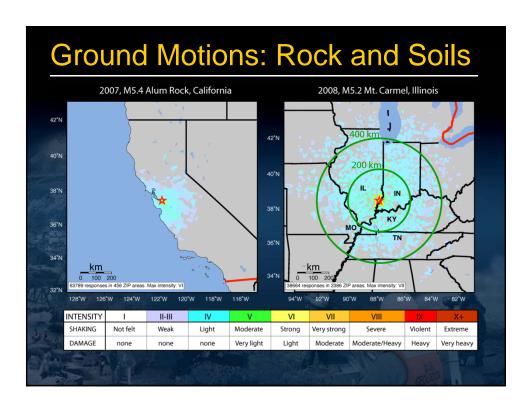
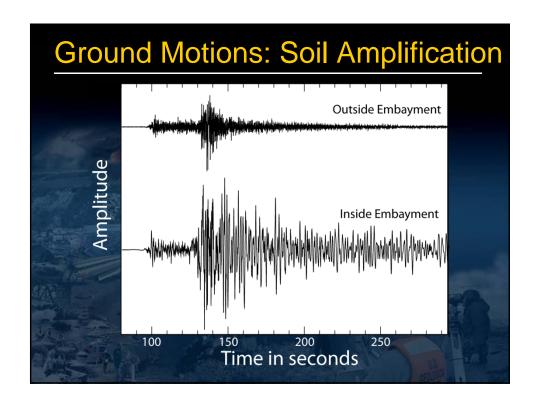
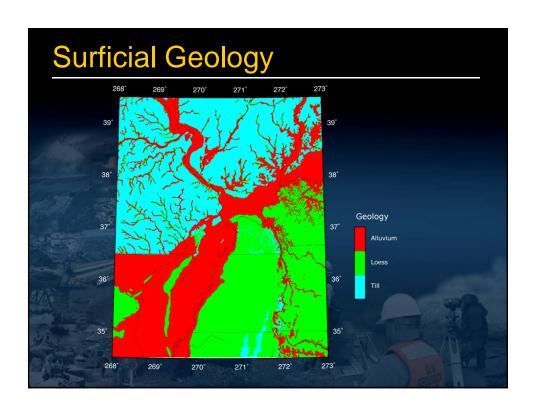


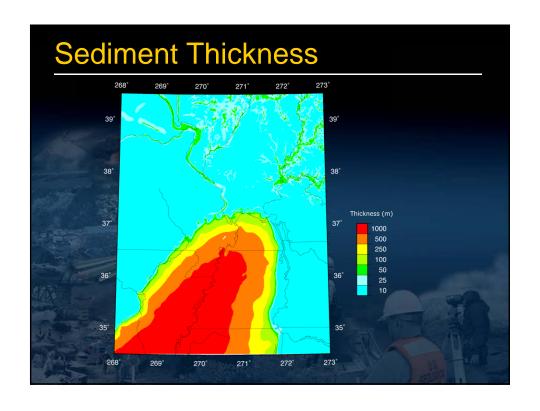
Scenario Earthquakes

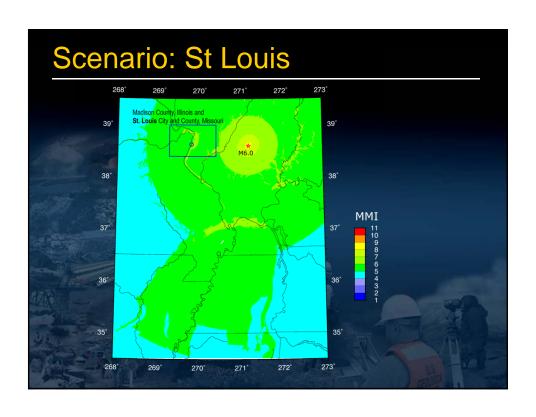
- Followed USGS modeling procedures for hard rock ground motions and then include the effect of near-surface geology.
- Maps of MMI, PGA, PGV and 1.0, 0.3, and 0.2 s Sa on a 1 km square grid.

