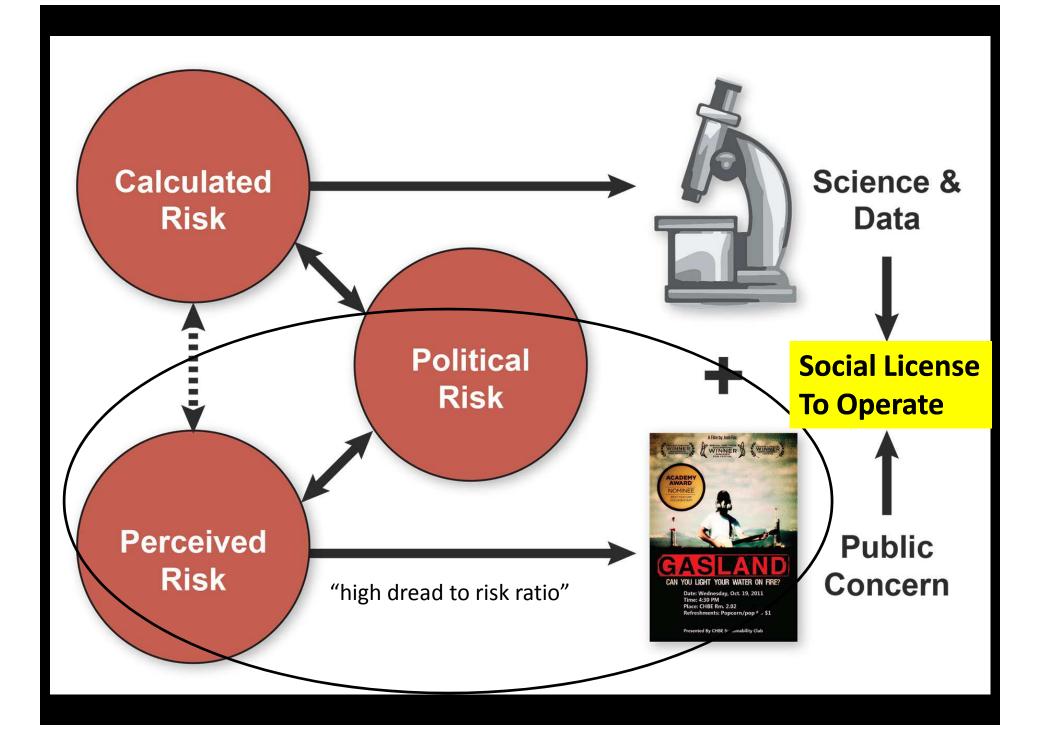
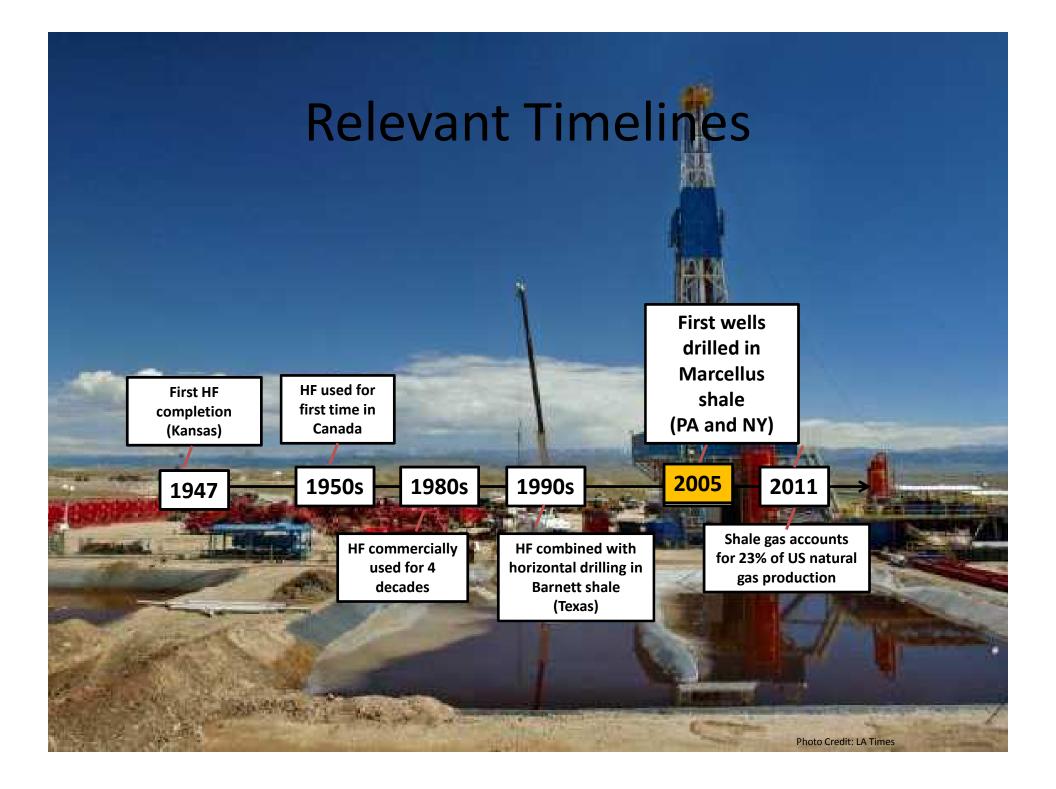
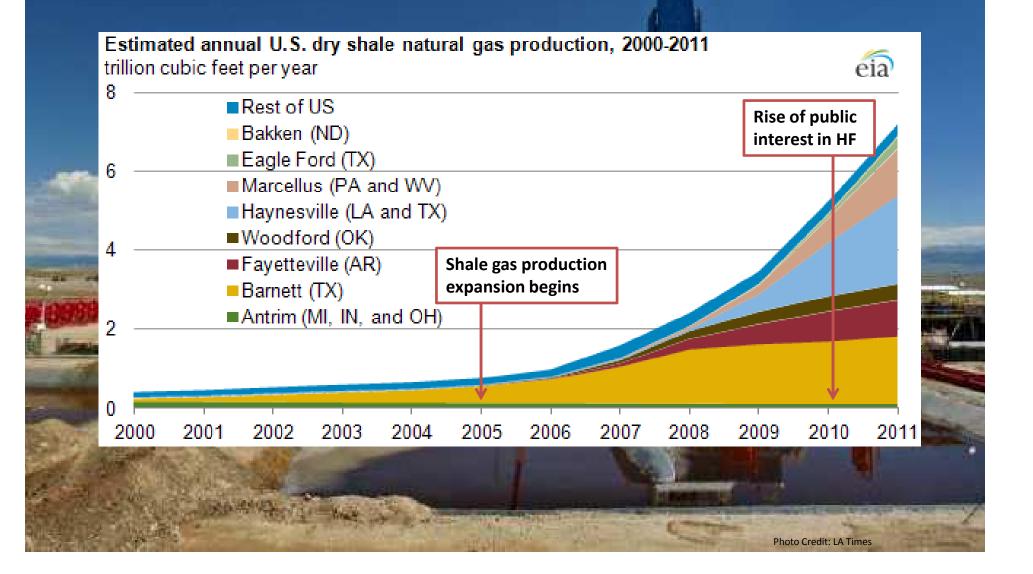
The Role of Media in Shaping Public Perception and Policy Towards Hydraulic Fracturing

