

# Localized Earthquake Hazard Analysis Using Simple Models

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In this presentation, we introduce various ground shaking and building response models. We then discuss the forecasting capabilities of different models submitted to the Regional Earthquake Likelihood Models (RELM) working group (now the Collaboratory for the Study of Earthquake Predictability) and show how they can be used as inputs for these models. Finally, we discuss how outputs from such multi-tiered calculations would prove invaluable for real-time and scenario-based hazard assessment and for cost-benefit analysis of possible mitigation actions.