

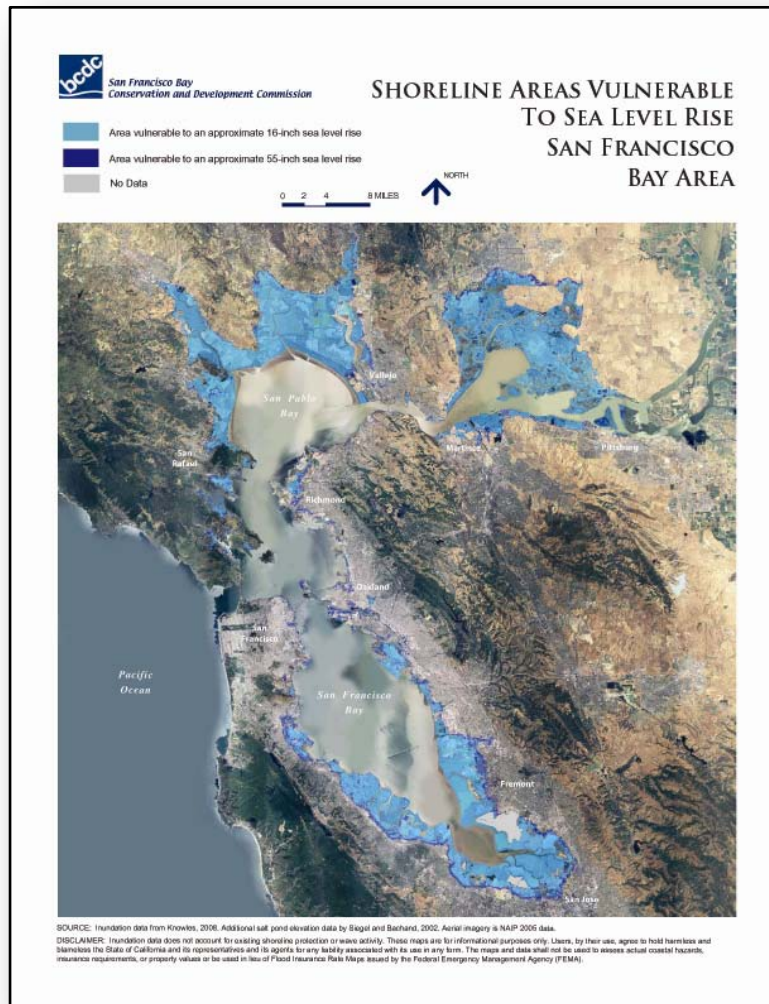


# The Climate Change Adaptation Policy Ecosystem

Dana Archer Dolan  
George Mason University

Presentation to the  
Chesapeake Bay Science & Technical Advisory Committee  
Philadelphia, PA | March 15, 2011

