BROCHURE TEXT AND GRAPHICS

September 20, 2016

Earthquake Engineering Research Institute
San Diego Regional Chapter

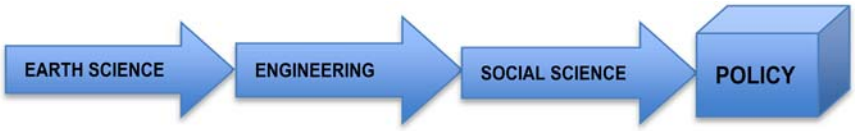
San Diego-Tijuana Earthquake Planning Scenario Update

Scenario for a Magnitude 6.9 Earthquake on the Rose Canyon Fault For Earthquake Risk Reduction in the San Diego Tijuana Region

Who We Are:
The EERI is a national, nonprofit, technical society of engineers, geoscientists, architects, planners, public officials, and social scientists. Members include researchers, practicing professionals, educators, government officials, and building code regulators.

Our Mission is to Reduce Earthquake Risk by:
(1) Advancing the science and practice of earthquake engineering.
(2) Improving understanding of the impact of earthquakes on the physical, social, economic, political, and cultural environment.
(3) Advocating comprehensive and realistic measures for reducing the harmful effects of earthquakes.

Current Priority Project:
San Diego Tijuana Earthquake Planning Scenario will update a 1990 Planning Scenario for a Major Earthquake in the San Diego Tijuana Regional Area with the intent to initiate emergency preparedness coordination and collaboration between the US and Mexico governments and the communities. EERI has taken the initiative to form a working group of private and government professionals to review and update the scenario considering current information resulting from improved technology and information about seismic behavior, geology, engineering, social, economic and cultural evolution since 1990.



The working group organization model, shown above:

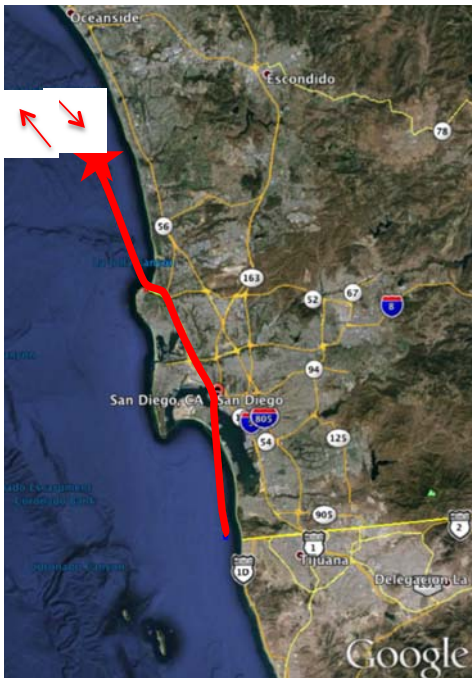
Working Group 1 focuses on "Earth Science" and initiated the bi-national effort by selecting and defining the scenario earthquake as part of the geo-hazards evaluation.

