



## Opening Comments: An Industry Perspective on the Workshop Topic & Goals

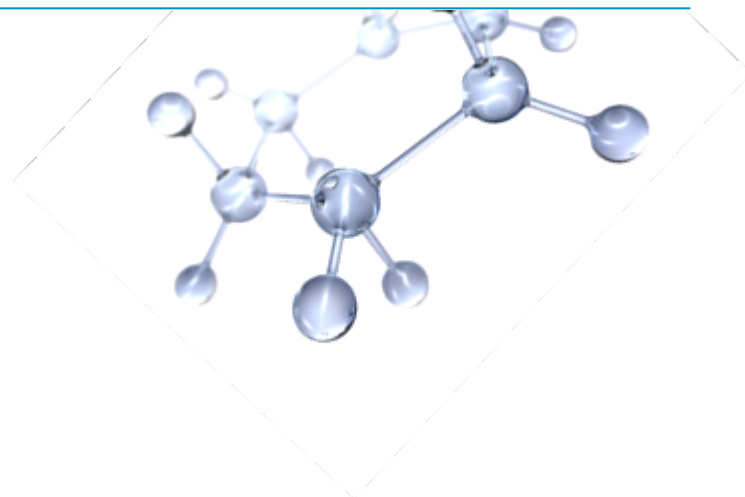
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## EPA Technical Workshop on Well Construction/Operation and Subsurface Modeling

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# Keys To Success

## Managing Risks

- Responsible operations philosophy
- Effective risk management framework

## Managing Uncertainties

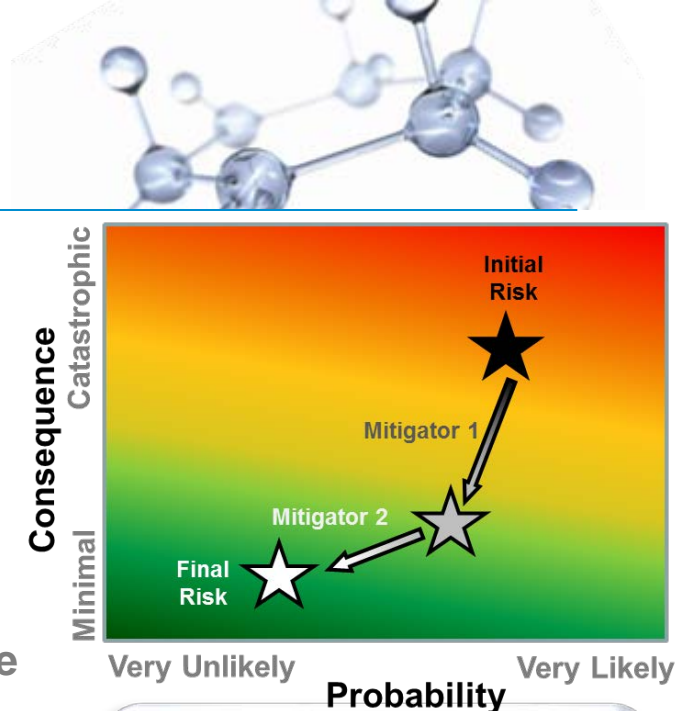
- Accounting for subsurface complexity
- Calibrating models with appropriate data
- Evaluating results based on risk mitigation, and the probabilities and consequences of the outcome

## Generating Opportunities

- Energy security
- Job and revenue growth
- Emissions reduction

## Collaborating with Stakeholders & Regulators

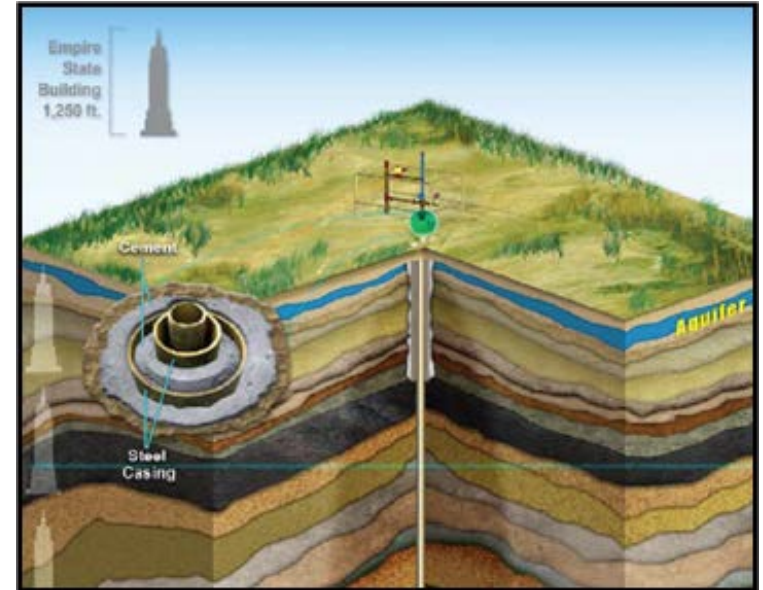
- Working with local communities to manage impacts
- Transparency and reasonable regulations to enable safe and sound development



# Workshop Collaboration

## *A Unique Opportunity for Industry Participants*

- Build relationships with all workshop participants
- Actively listen and learn from all stakeholders
- Provide industry experience and input that will further the study goals and offer practical insight in to the process of hydraulic fracturing
- Support discussions that are scientifically sound and articulated in a collaborative manner and given appropriate context
- Support adoption and use of common vocabulary to facilitate a constructive scientific discussion



| Citizen "Real World" Concerns       | Industry's "Technical" Responses                      |
|-------------------------------------|---|
| Will my water be contaminated?      | Well design and integrity<br>Surface water management |
| Will my children get sick?          | Exposure pathways                                     |
| Will my faucet water catch on fire? | Thermogenic and biogenic methane                      |