



**CPUC Public Agenda 3411**  
**Thursday, January 11, 2018 9:30 a.m.**  
**San Francisco, CA**



**Commissioners:**  
**Michael Picker, President**  
**Carla J. Peterman**  
**Liane M. Randolph**  
**Martha Guzman Aceves**  
**Clifford Rechtschaffen**

[www.cpuc.ca.gov](http://www.cpuc.ca.gov)





# The Pledge of Allegiance



“I pledge allegiance to the Flag of the  
United States of America,  
and to the Republic for which it stands,  
one nation under God,  
indivisible,  
with liberty and justice for all.”





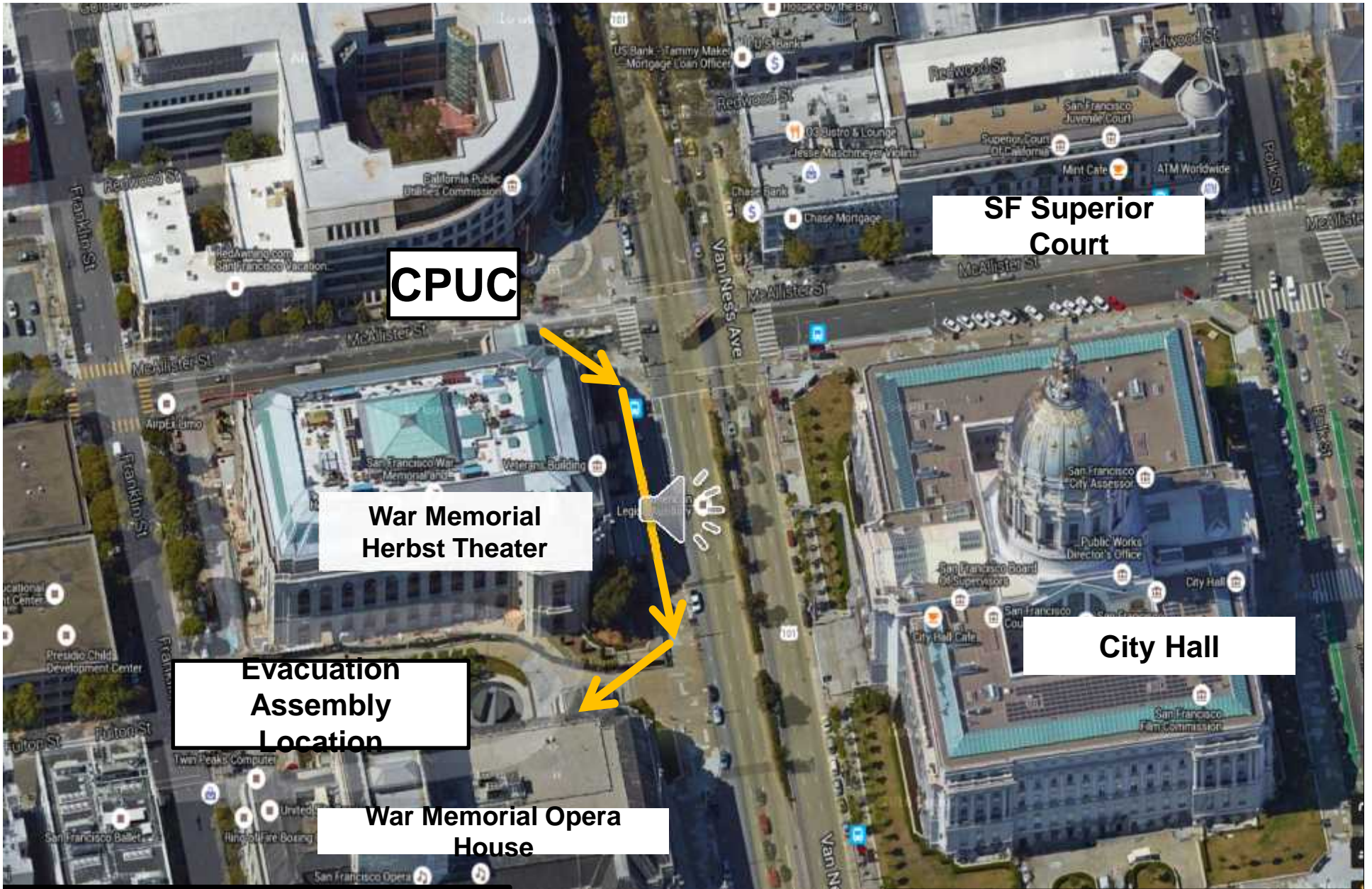
# Emergency Evacuation

Safety is our number one priority:

Please listen to the emergency evacuation instructions for this location.







**CPUC**

**War Memorial  
Herbst Theater**

**Evacuation  
Assembly  
Location**

**War Memorial Opera  
House**

**SF Superior  
Court**

**City Hall**





# CPUC Mission

The CPUC regulates services and utilities, protects consumers, safeguards the environment, and assures Californians' access to safe and reliable utility infrastructure and services.





# CPUC Core Values

Accountability

Excellence

Integrity

Open Communication

Stewardship







# Commissioner Code of Conduct

- **I. Commissioners should conduct themselves in a manner that demonstrates respect for the public, for fellow Commissioners, and for Commission staff.**
- **II. Commission meetings should be opportunities for a full and respectful exchange of ideas and the responsible execution of Commission duties.**
- **III. Serving on the Commission is an honor and Commissioners should treat their colleagues at the Commission with respect for the varied backgrounds, skills and interests that each one brings.**
- **IV. Commissioners are public officials who should uphold the integrity of their office at all times.**





# Public Comment

- Per Resolution ALJ-252, any member of the public (excluding parties and their representatives) who wishes to address the CPUC about matters before the Commission must sign up with the Public Advisor's Office table before the meeting begins. If an individual has signed up using the electronic system on the Commission's website, they must check in with the Public Advisor's Office on the day of the meeting, by the sign-up deadline.
- Once called, each speaker has up to 3 minutes at the discretion of the Commission President. Depending on the number of speakers, the time limit may be reduced to 1 minute.
- A sign will be posted when 1 minute remains.
- A bell will ring when time has expired.
- At the end of the Public Comment Section, the Commission President will ask if there are any additional individuals who wish to speak. Individuals who wish to speak but did not sign up by the deadline, will be granted a maximum of one minute to make their comments.

## **Public Comment is not permitted on the following items:**

- **5, 34, and 47.**
- All items on the Closed Session Agenda







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# Public Agenda Changes

Items shown on the Consent Agenda will be taken up and voted on as a group in one of the first items of business of each CPUC meeting.

- Items on Today's Consent Agenda are: 1, 5, 7, 8, 10, 11, 12, 13, 15, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, and 45.
- Any Commissioner, with consent of the other Commissioners, may request an item from the Regular Agenda be moved to the Consent Agenda prior to the meeting.
- **No Item** from the Regular Agenda has been added to the Consent Agenda.
- Any Commissioner may request an item be removed from the Consent Agenda for discussion on the Regular Agenda prior to the meeting.
- **Item 28** has been moved to the Regular Agenda.
- **Items 2, and 6** have been withdrawn.
- The following items have been held to future Commission Meetings:  
Held to **2/8/18**: 3, 4, 9, 14, 16, 23, 29, 30, and 49.





# Regular Agenda

- Each item on the Regular Agenda (and its alternate if any) will be introduced by the assigned Commissioner or CPUC staff and discussed before it is moved for a vote.
- For each agenda item, a summary of the proposed action is included on the agenda; the CPUC's final decision may, however, differ from that proposed.
- The complete text of every Proposed Decision or Draft Resolution is available for download on the CPUC's website: [www.cpuc.ca.gov](http://www.cpuc.ca.gov).
- Late changes to agenda items are available on the Escutia Table.







## Regular Agenda –Energy Orders

### **Item # 28 [16196] – 2018-2020 Electric Program Investment Charge Investment Plans**

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A17-04-028, A.17-05-003, A.17-05-005, and A.17-05-009 - Related matters.

In the Matter of the Application of Pacific Gas and Electric Company for Approval of its 2018- 2020 Electric Program Investment Charge Investment Plan. Consolidated applications include California Energy Commission, Southern California Edison Company, and San Diego Gas & Electric Company.

**Ratesetting**

**Comr Guzman Aceves - Judge Roscow**

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#### **PROPOSED OUTCOME :**

- Approves the California Energy Commission’s 2018-2020 investment plan.
- Establishes the three-year funding level for 2018-2020 at \$555 million, and allocates that amount between the CEC, Pacific Gas and Electric Company (PG&E), Southern California Edison Company (SCE) and San Diego Gas & Electric Company (SDG&E).

#### **SAFETY CONSIDERATIONS :**

- Certain investment projects may lead to innovations that increase the safety of utility customers.

#### **ESTIMATED COST :**

- \$555 million for the 2018-2020 period, collected from PG&E, SCE and SDG&E ratepayers.





## Regular Agenda – Energy Orders (continued)

### Item # 46 [16094] – Pacific Gas and Electric Company’s Application to Retire the Diablo Canyon Nuclear Power Plant

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A16-08-006

Application of Pacific Gas and Electric Company for Approval of the Retirement of Diablo Canyon Power Plant, Implementation of the Joint Proposal, And Recovery of Associated Costs Through Proposed Ratemaking Mechanisms.

**Ratesetting**

**Comr Picker - Judge Allen**

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#### **PROPOSED OUTCOME :**

- Approves retirement of the Diablo Canyon Power Plant, approves employee retention and retraining programs, approves a settlement of \$18.6 million for previously-incurred relicensing costs. Replacement procurement issues are referred to the Integrated Resource Planning proceeding.
- Closes the proceeding.

#### **SAFETY CONSIDERATIONS :**

- No direct safety impact; may reduce future risks associated with operation of a nuclear power plant.

#### **ESTIMATED COST :**

- \$190.4 million.





## Regular Agenda – Energy Orders (continued)

### Item # 47 [16137] – Modified Presiding Officer’s Decision Authorizing Pacific Gas and Electric Company to Remove Rather than Trim Almond Trees Planted Beneath Transmission Lines

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C16-12-004

DeJong Brothers Farming, Robert Winters, Trustee of the Winters Revocable Trust, Nicholas and Janie Gatzman, Trustees of the 2014 Gatzman Family Trust, and Rhett and Ashley Burgess vs. Pacific Gas and Electric Company.

**Adjudicatory**

**Comr Peterman - Judge Bemesserfer**

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#### **PROPOSED OUTCOME :**

- Authorizes Pacific Gas and Electric Company to remove almond trees planted beneath transmission lines crossing complainants’ properties.
- Closes the proceeding.

#### **SAFETY CONSIDERATIONS :**

- Removal of trees is the best practice for preventing power outages and fires.

#### **ESTIMATED COST :**

- Unknown at this time, depends on number of trees removed.





## Regular Agenda – Energy Orders (continued)

### Item # 48 [16148] – Transportation Electrification Priority Review Projects

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A17-01-020, A17-01-021 and A17-01-022 - Related matters.

Application of San Diego Gas & Electric Company for Approval of SB 350 Transportation Electrification Proposals. Consolidated applications include Southern California Edison Company and Pacific Gas and Electric Company.

**Ratesetting**

**Comr Peterman - Judge Cooke - Judge Goldberg**

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#### **PROPOSED OUTCOME :**

- Approves with modifications, 15 priority review projects.

#### **SAFETY CONSIDERATIONS :**

- Establishes a Safety Requirements Checklist approved Projects must adhere to.

