

  StEER STRUCTURAL EXTREME EVENTS RECONNAISSANCE	JUSTIFICATION FOR LEVEL OF ACTIVATION	
	Event:	2023 Ecuador M6.7 Earthquake
Release Date: March 20, 2023		

Summary: StEER activated a Level 1 response with a Virtual Field Assessment Team formed on March 20, 2023 to evaluate this event, based on the event achieving more than 50% of the criteria in Table 1.

Table 1: Level 1 Activation Criteria for major hazard event with the potential to generate new knowledge		
Hazard	Exposure	Feasibility
☒ <i>Major intensity event</i> Earthquake-M 6.7	☒ <i>Population</i> Sufficiently populated areas to create measurable impact	☐ <i>Resource</i> Availability/interest of members
☐ <i>Long duration event</i> Earthquake - Long duration shaking	☒ <i>Community</i> Communities with a history of recovery OR those rarely exposed	☒ <i>Media</i> Sufficient media/social media coverage of the event, including the potential to automate the mining of information
☐ <i>Succession of events</i> Earthquake - Sequence of earthquakes/ aftershocks	☒ <i>Code validation</i> Noteworthy code or construction practices	☐ <i>Bandwidth of StEER support team</i> Sufficient bandwidth for multiple concurrent responses
☒ <i>Joint/compounding hazards</i> Earthquake-landslide, liquefaction, fire	☐ <i>Infrastructure of interest</i> - Critical infrastructure - Under-documented structure classes	
	☐ <i>Existence of models or measurements</i> - Instrumented structures - Digital twins - Testbeds	
6/12 (50%) of Level 1 Criteria Satisfied		