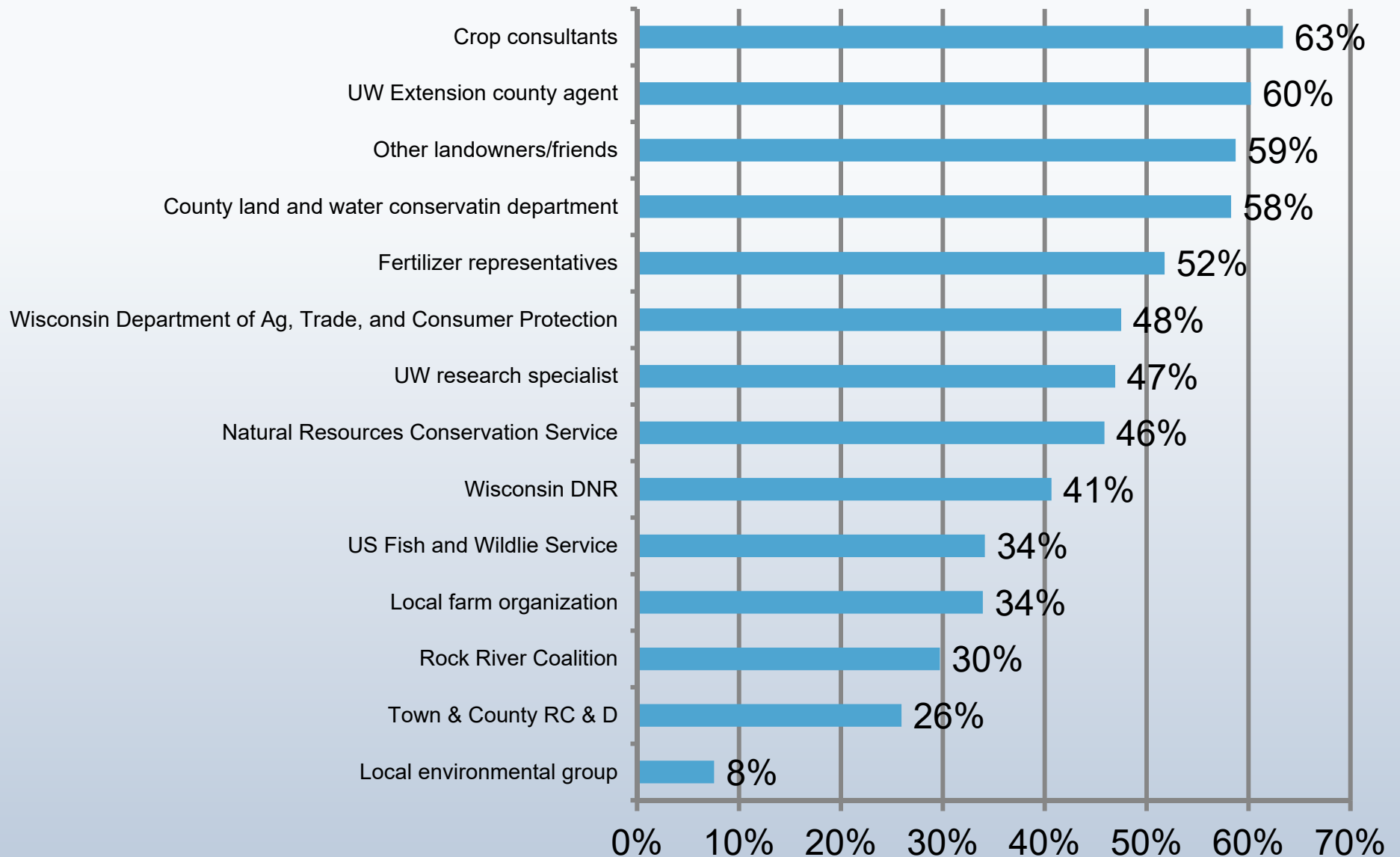
- | | | |
|---|---|---|
| <p>Lake and Watershed Commission
Drew H. Leary, LAW Commission Co-Director
Ken Johnson, UW Reg. Water Lead
Meyer, Dave, Oakleaf
Katherine, Talk, Co. Dept.
Yahara Lakes Legacy Plan
Kevin Commons, County??
Madison Community Found (envi)
ary Nelson, City DM
Sue Jones, Co??
Co Lakes and Watersheds (More a
how?)
WCHR / Sue Jostelli
Doug Bach, WLA pres
Co Land & Water Res
Jim Loman
Cap Area Reg. Ping Commis
Bret Solomon, City Coun
Salva Rhodes, County, City Council
Mike Schumacher, City Council
Dok Lalrop, UW Limnology
Steve Carpenter, UW Limnology
Yahara Lakes Assoc
Bob Miller, WLA
Tommya Schmeider, Co PH
Sue Graham, DNR
Kurt Weke, DNR
Concok Richman, City PW
Mike Carlson, Gathering Waters
Dennis Pesser, DNR CP
Co Towns Assn
David Mohrhoff
Karl Root, Co PH
Ezra Meyer, CLEAN WI
Bill Rulenburg, bus owner
Zena Radtson, Inc
Fair Lakes & Watershed Commis
Co Land Conserv Comm
Marilyn
Mad City Ski Team, Andy Boser
John Van Dimer, Westport
County Dept
DNR Genl Off
Legislator
WI Env, Nat Res Comm
Gov Doyle
DNR Water Div, Reb Mchada, Todd
Ambs
Rons Miller, Biscoe
City Council
Assem Room
Co Env. Ag. NR Comm
UW
City Eng Dept
Maple Bluff, Snowwood Hills, Middleton
Verona, McFarlane, Sloughart
Westport, Madison, Burke, Kiddleon
Windsor, Pleasant Springs
City/town depts
Co programs
Dene Co Cities & Villages Assn
Madison Metro Sewer Dist, Dave Taylor
John Schaeffer
EPA Region 5</p> | <p>Madison Area Chamber, Jennifer
Alexander
NRCS, Co Field Off
THREVE
City's P.I., Tom Schelker
Developers on water
Madison Cass/Fiddis
Madison Water Util, Gal Gaweenda
Land stewardship apps
City P&T
Co P&R
City Planning
Mad Area Birds Assn
City Field Wgr, Jeanne Hoffman
W. Dept of Health/Farm Svcs
Mad Area Realtors Assn
Env Action Teams
Lakeshore owners and Phoskers
LEAS - Steve Cors
WI Dept Nat Hist Survey
Rat Seay, W. State Journal journalists
Nelson Institute
Co Farm Bureau
Mad Fishing Expo
Wastes, no
Yahara Fishing Club
Co Conservation League
Conservation and env groups - list
E-Side Water Coal. Wiking Club, Dave
Melton
Ruttsbags
