

Mitigation – New Infrastructure

- Performance-based Design
 - Engineers
 - Seismic hazard
 - Social Science
 - Public
 - Decision makers
- Performance (holistic)
 - Structure, foundation
 - Contents
- Disclosure/Ratings
 - Public (purchase)
 - Finance/Insurance
 - Community
 - Flood, Liquefaction/Fire
- Shelter-in-place
 - Home, work, or ?
 - Utilities (elect, gas, H2O...)

Mitigation – New Infrastructure

- New performance objectives
 - Cost effective repair of buildings, bridges, etc
 - Different design life
 - Costs
- Do we achieve our objectives or are they predictable
 - Data from instrumented buildings
 - Use of instruments and sensors for data collection to improve modeling, reduce uncertainty, health monitoring
- Blind Predictions
 - Recent experience
 - Post-earthquake assessments of infrastructure
- Social issues, education and trust (uncertainty)