Megan Schwartz Dan Tormey, Ph.D. Molly Middaugh ENVIRON International Corporation Los Angeles, California October 17, 2014





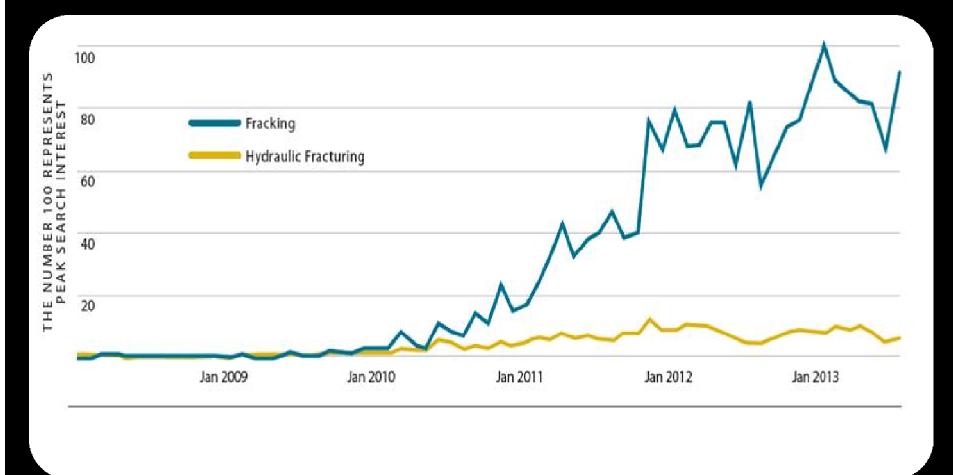
Relevant Timelines



What's Considered Media

- **Newspapers and television news**
- Magazines
- Documentary films
- Feature films and television shows
- Charismatic celebrity speakers
- Internet blogs

Google Searches for Key Words



Union of Concerned Scientists 2013

Ability to Influence Public Perception

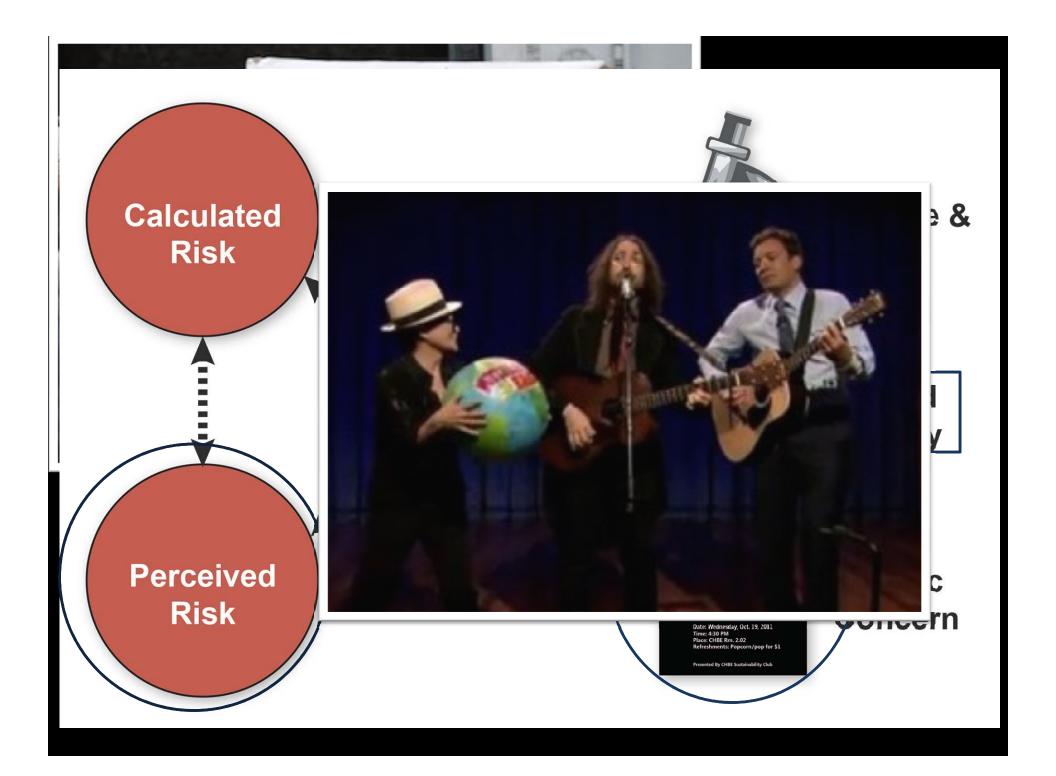
to Not Drink

...these are your data, Gasland is our data!

