

SUMMARY OF RECOMMENDATIONS

Alison C. Cullen

Daniel J. Evans School of Public Policy and Governance
University of Washington

HEI Public Workshop, Pittsburgh, PA, July 30, 2015

HEI



General Features of the Research Recommendations

- Collectively identify data gaps in the literature; they are not findings of impacts;
- Linked to the ultimate goal of understanding and preventing/minimizing potential impacts to human and ecological health and well-being;
- Apply broadly to Appalachia and other regions.



Summary of the Priority Research Questions

- **Target better understanding of exposure, risk, and potential effects with an integrated research agenda**
- **Fall into three general subcategories:**
 - (1) stressor and exposure characterization
 - (2) health and well-being assessment
 - (3) evaluation of most-effective practices.
- **Research on stressor and exposure characterization interacts with and supports research on health/well-being**
- **Research on management practices supports preventing and/or minimizing impacts**

An effective coherent research program should include this set of questions of overarching importance

HEI



Factors to Consider in Implementing the Research Agenda

- **Parallel, sequenced and integrated** execution is key to achieving timely results and to supporting effective analysis of risk or health endpoints (*Time is linear, research is not!*)
- **Cross-cutting themes** should be acknowledged/considered
- Top priorities among the research questions vary somewhat by region, by decision-making contexts, by stakeholder
- Draft Research Agenda is intended to spur **cooperative research opportunities** for government, the oil and gas industry, nongovernmental organizations, academics and communities **for improving understanding of potential impacts and for minimizing/preventing them**



Relationship to Ongoing Research

- Substantial concordance between the Committee's research questions and some research recommendations in the peer-reviewed literature
- Important ongoing research programs complement this draft Research Agenda, or fit within its framework
 - e.g., climate change research
 - e.g., oil and gas technology research to minimize adverse effects
- The Research Agenda should therefore be implemented in careful coordination with ongoing active research.



Looking Ahead to the Afternoon Session

Overall:

- Is the Agenda clear and understandable?
- Do the key priorities encompass the most important gaps?

More specifically is anything:

- Missing? Out of place? Inaccurate? Improperly emphasized or out of balance?
- We welcome your suggestions regarding
 - Modifications needed and/or strengths in present version
 - Opportunities for effective and efficient collaborations

The Committee will carefully consider your input along with the results of an upcoming peer review.

HEI