#### **ESTIMATED COST :**

- \$8.1 million for Pacific Gas and Electric Company ratepayers, \$18.6 million for San Diego Gas & Electric Company ratepayers, \$16.0 million for Southern California Edison Company ratepayers.







## Regular Agenda- Energy Orders (continued)

### Item # 49 [16200] – Emergency Order Directing Southern California Gas Company to Implement a Moratorium on New Natural Gas Service Connections

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Res G-3536

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#### **PROPOSED OUTCOME :**

- Orders Southern California Gas Company (SoCalGas) to implement an emergency moratorium on new commercial and industrial customer gas connections in the Los Angeles County area from January 11, 2018 until further action by the Commission, or March 31, 2018, whichever is earlier.
- Directs SoCalGas to file a Tier 2 Advice Letter to implement tariff changes necessary to implement the moratorium.

#### **SAFETY CONSIDERATIONS :**

- The moratorium is designed to enhance natural gas reliability to core and noncore customers during the winter heating season and thereby preserve public health and safety.

#### **ESTIMATED COST :**

- Unknown at this time.





## Regular Agenda – Orders Extending Statutory Deadline

### Item # 50 [16213] – Order Extending Statutory Deadline

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R15-05-006

Order Instituting Rulemaking to Develop and Adopt Fire-Threat Maps and Fire-Safety Regulations.

**Quasi-Legislative**

**Comr Picker - Judge Kao - Judge Kenney**

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#### **PROPOSED OUTCOME :**

- Extends the statutory deadline for completion of this proceeding until July 14, 2018.

#### **SAFETY CONSIDERATIONS :**

- There are no safety considerations implicated with this Order Extending Statutory Deadline.

#### **ESTIMATED COST :**

- There are no costs associated with this Order Extending Statutory Deadline.





## Regular Agenda – Orders Extending Statutory Deadline (continued)

### Item # 51 [16214] – Order Extending Statutory Deadline

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R15-02-020

Order Instituting Rulemaking to Continue Implementation and Administration, and Consider Further Development, of California Renewables Portfolio Standard Program.

**Ratesetting**

**Comr Rechtschaffen - Judge Atamturk - Judge Mason - Judge Simon**

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#### **PROPOSED OUTCOME :**

- Extends the statutory deadline for completion of this proceeding until August 4, 2018.

#### **SAFETY CONSIDERATIONS :**

- There are no safety considerations implicated with this Order Extending Statutory Deadline.

#### **ESTIMATED COST :**

- There are no costs associated with this Order Extending Statutory Deadline.





## Regular Agenda- Management Reports and Resolutions

### Item # 52 [16217] – Southern California Residential and Non-Residential December Wildfire Relief

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Res M-4835

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#### **PROPOSED OUTCOME :**

- Emergency Authorization and Order directing utilities to implement emergency consumer protections to support residential and non-residential customers of the December 2017 Southern California wildfires.

#### **SAFETY CONSIDERATIONS :**

- Emergency consumer protections for Southern California fire victims.

#### **ESTIMATED COST :**

- Unknown.







## Regular Agenda- Management Reports and Resolutions (continued)

### **Item # 53 [16229] – Internal Audit Charter**

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**Adoption of the revised Audit Charter to govern how internal audit operates. This item is for Commission consideration and vote.**





## Regular Agenda- Management Reports and Resolutions (continued)

### **Item # 54 [16212] – Briefing by the United States Geological Survey on a 7.0 Earthquake Scenario on the Hayward Fault**

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**The United States Geological Survey (USGS) will roll out to the public an earthquake scenario on the Hayward fault in April 2018. Dale Cox of the USGS will brief the Commission on its "HayWired" scenario of a 7.0 earthquake on the Hayward fault so that the Commission can prepare to respond to any resulting inquiries pertaining to critical utility infrastructure.**





## Regular Agenda- Management Reports and Resolutions (continued)

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Robert and Edgar, the video is supposed to play now.





NATURAL HAZARDS MISSION AREA



# Science Application for Risk Reduction (SAFRR)

Dale Cox, Project Manager (USGS SAFRR)

Anne Wein, Keith Porter, Laurie Johnson, Kenneth Hudnut & 65+ Contributors



Natural Hazards: Earthquake • Volcanic Eruption • Landslide • Flood • Geomagnetic Storm • Wildfire • Tsunami • Coastal Erosion



# The SAFRR Scenarios

**ShakeOut:** San Andreas fault (southern California) earthquake scenario (2008)

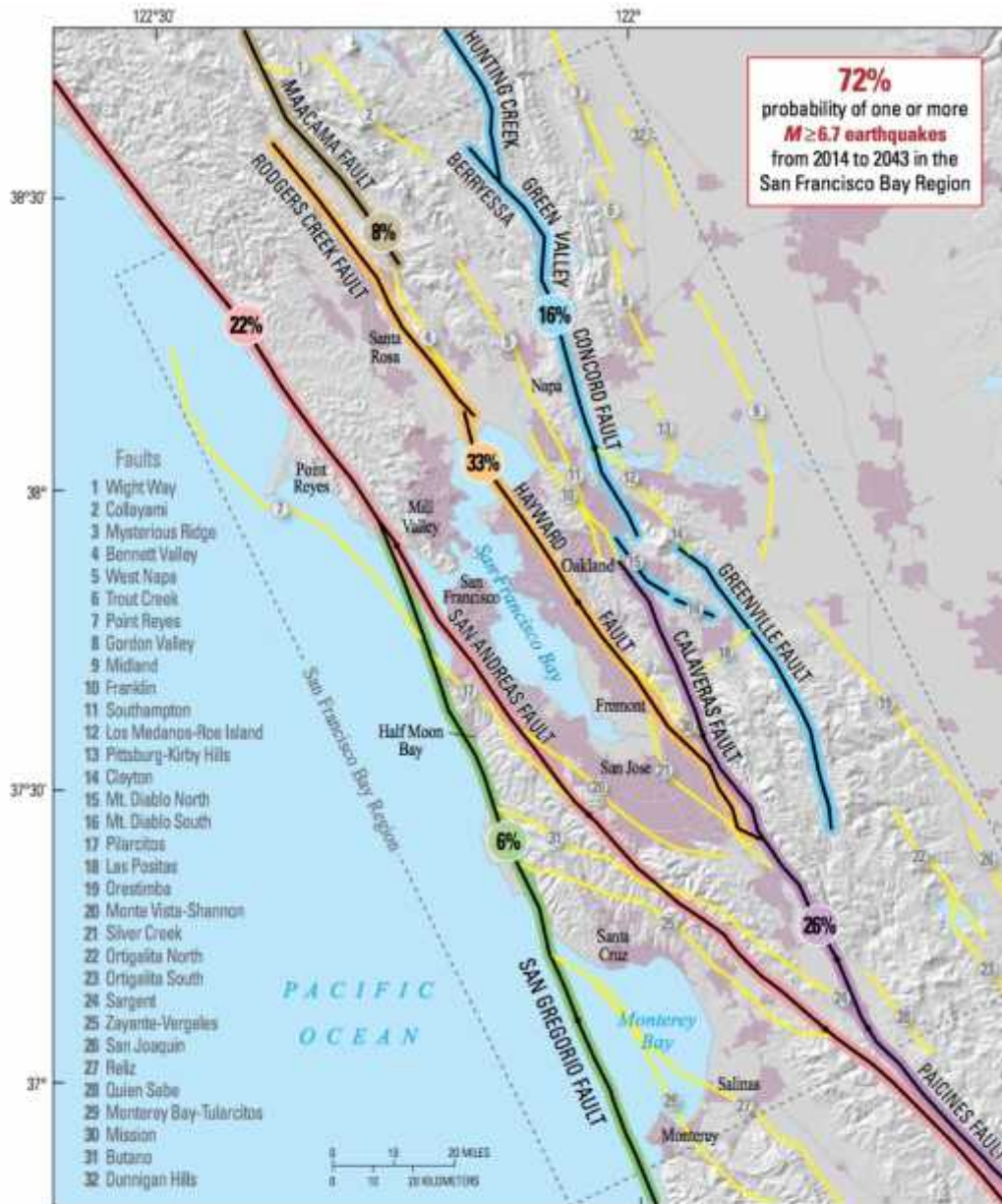
**ARkStorm:** winter storm scenario impacting U.S. West Coast (2010)

**Tsunami Scenario:** tsunami generated by an Alaskan earthquake and impacting the U.S. West Coast (2013)

**HayWired:** Hayward fault (northern California) earthquake scenario (in progress; April 18, 2018 - *release date*)

**ARkStorm Retrospective:** 2017 ARs, disaster declarations, beach loss, extreme storms, snow pack & melt runoff





**Figure 2.** Map of known active geologic faults in the San Francisco Bay region, California, including the Hayward Fault. The 72 percent (%) probability of a magnitude ( $M$ ) 6.7 or greater earthquake in the region includes well-known major plate-boundary faults, lesser-known faults, and unknown faults. The percentage shown within each colored circle is the probability that a magnitude 6.7 or greater earthquake will occur somewhere on that fault system by the year 2043. The probability that a magnitude 6.7 or greater earthquake will involve one of the lesser known faults is 13 percent. (From Aagaard and others, 2016.)

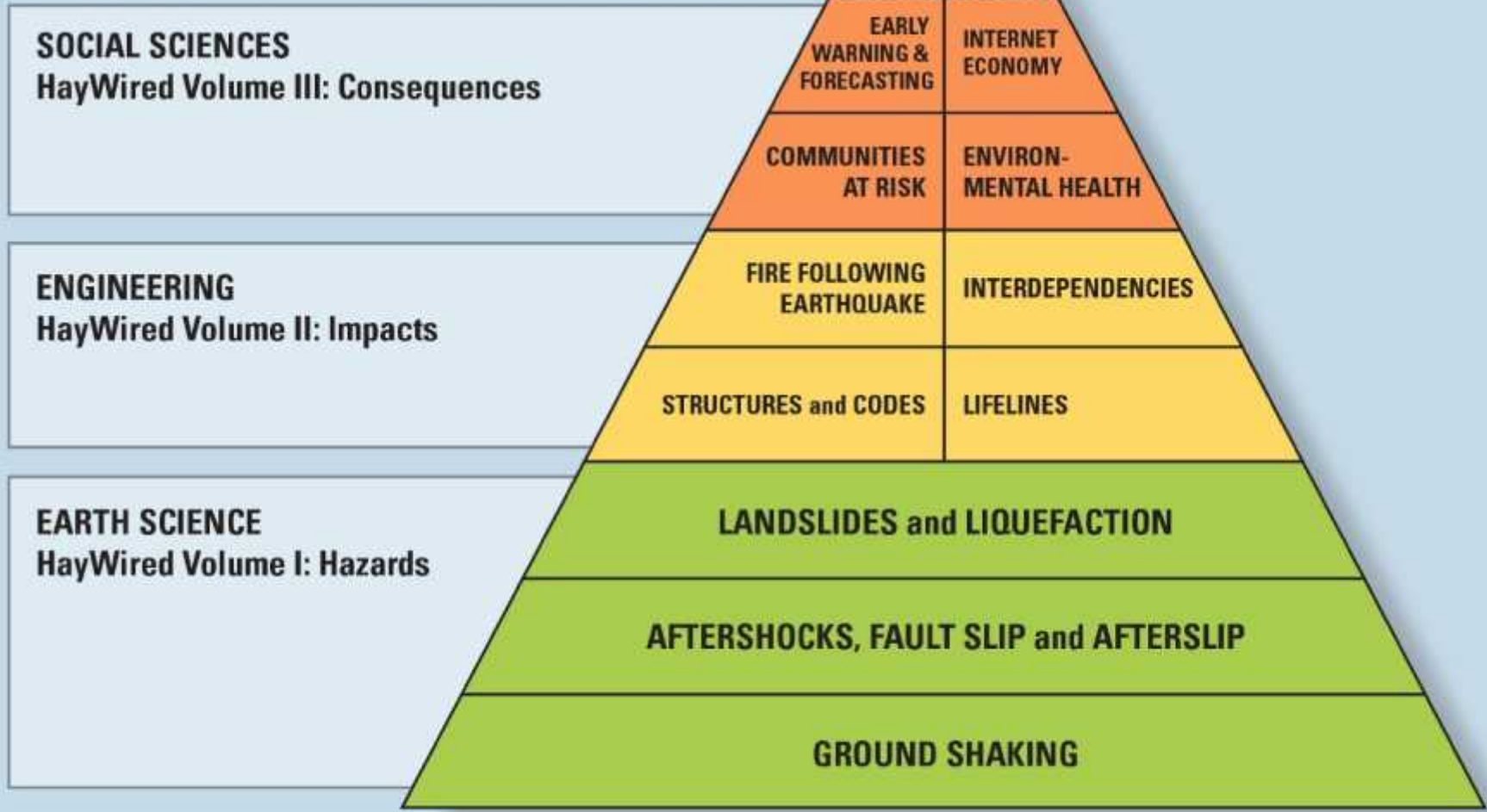
The Hayward Fault is arguably the most urbanized active fault in the United States.