GASLAND THEMOVIE.COM

Ability to Influence Public Perception





2011 Environmental Issue of the Year



"That pronouncement comes despite the fact that climate disruption is causing more frequent freakish weather and in 2011 alone broke almost 3,000 U.S. weather records, including <u>11 separate</u> <u>weather disasters that cost over a</u> <u>billion dollars each in damage</u>. That's on top of \$14 billion in climate disruption-related damage in the last decade."

John Quigley, former Secretary Pennsylvania DNR

Fairness Bias in Traditional News Media

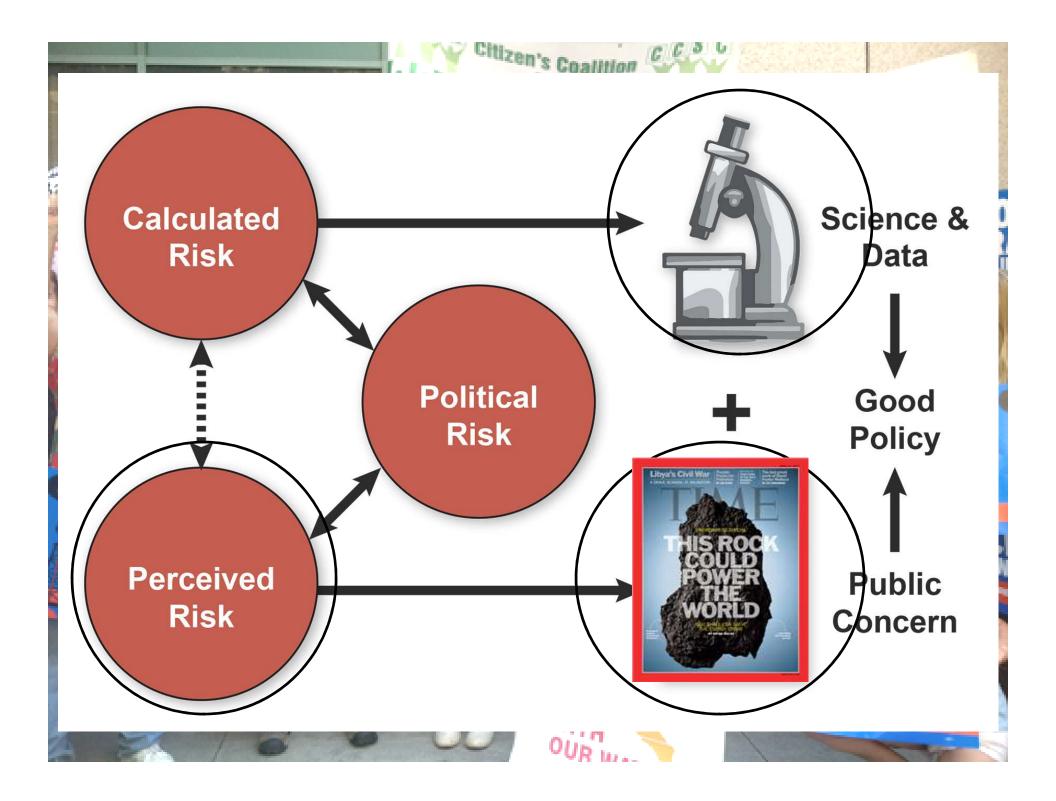
The need to give <u>equal weight to both sides</u> of a story:

"The industry says it is impossible for fracturing chemicals to leak upward through millions of tons of impermeable rock. But some environmentalists say they could, given the relatively ancient 'fractured' rock formations under Pennsylvania"

