

PERCEPTION AND THE PUBLIC

BRUNO TAKAHASHI, PH.D
RESEARCH DIRECTOR, KNIGHT CENTER FOR ENVIRONMENTAL JOURNALISM
SCHOOL OF JOURNALISM AND DEPARTMENT OF COMMUNICATION





RISK COMMUNICATION: What is it?

(Covello, 1992; DHHS 2002)



The exchange of information among interested parties about the nature, magnitude, significance, and control of risks.

Key Areas Related to RISK COMMUNICATION

Perception
Assessment
Messaging
Decision-Making
Planning/Management

+ Media response to crisis/risk

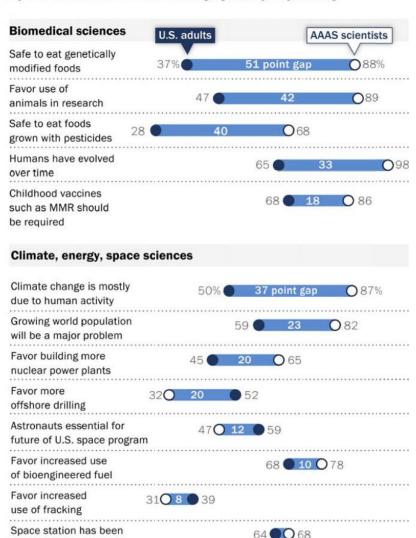
Fischhoff (1995)

Table I. Developmental Stages in Risk Management (Ontogeny Recapitulates Phylogeny)

- All we have to do is get the numbers right
- All we have to do is tell them the numbers
- All we have to do is explain what we mean by the numbers
- All we have to do is show them that they've accepted similar risks in the past
- All we have to do is show them that it's a good deal for them
- All we have to do is treat them nice
- All we have to do is make them partners
- All of the above

Opinion Differences Between Public and Scientists

% of U.S. adults and AAAS scientists saying each of the following

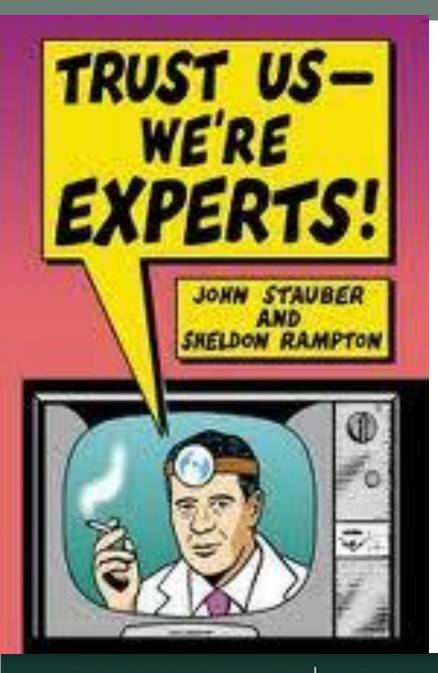


Survey of U.S. adults August 15-25, 2014. AAAS scientists survey Sept. 11-0ct. 13, 2014. Other responses and those saying don't know or giving no answer are not shown.