It offers an informative case study of the effects of a large urban earthquake on a modern U.S. metropolis.

# Building the HayWired Scenario



*Integrating across disciplines...*



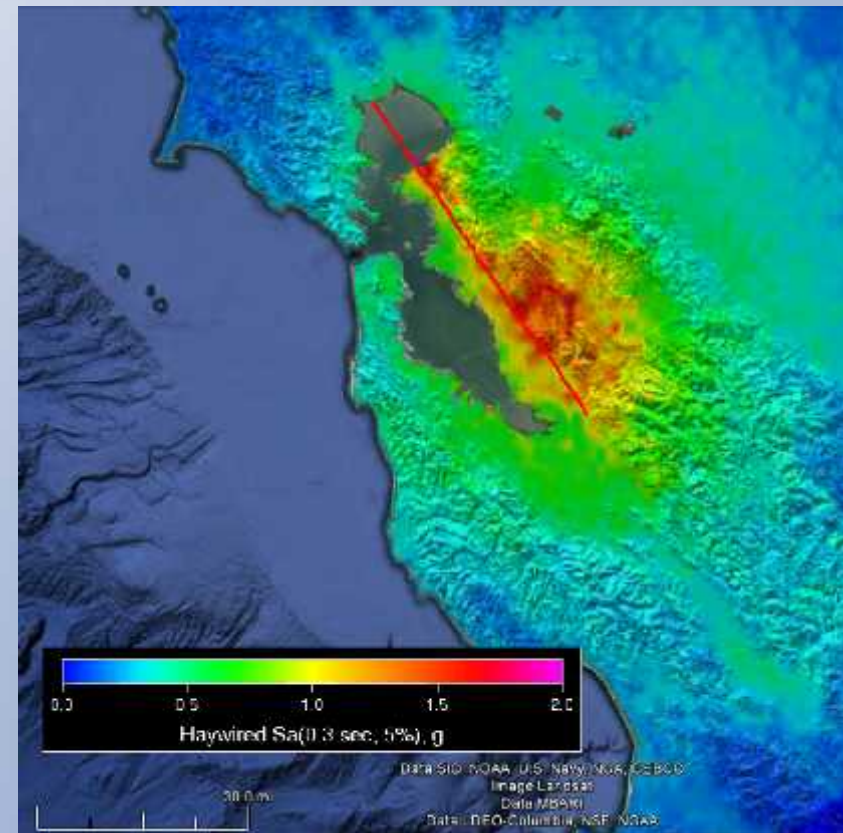
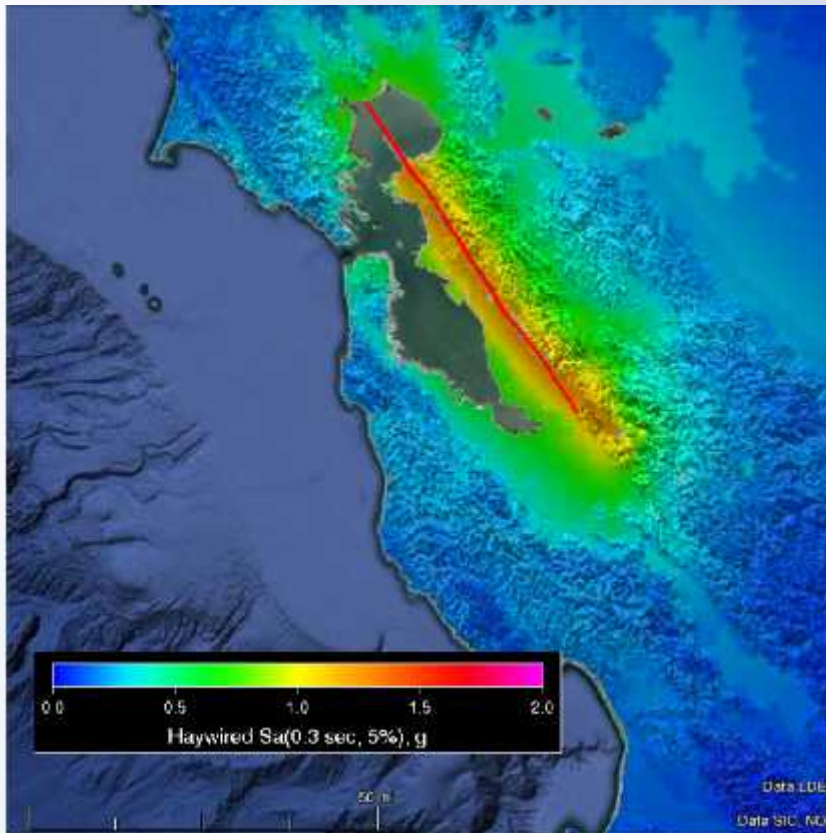


# HayWired: Physics-Based Scenario



Hayward Mw 7.0 median

Same earthquake, bilateral rupture, physics-based model



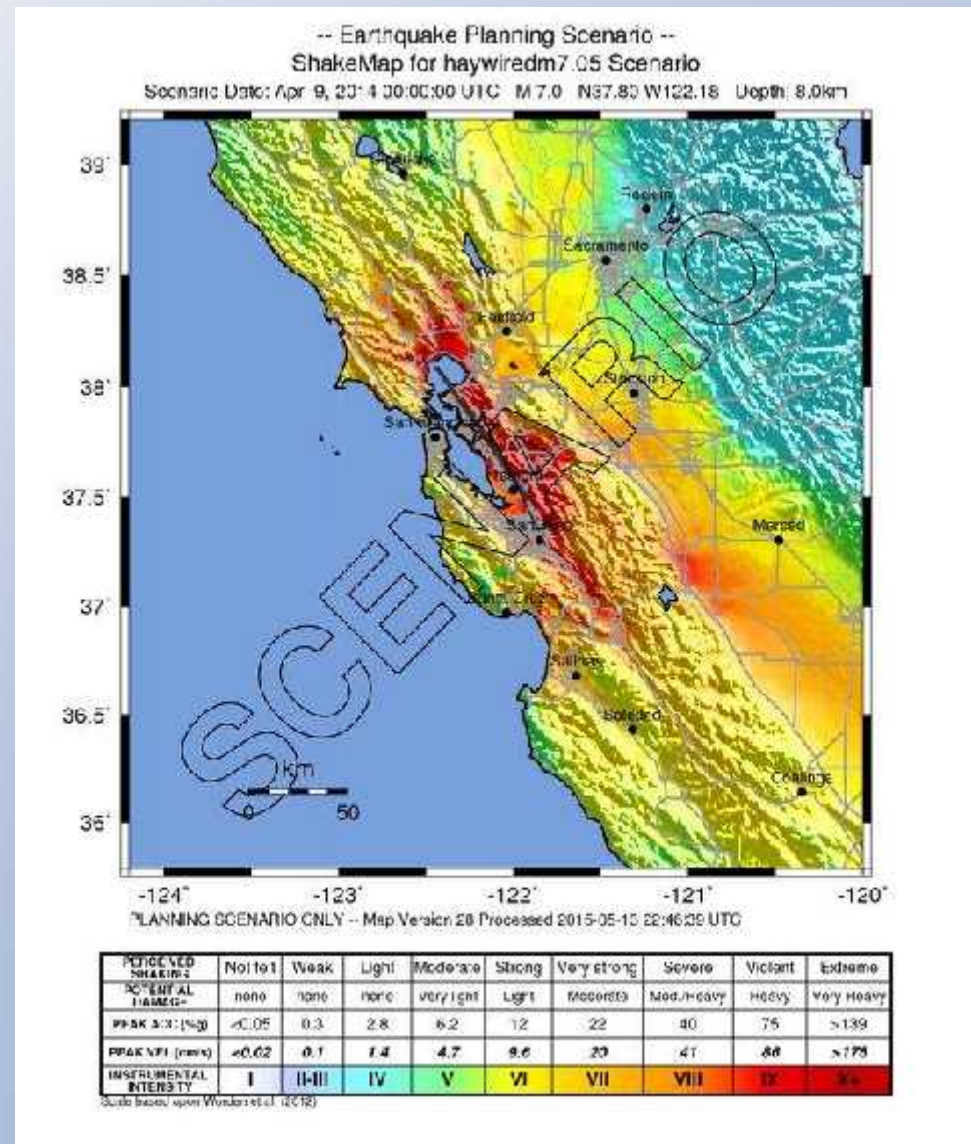
# HayWired: Mainshock Ground Motions



M7.0 earthquake occurring on April 18, 2018, at 4:18 p.m, wind is mild, no rain, temperature avg.

