

Planning for Residential Recovery

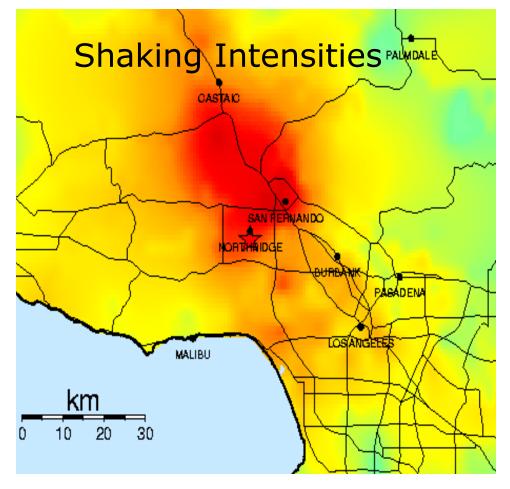
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Impacts: M6.8 Northridge Earthquake Disaster, January 17, 1994

- 57 deaths
- 20,000 homeless
- 30,000 damaged housing units
- ~\$42+ billion total losses
 - \$21 billion residential
 - \$15 billion business
 - \$6 billion public infrastructure
- ~\$14 billion insured losses (65%+ for residential structures)

Source: Olshansky et al







<u>Impacts</u> – Residential Areas

- Generally moderate, repairable apartment damages → → → →
- Widespread but relatively minor single family damages (e.g. chimneys, plaster, glass)







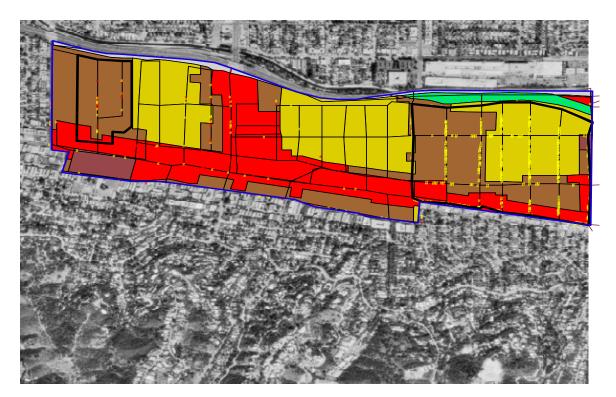
Source: EERI

 Pockets of severe damage requiring full reconstruction

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Case Study: Sherman Oaks District



Highest concentration of damages; relatively highincome area; relied heavily on private resources; "Ghost Town Projects relied on HUD CDBG loans via LA City

Source: Olshansky et al

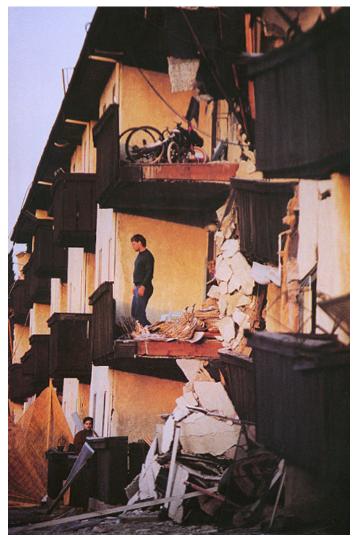
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Key Rehousing Program: "Ghost Towns"

- 19,000 vacated housing units; additional 10,000 "at risk"
- Mostly wood-frame apt. (age 1950-1975); many repairable
- Apt. building owners lacked insurance or had high deductibles
- Deflated property values, declining rental income and high debts limited owners' abilities to get repair loans
- L.A. City used CDBG funds to provide no-interest loans to rebuild rental housing (condo owners not included)
- 20% affordable housing component

