

THE WHISTLE: ARE WE READY FOR THE BIG ONE

SERIES OVERVIEW



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Synopsis

The Whistle is an Empire Network KVCR original investigative, educational program. *Are We Ready for the Big One* is the first installment—a four-part series that dives into earthquake science, history, recent disasters, California preparedness and immediate response, prevention, mitigation, resilience, sustainability, conservation, incentives, challenges, new technologies... and solutions.



Episode One (30 minutes): Earthquakes and the San Andreas Fault

The danger is real. Earthquakes, past and recent, and the San Andreas fault. What do we know about earthquakes today? What causes them, how often, why we know the big one is due. How did first nations and European settlers deal with them before modern technology? How dangerous is the threat and how much of an impact can a big earthquake cause? What will happen when the next big one hits.

Episode Two (30 minutes): Immediate response

The big one hits. We can expect thousands of wounded and tens of thousands of displaced. The fault lines cut off the 10, 5, and 15 freeways. Ports might be rendered useless. What contingency plans are in place by hospitals, law enforcement, fire departments, utility companies, schools? If the big shake hits during the day, how will children and adults get home? Once the earth shakes, what should you do?



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Episode Three (30 minutes): Prevention, Mitigation and Resilience

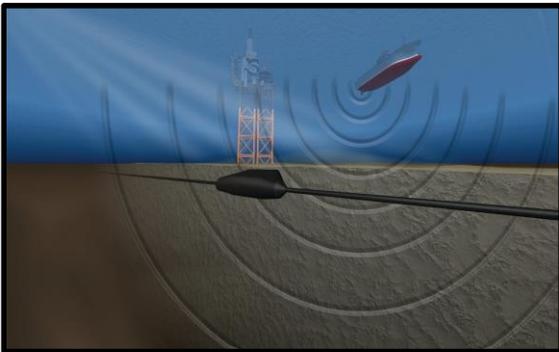
We know the big one is overdue. How can we prepare to reduce human loss and mitigate damages?

What are the basics of

disaster risk management? In 9/11 the loss of business interruption exceeded the losses in property damage. What steps can we take to minimize the impact of a large earthquake? What incentives are there to help us better prepare? Where are we in this? How can we be better resilient? How long to get back on our feet? What is the current state of affairs in prevention? How does California compare to other countries? How can we overcome short-term thinking and be ready? How can government, private business (insurance, building owners, lenders, etc), communities, utilities work together on this? What are the steps in being resilient? How are sustainability, conservancy and resilience linked together.



Episode Four (30 minutes): New Technologies and Solutions



What are the new technologies available? Who is testing these and why? How has Research and Development come up with these new technologies? How are they tested? How are the patents protected? What is available and what is being utilized? Overview of new technologies from seismology to manufacturing to design to architecture to construction to implementation. How do technologies

from one area translate into gains in other areas (i.e. from mechanical engineering into structural engineering, from small homes to large buildings)? Where are we with the early warning system (already operational in many countries)? In what are we ahead? In what can we improve? How does the future look like? What can individuals do (case study of the Paso Robles example)? How can we implement the technology?



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