# Initial Observations from the Field: Data Visualizations



Pacific Institute  
SLR maps



# Initial Observations from the Field: Architecture & Design



San Francisco BCDC  
“Rising Tides” Design Competition

# Initial Observations from the Field: Art (and Poetry!)





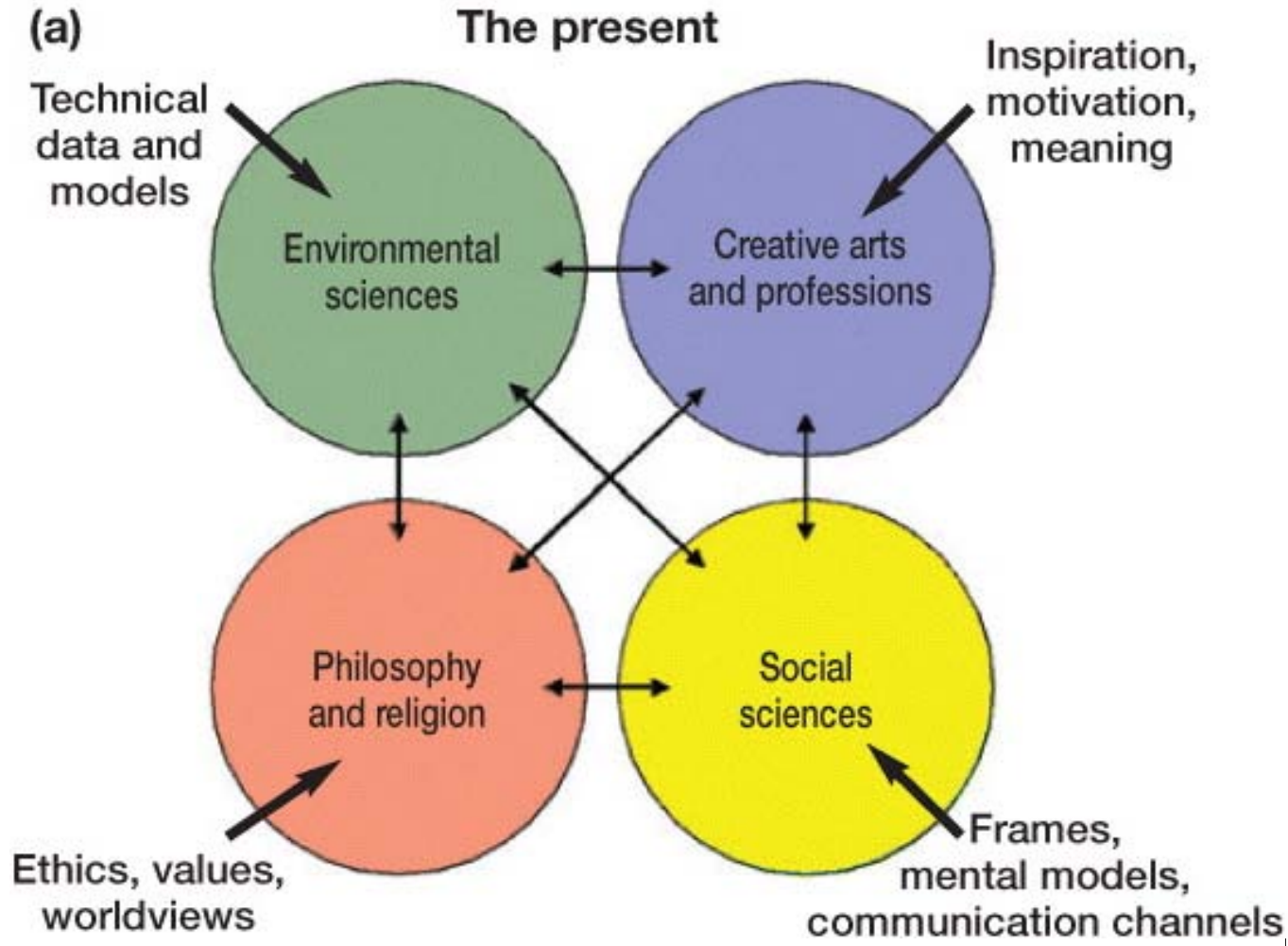
# Initial Observations from the Field: Drama and Controversy



