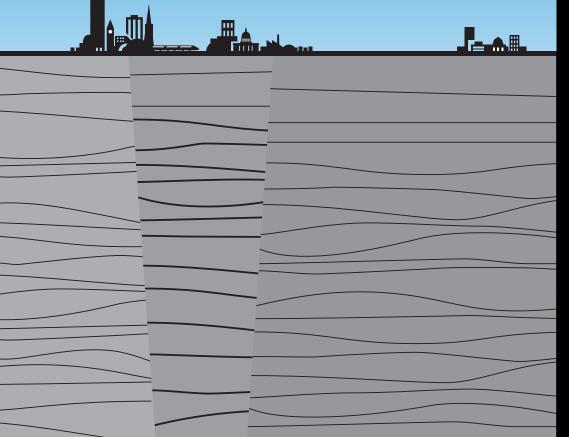


#### 02/2013

# **On Solid Ground**

How Good Land Use Planning Can Prepare the Bay Area for a Strong Disaster Recovery



#### **On Solid Ground** SPUR Forum February 21<sup>st</sup>, 2013

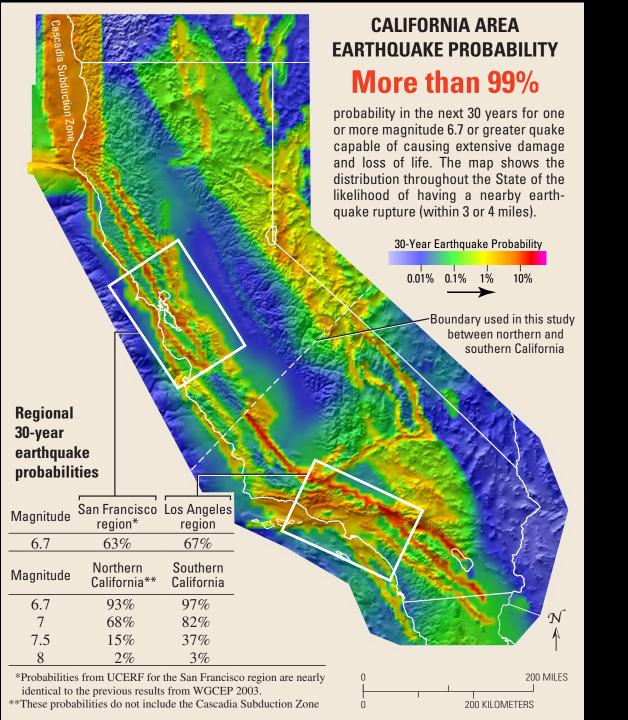


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With seven major fault zones throughout Bay Area the entire region is subject to strong shaking

#### What is seismic resilience?

Seismic resilience is the ability of the city to:

- contain the effects of earthquakes
- carry out recovery activities in ways that minimize social disruption
- rebuild in ways that mitigate the effects of future earthquakes



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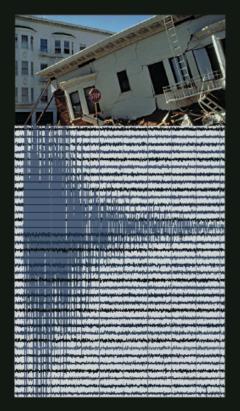
## WHEN IS A BUILDING SAFE BUILDING SAFE BUILDING SAFE BUILDING SAFE

#### The Resilient City Part 1: Before the disaster

#### **Before the Disaster**

Defining what cities need from their seismic mitigation policies

# Safe Enough to Stay



What will it take for San Franciscans to live safely in their homes after an earthquake? A significant amount of housing may be too damaged to live in while it's being repaired. Residents may leave. And that will put the city's recovery at risk. Here's how to prevent San Francisco from losing its most important asset: its people. What will it take for San Franciscans to live safely in their homes after an earthquake? Isaue 494 News at SPUR p3 Transportation & Rebuilding p4 Urban Field Notes p26 Member profile p29

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**REBUILDING OUR BRIDGES, ROADWAYS AND TRANSIT LINES** 

#### **After the Disaster**

Rebuilding after a major event

What strategies are needed to address land use planning challenges to facilitate recovery?





San Francisco - 1906

#### Katrina - 2005

#### Land Use Planning and Recovery: A Focus on Local Government

- The vast majority of zoning and planning decisions are made at the local level.
- Local governments have the responsibility to develop the vision for how their cities will recover.
- Actions that local governments take now have the potential to either help or hurt long term recovery.