Rupture starts under Oakland, north into San Pablo Bay and south to the city of Fremont (53 miles)

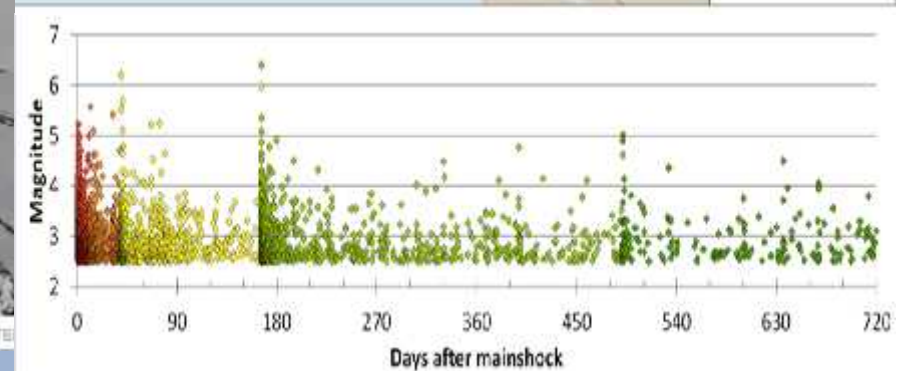
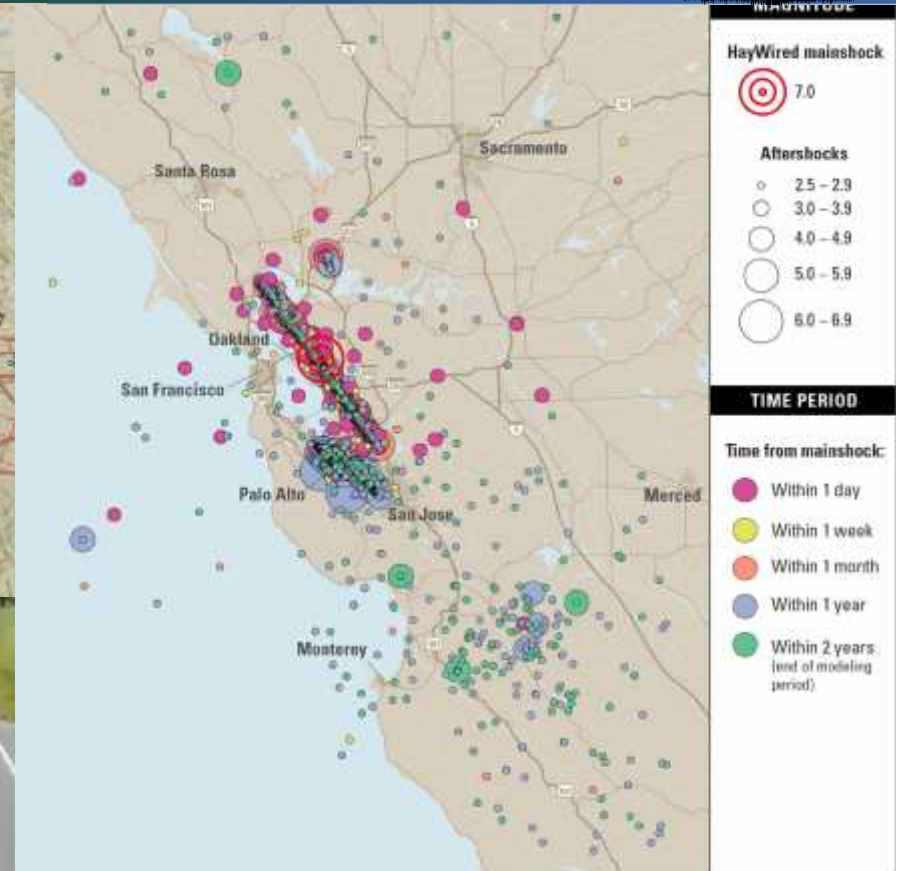
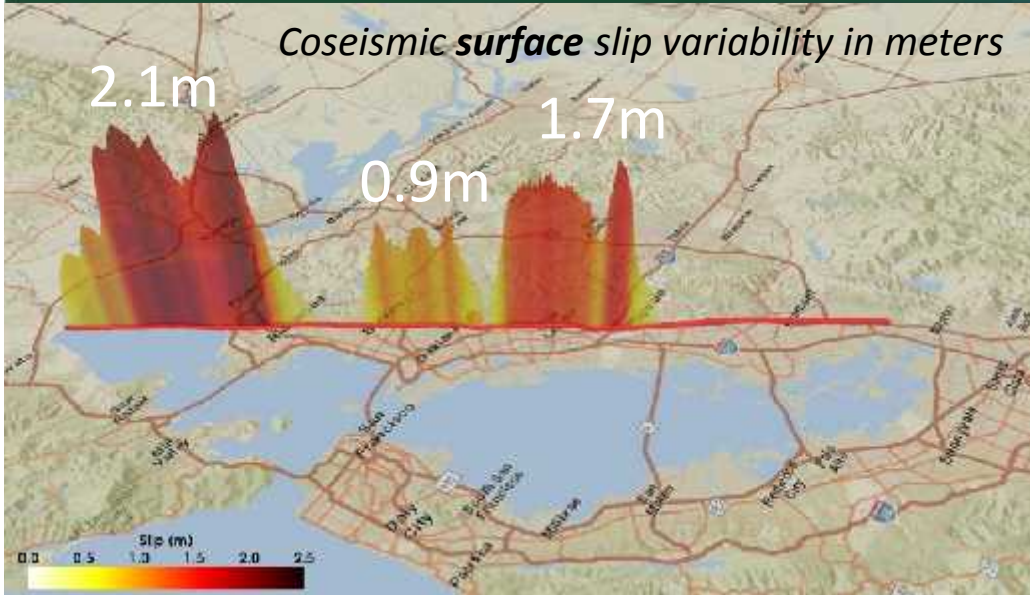
The HayWired scenario describes a M 7.0 earthquake, 83-km (51 mile) rupture, with up to 2 meters (6.5 feet) of fault offset either in the form of coseismic slip or afterslip







# HayWired: Fault Slip, Afterslip and Aftershocks

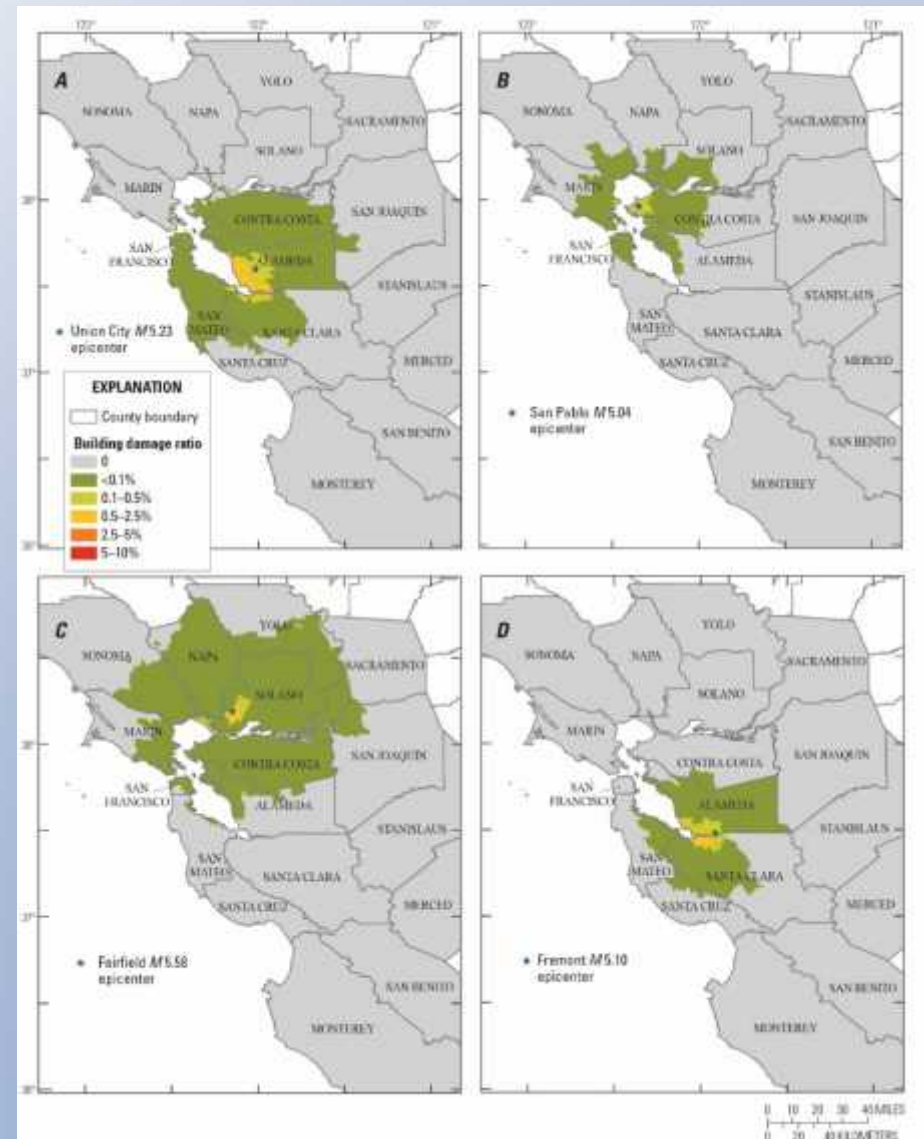




# HayWired: Hazus Aftershock Analysis



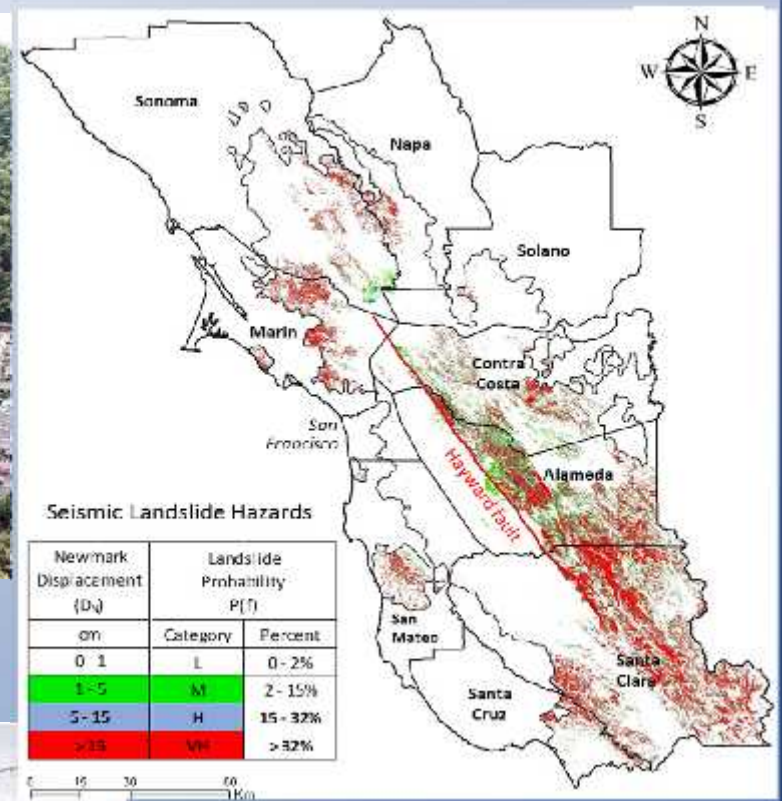
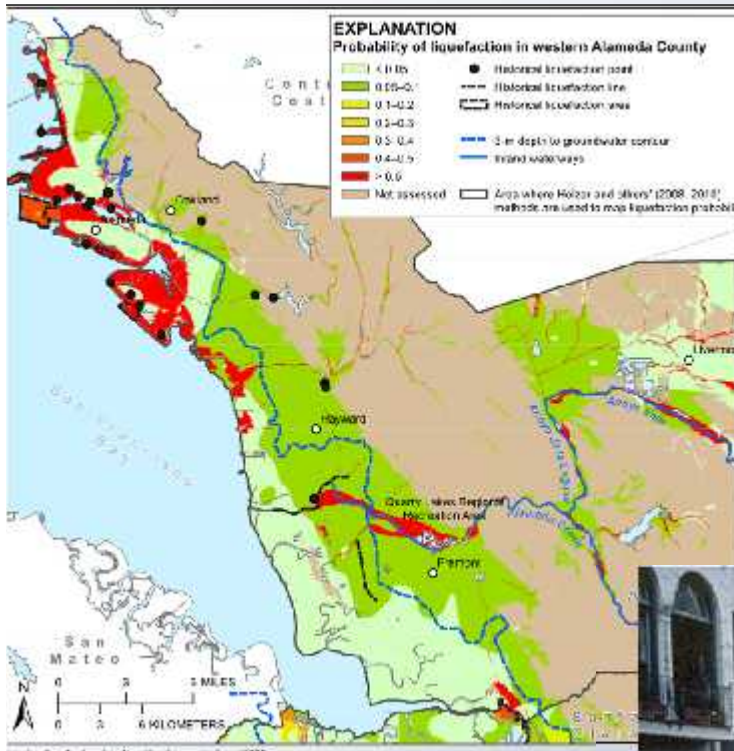
- Aftershocks contribute 20% of loss
  - 12% from 3 aftershocks  $M_w$  6.0 to 6.4
  - 8% to 13 aftershocks  $M_w$  5.0 to 5.9
- Some areas more damaged by aftershocks
- Repeat liquefaction is a concern
- 1<sup>st</sup> Hazus-MH analysis of entire earthquake sequence in a scenario