L-T Eco Res Prog (UW Limn)
Small Creek
Geology Nat Hist Survey, Ken Bradley
Commis on the Env
Ken Rater, UW
R. as Holly, Mad Pks
John Standage, Commis on the Env
Watershed groups
Local friends groups
Mad Mun. SW Park
Cedar W
Susan Dane
Gathering Waters
Nat Hist Land Trust
Co Manure TF
Bl Barker, Mad Pks Commis
UW Lakeshore Preserve Comm
UW Center Limnology
Mad City Ski Team
Mad City Paddlers
WI Env Initiative, John Moss
UW (Water, Ed, Eng
Dairy Prod Assn
Dairy farmers
Co Est. Club
WI Sports Dept, Innonant
Co Farmers Union
Rock River Coalition
Friends Lakeshore Nat Pres
Mad Env Gp, Garys Newell House
Dave Armstrong, UW water chemist
Pamela Baker, Ch Mus
Mad Env Justice Org</p> | <p>Currently low interest, low power
stakeholders
4 Lakes SCUBA Club
Al Schumacher, Mad Street Eupl
Aldo Leopold Nature Center
Anita Weier, Cap Time writer
Rob and Heidi Stokes
Ball shops
Camps that use the lakes
Candle manufacturers
Columbia Co Land Conserv Dept
Crop consultants
Dave Means, John's water
Dave Mahgony (?!), WI State Journal
media writer
Day camps
Cl. Anderson Hotels
Eggedged College
Fish communities
Firm Coops
Farmers, crop producers
Fish and Van Dyke Assoc
Fisher's (fishers)
Floating snack shack on Upper Mud
Lake
Tories of University Arboretum
George Dieckman, Mad Recycling
Coop
Hooper Sailing Club
Jim Hurley, UW Water Resources
Institute
Kees on Ice
Madison Children's Museum
Madison School Community Res
Mary Ellen, Gabriel, free lance writer
Meed and man
Mendota Rowing Club
Merritt Vahne
Merritts Tennis
Montgomery and Assoc
Neighborhood Assns (see list)
Neighborhood organizations
Neil Herben, Vac Mag and Co S IV
Public libraries in watershed cooperate
programs
Recreational paddling businesses
Relsay Club
Rotary Club
Rutledge, J.L.S. (Pks, Hana)
Shore Fishers
Sport anglers
State Dept of Tourism
Strand Associates
Students and teachers
S. Bialasina, Peters
Swimmers
Tournament anglers
University Arboretum
UW Rowing Team
Vand an Herms
Vand an Herms
Visitors and Convention Bureau
WI Dept of Trade and Consumer Protec
Wingra Canoe and Sailing Center</p> |
|---|---|---|

