

Psychological Barriers and Unintended Consequences in Outreach Campaigns Promoting Natural Shorelines with Property Owners

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Extension role



- Social marketing to encourage voluntary behaviors (e.g., natural shorelines, AIS prevention)
- Promote science-based recommendations
- Understand audience and craft targeted strategic communication strategies
- Help natural resource professionals and conservationists communicate more effectively

False assumptions



- Knowledge deficit model
 - Audiences simply lack specific knowledge to support and adopt new practice
- More information = better outcomes?
 - Effective communication is about explaining the science better or getting out more information
- Little empirical support
- Communicating scientific reasons for behavior change important but info alone often not enough to change behaviors

Communication outcomes



Mediated communication



Knowledge/ Awareness

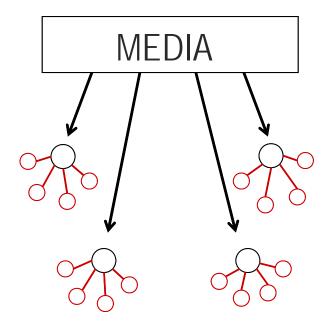
Interpersonal communication



Attitude/ behavior change

Two Step Flow of Information





= Opinion leaders= Individuals in contact with opinion leaders

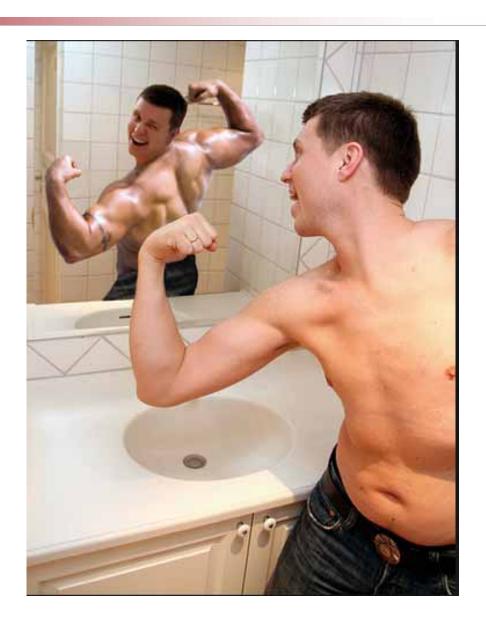
Motivated reasoning and perceptual filters



- See what we want to see and seek info that confirms pre-existing attitudes
- Use short cuts when faced with choices about complex scientific issues
- Connect info to what we already know and believe
- Same science mean different things to different people

Self Enhancement Bias





Motivation and the perception of shoreline impact



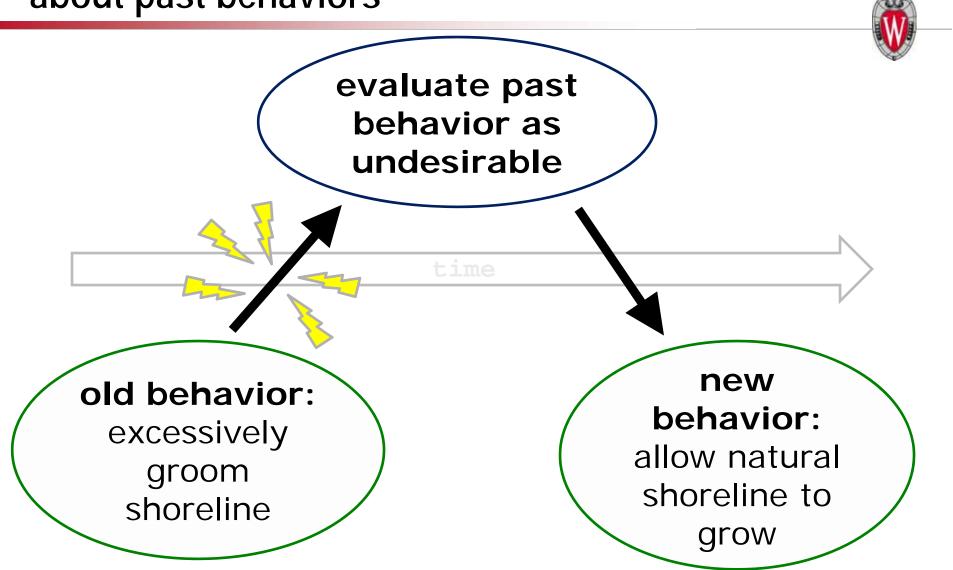
Theory of Motivated Cognition

Preference for a particular outcome can influence the selection of cognitive strategies for accessing, constructing, and evaluating beliefs.