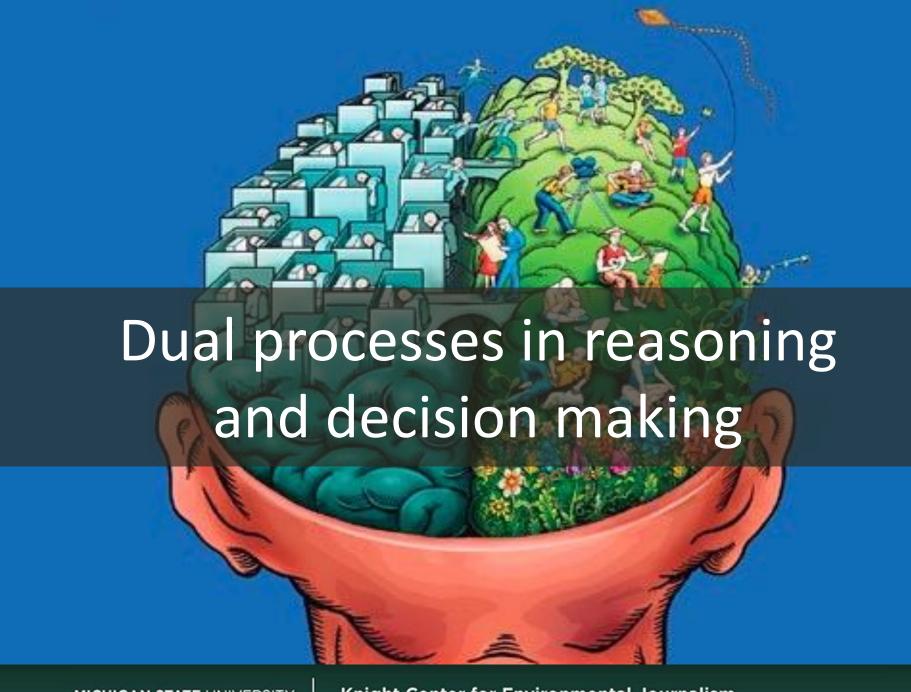
PEW RESEARCH CENTER

a good investment for U.S.