Stakeholder Identification and Analysis

INTEREST



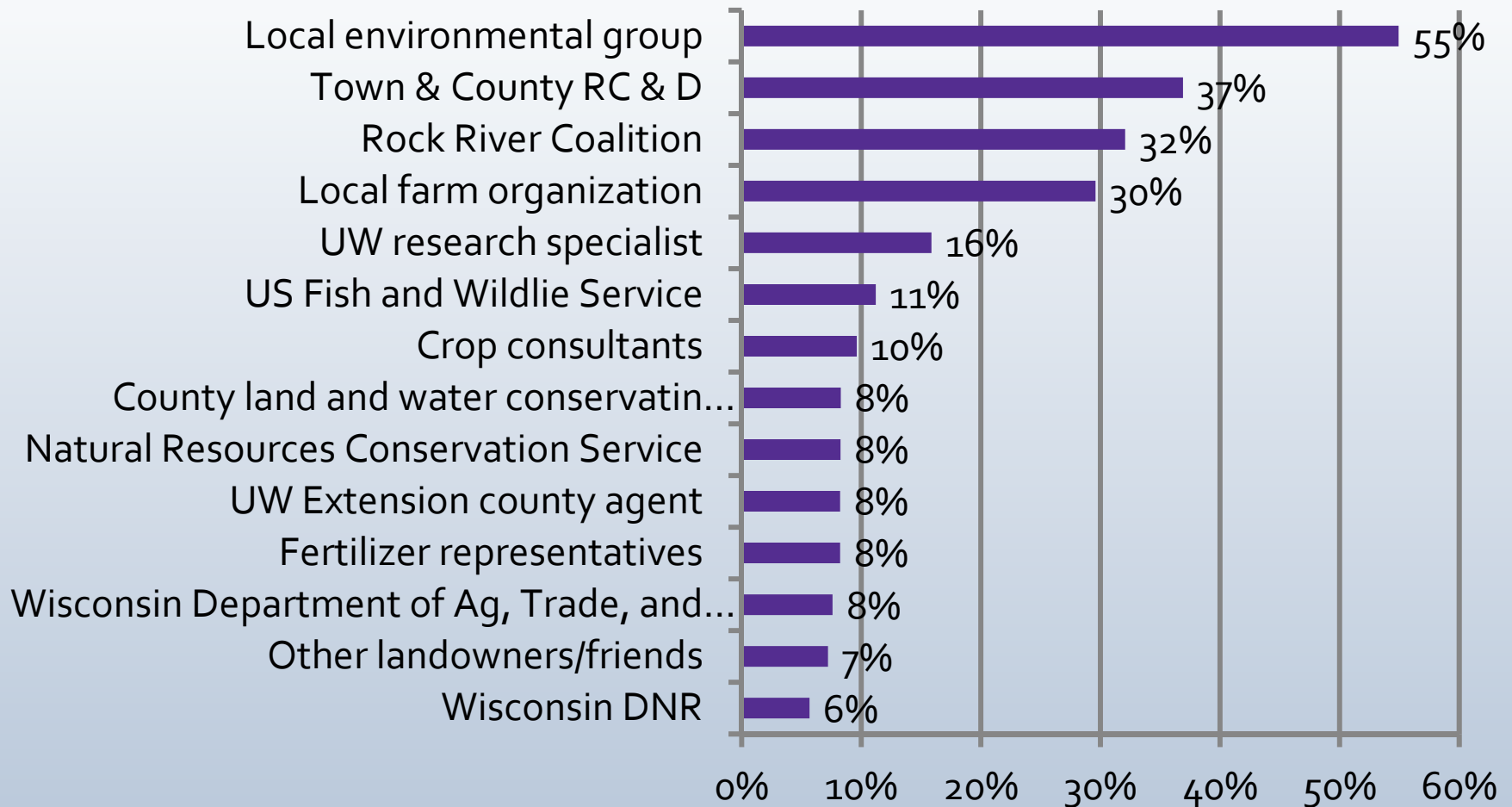
Percent that Trust Information Sources Moderately or Very Much