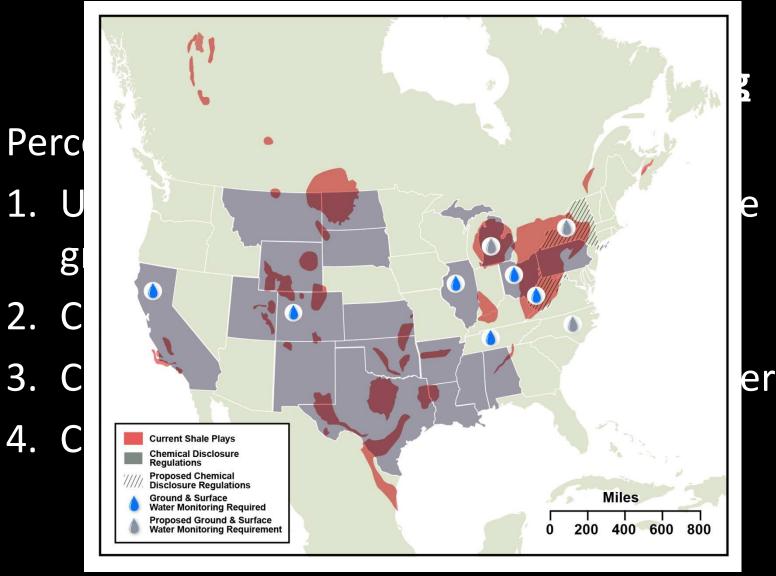
Illustrating the Fairness Bias at Work

Los Angeles Times Headline Regarding the Inglewood Oil Field Hydraulic Fracturing Study:

But people living around the field oppose the idea. Relaged by mysterious land shifts, which has increased their fears about fracking roome the movements may be related to ... drilling operations. But the actual cause is unclear; the area sits atop the Newport-Inglewood Fault.



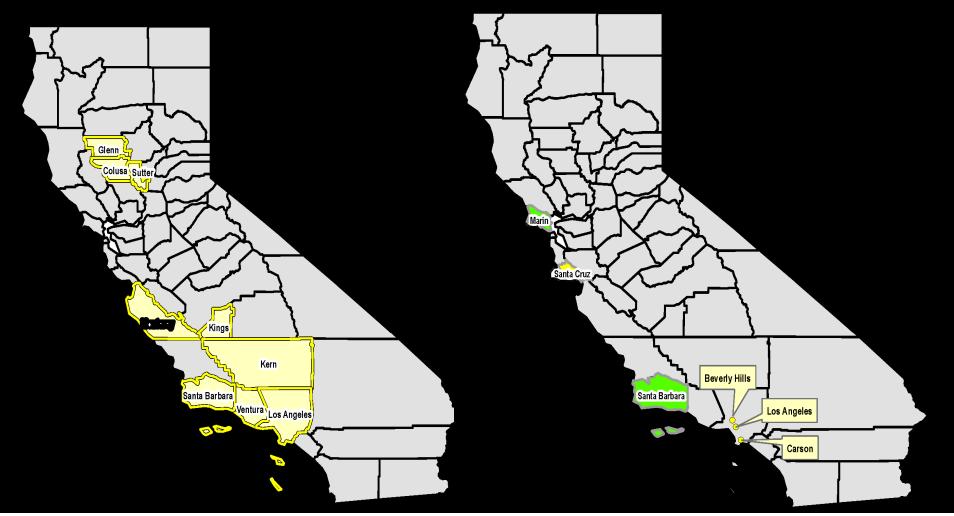
Public Concern — Public Policy



Public Concern — Public Policy

Counties Where HF has Occurred

Municipalities with Proposed or Adopted HF Bans



Science & Data — Public Policy

Study	Policy Decision
Inglewood Oil Field Study	LA County – no additional protections required
California Center for Science and Technology Studies	Results will inform BLM Resource Management Plan, CA State regulations, and CA Coastal Commission regulations
Kern County Environmental	Results will inform Kern

Impact Report

Results will inform Kern County's allowable land use practices

