

# Crafting local opportunities to meet global challenges

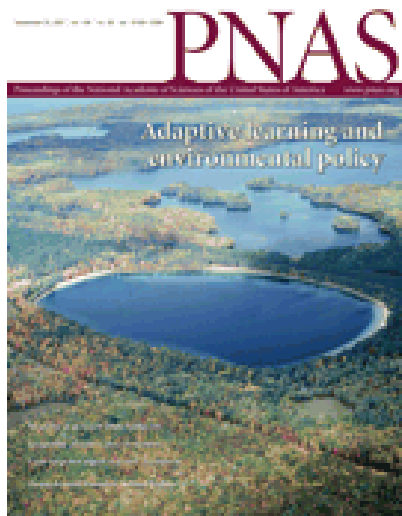
Marco Janssen

School of Human Evolution  
and Social Change,  
Center for the Study of  
Institutional Diversity



With contributions from Marty Anderies, Elinor Ostrom, Robert Tobias and Abigail York

# Background

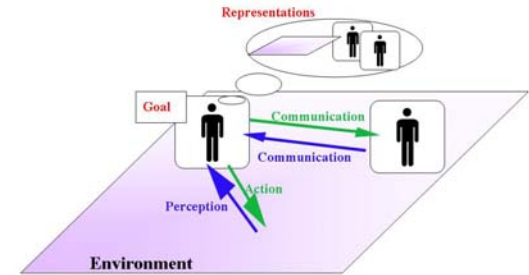


Special feature PNAS  
Ostrom, Janssen, Anderies (2007)  
September 25

- Going beyond Panaceas.
- The problem of fit between ecological dynamics and institutional arrangements.
- How do appropriators craft institutions and what helps them to fit it to the ecological context?

# Studying institutional diversity using multiple methods

- Stylized models (differential equation models and agent-based models),
- Controlled experiments (laboratory and field),
- Role Games
- Case studies (archival, survey, archaeological data).



- Even when we figure out carbon tax/ cap and trade, and have cheap technological solutions, we need to develop institutional arrangements that fit the local contexts.
- Rules in use vs. Rules on paper
- Some lessons learned from studying institutional diversity:

# Monitoring and enforcement

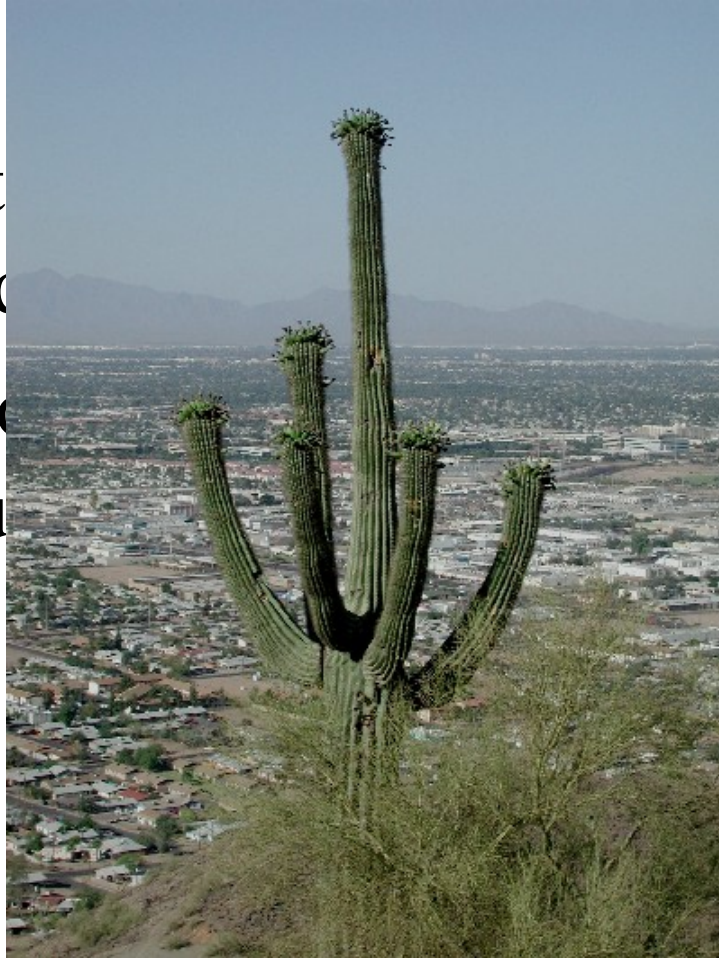
- Comparative studies of social-ecological systems show that the rules on paper (private property, common land, state property) does explain not explain differences in land use (deforestation). What matters is how monitoring and enforcement is implemented.

# Type of rules

- Comparative analysis of long-lasting social-ecological systems show that rules focus on when and where who can appropriate from common resources, not how much.
- Emission quota?

# Salience and Framing

- Climate change is a salient issue when citizens are coming out of the shadows.
- Frame people's perceptions of local (cultural, economic, ecological) context.



salient issue  
decisions in the  
emission reduction to  
economic, ecological)

# Social norms

- The role of social norms in developing public policy (Bowles, 2008)
- Framing the problem: intrinsic motivations vs. economic reasoning
- Social references in policies
- We are now framing the climate change problem

# It's a global problem, stupid

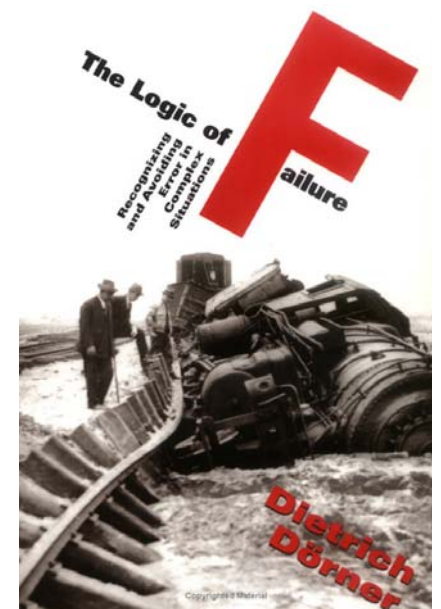
- Skeptical about global treaties:
  - Track record global treaties
  - Enforcement problem
- Global scale may provide incentives, coordinate monitoring and facilitate learning.

# Just do it

- Facilitating and stimulating local experiments and initiatives (wisdom of the crowd)
- At higher levels of scale facilitate learning of success and failures, and provide instruments of monitoring and incentives (Xprice)
- Successes at local scale can percolate to higher level of scale (cities/states vs federal government USA)

# What about education?

- If we develop an adaptive approach critical decisions will be made by the children of today.
- Lack of educational tools to learn skills of making decisions in complex systems
- Educational games



# To conclude

- The ability to monitor and enforce policies
- The role of social norms in decision making
- Increasing the skills of adaptive governance of the next generation