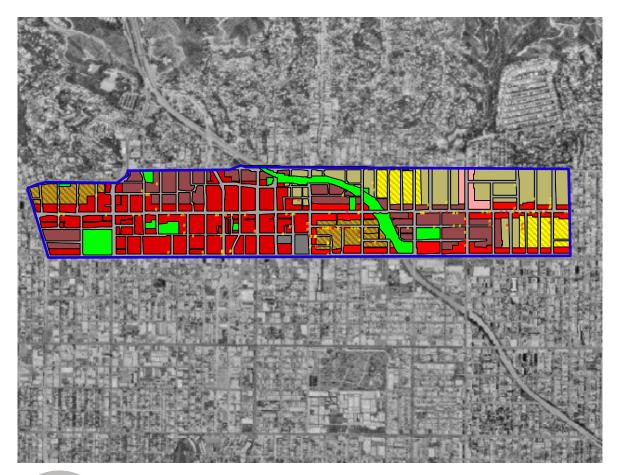
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Source: Olshansky et al



Source: L.A. Times

Hollywood Study District

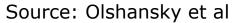


Heavy damage; low-income, large immigrant population

Significant government intervention in recovery

Several BIDs formed

Major projects built



Lessons from Northridge Recovery

- After a disaster opportunities for community betterment exist but their half-life is short
- There is extreme pressure to act quickly
- "Default" decisions are made which have longterm consequences
- Each community must find its own balance between quick action and betterment
- Pre-event planning is a smart investment



Source: Olshansky et al

Source of Preceding Findings:

Opportunity in Chaos: Rebuilding After the 1994 Northridge and 1995 Kobe Earthquakes

Robert B. Olshansky, Laurie A. Johnson, and Kenneth C. Topping

With Yoshiteru Murosaki, Kazuyoshi Ohnishi, Hisako Koura, and Ikuo Kobayashi

2005 (Web-published: March 2011)

http://www.urban.uiuc.edu/faculty/olshansky/chaos/chaos.html







Impacts: Implications for Today

- Residential recovery challenges still with us:
 - Anomalous vacancy conditions benefitted renters
 rehousing much harder in a catastrophic event
 - HUD housing assistance CDBG grants useful but uneven track record since then
 - Condos walk-aways on underwater mortgages;
 SBA loans not useful; no relief in sight
 - Remaining vulnerabilities mobile homes, softstories, soft soils/fault zones

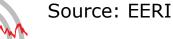


Impacts: Rebuilt Apartments

Question:

What was the key mitigation lesson learned from the Northridge Earthquake?





SYMPOSIUM



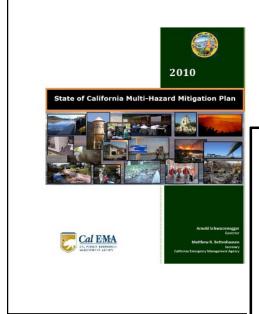
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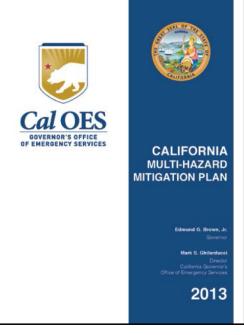
Answers:

- Large inventory of vulnerable housing remains
- Limited private or public initiatives address magnitude of ongoing mitigation challenges

Addressing Risk: State Hazard Mitigation Plan

- Provides framework for state and local mitigation action
- Helps create more resilient and sustainable communities
- Protects California's economy and environment from preventable losses
- Creates benchmarks for future progress
- Supports federal-state mitigation grants





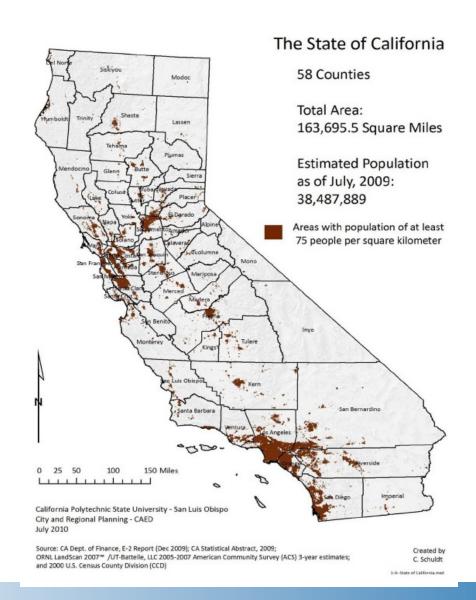
2013 Plan now out



Assets at Risk

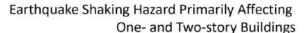
Stakes are high:

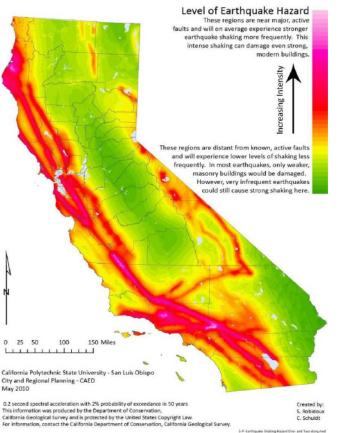
- 38 million people highest state population
- 3rd largest state land area
- 8th largest economy in world
- Highest agricultural production in U.S.

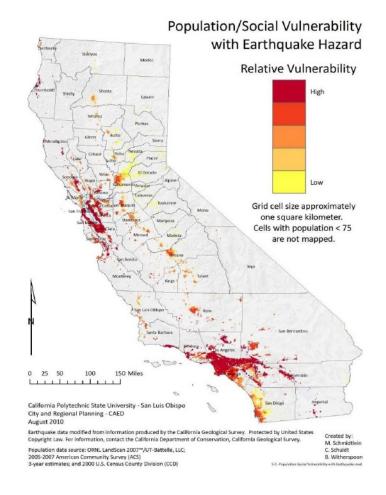




Most Californians Live in Areas of Highest Earthquake Risk









Outcomes - Where Are We Now?

- Inadequacies of public sector resources and processes for residential rebuilding
 - Federal assistance programs matrix policy summary
 - Patchwork financial assistance temporary FEMA trailers, HUD block grants
 - Agency stovepiping at federal-state levels
- Linkages of unmet hazard mitigation challenges (e.g., better fault zone mapping related to land use practices) to post-earthquake recovery
 - Moving beyond structural mitigation need for expanded state mapping linked to land use applications through general plan statutory reform (similar to NFIP mapping)



Next Steps:

- Need for more widespread, cross-sectoral, and continuing pre-event recovery planning similar to the LA Recovery and Reconstruction Plan used after Northridge
 - APA Planning for Disaster Recovery and Reconstruction;
 Next Generation
 - Model recovery ordinance for local governments (APA draft online)
- Need for more active public-private sector involvement
 - Go beyond Stafford Act relief and recovery programs
 - Stronger linkages of local hazard mitigation and land use planning
 - Focus responsibility for recovery planning at multiple
 level

Recommendations: Mitigation, Finance

- Assess residential risks, hazards, and vulnerability using existing tools:
 - Conduct vulnerable structure inventories
 - Update general plans and local hazard mitigation plans
 - Expand earthquake risk mapping (e.g., Alquist Priolo Study Zones)
- Develop additional revenue sources and incentives for structural strengthening:
 - Bond issues
 - Low-interest rate loans
 - Streamline permitting and reduced processing fees
 - Establish local assessment districts
 - Real estate transfer tax



Recommendation: California Recovery Plan

- State of California should prepare and adopt a multi-sectoral Pre-event Recovery Plan
- The California Recovery Plan would identify a strategic vision and implementing actions to:
 - Restore peoples' lives and housing
 - Regain economic vitality
 - Rebuild safely, wisely, and creatively
- The California Recovery Plan would:
 - Provide a framework for coordinating action
 - Direct public sector funds toward most urgent needs
 - Link mitigation with recovery to avoid future losses
 - Promote local pre-event recovery ordinances/plans
 - Create opportunities for sustainable rebuilding