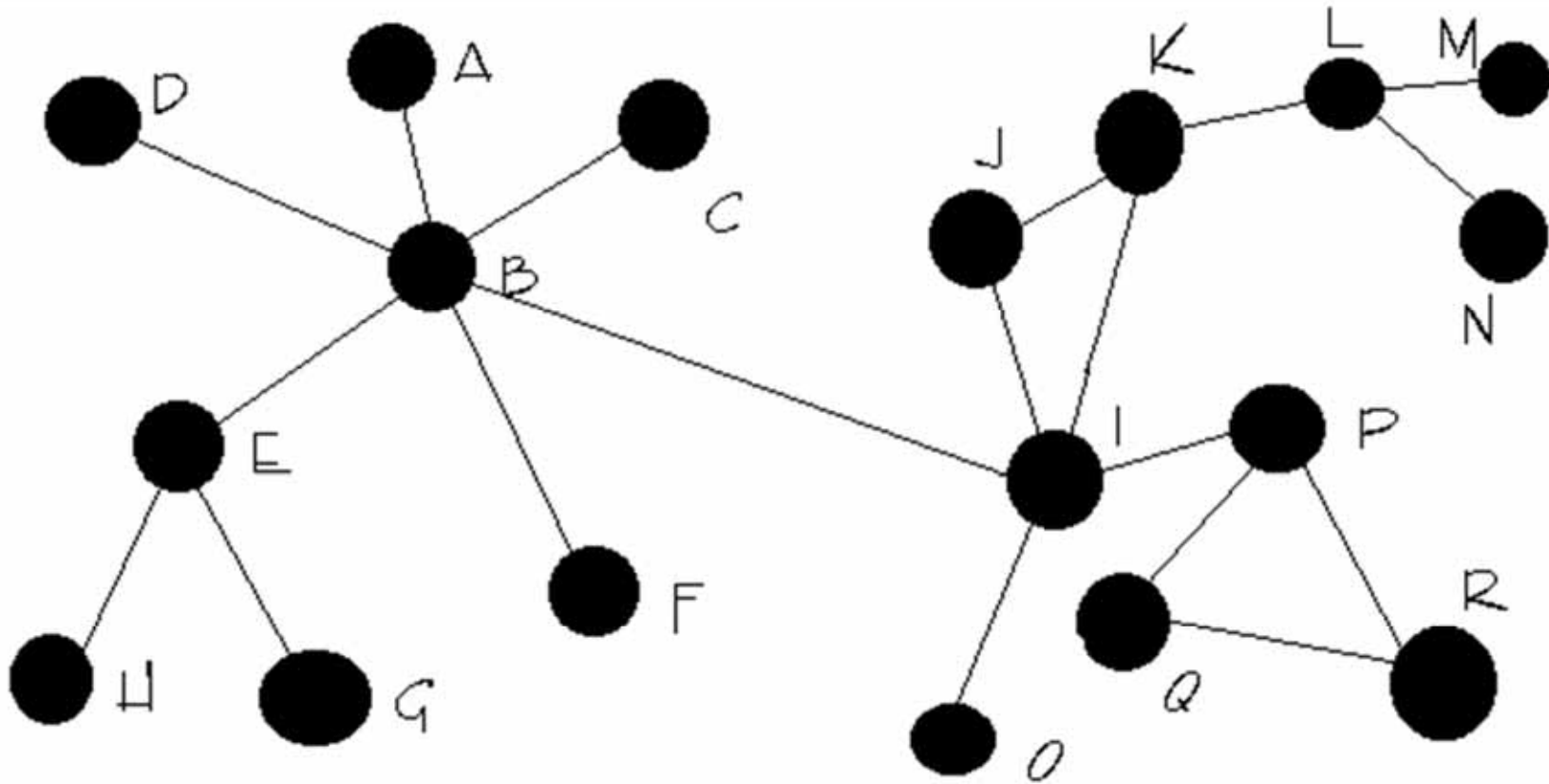
for info about soil and water conservation
(out of 460 responses, in Upper Rock and East Branch watersheds, WI)

Information Sources

Percent that are Not Familiar with Information Sources

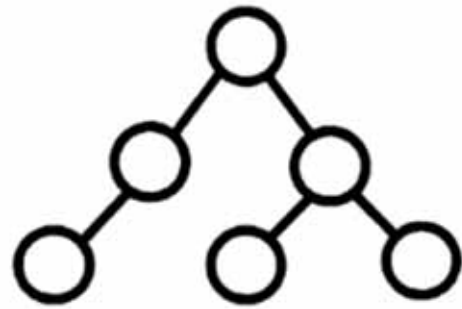


Networks

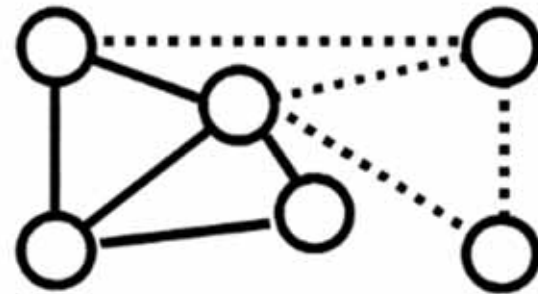


(Source: Social Networks: A Primer, James M. Cook, Department of Sociology
Duke University)

