

From PBEE to Risk Management

The question of the hour:

How can the PEER PBEE approach serve as a foundation for earthquake risk management decisions?

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Goals of this session:

- Understanding of what PEER needs to do to advance the methodology in order to facilitate risk management decision-making
- Identification of specific research that PEER should be funding related to this
- Reactions to directions that the ATC 58 risk management effort is heading as relates to PEER research

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Topics Raised in Breakout

- Need for more emphasis on DV and fragilities related to life safety and disruption (downtime)
- Tools for explaining stakes in considering seismic risk management (e.g., visualization) – even before a structure is designed
- Quantification of implicit “risk acceptance” in existing codes
- Attention to cost savings that can be gained with compliance with alternative code compliant methods (e.g. PBEE) – what’s in it for the owner?
- Primer on applicability of decision tools and their limits (e.g, benefit-cost, IRR) to seismic risk management
- Considering implications that occupancy changes over time for thinking about risk management choices; potential for building rating system.
- Contributions of PEER to guidebooks for small business owners (California Seismic Safety Commission) and, by extension, other stakeholders.