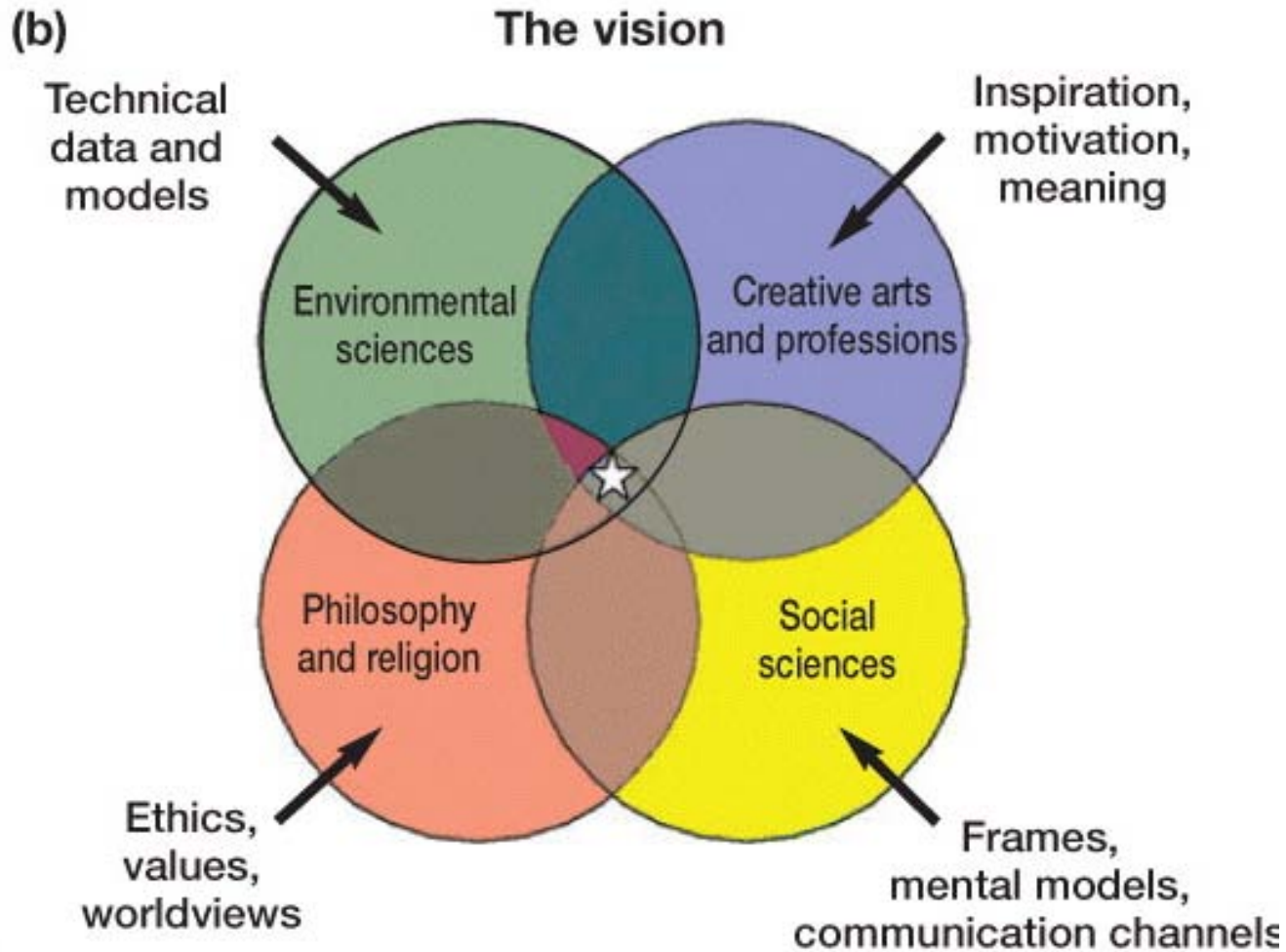
Monterey Bay Aquarium's  
"Hot Pink Flamingos" exhibit



# Nisbet, Hixon, Moore, & Nelson. 2010.



# Four Cultures: Vision

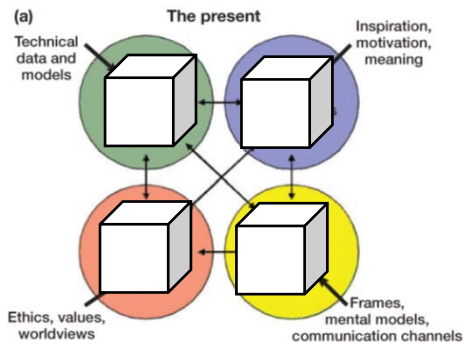


# Emerging Interdisciplinary Policy Networks in the Climate Change Adaptation Community

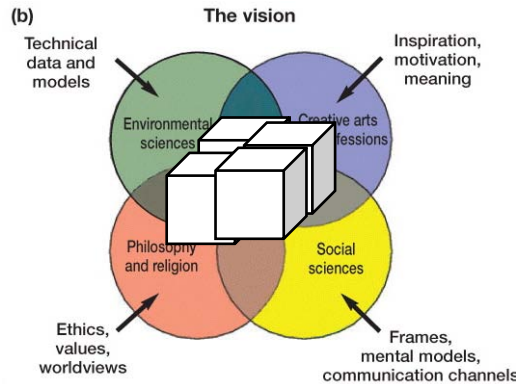
- Background Research
  - Governance : Networked; Collaborative; Participatory
  - Institutional Analysis; Social Network Analysis
  - Interdisciplinary studies
- Field Work: Emerging Policy Networks
  - Public agencies and governments
  - Nonprofits, Education
  - Private Industry & industry coalitions
  - Informal learning institutions
  - Individuals/Publics/Citizens