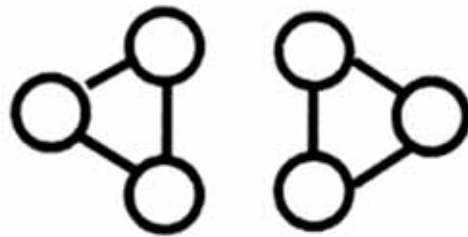
Network Structures



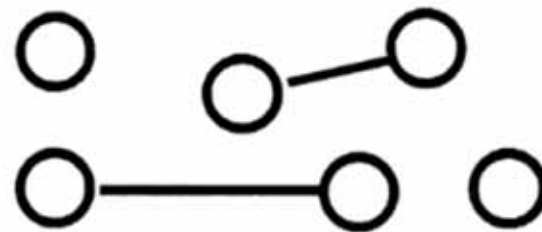
Pyramidal



Coalitional

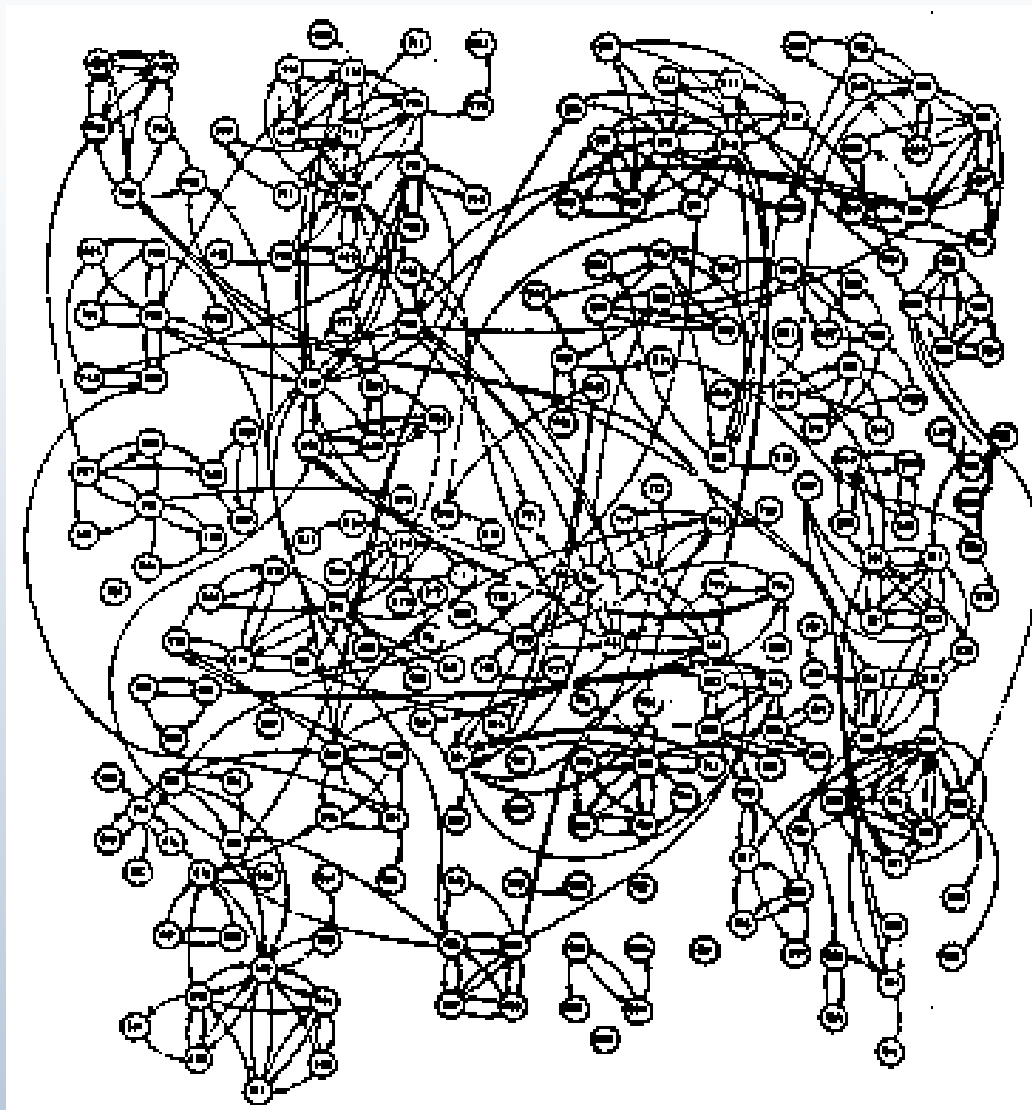


Factional



Amorphous

More complex



3. What information will be used and how?

Type

- Scientific
- Modeled
- Indigenous
- Social/historical/cultural/value-based

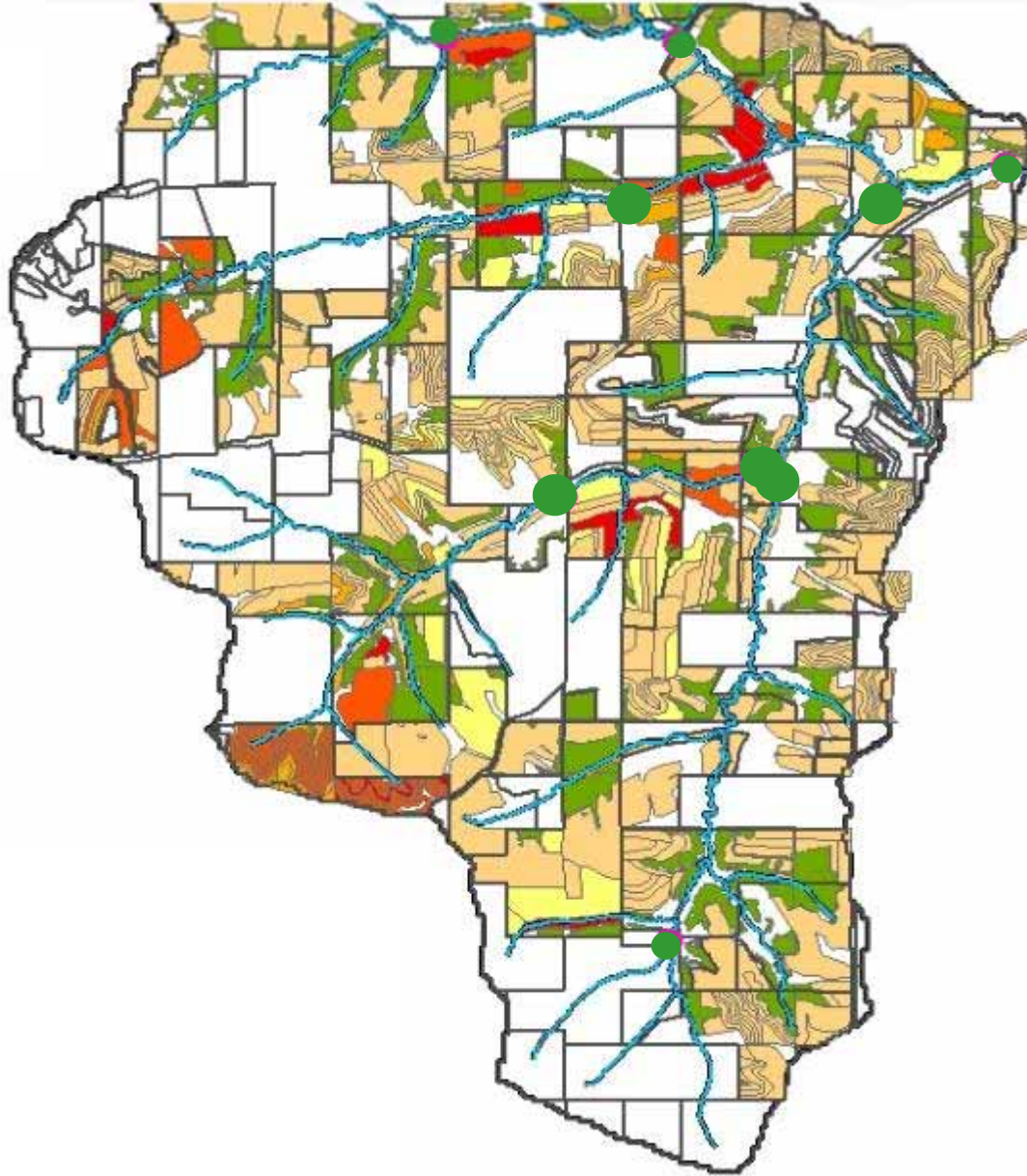
Use

- Education/context
- Planning
- Rule-making
- distributive

Issues

- Credibility/vetting
- Privacy/ownership

Info use: credibility, privacy



4. How will decisions be made?

- Internally by consensus (or near-consensus)
- Internally by vote
- Externally/non-participant
- Individually/coordinated

5. How will decisions be implemented?

- Pooled resources
- Discretionary partner resources and authorities
- External stakeholders
- Do need/situation match skills/staff available?