# HayWired: Landslide & Liquefaction



2001 El Salvador earthquake-induced landslide



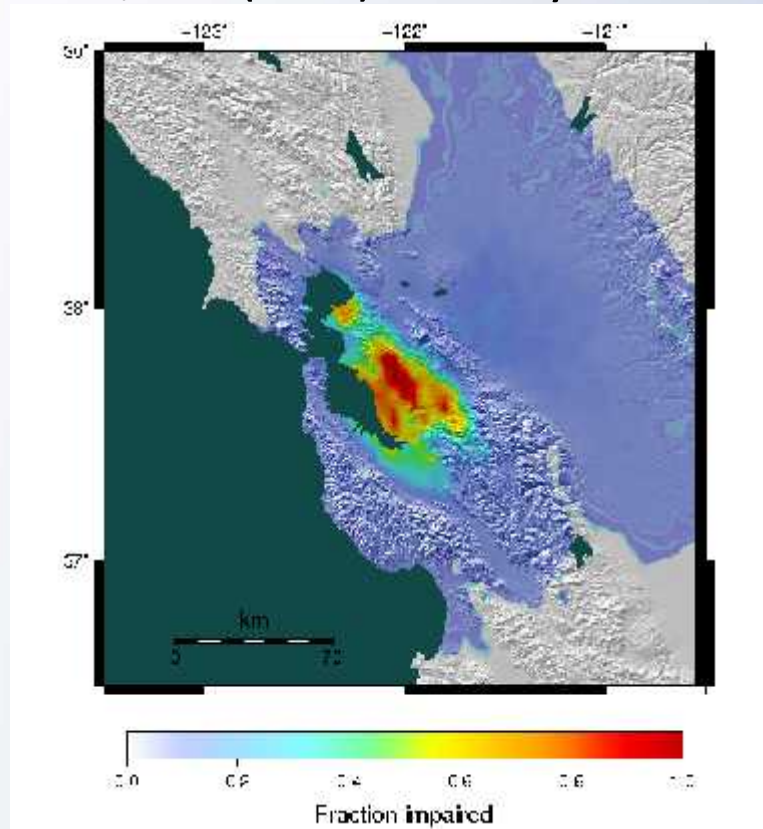
Liquefaction in San Francisco Marina, Loma Prieta Earthquake 1989



# An immediate occupancy code? Build 50% stronger & stiffer; cost 1% more; reduce impairment by 3/4<sup>th</sup>

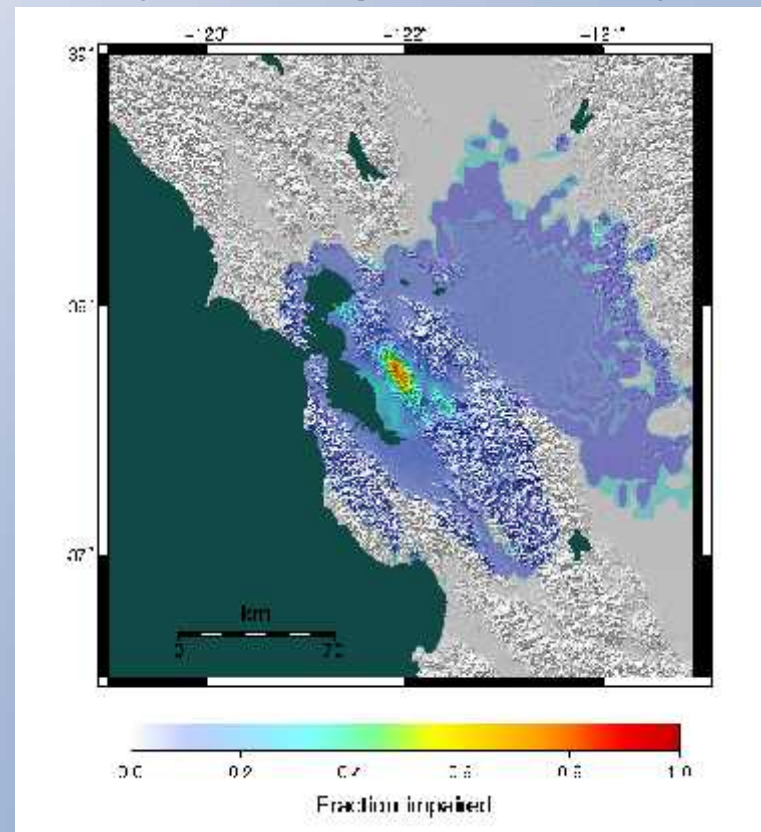
## Life Safety

8,000 buildings (0.4%) collapse  
490,000 (24%) red or yellow tag



## Immediate Occupancy

95% shelter in place, collapse, red,  
and yellow tags reduced by 3/4



Vs.

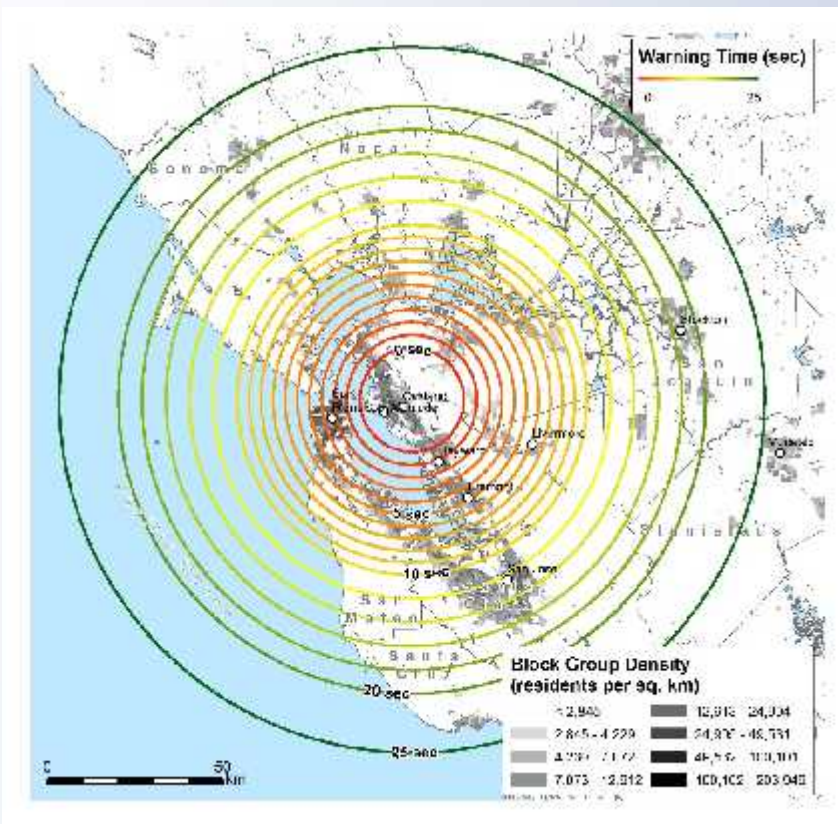
Preliminary information subject to revision. Do not cite.

# HayWired: EEW and DCHO



Earthquake early warning (EEW) time in HayWired

Drop, cover, and hold on (DCHO) reaction time



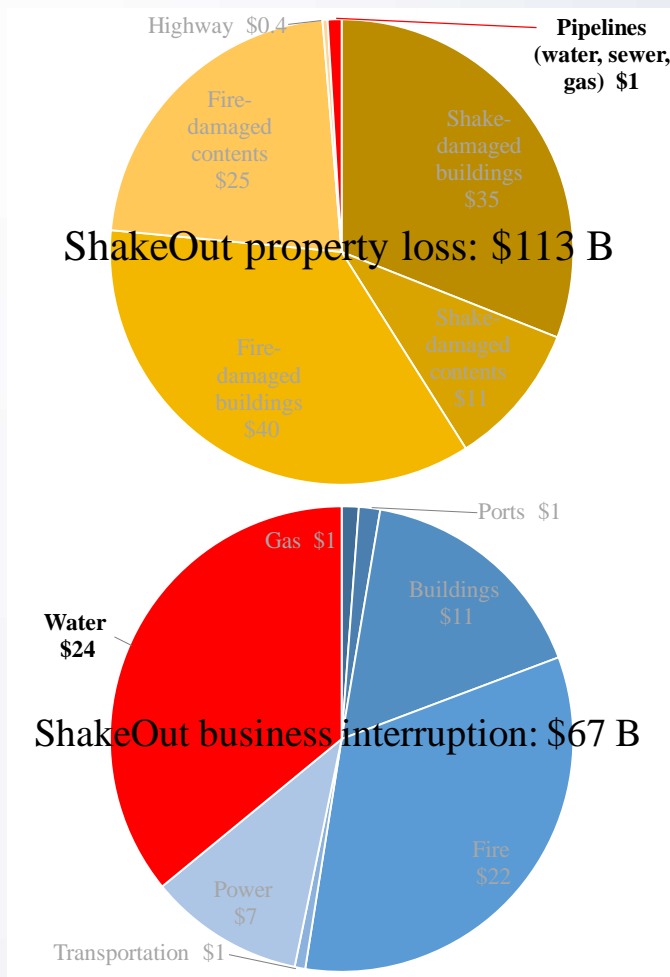
EEW + DCHO could prevent 1,500 injuries “worth” \$300M in Mw 7.0 Hayward

Preliminary information subject to revision. Do not cite.





# HayWired: Water Dominates EQ Risk to Society



- Water causes economic losses far out of proportion to the utility's repair cost
- Some Bay Area agencies have >50% brittle pipe
- Aggressive pipe replacement: 1% per year
- Equals decades until resilient water supply

What happens in HayWired?

Preliminary information subject to revision. Do not cite.

