Assessment of Seismic Site Amplification and Seismic Building Vulnerability
(ref. SFP-980857)

Investigators from Croatia, Italy, the former Yugoslav Republic of Macedonia\(^1\) and Slovenia are cooperating to understand how building sites could respond to seismic disturbances. Detailed measurements were taken of the soil and building frequencies induced by vibrations in the earth. With calculations based on these measurements, it was possible to identify vulnerable buildings and to point out construction defects or soil characteristics that more readily sustain resonances that may account for structural collapses. A pilot survey has been carried out to test this methodology in the field, and detailed preparations have been made for a much larger survey. Officials from the municipalities of Ljubljana and Bovec in Slovenia; Zagreb and Ston in Croatia; and Skopje in the former Yugoslav Republic of Macedonia have cooperated in these activities.

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\(^1\) Turkey recognises the Republic of Macedonia with its constitutional name.