ADAPTING WATER LAW TO A CHANGING CLIMATE: THROUGH THE WINDOW OF DROUGHT

Barbara Cosens
Professor
University of Idaho College of Law
Waters of the West Interdisciplinary Program



Water is a common pool resource



Tragedy of the Commons

(1968) Garrett
 Hardin's essay
 addressed the
 conflict between the
 short-term interests
 of individuals and the
 long-term welfare of
 society



Regulation

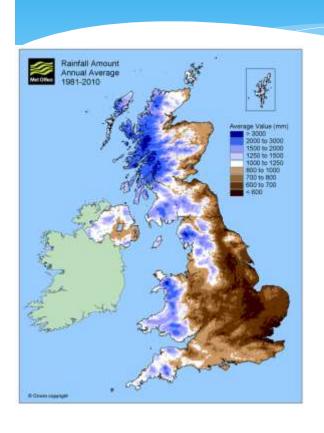


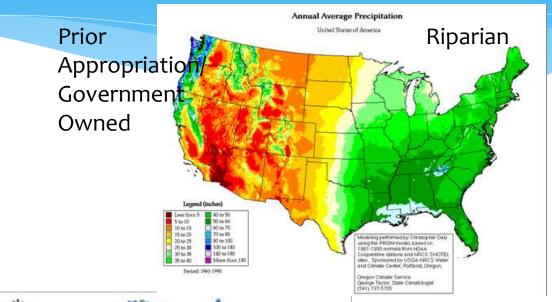
Planning

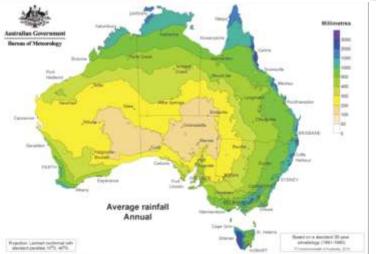
Self-Organization

Property

The relation between water allocation law and climate



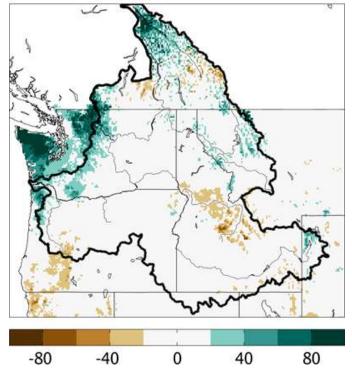




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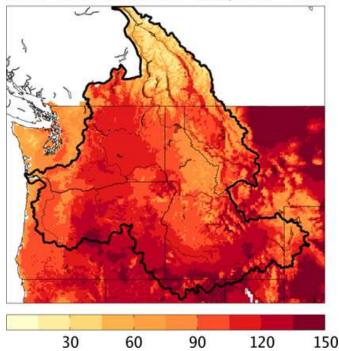
Predicted Water Deficit with Climate Change: Columbia River Basin, N. America

 Δ Runoff 2040-2069 minus 1971-2000, units = mm

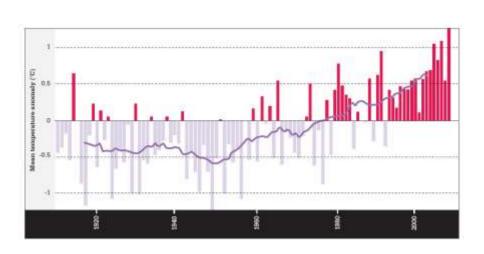


Source of figures: Dr. John Abatzoglou

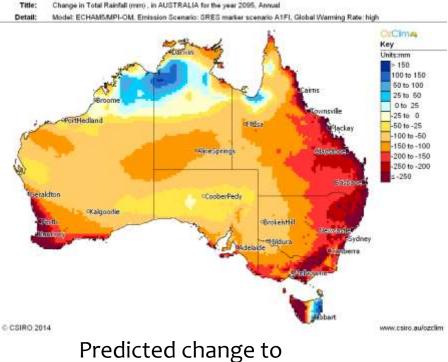
 Δ Climatic Water Deficit (PET minus AET) 2040-2069 minus 1971-2000, units = mm



Climate Change: Australia



Mean Temperature South Australia



annual rainfall 2095

Climate Change Preview:

Drought

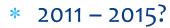




Australia

California

* 1997-2011





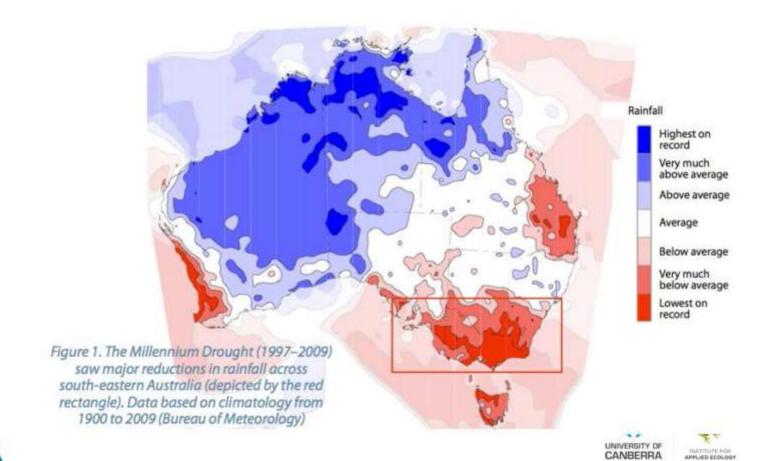




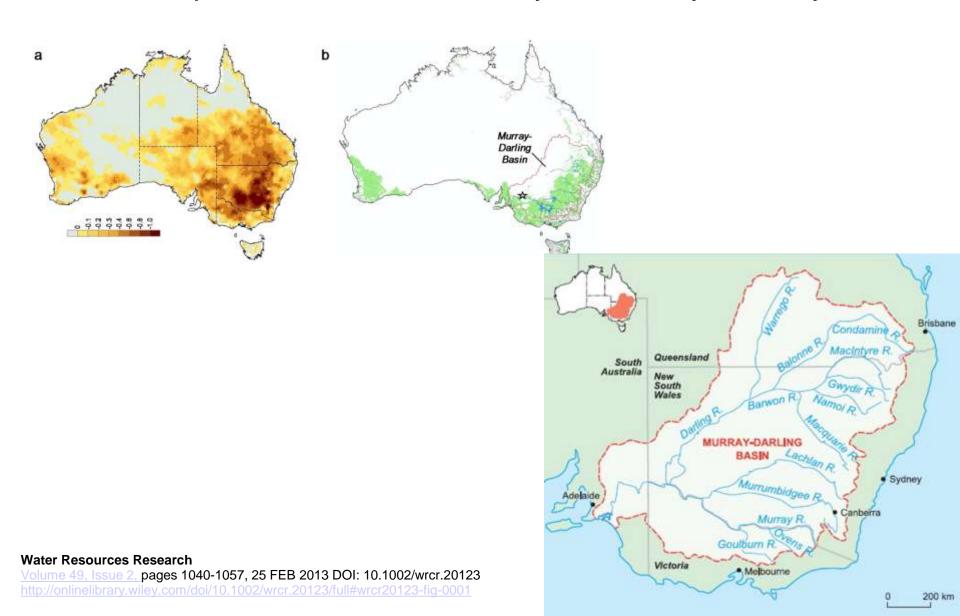


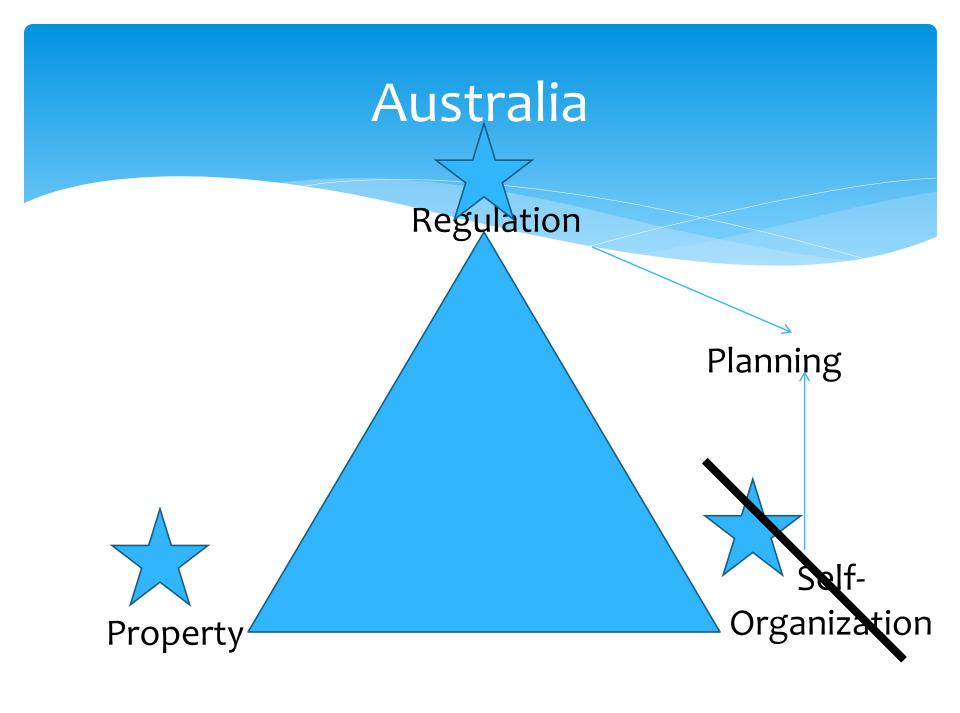
Millennium Drought in SE Australia

- 1997 to 2009: Longest, most severe on record
- Equivalent to 'worst case' 2050 climate change scenario