TABLE B-1. MAJOR PARTNER ROLES AND FUNCTIONS FOR THE NISQUALLY RIVER WATERSHED

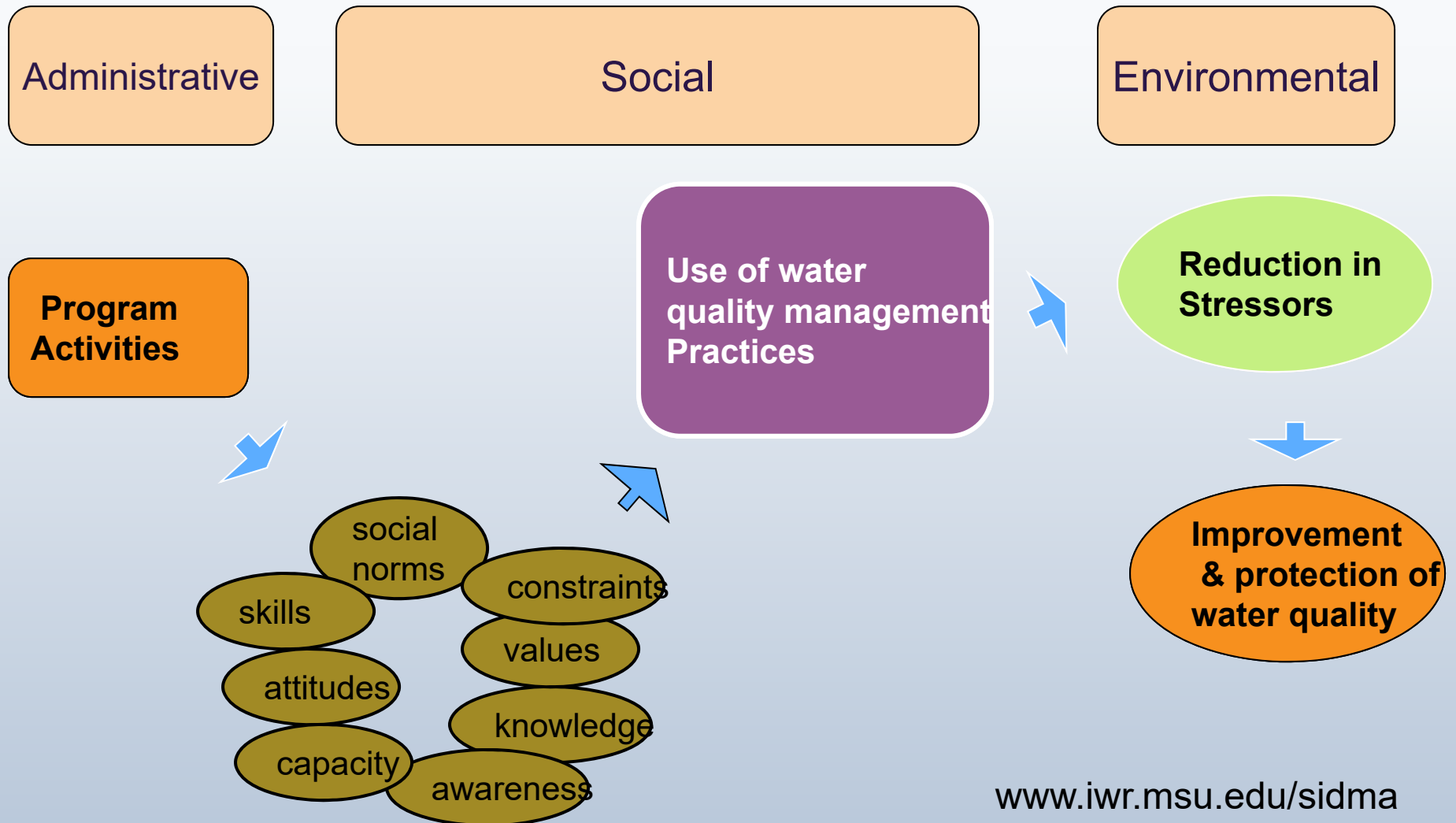
	Individual/ private citizens	Consultants	Local NGOs	County/local governments	Regional agency	State agencies	USEPA	NRCS	Other federal agencies	Tribal government
ADMINISTRATION/MANAGEMENT										
Initiation/convening						■				■
Administrative functions						■				
Coordinative functions	■		■			■				■
Formal partnership facilitation										
Information provision/analysis	■	■	■	■	■	■		■	■	■
Implementation/management actions (BMP installation, habitat work)	■	■	■	■		■		■	■	■
FUNDING										
Funding for planning				■		■				
Funding for implementation staff				■		■	■	■	■	■
Funding for implementation/ management actions (BMPs, habitat improvements, land acquisition)	■		■	■		■	■	■	■	■