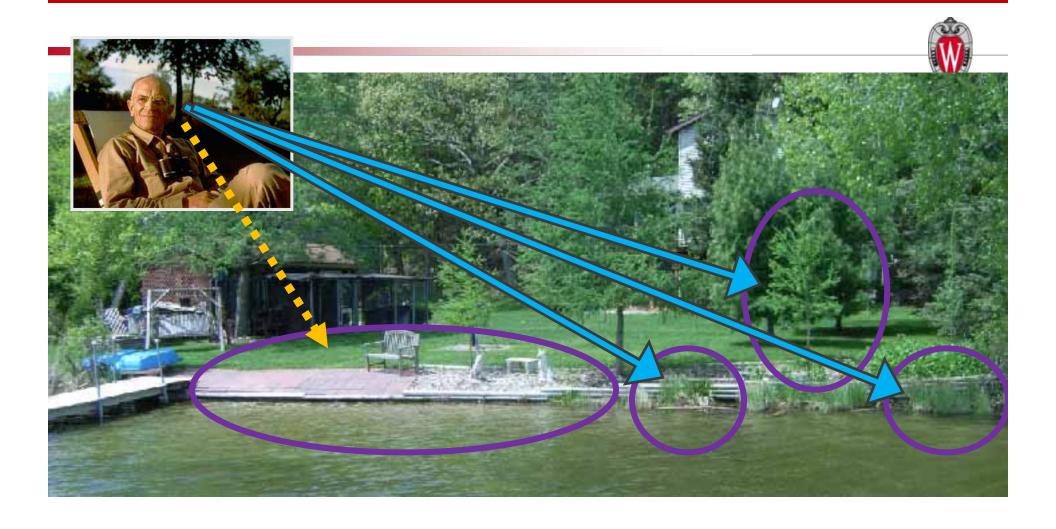
- Kunda, Z. (1990). The case for motivated reasoning. Psychological Bulletin, 108(3), 480-498.

In other words: people see what they want to see.

People motivated to avoid negative conclusions about past behaviors



Motivation and the perception of shoreline impact



Motivation and perception of shoreline impact

Field Study:

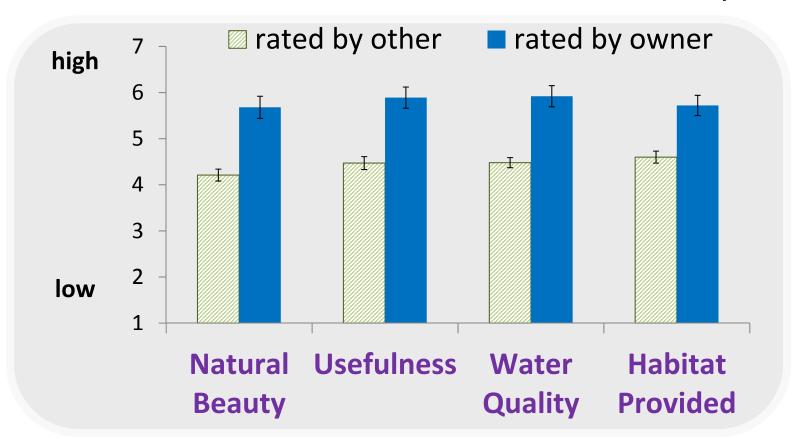
- Central Wisconsin
- > 71 property owners (59% response rate)



- Rated photos of shorelines on 4 measures: natural beauty, water quality, habitat, usability
- 8 photos: 1 photo of their own shoreline+7 photos of other participants' shorelines

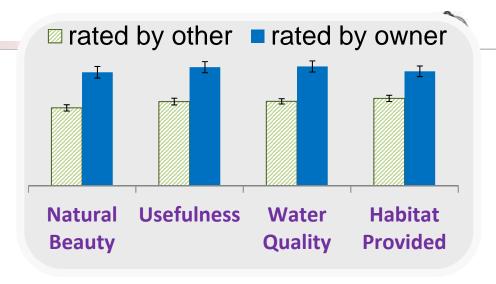
Results: Motivation and perception of shoreline impact

