

Puget Sound Science Update

Chapter 2B Review

Kathleen Wolf, Ph.D.; Research Social Scientist
UW College of the Environment
USDA Forest Service Pacific NW Research Station

Mary Ann Rozance, M.S.: University of Washington

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The Socio-Economic Condition
of Puget Sound
aka
Human Dimensions of Puget Sound
Ecosystem Health and Recovery



Recent Social Sciences Contributions

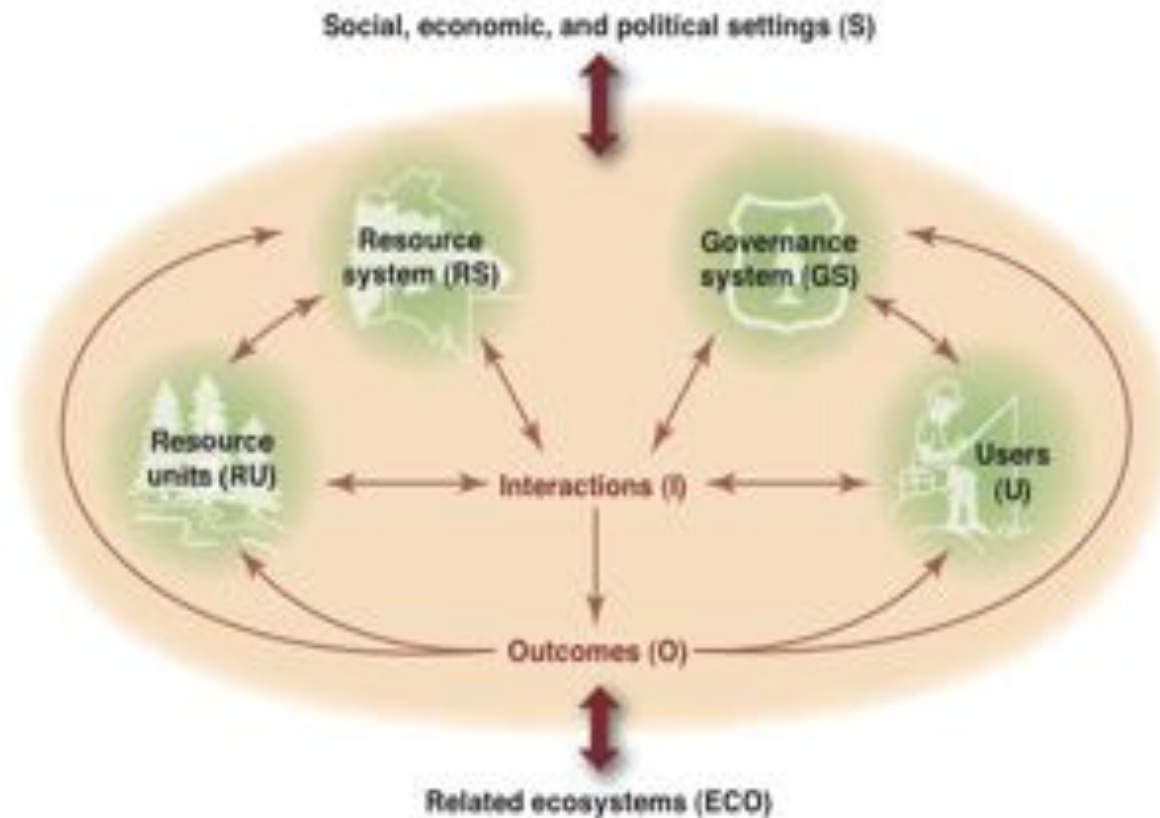
- ◆ 2008: PSP Human Health Forum Topic Forum & Discussion Paper
- ◆ Chapter 1B: The Puget Sound Ecosystem: Incorporating Human Well-Being into Ecosystem-Based Management
- ◆ June 2011 (report in July): Human Dimensions of PS and Washington Coast Ecosystem-Based Management
- ◆ July 2011 report: The Human Dimension in Puget Sound Ecosystem Recovery: Contribution of Social Sciences to the PSP

**Ch 2B: The Socio-Economic
Condition of Puget Sound**

Human Dimensions & PS Recovery

- ◆ temporal scales
- ◆ landscape scale
- ◆ urbanized watersheds – complex human systems
- ◆ social-ecological dynamics
- ◆ ecosystem services – provisioning, regulating, supporting, cultural

