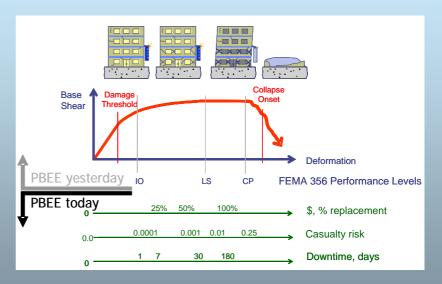
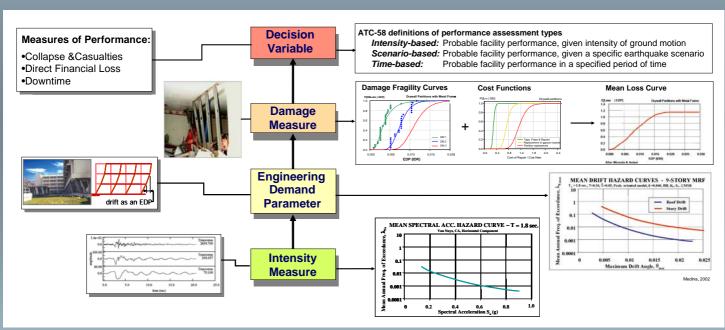
## Framework for Performance-Based Earthquake Engineering (PBEE)

The PEER mission is to develop and disseminate technologies to support PBEE. The approach is aimed at improving decision-making about seismic risk by making the choice of performance goals and the tradeoffs that they entail apparent to facility owners and society at large.





## Structural System Selection Based on Loss Risk Structural System Domain Hazard Domain EDP = Max. Interstory Drift **Loss Domain** Stiff Systems: Larger loss in acceleration sensitive components and smaller loss in drift sensitive components Flexible Systems: Small loss in Drift sensitive Accel. sensitive acceleration sensitive components and subsystems subsystems larger loss in drift sensitive components EDP = Max. Interstory Drift EDP = Max. Floor Accelerati

## Impact - Implementation:

- ATC-58 Guidelines for Seismic Performance Assessment of Buildings
- ATC-63 Recommended Methodology for Quantification of Building System Performance
- TBI Tall Building Initiative
- LRFD for bridge design

The Pacific Earthquake Engineering Research Center

headquarters at the University of California, Berkeley for more information see http://peer.berkeley.edu