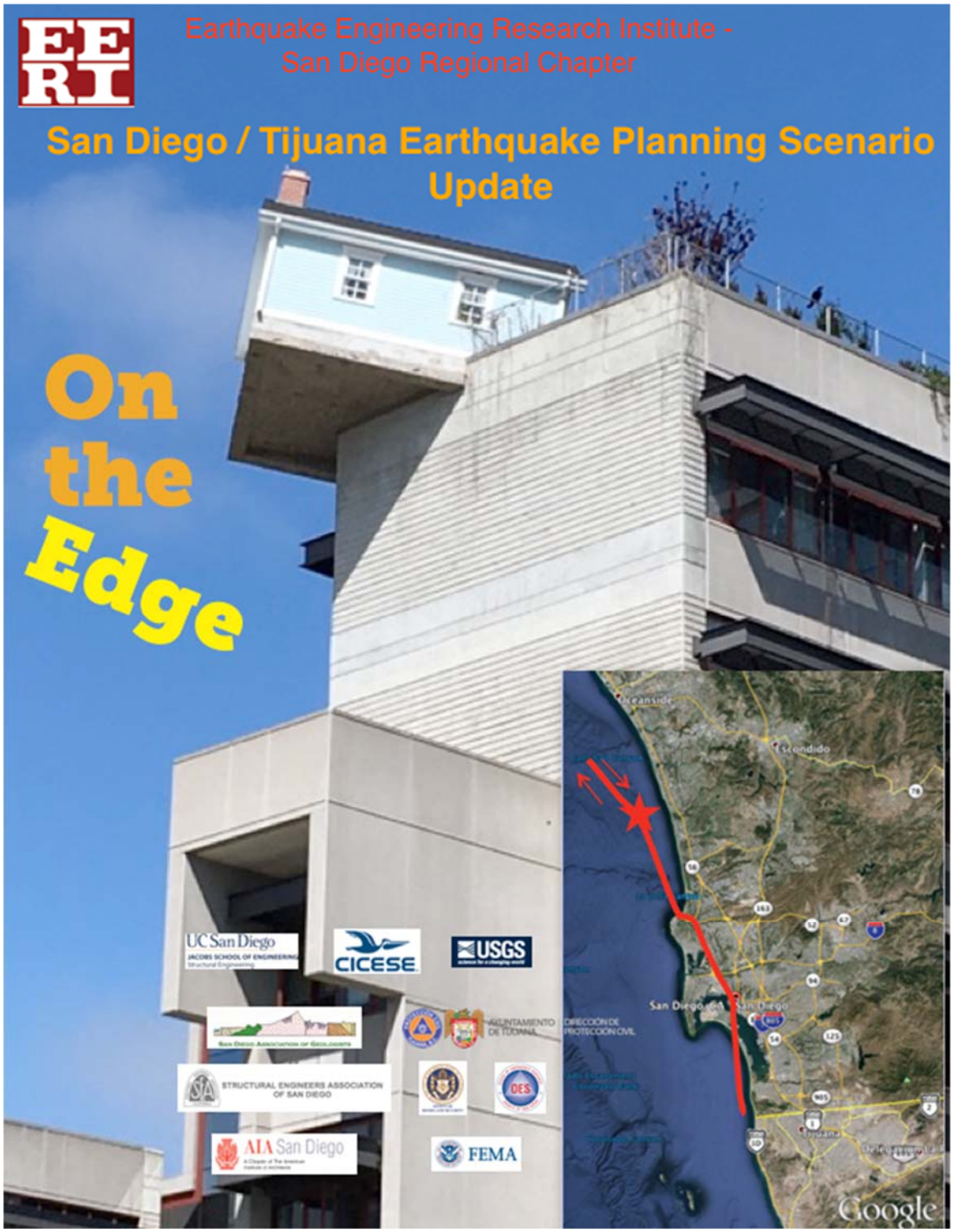
Working Group 2 focuses on "Engineering" aspects and is studying building and infrastructure inventories and vulnerabilities to estimate the expected physical damage from the scenario earthquake.
Working Group 3 focuses on "Social Science" and will estimate impacts on social and economic systems on both sides of the international border.

Policy Change:
Finally, the project will focus on defining recommended "Policy" measures, including actions that if applied today could reduce earthquake losses in the future. In this task, a Government & Civil Society Group will develop and implement a regional crisis management exercise to test and build response capacity.

PAGER – The USGS generated a Prompt Assessment of Global Earthquakes for Response (**PAGER**) for our earthquake planning scenario efforts. **PAGER** reports provide preliminary information concerning the impact of the earthquake to inform emergency responders, government, aid agencies, and the media of the scope of the potential disaster. As shown on **PAGER**, the scenario results in an **ORANGE** alert in terms of estimated casualties (100 to 1000 casualties), and results in a **RED** alert in terms of estimated economic losses ($10 million to $100 million). Therefore, the updated scenario earthquake does create significant damage and risk for the San Diego and Tijuana regions warranting consideration in the planning efforts.

How do I get involved?
Visit: EERI San Diego.org to learn more and how you can participate.
We are currently working on efforts to fund components to produce this scenario report.
We continue to reach out to acquire more stakeholders to assist with this scenario.
Your help and/or financial support is appreciated!



Rose Canyon Fault Rupture Scenario
M6.9 Earthquake

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