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)