6. How will accomplishments be measured?

- Environmental Outcomes
 - Response Lag
- Other Outcomes
- Interim measures



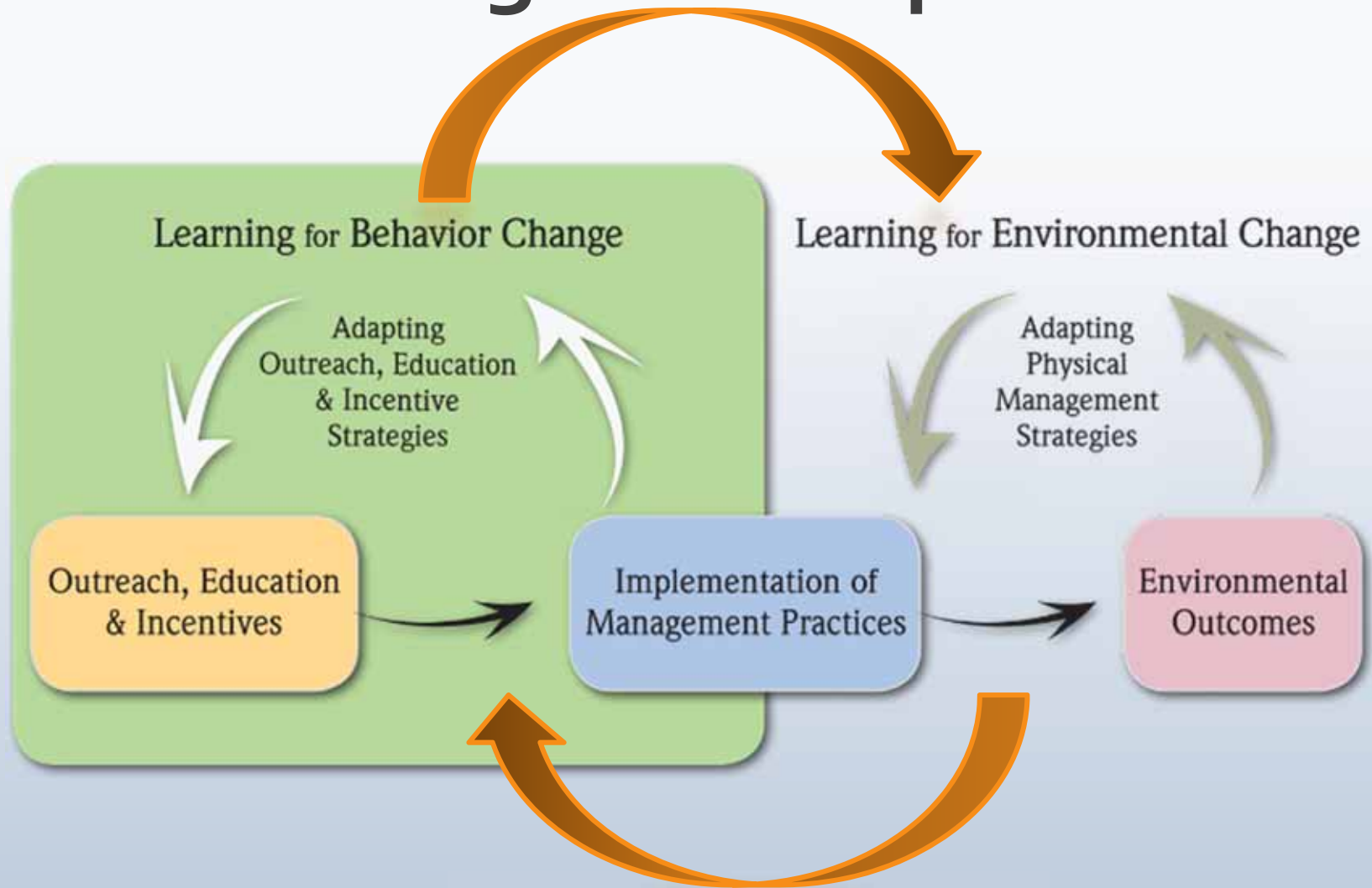
Interim Measures: Social-behavior change indicators



7. What provisions for learning and adaptation?

- Recognition of uncertainty
- Systems for interpreting findings and implications
 - Data review forums
- Organizational support/acceptance for “adaptation”
 - Is it acceptable to fall short/fail?

Learning and Adaptation



Diagnostic Questions

1. What are the goals?
2. Who should be involved, and in what way?
3. What information will be used and how?
4. How will decisions be made?
5. How will decisions be implemented?
6. How will accomplishments be measured?
7. What provisions for learning and adaptation?

