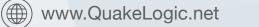
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AI-POWERED EARTHQUAKE RISK MANAGEMENT SOLUTIONS





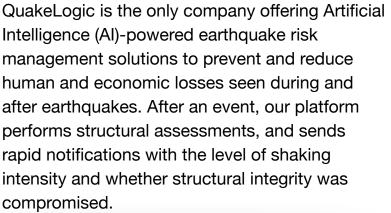


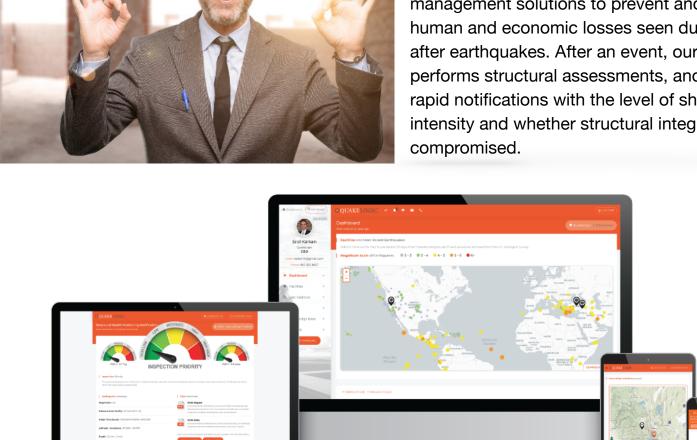
PROBLEM

After a quake, organizations may face pressing challenges including whether to utilize or evacuate structures, restore interrupted operations and repair damaged facilities or equipment. Accurate information is needed to make rapid and informed decisions. Early assessment of the structural integrity not only saves lives, but also minimizes downtime.



SOLUTION





Only the QuakeLogic's cutting-edge technology gives the most critical information on structure's performance rapidly after shaking to prioritize post-quake inspections and prevent unnecessary evacuations and interruptions to ongoing operations.

SOUAKELOGIC



STRUCTURAL HEALTH MONITORING SOLUTIONS FOR BRIDGES

SYSTEM FEATURES

- Real-time Continuous Waveform Analysis
- Web Application (Dashboard)
- Cloud or On-site Monitoring
- Listening Earthquakes for Triggering
- Threshold Triggering
- Text & WhatsApp Notifications
- API (Application Program Interface)
- Multi-level Reporting
- Condition Monitoring
- State-of-health Monitoring
- Platform Works with Various Sensors:
 - Accelerometers
 - Potentiometers
 - Strain Gauges
 - Thermocouples
 - Weather Stations
- Ambient Data Collection
- Real-time Motion Capture & Image Processing

COMPUTATIONAL FEATURES

- Artificial Intelligence & Machine Learning
- Real-time Pier Drift Computation
- Torsion Analysis
- Wave Propagation Analysis
- Modal Analysis
- Base-shear Capacity vs. Demand
- Base-shear, Overturning Moment and Hysteretic Response
- Acceleration & Disp. Response Spectra
- Spectrograms
- Frequency Response Analysis
- Coherence, Cross Spectrum Phase & Cross Correlation
- Fourier Amplitude Spectra
- Power Spectral Density
- P-phase Picking
- Polarization
- Intensity Measures:
 - PGA & PGV, Arias Intensity, CAV,
 - RMS Acceleration, Duration Interval
 - Cumulative Arias Intensity
- Custom Fragility Function Integration
- USGS-PRISM Processing (COSMOS)



Proper monitoring, surveillance and maintenance can provide early detection and intervention – Emergency Response

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