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non-operational in the immediate rescue relief phase. A distinct difference in the post-disaster operation can be observed in the cities where the local government office was not affected due to its location on higher ground. In Ofunato in lwate Prefecture, or in lwanuma, Yamamoto-cho, in Miyagi Prefecture, the local governments already started their preparations for the short- and medium-term recovery phase, including construction of temporary shelter. In contrast, in Minamisanriku, where the three-story disaster management office was also destroyed, the relief phase has been prolonged.

For early warning systems to be effective, a proper risk communication mechanism, which links both information provider and receiver, is needed. In the March 11 disaster, the tsunami warning and tsunami advisory were issued within three minutes after the event.

The warning was broadcast though the Japan Meteorological Agency webpage, television, radio, social networking media, and also through announcements from the town and city offices. However, in several places, initially, people underestimated the height and severity of tsunami, and started evacuating after the first wave had arrived. What makes people take immediate action for evacuation? An easy-to-understand early warning (with information on potential tsunami height), evacuation orders and repeated evacuation drills make a difference. In some cases, people had a "feel safe" misperception, where neighbors' and children's roles became important.

What is an ideal tsunami prevention measure? There is possibly not a single formula applicable to every place. It needs to be customized based on local geographic and topographic conditions. A combination of early warning systems, infrastructure measures like coastal dykes, tsunami evacuation centers, and awareness and education campaigns including evacuation drills and disaster education is required.

Finally, I would like to emphasize that through the 400 km long survey along the coast, I have not seen major earthquake damage. While liquefaction effects were reported in Chiba and Ibaraki prefectures due to soft soil and reclaimed land, most of the buildings on higher ground in the worst-affected areas remain undamaged. The only visible impact was the damage of roof tiles in some areas like Natori, Watari and Yamamoto-cho in Miyagi prefectures.

The epicenter and the fault zone were located under the sea, and therefore it may not be comparable to the Hanshin-Awaji Great Earthquake, which was an inland earthquake, with the fault line passing below the devastated city. But with a magnitude 9 earthquake, and with an intensity of 7 on the Japanese scale (the maximum possible intensity), a real appreciation needs to be given to the earthquake risk reduction measures Japan has practiced over years. In all the coastal towns, a sharp demarcation of affected and non-affected areas can be made through the tsunami inundation, which varies from 3 to 5 km. If there was additional damage due to earthquakes, the situation would have been worse.

(Rajib Shaw is an associate professor in the laboratory of International Environment and Disaster Management in the Kyoto University's Graduate School of Global Environmental Studies. His specialty is community-based disaster risk reduction, and he is also the board chairman of SEED Asia.)

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