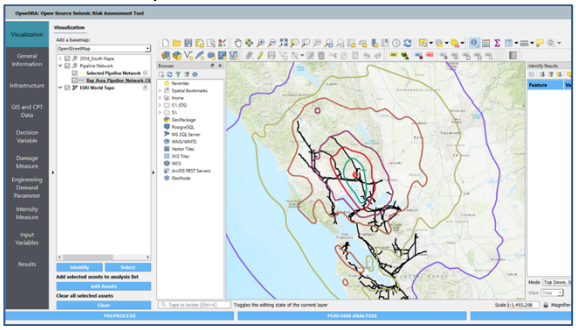
**Seismic Safety through Enhanced Risk Management**
https://peer.berkeley.edu/openSRA

# *OpenSRA* – Knowledge Transfer

*OpenSRA* is a new open-source seismic risk assessment software tool for gas utility regulators and owners that will enable them to strategically address challenges posed by the risk from earthquakes. *OpenSRA* includes recent computational modeling and laboratory testing of surface infrastructure components and systems. This research provides better information about the fragility of gas storage surface infrastructure. This report presents the approaches used to disseminate the project's technical research and software development, and it describes the materials created and released that highlight the key project outcomes.

CEC re-posts "save the date" announcement


User workshop: hands-on software demonstrations


*OpenSRA* graphical user interface.

## Results

- Visual logo and brief description provide a consistent identity and purpose of *OpenSRA*.
- Communication materials, news messages, and dissemination processes were created by the *OpenSRA* team, and they utilized PEER's website, electronic newsletters, and social media channels.
- Conference presentations and posters were targeted to the audience typically in attendance, to introduce and engage them with *OpenSRA* and advance the state of knowledge.
- Feedback and comments from industry users and decision-makers on the Technical Advisory Committee focused *OpenSRA* development.
- User Workshop participants learned about research incorporated into *OpenSRA* and got hands-on experience with the software.

## Benefits & advantages

- Effective software utilization: aligning project priorities with the needs of users and feedback from industry operators and consultants is conducive for *OpenSRA* adoption.
- Advancing knowledge and practice: sharing information with utility owners, operators, and researchers elevates the engineering community's practice, and it serves as a basis for further development.
- When *OpenSRA* is applied appropriately for mitigation purposes, *OpenSRA* enables utility decision-makers to effectively allocate resources to transmission systems, which supports system reliability and safety.

Kang G.S., Watson-Lamprey J.W., Largent M. 2023. Performance-Based Earthquake Engineering Assessment Tool for Natural Gas Storage and Pipeline Systems, Knowledge Transfer Report. California Energy Commission. March 2023