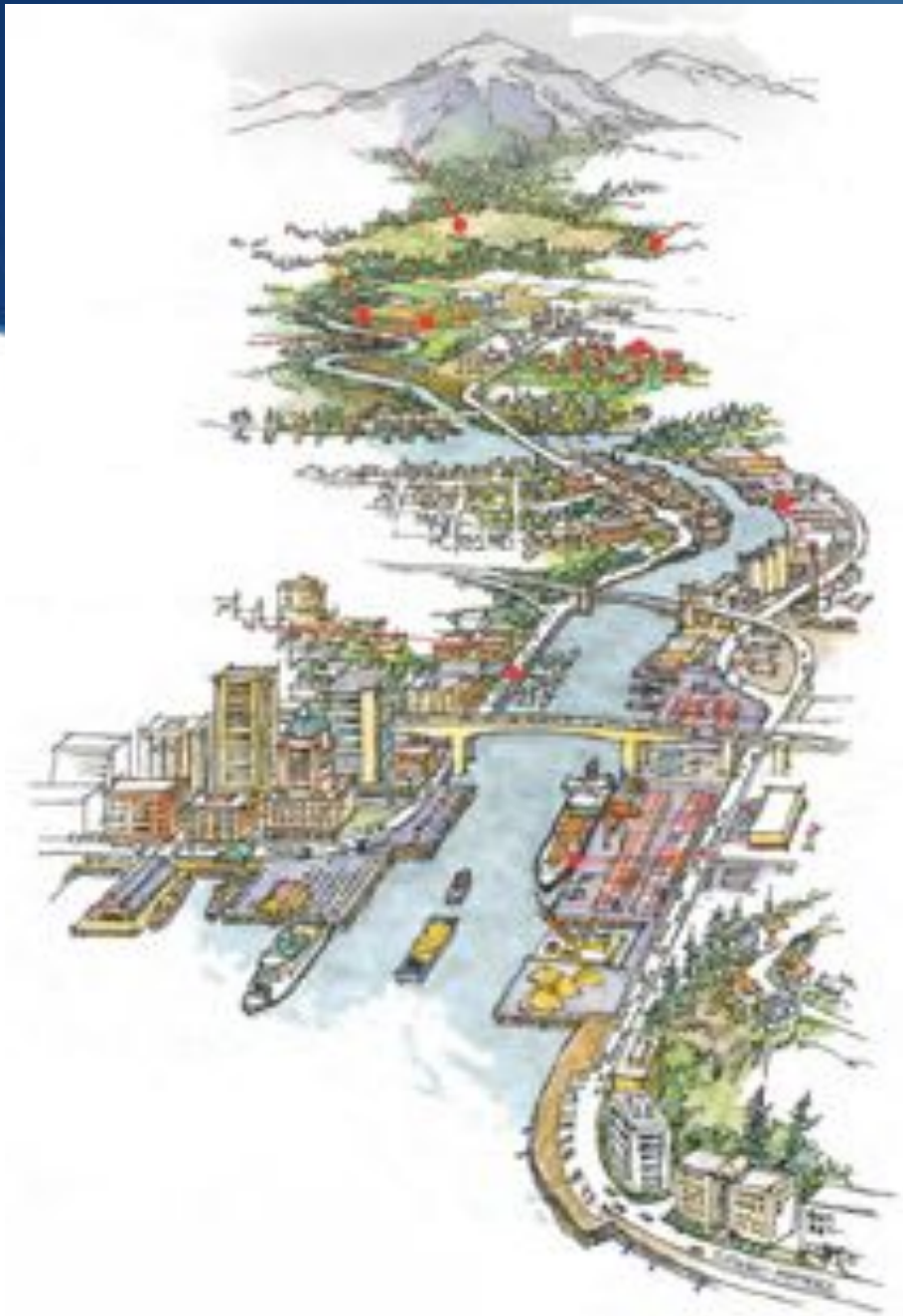
Puget Sound as Social-Ecological System



**ecosystem
management**

**‘Total Ecology’
includes:
biophysical
human
institutional**

**Michael Orbach
Duke University**



John Green, MARS Architecture and Urban Design

Landscape
Scale:
snow cap to
white cap
vs. nearshore

	Roles	Recovery Actions
<p>'macro' scale</p> <p>state, federal, & international agencies</p>	legislators policy makers scientists	governance incentives/regs knowledge building
<p>multi-jurisdiction landscape unit</p>	tribes NGOs watershed councils	planning regional policy 'brokering'
<p>local government city/county</p>	elected champions technical agencies planning depts	political 'grounding' best practices applied technologies
<p>communities of practice business sector</p>	design firms commercial/industrial resource dependent communities	best practices goods & services sustainability programs
<p>neighborhood</p>	schools civic organizations associations	civic engagement social networking place making
<p>households/ individuals</p> <p>'micro' scale</p>	residents homeowners visitors	awareness behavior adoption stewardship

Social Systems Scale:

social units & social science disciplines

Chapter Outline

'macro' human scale



- Land and Resource Use Patterns – Historic and Projected
- Governance Institutions and Processes
- Science, Policy, and Successful Integration

Chapter Outline

'meso' human scale



- Communities and Local Jurisdictions
- Organizations, Associations, and Firms

Chapter Outline

'micro' human scale



- Place, Meaning, and Traditional Cultures
- Individual Cognition and Environment
- Stewardship Action and Participation

Chapter Outline

Cultural Ecosystem Services

- ◆ Aesthetics, Sense of Place, Livability
- ◆ Recreation & Leisure
- ◆ Tourism
- ◆ Health & Wellness
- ◆ Social & Community Relations
- ◆ Cultural, Historic, Identity or Heritage
- ◆ Spiritual, Religious & Inspiration
- ◆ Science, Education, & Knowledge
- ◆ Ethical & Existence Values

What was learned?

- ◆ expanded understanding of what the social sciences community of science can contribute
- ◆ biophysical science ‘pulse’ across the decades
- ◆ though less local social science there are many generalizable studies and findings
- ◆ how is future science structured? breadth vs. depth
- ◆ as we proceed, who should do this science?



Questions, Comments, or Suggestions?

acknowledgements

Scott Redman, Dave Ward

PSP Social Science Advisory Committee
USDA Forest Service-PNW Research Station