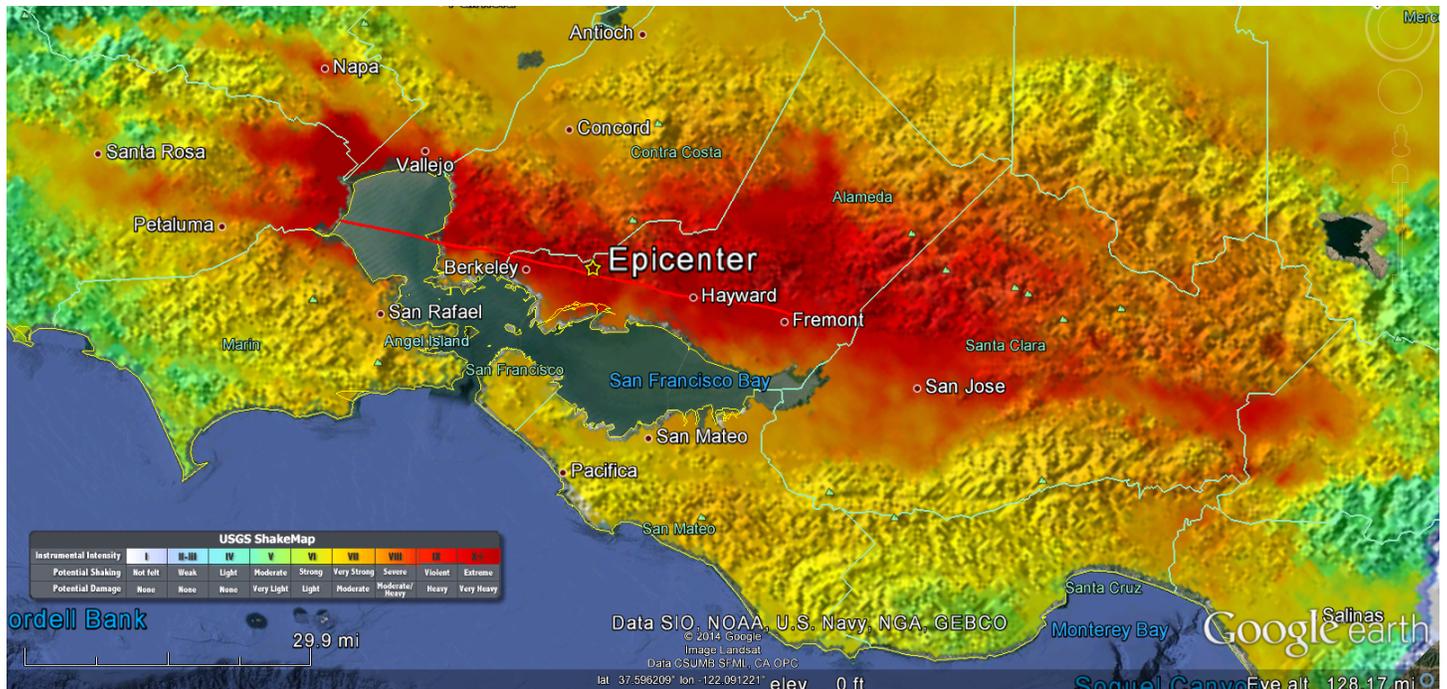


HayWired Scenario - Planning for Earthquake Disaster Recovery in a Wired (and Wireless) World



M7.1 Haywired scenario shaking intensity

California has not experienced a large earthquake since our society, culture and economy have become entwined with the Internet. What will happen to an Internet-dependent society when a large earthquake occurs? How do tangible lifelines—roads, transit, power, water, communication, etc.—interact in damage and restoration, and how do they interact with the online world of commerce, social media, and news? How long will it take to restore the physical and virtual lifelines and the services that use them? What happens to society in the mean time? What are the environmental health concerns? How will earthquake early warning, fault afterslip, aftershocks, and fire following earthquake affect disaster management and recovery? Will certain people, businesses and neighborhoods be displaced due to the earthquake impacts and cascading effects? Will community recovery be at risk? The US Geological Survey and partners are addressing these questions with a case study of the cascading effects of a large Bay Area earthquake scenario, particularly a M 7.1 rupture on the Hayward Fault. It builds on past studies of a Hayward Fault earthquake and previous scenario work, and also evaluates damage and recovery of interdependent physical lifelines, fire following and environment health risks, estimates direct and indirect economic consequences, and characterizes the long-term community recovery challenges that the region may face. HayWired results will be available in April 2016.

About the US Geological Survey's Science Application for Risk Reduction (SAFRR) program. The SAFRR program created the ShakeOut, ARkStorm, and SAFRR Tsunami Scenarios, among other projects. Each depicts in fine detail the earth science, infrastructure, and socioeconomic aspects of not-very-rare natural disasters that are worth planning for. The scenarios are documented with downloadable reports written for professionals, scientists, and scholars; brief summary documents and public service announcements for the general public; meetings and workshops convened with state and local planners and officials; and other outreach products. SAFRR's scenarios have involved hundreds of scientists, engineers, social-science experts and emergency managers. Among other outcomes, SAFRR resulted in the Great ShakeOut earthquake drills, which in 2013 involved 25 million people in 38 US states, 5 US territories, and four other earthquake-prone countries. The findings of SAFRR scenarios are being used to mitigate or better plan for natural disasters around the world. For more information, visit http://www.usgs.gov/natural_hazards/safrr/ or contact Dale Cox dacox@usgs.gov.