

# Risk and Hazard Assessment Materials for Phase 2 Proposals

## Information for Full Proposals

1. It is not a requirement to address the risk focus topic, however, the CDI facilitators sense that projects that have a tie to the risk focus topic will fare better in the final funding decisions. Therefore we are committed to providing as much information as we can to help all teams create that connection. Also, don't hesitate to get in contact with coordinator Leslie Hsu at [lhsu@usgs.gov](mailto:lhsu@usgs.gov) to discuss this further.
2. At the most basic level, to make hazards or assets data more accessible and/or standardized for others to use would be addressing the Risk theme
3. At higher levels, the proposals would address some of the issues that we brought up in the [FAQ we wrote immediately after the January workshop](#).

## Background information

1. [Definitions sheet](#)
2. [List of Hazards](#) for the Department of the Interior Risk Assessment Project (not exhaustive, but as examples)
3. [List of Assets of Concern](#) (handout from a workshop so you can ignore the instructions. not exhaustive, but for examples)
4. [Proposal to CDI to complement DOI Risk Map Project](#)

### How risk can be characterized

1. Historic Occurrence
2. Short-term forecasts
3. Current extents
4. Credible scenarios
5. Probabalistic

### Highlights from the Definitions Sheet

**Risk:** The potential for consequences where something of value is at stake and where the outcome is uncertain, recognizing the diversity of values. Risk sometimes is represented quantitatively as probability of occurrence of hazardous events multiplied by the impacts if these events occur. Risk results from the interaction of hazards and a vulnerable asset or system. Risk can be further broken down into various sub-categories, including the following three entries.

**Risk assessment:** The qualitative and (or) quantitative scientific estimation of risks.

**Risk management:** Plans, actions, or policies to reduce the likelihood and (or) consequences of risks or to respond to consequences.

**Risk perception:** The subjective judgment that people make about the characteristics and severity of a risk.

## DOI Risk Map Presentation and Q&A

March 16, 2018

- [Recording](#) (internal link available to USGS users - contact [cdi@usgs.gov](mailto:cdi@usgs.gov) to request access or if you have trouble accessing. You should be able to download the .mp4 to view it)
- [Slides](#) (internal link available to USGS users - contact [cdi@usgs.gov](mailto:cdi@usgs.gov) to request access or if you have trouble accessing.)