# HayWired: New Water Network Resilience Model

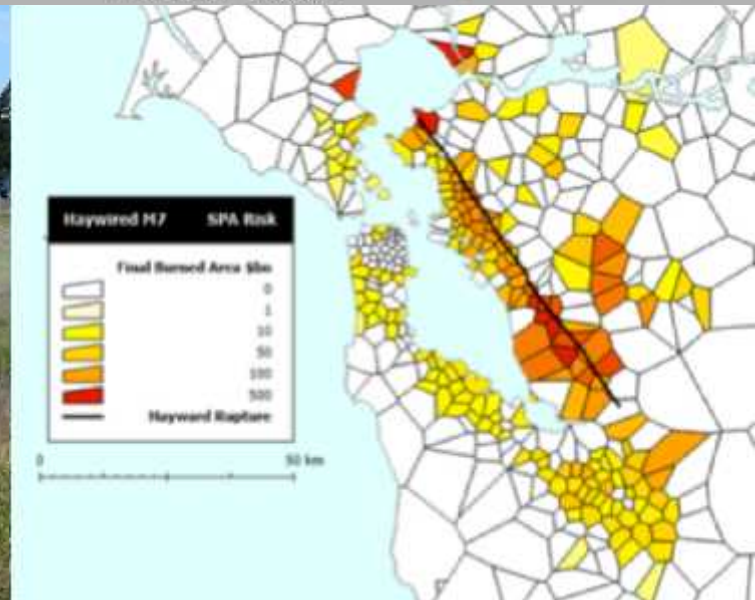
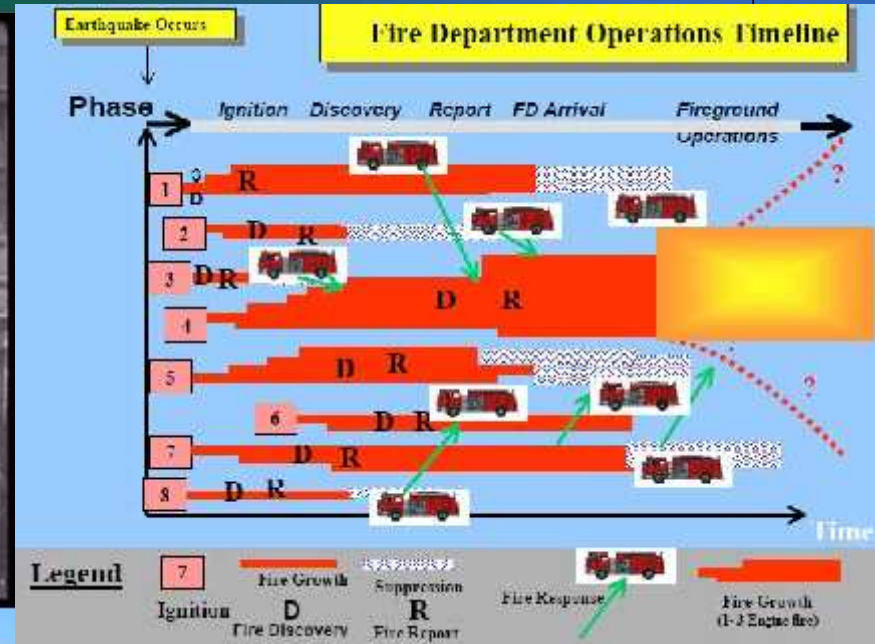
- Measures lost service-days
- Lifeline interaction & resource limits
- Vetted by EBMUD & SJWC
- Requires only GIS & spreadsheet

Condition	Lost service days	Resilience benefit (service days)	Avg restoration (days)	Resilience benefit
As-is	17,000,000	0	44	0
Fuel plan	16,800,000	200,000	43	\$150 million
Replace all fragile pipe	8,800,000	8,200,000	22	\$6 billion

Preliminary information subject to revision. Do not cite.

# HayWired: Fire Following Earthquake

HAYWIRED





# HayWired: Our Interconnected World



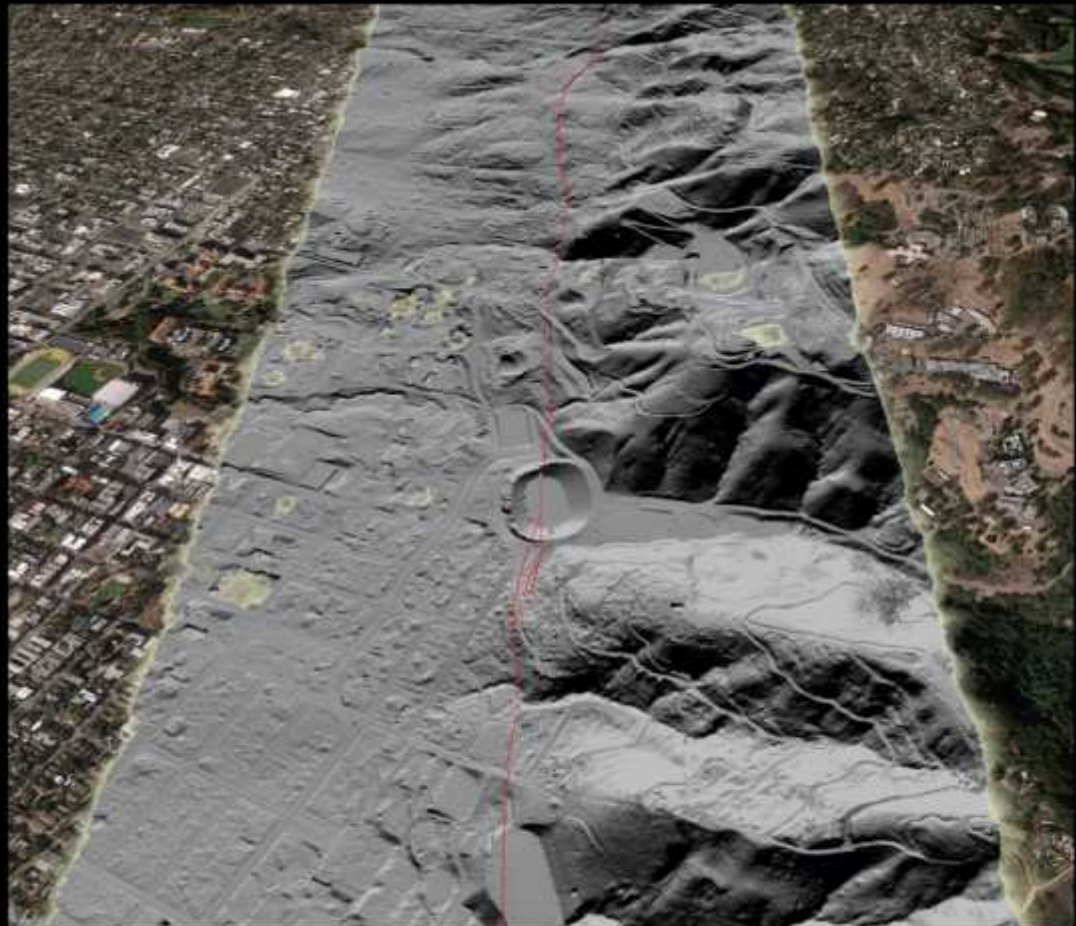
# HayWired Objectives:

- Improve the communication of earthquake hazard science in risk reduction
- Advance basic knowledge of, and inform actions to reduce earthquake risks
- Help build community capacity to respond and recover from earthquakes



Prepared in cooperation with the California Geological Survey

## The HayWired Earthquake Scenario—Earthquake Hazards



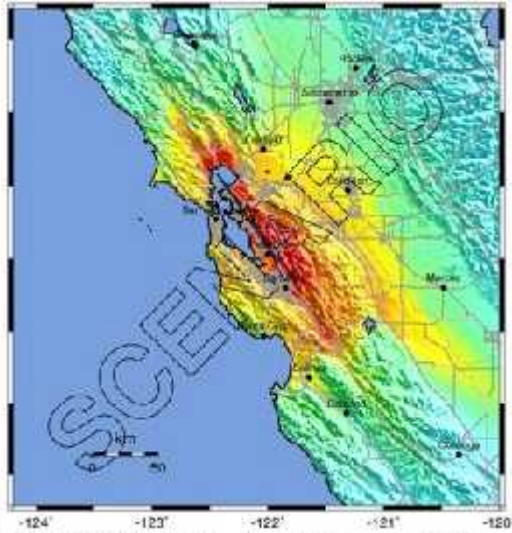
Scientific Investigations Report 2017–5013–A–H

# HayWired: Objectives



- Improve understanding of the benefits of earthquake early warning
- Facilitate conversations about lifeline restoration interdependencies (exercises on-going)
- Educate about building code performance and public preferences for the building code
- Help anticipate environmental health issues
- Engage stakeholders in the discussions about the vulnerabilities and resilience in cyber infrastructure & the internet economy
- Provide materials for emergency response, business continuity and recovery exercises





# HayWired Roll Out

**The HayWired Earthquake Scenario—Earthquake Hazards**  
 Edited by Shane T. Detweiler and Anne M. Wein  
 Scientific Investigations Report 2017–5013–A–H  
 [Also see <https://doi.org/10.3133/sir20175013>]

## The HayWired Scenario—How Can the San Francisco Bay Region Bounce Back from or Avert an Earthquake Disaster in an Interconnected World?

By Kenneth W. Hudnut,<sup>1</sup> Anne M. Wein,<sup>1</sup> Dale A. Cox,<sup>1</sup> Suzanne C. Perry,<sup>1</sup> Keith A. Porter,<sup>2</sup> Laurie A. Johnson,<sup>3</sup> and Jennifer A. Strauss<sup>4</sup>

### Introduction

The HayWired scenario is a hypothetical yet scientifically realistic and quantitative depiction of a moment magnitude ( $M_w$ ) 7.0 earthquake (mainshock) occurring on April 18, 2018, at 4:18 p.m. on the Hayward Fault in the east bay part of the San Francisco Bay area, California. The hypothetical earthquake has its epicenter in Oakland, and strong ground shaking from the scenario causes a wide range of severe impacts throughout the greater bay region. In the scenario, the Hayward Fault is ruptured along its length for 83 kilometers (about 52 miles).

Building on a decades-long series of efforts to reduce earthquake risk in the San Francisco Bay region, the hypothetical HayWired earthquake is used to examine the well-known earthquake hazard of the Hayward Fault, with a focus on newly emerging vulnerabilities. After a major

life-saving response functions can be compromised. For these reasons, the name HayWired was chosen for this scenario to emphasize the need to examine our interconnectedness and reliance on telecommunications and other lifelines (such as water and electricity) toward the goal of making the San Francisco Bay region more resilient in future earthquakes.

Earthquake risk in the San Francisco Bay region has been greatly reduced as a result of previous concerted efforts; for example, a roughly \$50 billion investment in strengthening infrastructure was motivated in large part by the 1989 magnitude ( $M$ ) 6.9 Loma Prieta earthquake. The earthquake hazard from the Hayward Fault remains high, however, and much work still needs to be done to ensure that the region is ready for a major earthquake like that modeled in the HayWired scenario. Already, there is a renewed commitment from the newly formed HayWired Coalition—consisting of numerous government, academic, utility-

Mon. 4/24/17

All-Partner  
Kick-Off meeting

Year-long series of  
- workshops  
- exercises  
- reduce risk

Creation of a  
HayWired Partner  
Package

Public Rollout  
April 18, 2018

ShakeOut:  
Oct. 18, 2018



ARUP—Design and Engineering Consultants  
Association of Bay Area Governments  
Aurecon  
Bay Area Center for Regional Disaster Resilience  
Bay Area Rapid Transit Authority  
Boston University  
California Department of Public Health  
California Department of Transportation  
California Earthquake Authority  
California Earthquake Clearinghouse  
California Geological Survey  
California Governor’s Office of Business and Economic Development  
California Governor's Office of Emergency Services  
California Public Utilities Commission  
California Resiliency Alliance  
California Seismic Safety Commission  
Carnegie Mellon University Silicon Valley  
City of Berkeley  
City of Oakland  
City of San Francisco, Department of Emergency Management  
City of Walnut Creek

Earthquake Country Alliance  
Earthquake Engineering Research Institute  
East Bay Municipal Utilities District  
Federal Emergency Management Agency  
Joint Venture Silicon Valley  
Laurie Johnson Consulting  
MMI Engineering  
Pacific Earthquake Engineering Research Center  
Pacific Gas and Electric  
Palo Alto University  
Red Cross  
Rockefeller Foundation—100 Resilient Cities  
San Jose Water Company  
Southern California Earthquake Center  
SPA Risk LLC  
San Francisco Bay Area Planning and Urban Research Association  
Strategic Economics  
Structural Engineers Association of Northern California  
University of California Berkeley Seismological Laboratory  
University of Colorado Boulder  
University of Southern California  
U.S. Geological Survey



# Questions?





## Regular Agenda- Management Reports and Resolutions (continued)

### **Item # 54 [16212] – Briefing by the United States Geological Survey on a 7.0 Earthquake Scenario on the Hayward Fault**

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**The United States Geological Survey (USGS) will roll out to the public an earthquake scenario on the Hayward fault in April 2018. Dale Cox of the USGS will brief the Commission on its "HayWired" scenario of a 7.0 earthquake on the Hayward fault so that the Commission can prepare to respond to any resulting inquiries pertaining to critical utility infrastructure.**







# Commissioners' Reports





# Management Reports







# Regular Agenda – Management Reports and Resolutions

## Item # 55 [16206]

### Report and Discussion on Recent Consumer Protection and Safety Activities

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# CPUC Commission Meeting

## January 11, 2018



### CPUC Office of the Safety Advocate (OSA) 2017 in Review Roadmap: 2018 and beyond

January 11, 2018





# Agenda

- 1. Introduction**
- 2. 2017 in Review**
- 3. Roadmap: 2018 and beyond**





# Introduction

## Office of the Safety Advocate Overview

The Governor and legislature approved legislation in late 2016, creating and authorizing the CPUC's new Office of the Safety Advocate (OSA).