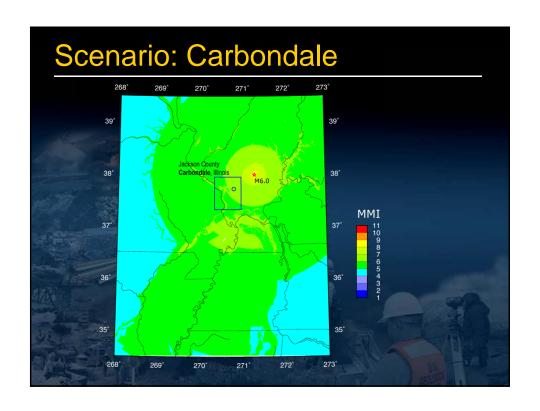


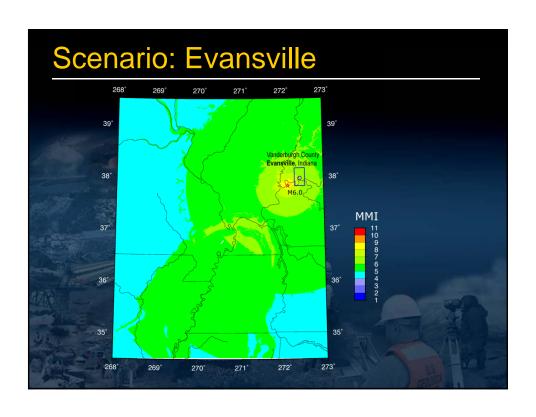


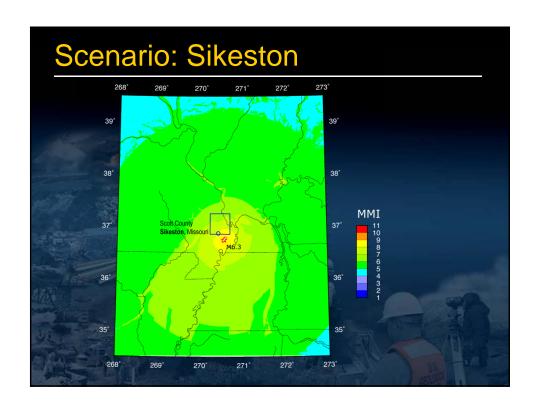


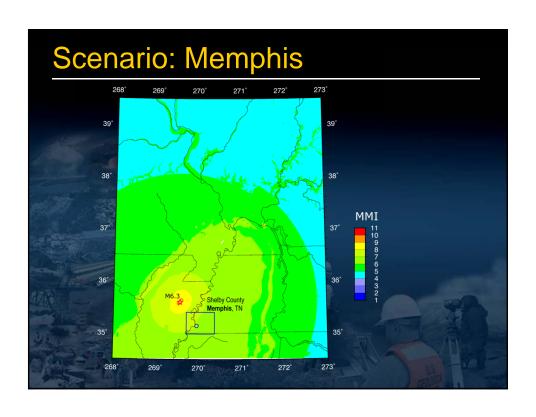


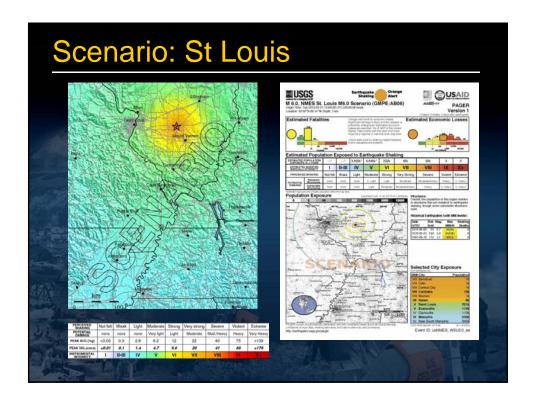


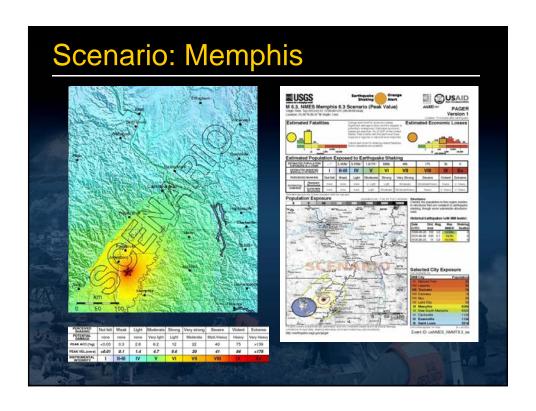


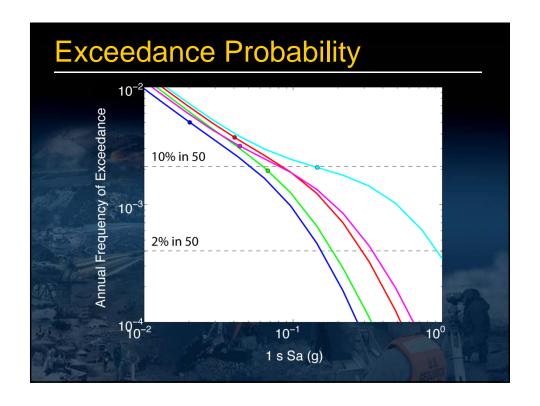












Summary

- M6 or M6.3 scenario earthquakes for St Louis, MO, Carbondale, IL, Evansville, IN, Sikeston, MO, and Memphis, TN.
- Earthquakes have a 35–50% chance of occurring in the Wabash of New Madrid seismic zones.
- 1s Sa ground motions have a 10–20% chance of being exceeded at these sites in 50 years.
- 1s Sa between 0.01 and 0.25 g and MMI between V and VIII