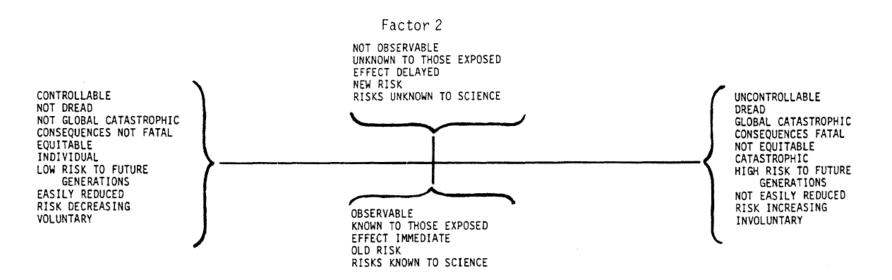
THE PUBLIC VS THE EXPERTS



Symbolic legitimacy



Slovic et al (1987) Two factors that define risk perception: Dread, Known

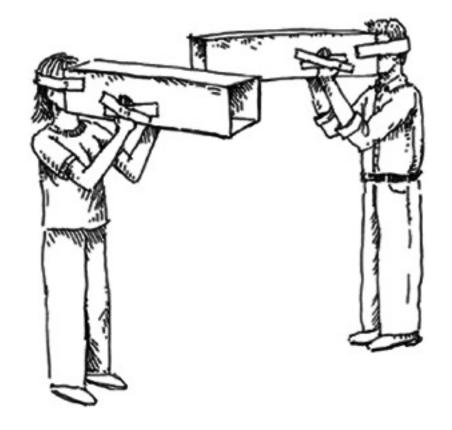


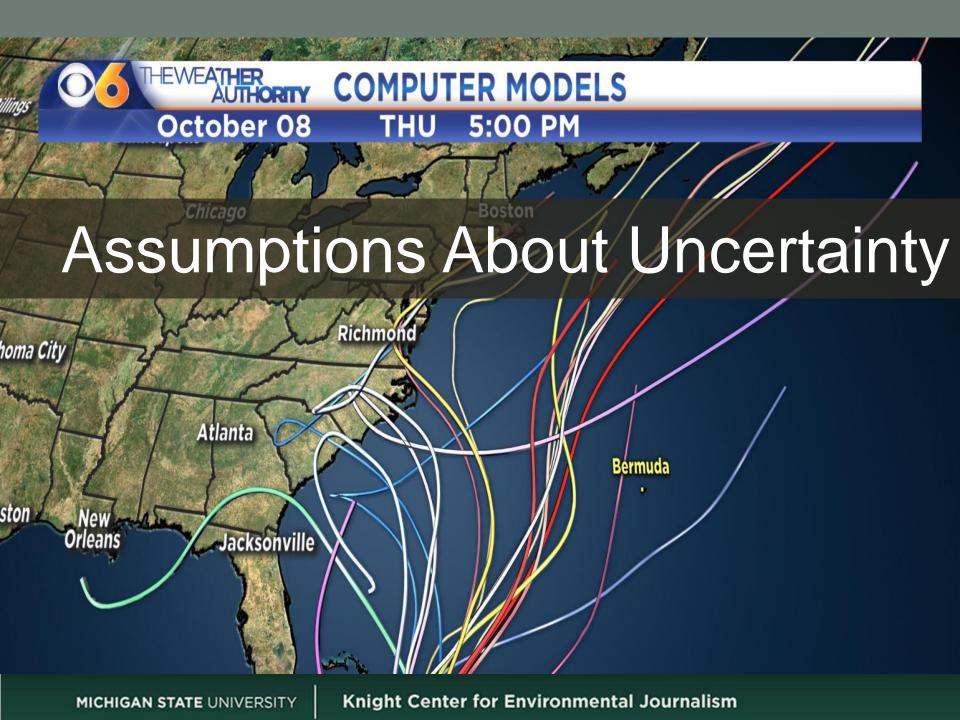
Factor 1



Biases In Risk Perception

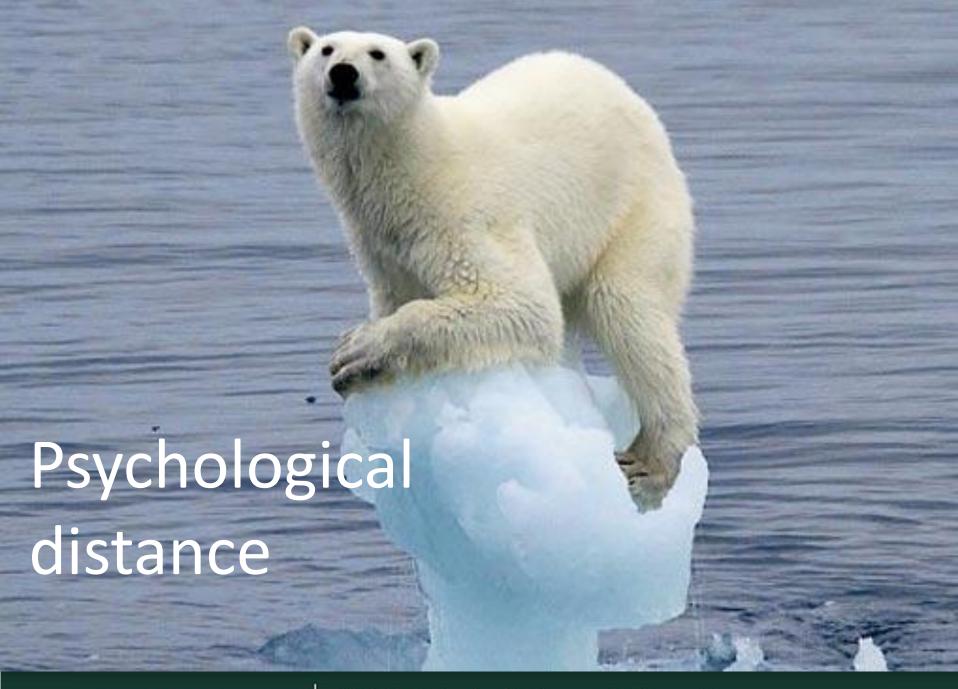
- Overconfidence
- Optimistic Bias
- Illusion of control
- Belief in law of small numbers

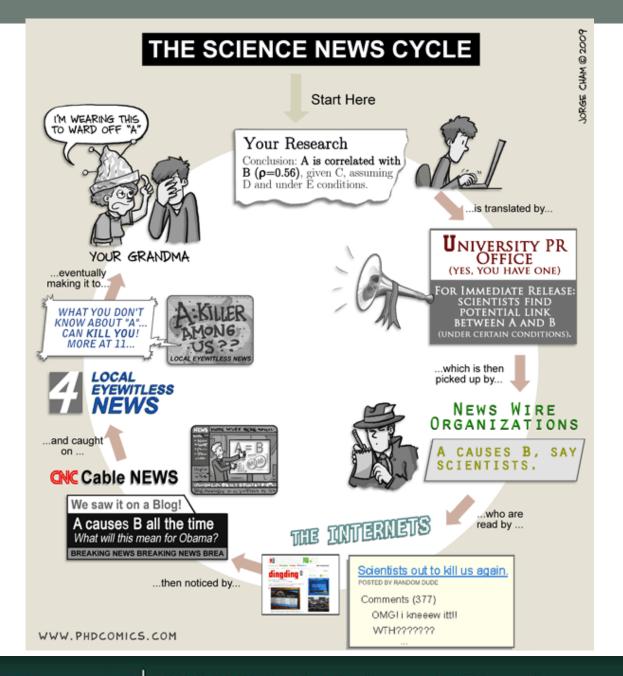




How is uncertainty communicated?

- Numbers (probabilities, ranges as opposed to point estimates, distributions
- Verbal probability statements (likely/not)
- Evaluative Statement -"safe" vs. "unsafe" "high" vs. "low"
- Other factors about a hazard that are reported as unknown
 - Cause, Consequence, Response





Social Amplification of Risk



- Why do improbable and insignificant risks get blown out of proportion?
- Why do probable and significant risks get ignored?
- Risks get amplified and attenuated when they are sent, transmitted, received

Some Goals of RISK COMMUNICATION

(FDA 2011)

- Share information
- Change beliefs
- Change risk perceptions
- Change behaviors

Questions?

btakahas@msu.edu