The legislation mandates that OSA, among other things:

- Advocate for improvements to public utility safety management systems, safety culture, and aging infrastructure.
- Recommend improvements to the CPUC's own safety management systems and safety culture (Advisory role to the Commission).
- Advocate as a party in proceedings to assist the Commission in its efforts to hold public utilities accountable for their safe operation.

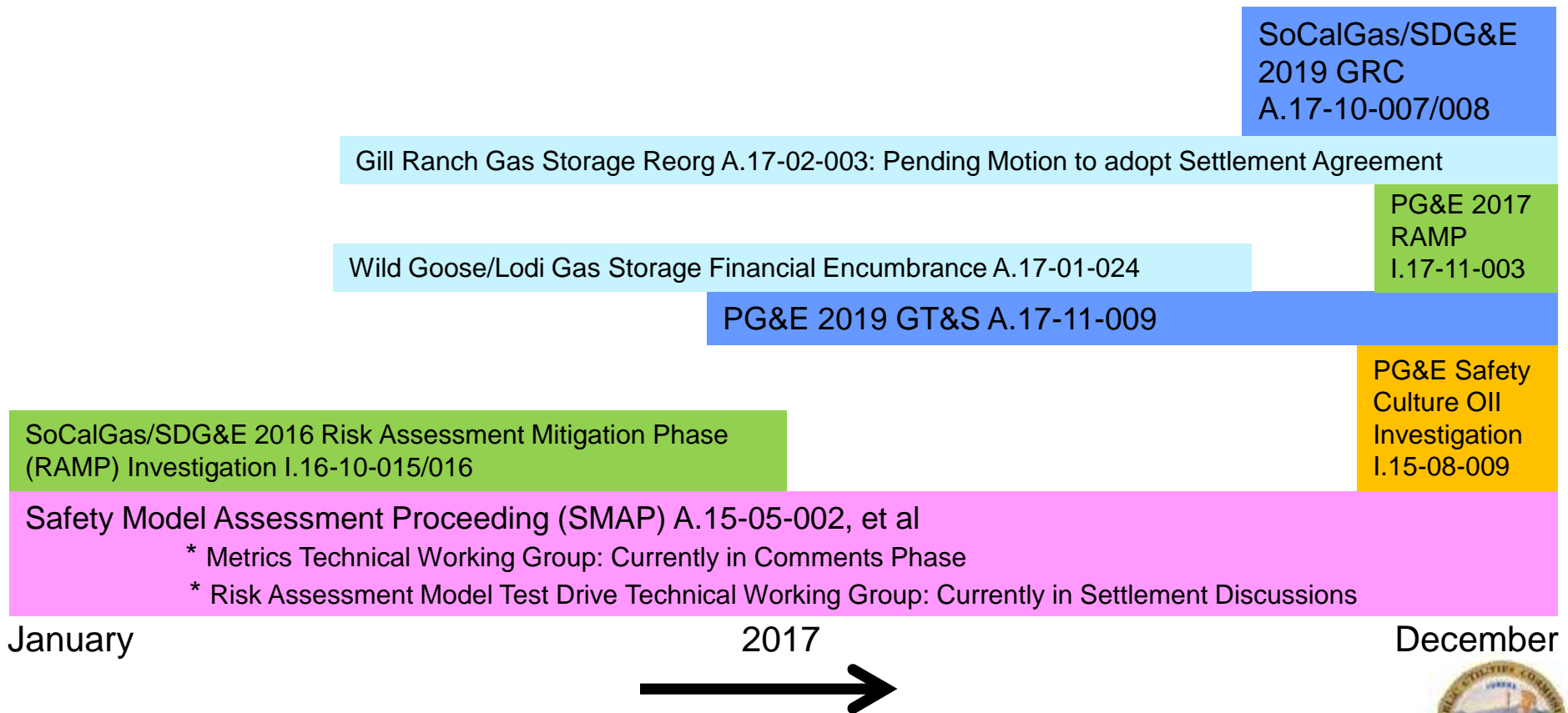
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## 2017 in Review: Proceedings