#### Land Use Planning and Recovery: Planning Challenges

- Time Compression
- Scale
- Tension between rebuilding quickly and rebuilding well
- Multiple recoveries all happening at the same time
- Pressure to rebuild what was: the "first plan"
- Information needed to make decisions not readily available

#### Land Use Planning and Recovery: Issues

- I. Developing a Recovery Vision
- II. Earthquake Hazards
- III. Implementing Recovery
- IV. Financing
- V. Information



#### **Planning Process**

"Gearing up and sorting out" versus "ready-fire-aim"

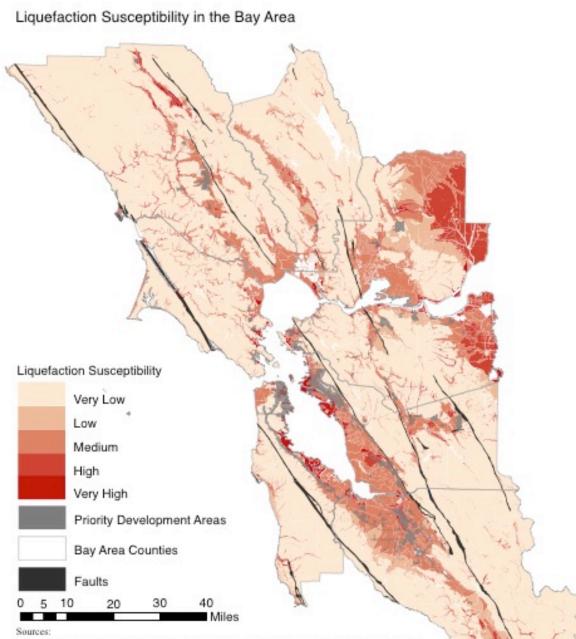


# Rebuilding According to Existing Plans and Codes:

Rebuilding structures in conformance with the zoning, general plans, specific areas plans and other adopted plans that were in place before the disaster.

#### **Re-planning:**

Rebuilding structures according to new zoning regulations, general plan updates and specific plans as part of a replanning process that occrs after the disaster.



Association of Bay Area Governments: http://gis.abag.ca.gov/, files accessed December 14th, 2012 United States Geological Survey: http://earthquake.usgs.gov/regional/nca/qmap/, files accessed December 14th, 2012

Many parts of the Bay Area facing risk from earthquake hazards (including liquefaction susceptibility, as shown here) will continue to be developed in the coming years as the region

#### **Implementing Recovery**

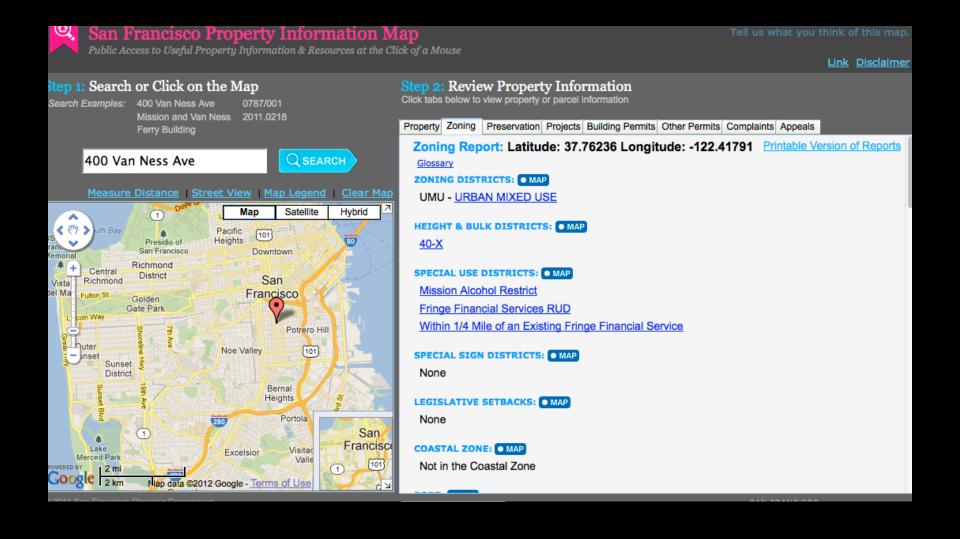
- Environmental Review (CEQA/NEPA)
- Redevelopment
- Non-Conforming Uses
- Historic Preservation
- Affordable Housing

### Financing

- Money fuels disaster recovery.
- Funding comes from federal, state and private sources, but local government will also have to find ways to fund recovery.
- We have very low rates of private insurance – but residents and businesses will also need funding to rebuild.
- Limited funds for land use planning issues.



#### Land Use Planning and Recovery: Information



### Summary

- A major earthquake is very likely to occur in the Bay Area in the next 30 years.
- There are steps we can take before the disaster that will help us with our recovery process once the disaster strikes.