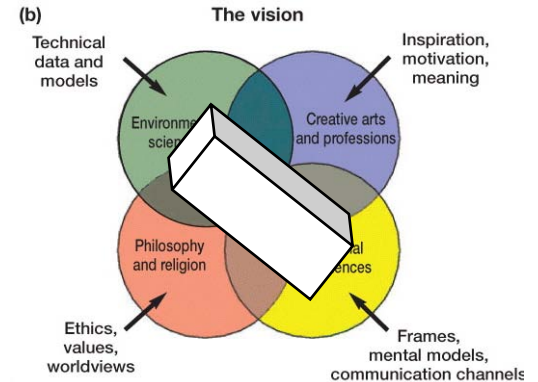
# CCA Policy Ecosystem: Transition Hypotheses



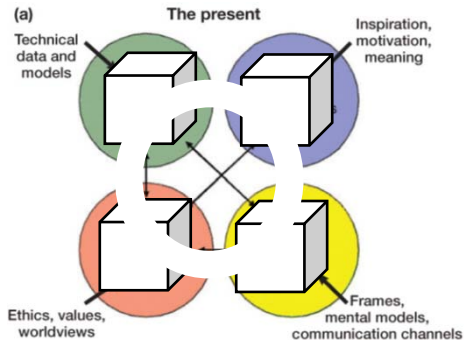
Specialization



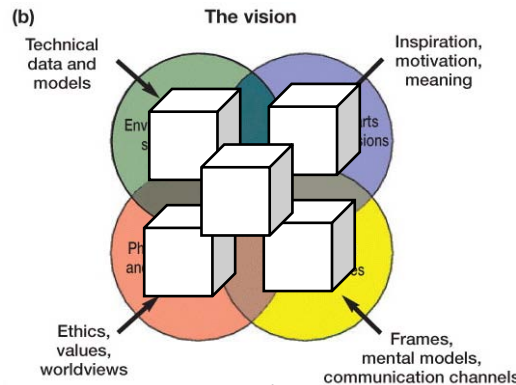
Collaboration



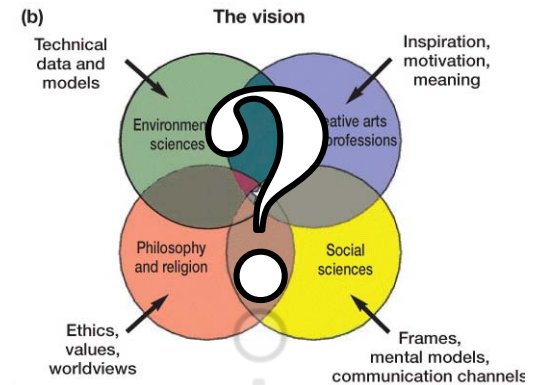
Expansion



Informal  
Coordination



Boundary  
Spanning



# Initial Questions:

## *Descriptive*

1. What is the developmental sequence of network structure over time?
2. Which organizations bridge the four cultures? Where are the structural holes, and how are they being filled?
3. What is the balance between formal and informal coordination, and between distributed and hierarchical decision making structures?

## *Policy Implications*

4. How do these factors impact the region's CCA efforts to reduce vulnerability and enhance adaptive capacity?
5. Where are the places to intervene in the ecosystem that can accelerate these efforts?

## *Chesapeake Bay Organizations*

- **What role will you play in this emerging policy ecosystem? How will your mission evolve?**

# Do We Need More Science?

“...we call for the science community to... **build bridges to other communities of experts**—such as clergy, financial managers, business managers, and insurers—who help people, organizations, and governments assess and express their values.”

- Bowman, Maibach, Mann, Somerville, Seltser, Fischhoff, Gardiner, Gould, Leiserowitz, and Yohe. *Science*, (2010)

“...deliberations will require a **new synthesis that involves scientists, social scientists, historians—and others, too.**”

- Philip Kitcher, Professor of Philosophy, Columbia University *Science*, (2010)

“The abutment of **science with moral or religious values** is straining the relationship between science and society.”

- Alan I. Leshner is chief executive officer of the AAAS and executive publisher of *Science*, (2006)

**What *else*  
do we need  
in order to *act*?**

A black and white close-up photograph of Albert Einstein. He is looking slightly to the right of the camera with a thoughtful expression. His hands are clasped together in front of him, with fingers interlaced. The lighting is dramatic, highlighting the texture of his skin and the details of his hands. The background is dark and out of focus.

IMAGINATION IS MORE IMPORTANT THAN KNOWLEDGE.  
**KNOWLEDGE IS LIMITED;**  
IMAGINATION ENCIRCLES THE WORLD.

*Thank you!* Dana Dolan | [ddolan1@gmu.edu](mailto:ddolan1@gmu.edu) | 703-217-0829