Owners underestimate their own shoreline's impact



error bars show 95% confidence intervals

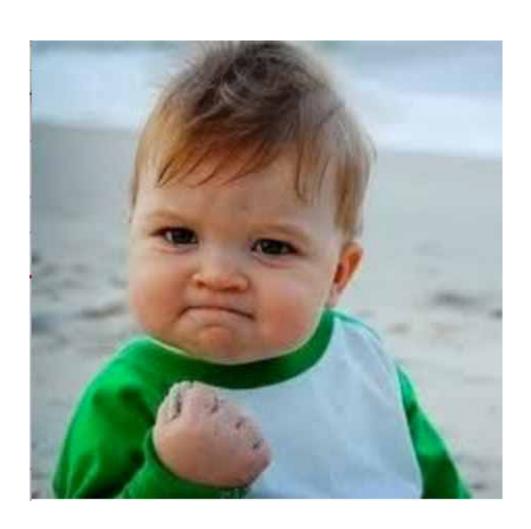
Implications



- Suggests individuals are motivated to underestimate environmental risk to protect self view
- Owners are unlikely to improve their shoreline if they don't perceive a problem.

Reactance Theory





Why not just give people objective feedback? Reactance in Action

Outcome Measure

Actual past behavior





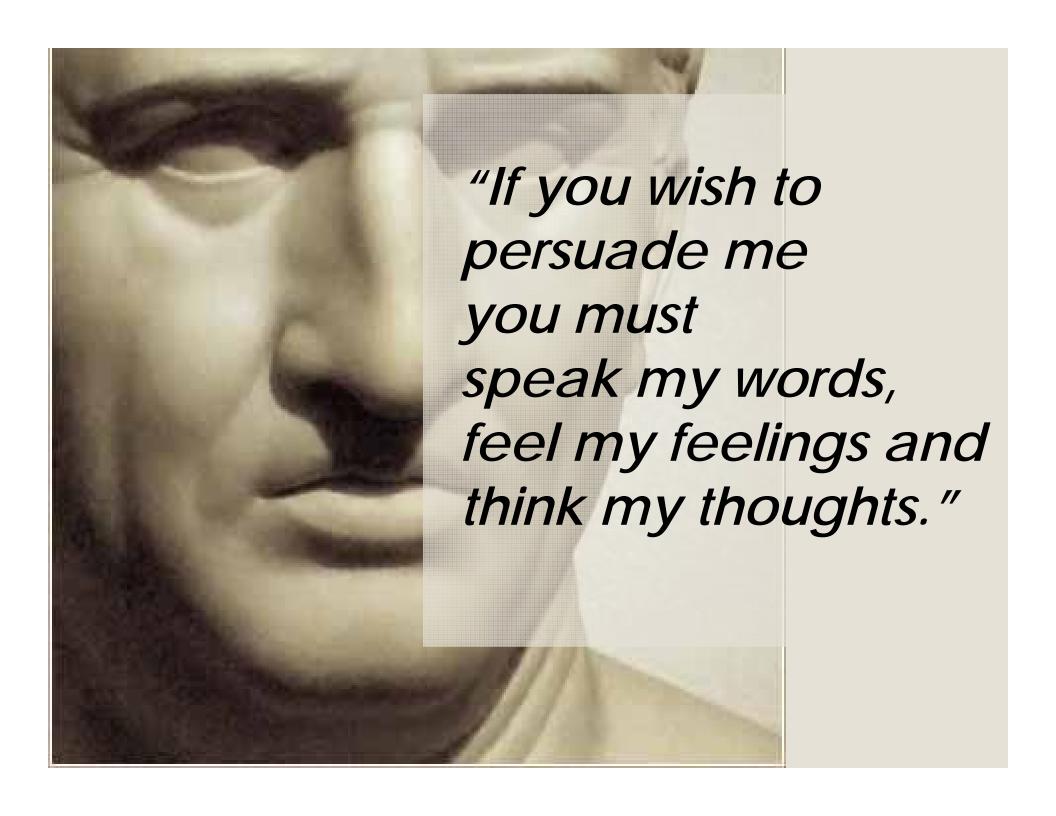
• Range 0 – 11; high=good



Fear appeals



- Not easy to scare people
- Scaring people does not always product attitude change
- Fear appeals can fail because they arouse too little/too much fear
- Self efficacy must rise to meet threat
- Common for people to deny or defensively distort communicator's message
- People tend to think bad things are less likely to happen to them than others



Other contexts?



- Eurasian watermilfoil and 2,4-D
- Perceived regulatory overreach?
- VHS success story or a sham?

Thank You!



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