Prototype damage scenario database for disaster prevention training for active faults

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NIED has been developing a real-time damage estimation and situation grasping system that will enable estimation of the overall damages and assessment of the situation in real time when a disaster on a large scale covering a wide range occurs, such as a large earthquake. We have also been conducting demonstration experiments, such as disaster training, in coordination with users to promote using the earthquake damage estimation information as a new piece of disaster prevention information. To evaluate the effectiveness and problems of using the estimated information of earthquake damage, there are many needs for data with regard to disaster prevention training, which contains realistic and diverse earthquake occurrence patterns and damage occurrence patterns. In this study, to help prepare for disaster prevention training, we therefore prototyped a database on seismic motion distribution, building damage, and human damage distribution for training targeted at the active faults over the nation, based on the damages caused by the 2016 Kumamoto Earthquake, which occurred on major active fault zones.

Acknowledgements
This work was supported by the Council for Science, Technology and Innovation (CSTI) through the Cross-ministerial Strategic Innovation Promotion Program (SIP), titled “Enhancement of societal resiliency against natural disasters” (Funding agency: JST).

Keywords: Active faults, Disaster prevention training, Damage scenario