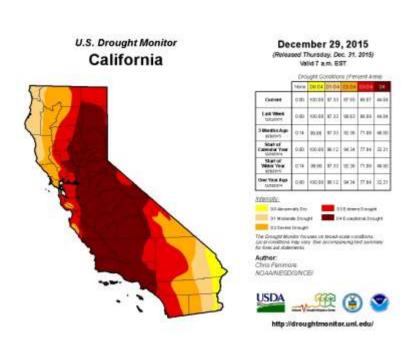


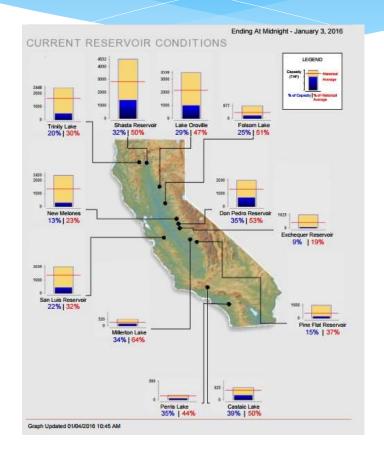
The Millennium Drought in southeast Australia (2001–2009): Natural and human causes and implications for water resources, ecosystems, economy, and society

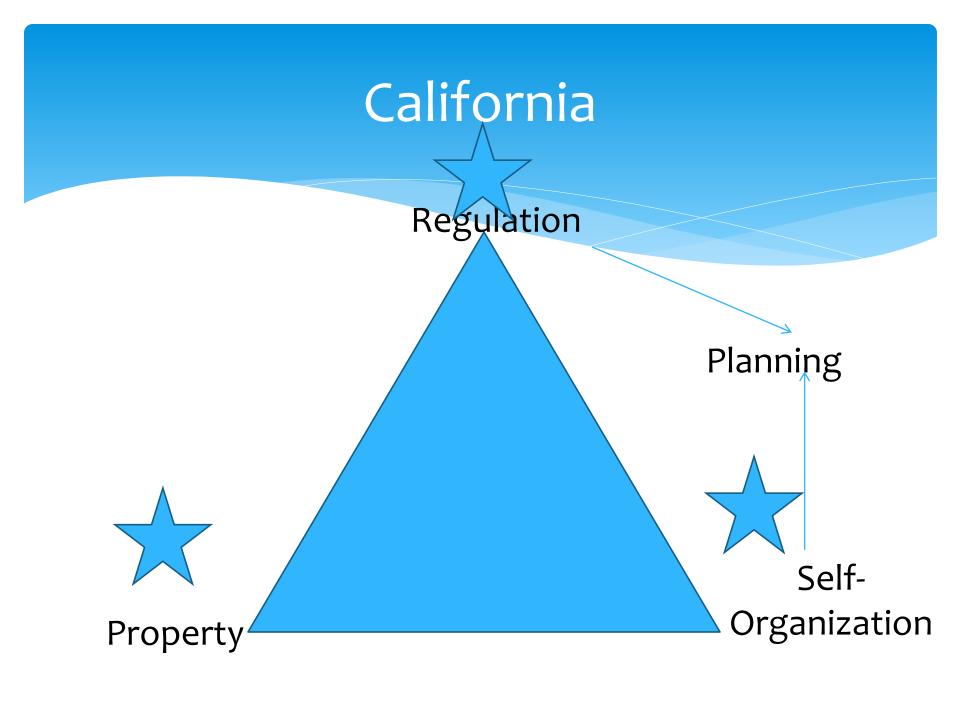




California 5-Year Drought







Allocating a common pool resource