January

2017

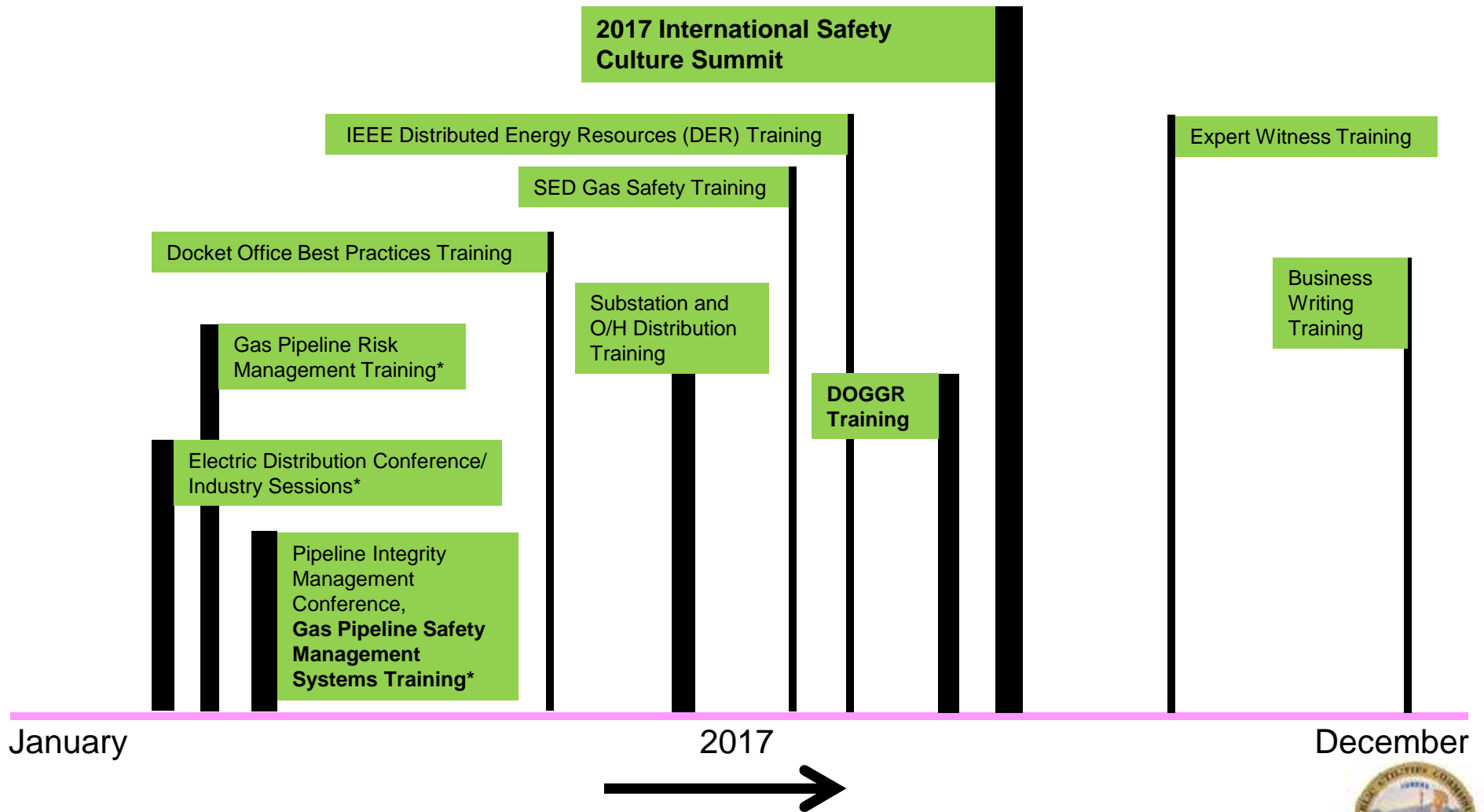
December







## 2017 in Review: Conferences/Training

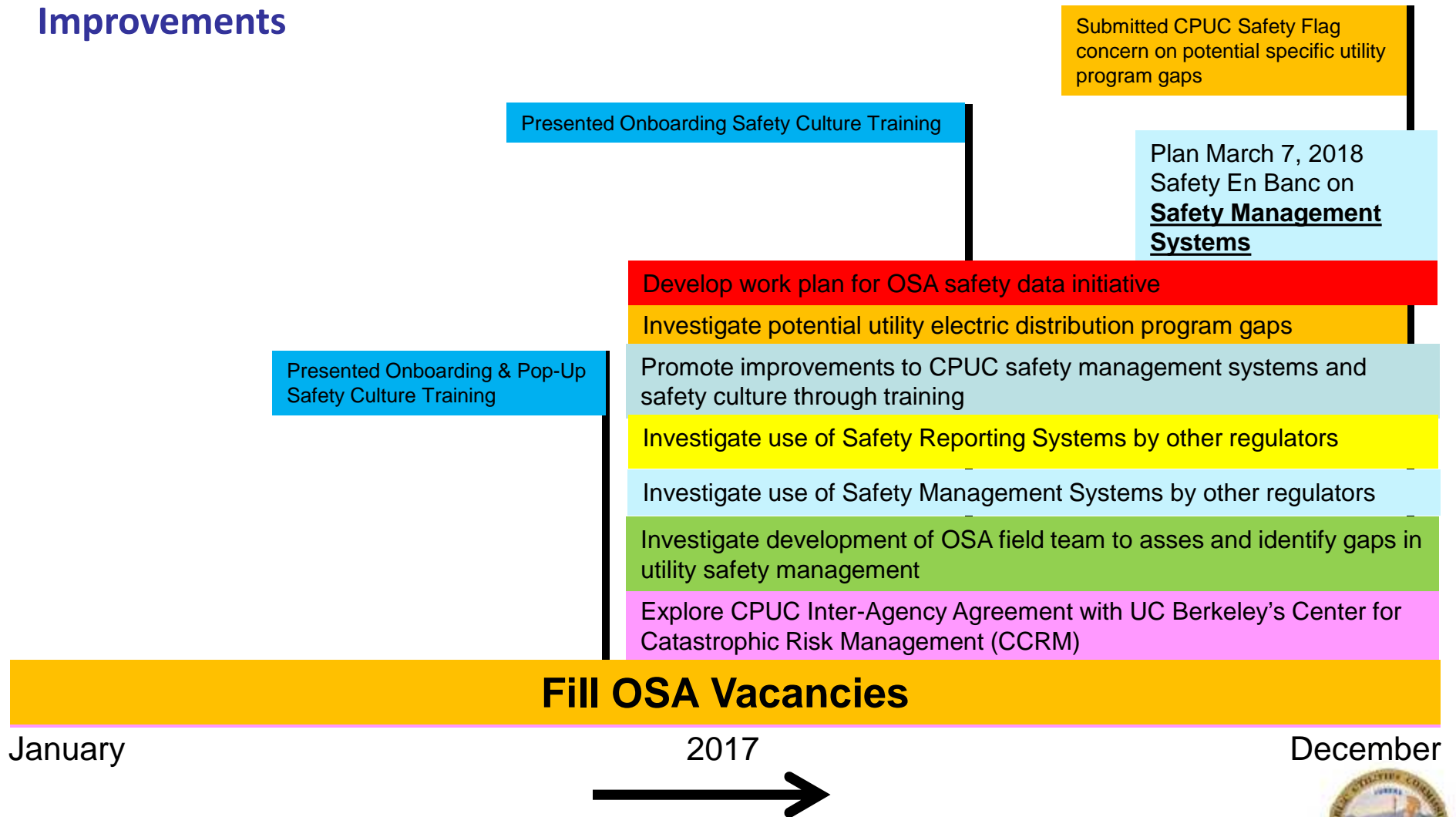


\*Scheduled training OSA staff received prior to OSA hire date



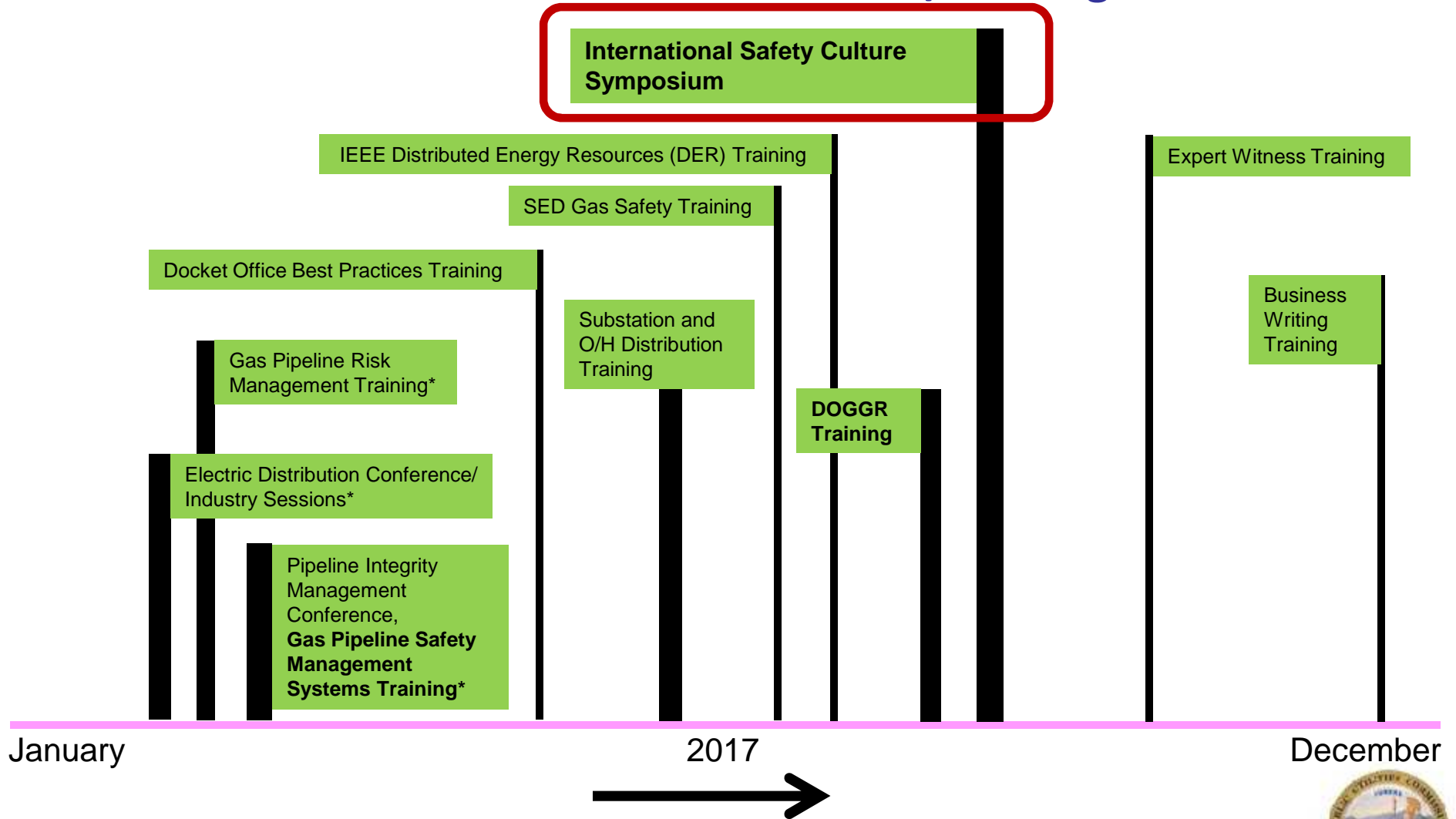


## 2017 in Review: OSA Activities to Promote Utility and CPUC safety Management Improvements





## 2017 in Review: Conferences/Training



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SUMMIT  
2017

SAFETY CULTURE SUMMIT  
2017

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# 2ND INTERNATIONAL SAFETY CULTURE SUMMIT

The Westin Nova Scotian, Halifax

October 11&12, 2017

Setting the Agenda for Safety Culture in North America





REGULATOR SAFETY (OVERSIGHT) CULTURE: HOW A REGULATOR'S CULTURE  
INFLUENCES SAFETY OUTCOMES IN HIGH HAZARD INDUSTRIES

A dissertation submitted

by

CLAUDINE SHARON BRADLEY

to

FIELDING GRADUATE UNIVERSITY

in partial fulfillment of the  
requirements for the degree of

DOCTOR OF PHILOSOPHY

in

HUMAN AND ORGANIZATIONAL SYSTEMS

This dissertation has been accepted for  
the faculty of Fielding Graduate University by

*Keith E. Melville*

Keith E. Melville, PhD  
Committee Chair

Committee:

Michael R. Manning, PhD, Faculty Reader  
Frederick Steier, PhD, Faculty Reader  
Fariba Fuller, MA, Student Reader  
John Carroll, PhD, External Examiner

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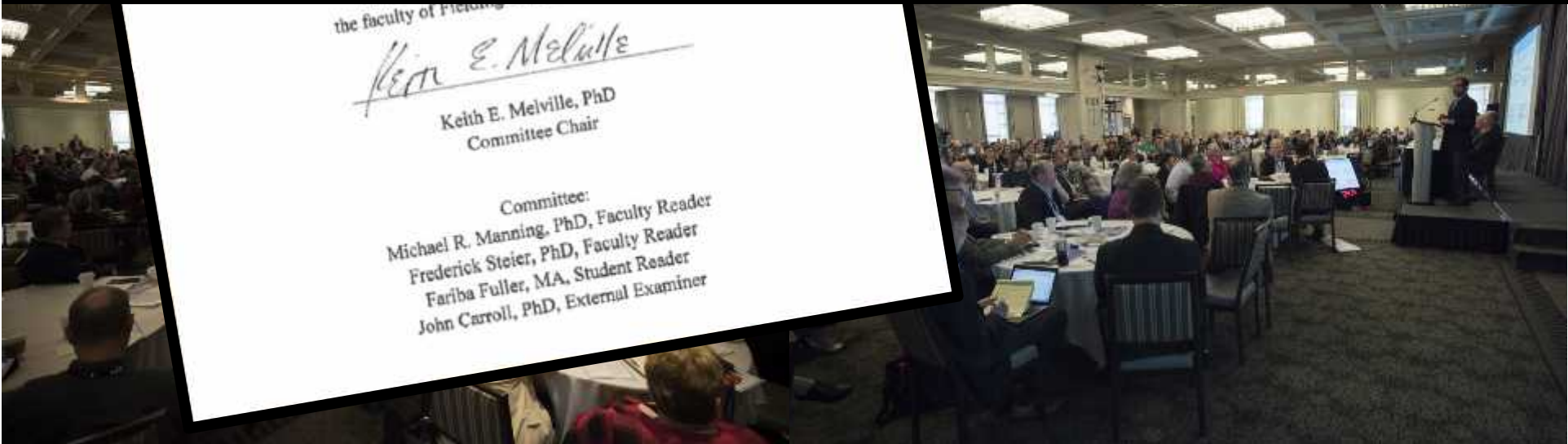
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SUMMIT  
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SAFETY

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### **CHAPTER FIVE: DISCUSSION OF FINDINGS**

This inductive qualitative study was designed to answer the question: “What new framework best describes/explains regulator safety culture and its influence on industry safety culture and performance?” The experiences of 16 industry and regulator participants were collected and evaluated to understand the various dimensions of a regulator’s safety culture and the manner in which culture influences safety outcomes in the Canadian oil and gas sector.





Table 9

*Comparison of Regulator Safety (Oversight) Cultural Dimensions*

<b>Bradley Regulator Safety (Oversight) Culture Dimensions (2016)</b>	<b>Fleming Study Dimensions (2016)</b>	<b>Nuclear Energy Agency (NEA) Regulator Safety Culture Dimensions (2016)</b>	<b>Swiss Federal Nuclear Regulatory Inspectorate Oversight Culture Dimensions (2015)</b>
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Learning Culture  Innovation	Commitment to transparency and open communication  Desire for continuous learning and self-improvement	Cooperation and open communication  Learning (and continuous improvement) (Learning and) continuous improvement	Overarching collaboration and mutual knowledge and understanding  Self-reflection and improved oversight
Technical Excellence			Competence and Professionalism
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Systems Thinking		Systemic approach	







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The Governor and legislature approved legislation in late 2016, creating and authorizing the CPUC's new Office of the Safety Advocate (OSA).

The legislation mandates that OSA, among other things:

- Advocate for improvements to public utility safety management systems, safety culture, and aging infrastructure.
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# Roadmap: 2018 & Beyond

## CPUC Proceedings:

Maintain and expand involvement in CPUC Proceedings.

Hire additional staff and expand training for new and existing staff to stay current with evolving technology and industry practices.

Compare and contrast utility programs to identify best practices, gaps, and corrective actions

Develop OSA safety data database to support prioritization of OSA work and to support OSA testimony and effectiveness in proceedings.

## Utility Safety Management, Culture, Infrastructure:

Explore adoption of Canadian regulator Safety Management System model.

Assess utility Safety Management Systems to identify gaps & corrective actions



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## CPUC Safety Management, Culture:

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OSA's 2017 Annual Report:  
<http://www.cpuc.ca.gov/safetyadvocates/>





# Regular Agenda – Management Reports and Resolutions

## Item # 55 [16206]

### Report and Discussion on Recent Consumer Protection and Safety Activities

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# Management Reports





# **The CPUC Thanks You For Attending Today's Meeting**

**The Public Meeting is adjourned.  
The next Public Meeting will be:**

**February 8, 2018 at 9:30 a.m.  
in San Francisco, CA**

